

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 277365

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

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number 30-025-46791
4. Property Code 40329	5. Property Name SEA SNAKE 35 STATE	6. Well No. 016H

7. Surface Location

UL - Lot M	Section 35	Township 23S	Range 33E	Lot Idn M	Feet From 247	N/S Line S	Feet From 531	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 35	Township 23S	Range 33E	Lot Idn D	Feet From 20	N/S Line N	Feet From 380	E/W Line W	County Lea
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9. Pool Information

TRIPLE X;BONE SPRING	59900
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3658
16. Multiple N	17. Proposed Depth 15575	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/1/2020
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	1358	1021	0
Int1	12.25	9.625	40	5258	734	0
Prod	8.75	5.5	17	15575	1520	4758

Casing/Cement Program: Additional Comments

Int 1 Two Stage w/ DV @ TVD of Delaware 570 Surf 9.0 3.3 1st stage Lead: Class C Cement + additives 136 500' above shoe 13.2 1.4 1st stage Tail: Class H / C + additives 566 Surf 9.0 3.3 2nd stage Lead: Class C Cement + additives 136 500' above DV 13.2 1.4 2nd stage Tail: Class H / C + additives Int 1 Intermediate Squeeze As Needed Surf 9.0 3.3 Squeeze Lead: Class C Cement + additives 580 Surf 9.0 3.3 Lead: Class C Cement + additives 154 500' above shoe 13.2 1.4 Tail: Class H / C + additives

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Double Ram	5000	5000	
Annular	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.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Jeff Walla	Approved By:	Paul F Kautz
Title:	Supervisor Land	Title:	Geologist
Email Address:	Jeff.Walla@dmn.com	Approved Date:	1/27/2020
Date:	1/21/2020	Expiration Date:	1/27/2022
Phone: 575-748-9925		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 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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 59900	Pool Name TRIPLE X;BONE SPRING
Property Code	Property Name SEA SNAKE 35 STATE	Well Number 16H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3657.8'

Surface Location

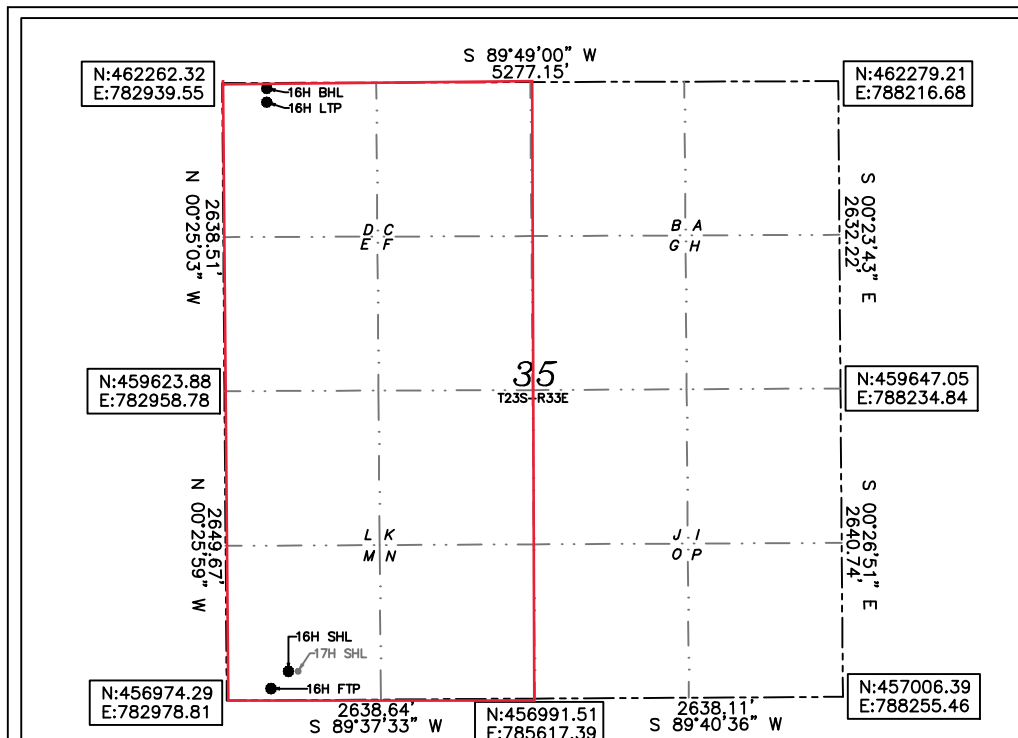
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	23-S	33-E		247	SOUTH	531	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	23-S	33-E		20	NORTH	380	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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**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**



SEA SNAKE 35 STATE 16H EL: 3657.8' LAT: 32.254557 LON: 103.549947 N: 457224.75 E: 783507.93	FIRST TAKE POINT 100' FSL 380' FWL SEC. 35 LAT: 32.254153 LON: 103.550435 N: 457076.76 E: 783358.04	LAST TAKE POINT 100' FNL 380' FWL SEC. 35 LAT: 32.268136 LON: 103.550437 N: 462163.54 E: 783320.28	BOTTOM OF HOLE LAT: 32.268356 LON: 103.550437 N: 462243.54 E: 783319.70
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Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 1/6/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

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.

11/2019

Date of Survey

Signature & Seal of Professional Surveyor



12/07/19

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

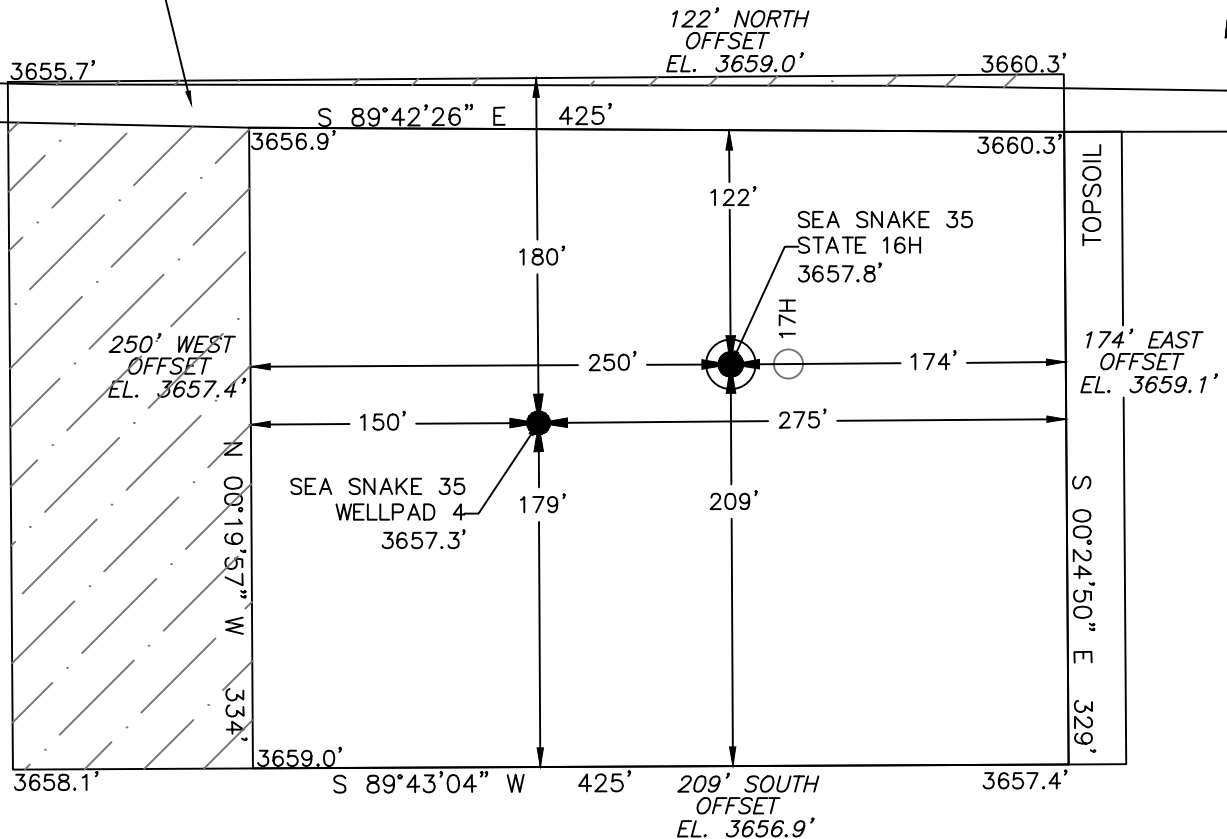
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO SITE MAP

SEA SNAKE 35
PRIMARY ACCESS ROAD
PROPOSED EASEMENT



PROPOSED PAD 3.233± ACRES
ACCESS ROAD 0.286± ACRES
TOTAL 3.519± ACRES

Note: All bearings recited
herein are based on the New
Mexico State Plane Coordinate
System, NAD 83, New Mexico
East Zone 3001, US Survey
Feet, all distances are grid.

DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM-128 AND BRINSTOOL ROAD (CR. 2-A), HEAD
NORTH ON BRINSTOOL ROAD (CR. 2-A) FOR 3.1 MILES. TURN RIGHT ON
PROPOSED SEA SNAKE 35 PRIMARY ACCESS ROAD FOR 1.2 MILES TO THE
NORTHWEST CORNER OF THE SEA SNAKE 35 WELLPAD 4.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by
CHRIS MAAS

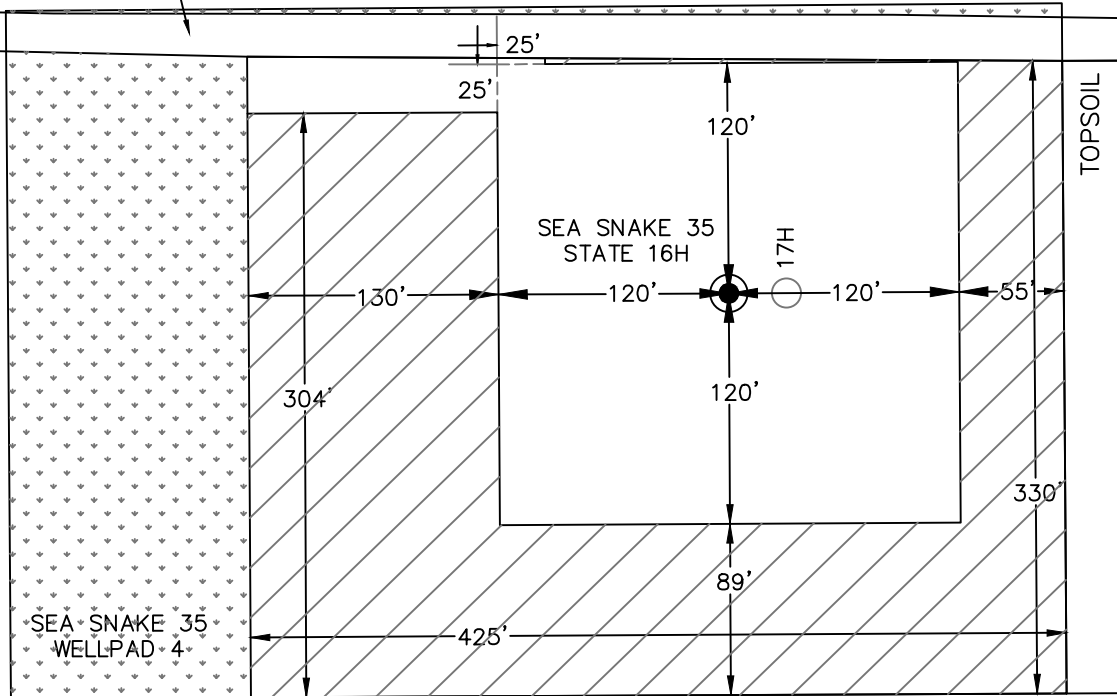
Date: 12/04/2019

Drawn for:



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO INTERIM SITE BUILD PLAN

SEA SNAKE 35
PRIMARY ACCESS ROAD
PROPOSED EASEMENT



-  DENOTES INTERIM PAD RECLAMATION AREA
 DENOTES GRADING SITE RECLAMATION AREA

1.822± ACRES INTERIM PAD RECLAMATION AREA
 1.012± ACRES GRADING SITE RECLAMATION AREA
 1.697± ACRES NON-RECLAIMED AREA
 4.531± ACRES GRADING SITE RECLAMATION AREA



DEVON ENERGY PRODUCTION COMPANY, L.P.
 SEA SNAKE 35 STATE 16H
 LOCATED 247 FT. FROM THE SOUTH LINE
 AND 531 FT. FROM THE WEST LINE OF
 SECTION 35, TOWNSHIP 23 SOUTH,
 RANGE 33 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

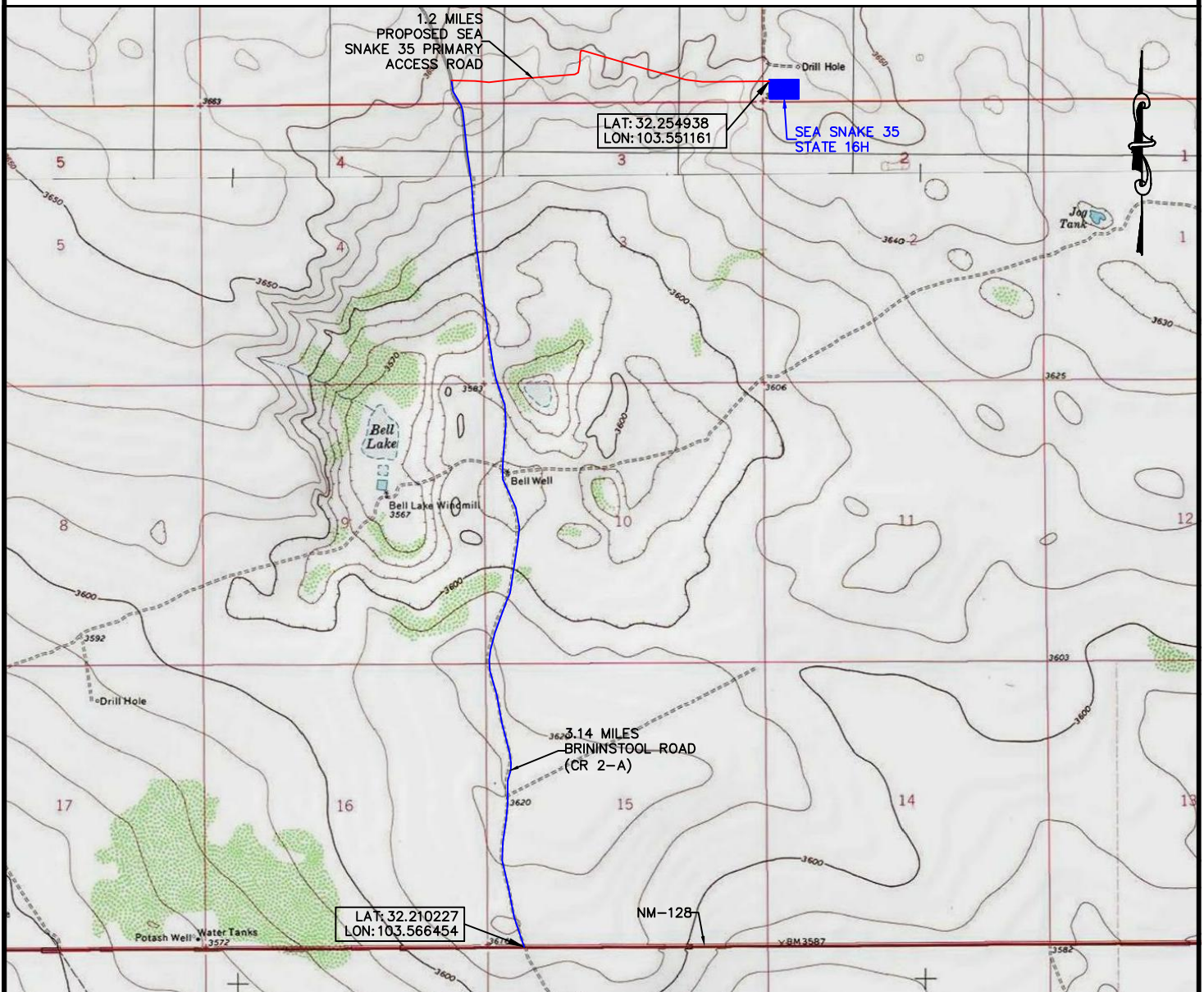
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO VICINITY MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM-128 AND BRININSTOOL ROAD (CR. 2-A), HEAD NORTH ON BRININSTOOL ROAD (CR. 2-A) FOR 3.1 MILES. TURN RIGHT ON PROPOSED SEA SNAKE 35 PRIMARY ACCESS ROAD FOR 1.2 MILES TO THE NORTHWEST CORNER OF THE SEA SNAKE 35 WELLPAD 4.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

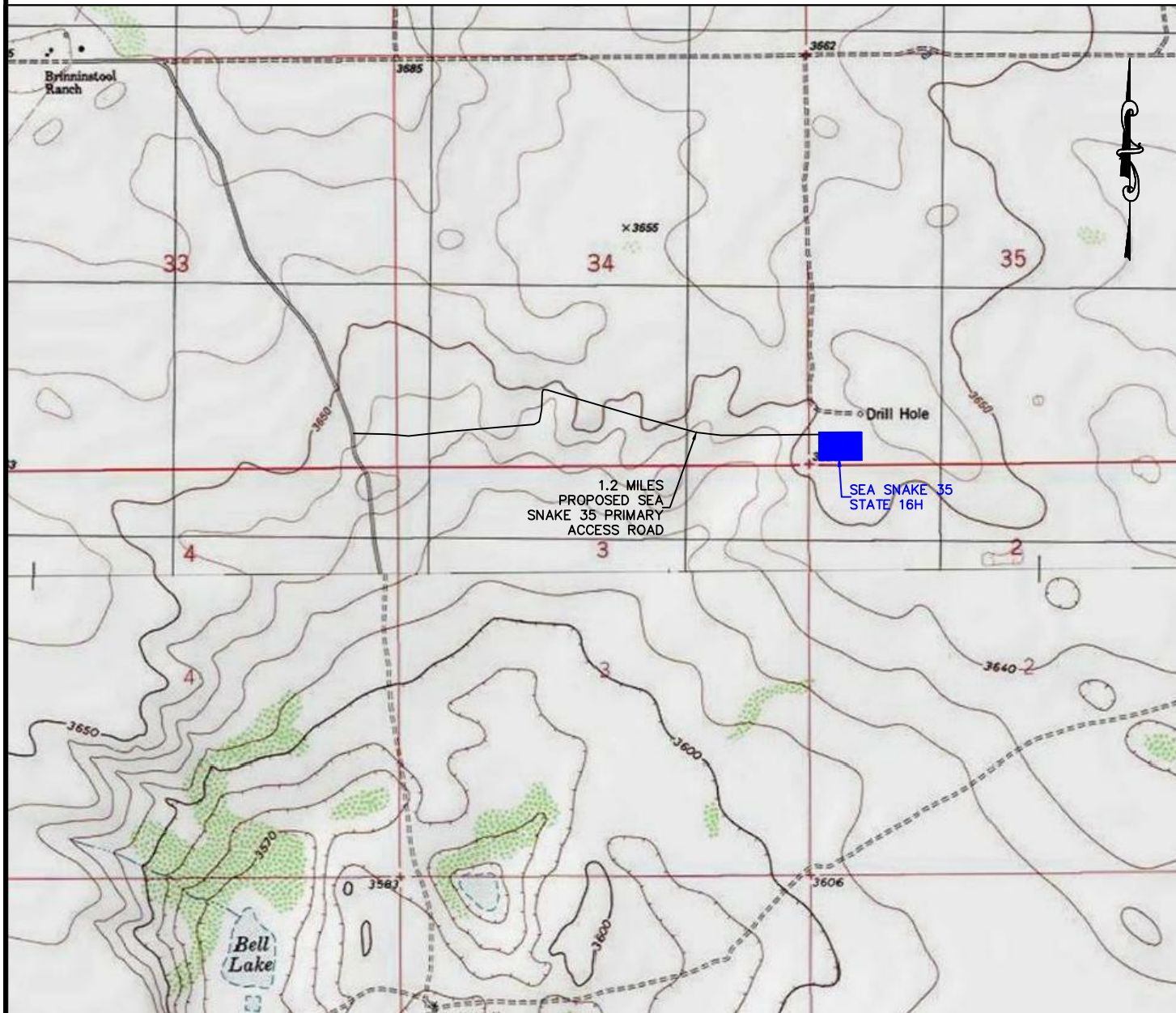
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

0 2000 4000



HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

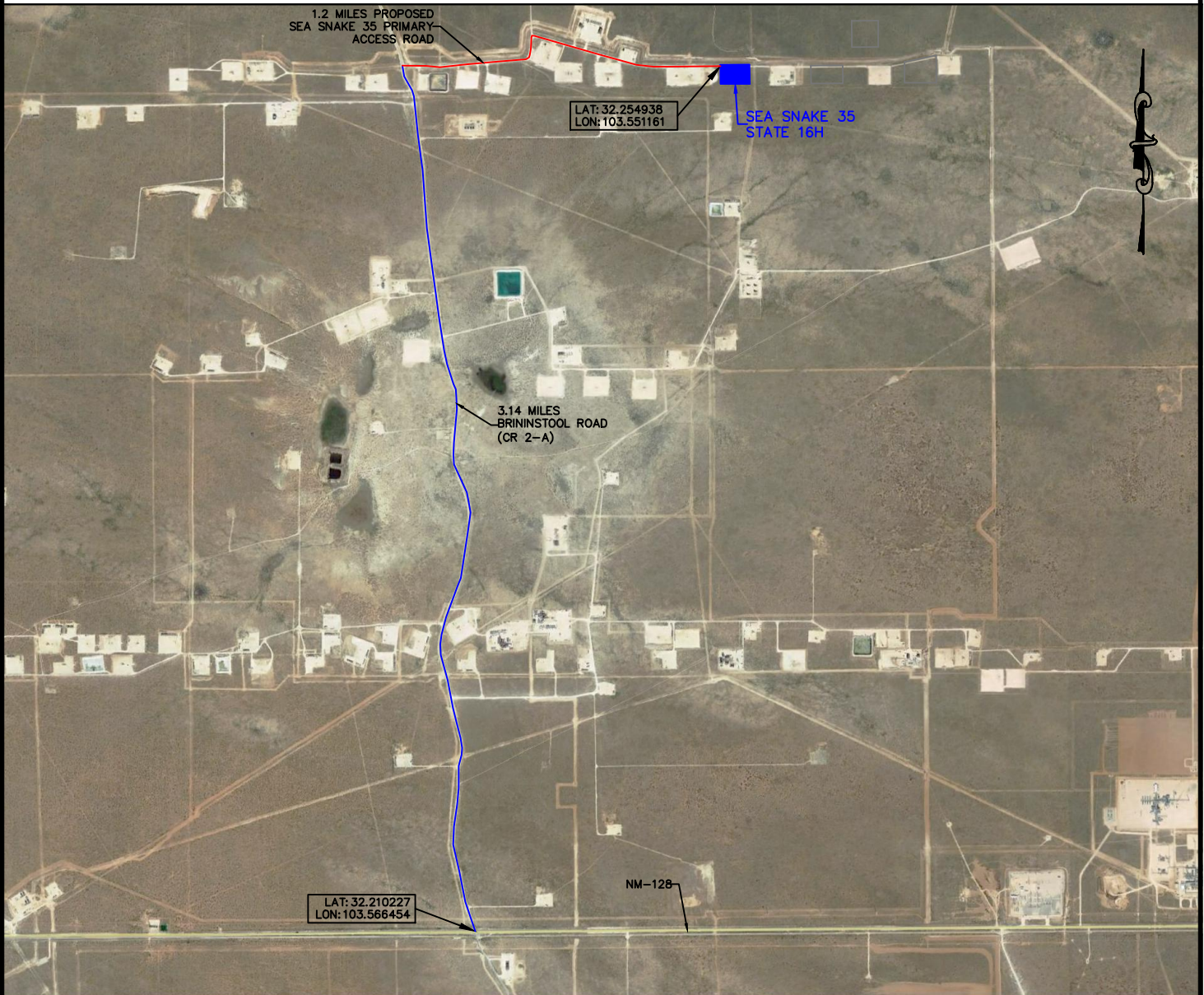
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

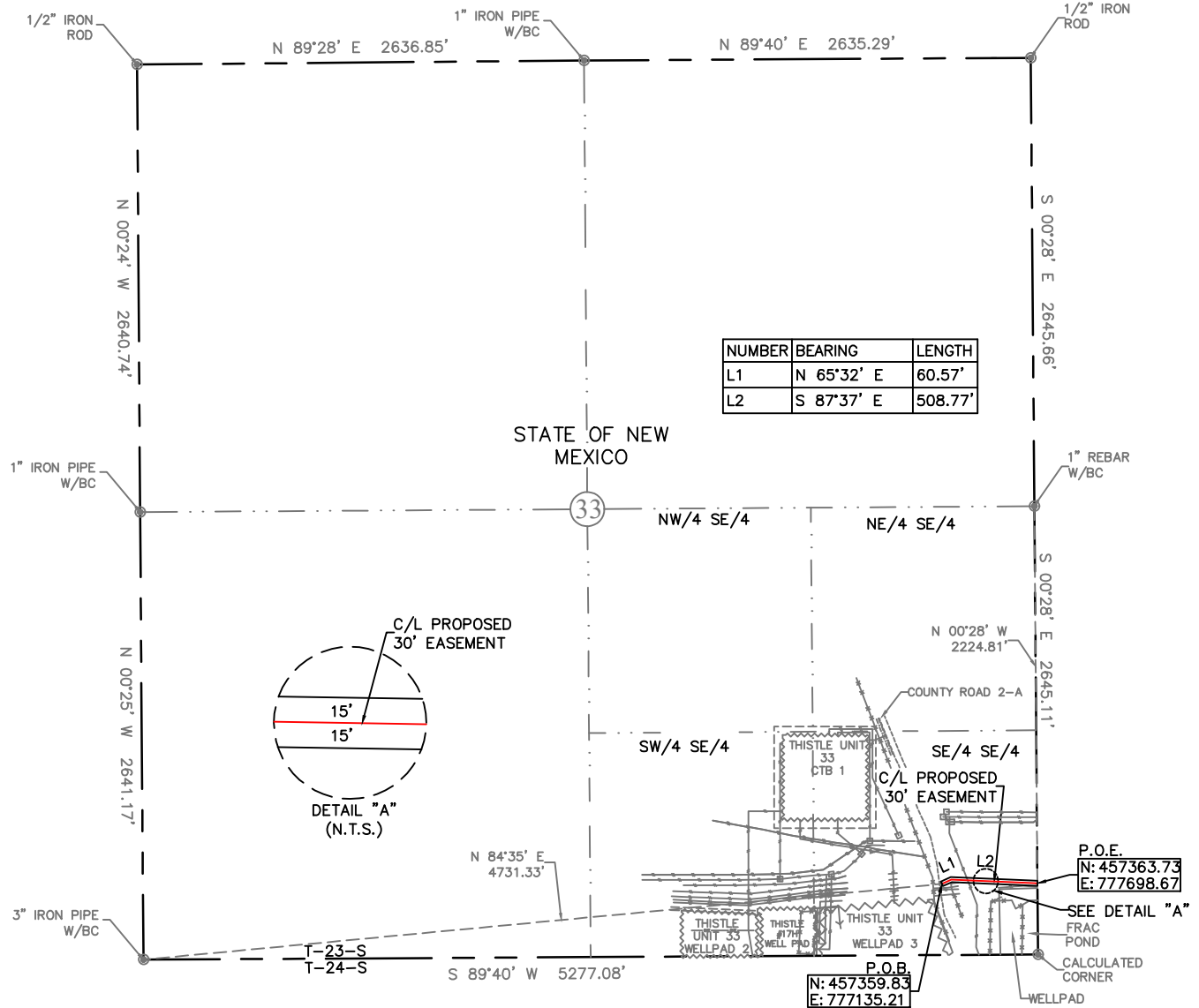
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

EXHIBIT "A"
SECTION 33, T23S-R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO



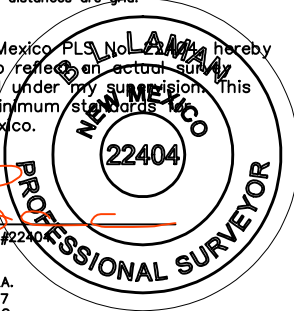
QUARTER/ QUARTER	30' EASEMENT AREA	FEET	RODS
SE/4 OF SE/4	0.392 ACRES	569.34'	34.51

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico Professional Surveyor No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 12-06-2019
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
DANIEL SHOOK

Date: 12/05/2019

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE 35
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO
SECTION 33, T23S-R33E, N.M.P.M.

LINE NUMBER:

WBS NUMBER:
XX-130853.01.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
12/2019

0+00.0 P.O.B./ BRININSTOOL ROAD
1+57.4 EXISTING PIPELINE
5+69.3 P.O.E./ SECTION LINE

0 1000 2000



**SECTION 33, T23S-R33E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

**LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
STATE OF NEW MEXICO**

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter of the southeast quarter (SE ¼ SE ¼) of Section 33, Township 23 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 3" iron pipe w/BC found for the southwest corner of Section 33, T23S-R33E, N.M.P.M., Lea County, New Mexico;

Thence N 84°35' E, a distance of 4731.33' to the **Point of Beginning** of this easement having coordinates of Northing=457359.83 feet, Easting=777135.21 feet, and continuing the following courses;

Thence N 65°32' E, a distance of 60.57' to an angle point;

Thence S 87°37' E, a distance of 508.77' to the **Point of Ending** having coordinates of Northing=457363.73 feet, Easting=777698.67 feet, being in the east line of Section 33, from said point a 1" rebar w/ BC found for the east quarter corner of Section 33, T23S-R33E, N.M.P.M., Lea County, New Mexico bears N 00°28' W a distance of 2224.81', covering **569.34' or 34.51 rods** and having an area of **0.392 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404

Date Signed: 12/06/2019

Horizon Row, LLC

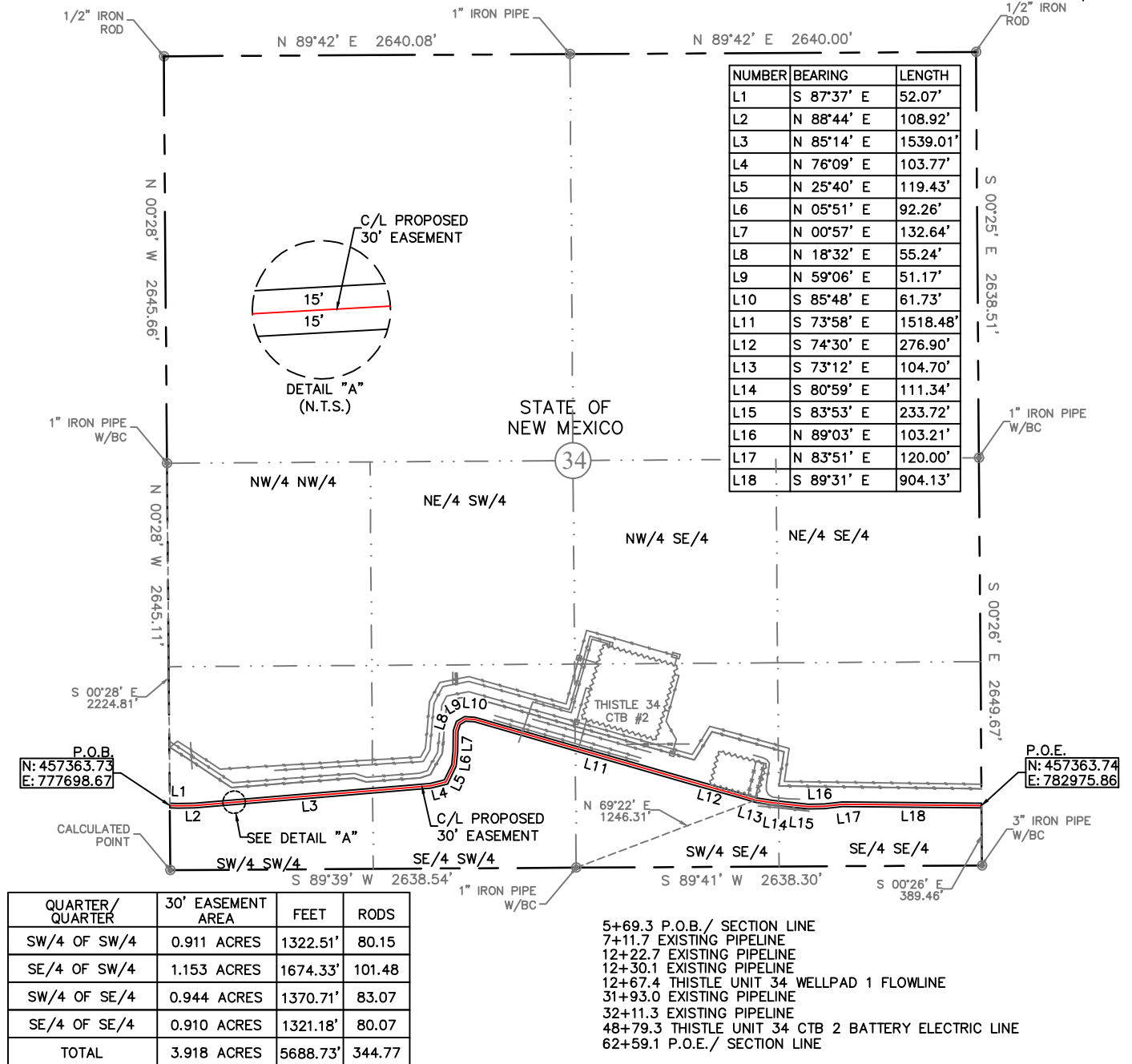
P.O. Box 548, Dry Creek, LA

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
SECTION 34, T23S-R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

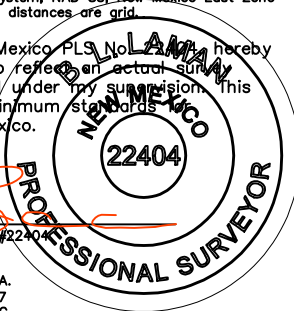


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I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 12-06-2019
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
DANIEL SHOOK

Date: 12/05/2019

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE 35
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO

SECTION 34, T23S-R33E, N.M.P.M.

LINE NUMBER:

WBS NUMBER:
XX-130853.01.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
12/2019

0 1000 2000



**SECTION 34, T23S-R33E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

**LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
STATE OF NEW MEXICO**

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter of the southwest quarter (SW $\frac{1}{4}$, SW $\frac{1}{4}$) and the southeast quarter of the southwest quarter (SE $\frac{1}{4}$, SW $\frac{1}{4}$) and the southwest quarter of the southeast quarter (SW $\frac{1}{4}$, SE $\frac{1}{4}$) and the southeast quarter of the southeast quarter (SE $\frac{1}{4}$, SE $\frac{1}{4}$) of Section 34, Township 23 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC found for the west quarter corner of Section 34, T23S-R33E, N.M.P.M., Lea County, New Mexico;

Thence S 00°28' E, a distance of 2224.81' to the **Point of Beginning** of this easement being in the west line of Section 34, having coordinates of Northing=457363.73 feet, Easting=777698.67 feet and continuing the following course;

Thence S 87°37' E, a distance of 52.07' to an angle point;

Thence N 88°44' E, a distance of 108.92' to an angle point;

Thence N 85°14' E, a distance of 1539.01' to an angle point;

Thence N 76°09' E, a distance of 103.77' to an angle point;

Thence N 25°40' E, a distance of 119.43' to an angle point;

Thence N 05°51' E, a distance of 92.26' to an angle point;

Thence N 00°57' E, a distance of 132.64' to an angle point;

Thence N 18°32' E, a distance of 55.24' to an angle point;

Thence N 59°06' E, a distance of 51.17' to an angle point;

Thence S 85°48' E, a distance of 61.73' to an angle point;

Thence S 73°58' E, a distance of 1518.48' to an angle point;

Thence S 74°30' E, a distance of 276.90' to an angle point;

Thence S 73°12' E, a distance of 104.70' to an angle point;

Thence S 80°59' E, a distance of 111.34' to an angle point;

Thence S 83°53' E, a distance of 233.72' to an angle point;

Thence N 89°03' E, a distance of 103.21' to an angle point;

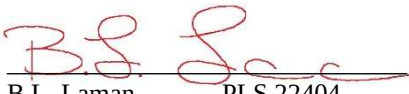
Thence N 83°51' E, a distance of 120.00' to an angle point;

Thence S 89°31' E, a distance of 904.13' to the **Point of Ending** of this easement being in the east line of Section 34, having coordinates of Northing=457363.74 feet, Easting=782975.86 feet, from said point a 3" iron pipe w/BC found for the southeast corner of Section 34, T23S-R33E, N.M.P.M., Lea County, New Mexico bears S 00°26' E a distance of 389.46', covering **5688.73' or 344.77 rods** and having an area of **3.918 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404

Date Signed: 12/06/2019

Horizon Row, LLC

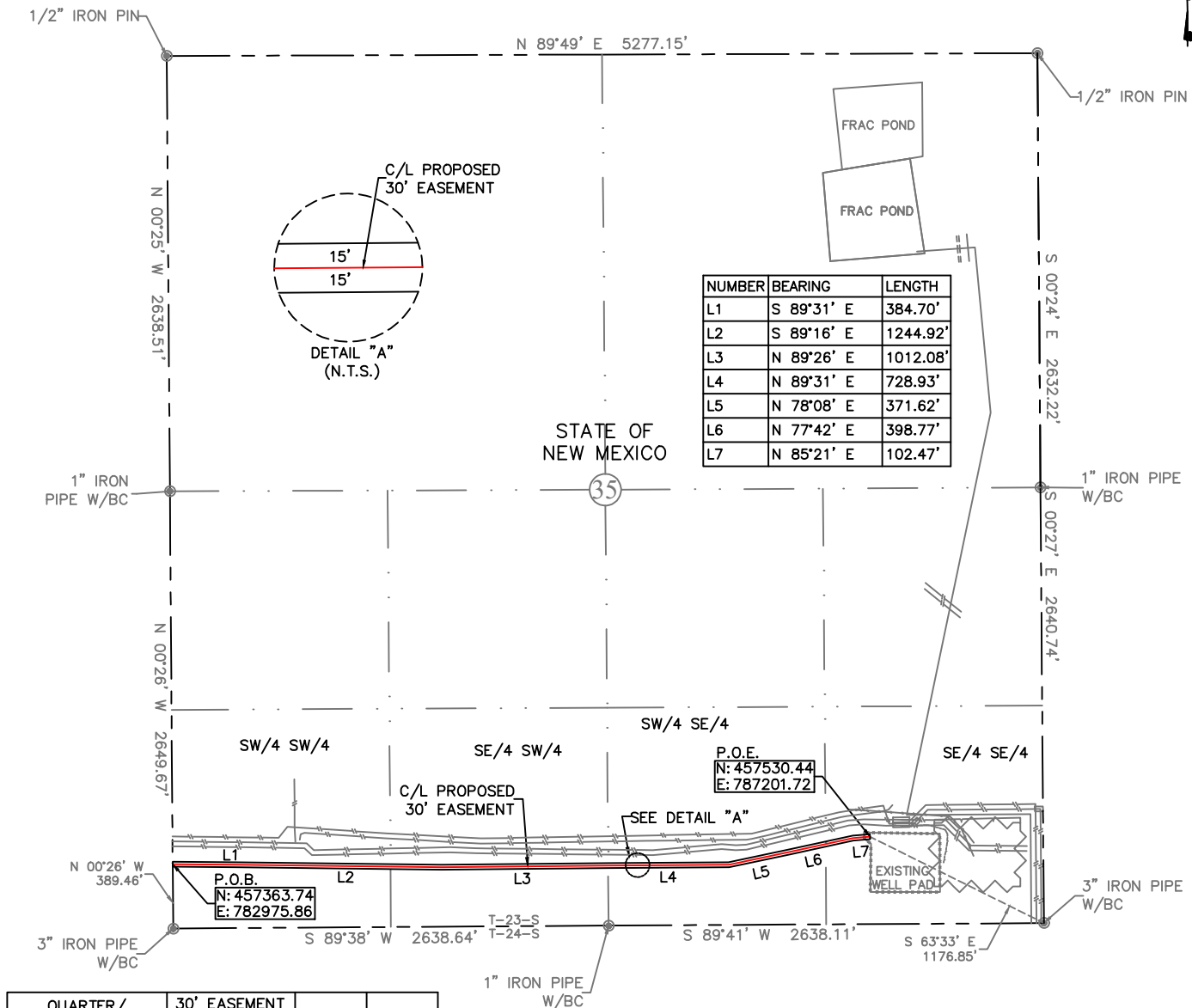
P.O. Box 548, Dry Creek, LA

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
SECTION 35, T23S-R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO



QUARTER/ QUARTER	30' EASEMENT AREA	FEET	RODS
SW/4 OF SW/4	0.909 ACRES	1319.58'	79.97
SE/4 OF SW/4	0.909 ACRES	1319.41'	79.96
SW/4 OF SE/4	0.917 ACRES	1331.34'	80.69
SE/4 OF SE/4	0.188 ACRES	273.16'	16.56
TOTAL	2.923 ACRES	4243.49'	257.18

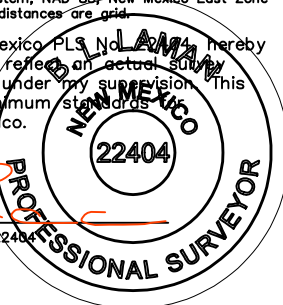
62+59.1 P.O.B./ SECTION LINE
64+14.7 ENTER SEA SNAKE 35 WELLPAD 4
69+64.7 EXIT SEA SNAKE 35 WELLPAD 4
81+20.6 ENTER SEA SNAKE 35 WELLPAD 5
87+20.5 EXIT SEA SNAKE 35 WELLPAD 5
98+87.0 ENTER SEA SNAKE 35 WELLPAD 6
104+98.0 EXIT SEA SNAKE 35 WELLPAD 6
105+02.6 P.O.E./ EXISTING WELLPAD

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico Professional Surveyor, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 12-06-2019
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
DANIEL SHOOK

Date: 12/05/2019

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE 35
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO

SECTION 35, T23S-R33E, N.M.P.M.

LINE NUMBER:

WBS NUMBER:
XX-130853.01.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE SURVEY:
12/2019

0 1000 2000



**SECTION 35, T23S-R33E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

**LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
STATE OF NEW MEXICO**

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out the southwest quarter of the southwest quarter (SW $\frac{1}{4}$, SW $\frac{1}{4}$) and the southeast quarter of the southwest quarter (SE $\frac{1}{4}$, SW $\frac{1}{4}$) and the southwest quarter of the southeast quarter (SW $\frac{1}{4}$, SE $\frac{1}{4}$) and the southeast quarter of the southeast quarter (SE $\frac{1}{4}$, SE $\frac{1}{4}$) of Section 35, Township 23 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land conveyed to the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 3" iron pipe w/BC for the southwest corner of Section 35, T23S-R33E, N.M.P.M., Lea County, New Mexico;

Thence N 00°26' W a distance of 389.46' to the **Point of Beginning** of this easement, being in the west line of Section 35, having coordinates of Northing=457363.74, Easting=782975.86 feet and continuing the following courses;

Thence S 89°31' E, a distance of 384.70' to an angle point;
Thence S 89°16' E, a distance of 1244.92' to an angle point;
Thence N 89°26' E, a distance of 1012.08' to an angle point;
Thence N 89°31' E, a distance of 728.93' to an angle point;
Thence N 78°08' E, a distance of 371.62' to an angle point;
Thence N 77°42' E, a distance of 398.77' to an angle point;

Thence N 85°21' E, a distance of 102.47' to the **Point of Ending**, having coordinates of Northing=457530.44, Easting=787201.72 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 35, T23S-R33E bears S 63°33' E a distance of 1176.85', covering **4243.49' or 257.18 rods** and having an area of **2.923 acres**.

NOTES:

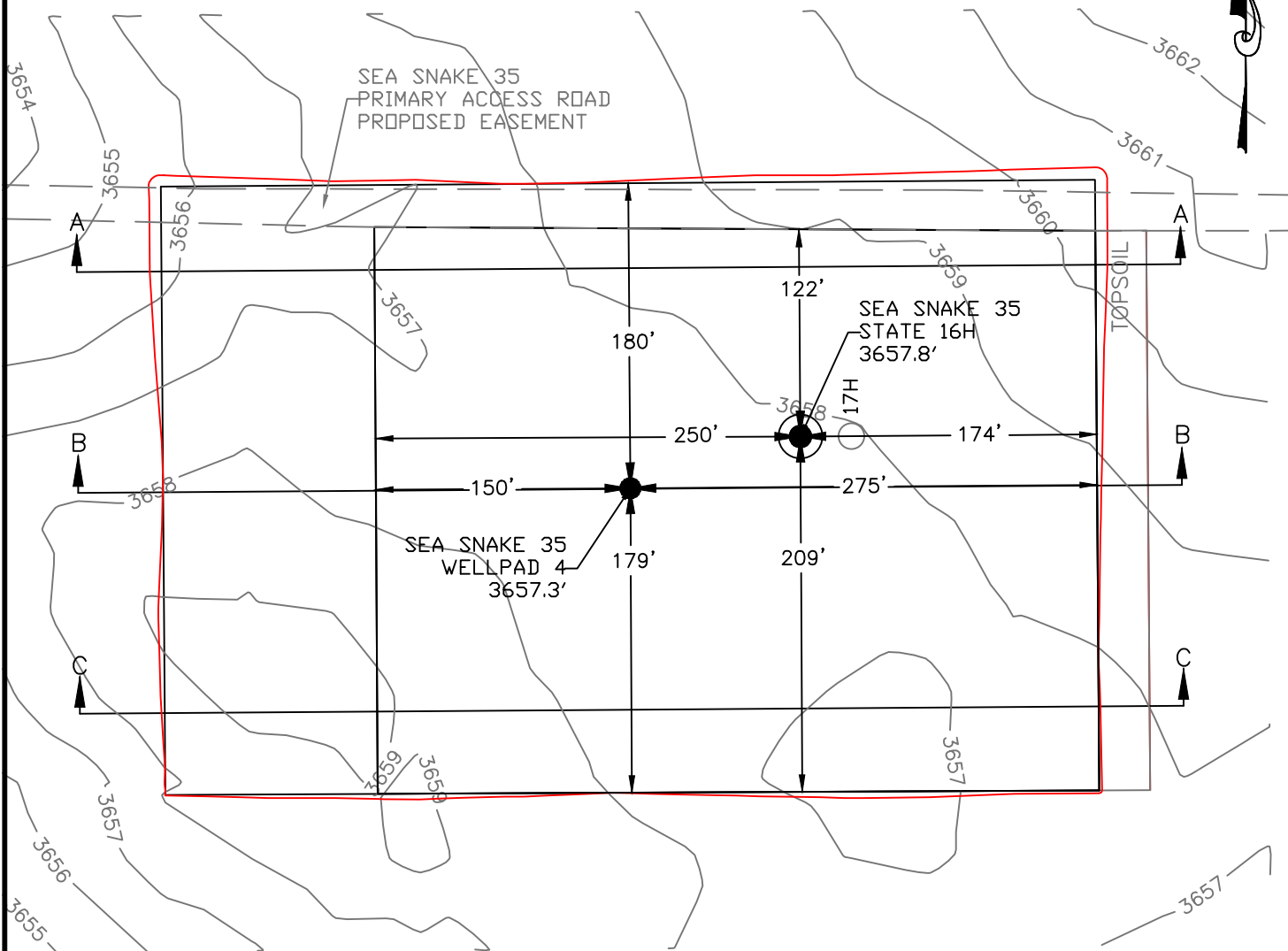
Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404
Date Signed: 12/06/2019
Horizon Row, LLC
P.O. Box 548, Dry Creek, LA
(903) 388-3045 70637
Employee of Horizon Row, LLC



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
PLAN VIEW



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



EARTHWORK QUANTITIES FOR
SEA SNAKE 35 WELLPAD 4

CUT	FILL	NET
2,391 CY	2,392 CY	1 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

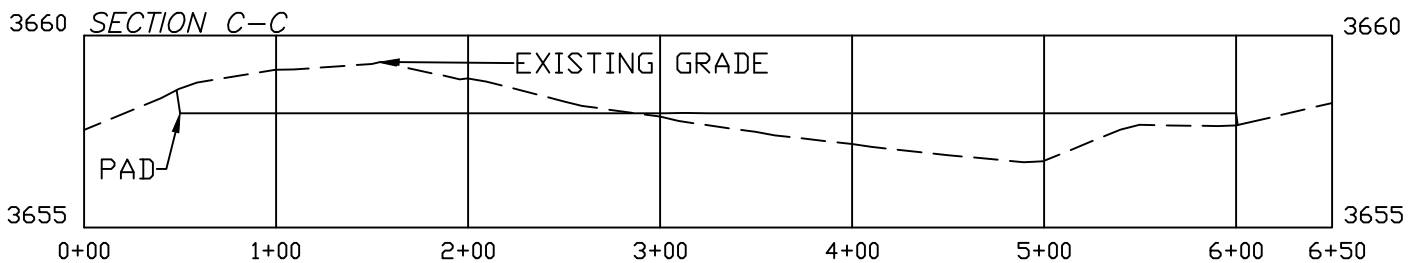
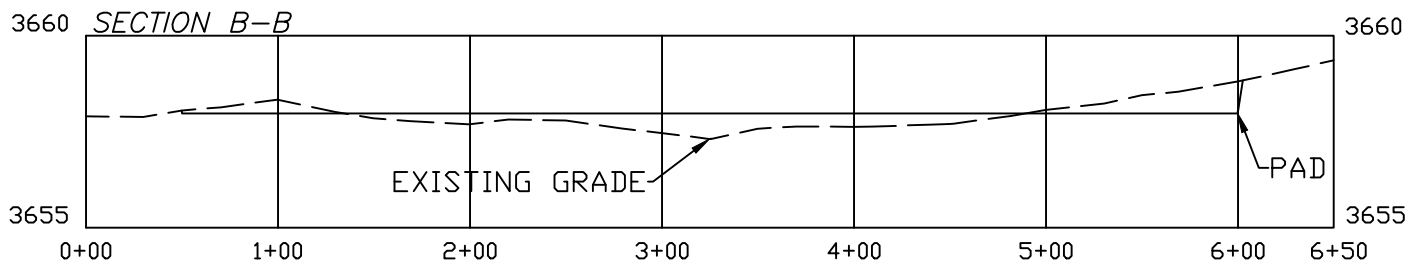
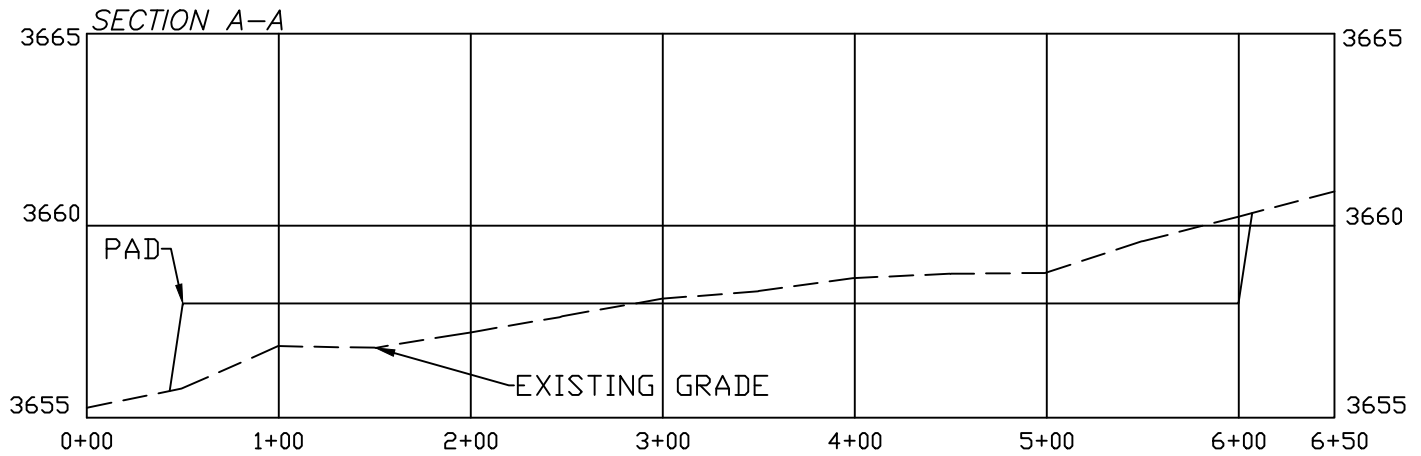
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO CROSS SECTIONS



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 16H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 531 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

SCALE 1" = 100' HORIZONTAL
SCALE 1" = 5' VERTICAL

EARTHWORK QUANTITIES FOR
SEA SNAKE 35 WELLPAD 4

CUT	FILL	NET
2,391 CY	2,392 CY	1 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:



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: 1/27/2020

☒ 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 (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SEA SNAKE 35 STATE #016H	30-025-46791	M-35-23S-33E	0247S 0531W	2200	None	

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 LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 535' of pipeline to connect the facility to Low Pressure gathering system. DEVON ENERGY PRODUCTION COMPANY, LP provides (periodically) to LUCID ENERGY DELAWARE, LLC 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 LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 34E, Lea 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 LUCID ENERGY DELAWARE, LLC 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

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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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 277365

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102		API Number: 30-025-46791
		Well: SEA SNAKE 35 STATE #016H

Created By	Comment	Comment Date
drebecca	Drilling Plan, Directional Survey, AC Plan, C-102 & GCP will be sent overnight via FedEx	1/16/2020

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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 277365

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102	API Number: 30-025-46791
	Well: SEA SNAKE 35 STATE #016H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 35-23S-33E

Sea Snake 35 State 16H

Wellbore #1

Permit Plan 1

Anticollision Report

07 January, 2020

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	1/7/2020		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	15,575.11	Permit Plan 1 (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM

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 35-23S-33E						
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	8,686.39	8,760.81	852.87	791.22	13.833	CC
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	8,700.00	8,771.98	852.89	791.16	13.815	ES
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	15,575.11	14,745.88	1,239.21	1,109.82	9.578	SF
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	3,500.00	3,507.80	1,536.80	1,512.11	62.236	CC, ES
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	15,575.11	14,706.28	2,000.83	1,847.95	13.088	SF
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	2,200.00	2,200.10	30.00	14.64	1.953	Minor Risk, CC, ES
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	2,300.00	2,299.58	30.85	14.79	1.921	Minor Risk, SF
Sea Snake 35 State 18H - Wellbore #1 - Permit Plan 1	2,000.00	2,006.20	1,596.78	1,582.83	114.473	CC, ES
Sea Snake 35 State 18H - Wellbore #1 - Permit Plan 1	15,571.61	15,490.34	2,258.02	2,092.70	13.659	SF
Sea Snake 35 State 1H - Original Hole - Actuals	9,455.45	9,497.05	673.69	616.95	11.874	CC
Sea Snake 35 State 1H - Original Hole - Actuals	9,800.00	9,818.77	674.83	616.14	11.500	ES
Sea Snake 35 State 1H - Original Hole - Actuals	15,262.98	15,983.69	762.20	651.13	6.862	SF
Sea Snake 35 State 1H - Pilot Hole - Actuals	9,455.53	9,496.99	672.35	615.64	11.856	CC
Sea Snake 35 State 1H - Pilot Hole - Actuals	9,800.00	9,818.69	673.48	614.82	11.480	ES
Sea Snake 35 State 1H - Pilot Hole - Actuals	10,350.00	10,342.46	684.56	622.80	11.083	SF
Sea Snake 35 State 2H - Original Hole - Actual	2,022.46	2,030.40	791.93	779.80	65.276	CC
Sea Snake 35 State 2H - Original Hole - Actual	3,600.00	3,608.43	798.01	776.47	37.040	ES
Sea Snake 35 State 2H - Original Hole - Actual	15,400.00	16,134.00	1,705.57	1,536.78	10.105	SF
Sea Snake 35 State 3H - Original Hole - Original Hole	3,486.63	3,476.25	2,600.26	2,575.82	106.382	CC
Sea Snake 35 State 3H - Original Hole - Original Hole	3,600.00	3,589.12	2,600.81	2,575.57	103.053	ES
Sea Snake 35 State 3H - Original Hole - Original Hole	15,500.00	15,725.00	2,763.60	2,585.58	15.524	SF
Sea Snake 35 State 4H - Original Hole - Original Hole	15,248.33	15,629.00	3,859.91	3,684.91	22.057	CC
Sea Snake 35 State 4H - Original Hole - Original Hole	15,300.00	15,629.00	3,860.25	3,684.72	21.992	ES
Sea Snake 35 State 4H - Original Hole - Original Hole	15,575.11	15,629.00	3,873.71	3,695.78	21.770	SF
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	2,700.00	2,707.10	1,566.79	1,547.83	82.631	CC, ES
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	15,575.11	14,801.25	2,852.57	2,692.18	17.785	SF
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	2,709.72	2,693.42	3,296.81	3,277.86	174.001	CC
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	2,800.00	2,775.05	3,296.85	3,277.29	168.566	ES
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	15,575.11	14,735.81	3,738.63	3,577.39	23.186	SF
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,309.87	2,293.37	3,326.81	3,310.72	206.835	CC
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,400.00	2,371.39	3,326.87	3,310.18	199.410	ES
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	15,575.11	14,819.30	4,643.04	4,479.96	28.470	SF
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	3,500.00	3,483.80	3,266.81	3,242.20	132.758	CC
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	15,575.11	15,580.40	3,383.97	3,218.52	20.453	ES, SF
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,000.00	1,983.40	3,356.80	3,342.94	242.065	CC
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,100.00	2,053.11	3,357.18	3,342.71	232.043	ES
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	15,575.11	15,665.18	4,563.95	4,398.44	27.576	SF

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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 35-23S-33E						
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	3,500.00	3,488.00	446.49	381.12	6.830	CC
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	3,600.00	3,588.00	447.31	380.12	6.658	ES
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	6,000.00	5,985.98	540.59	429.71	4.876	Alert, SF
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,612.47	10,573.23	4,249.94	4,021.66	18.617	CC
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,700.00	10,573.23	4,250.84	4,021.59	18.542	ES
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	14,400.00	10,573.23	4,322.29	4,085.65	18.265	SF

Offset Design Sec 35-23S-33E - Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.50 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis 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	8.50	8.50	0.50	0.50	91.45	-38.17	1,506.33	1,506.82				
100.00	100.00	108.50	108.50	0.52	0.53	91.45	-38.17	1,506.33	1,506.82	1,505.77	1.04	1,442.973	
200.00	200.00	208.50	208.50	0.70	0.72	91.45	-38.17	1,506.33	1,506.82	1,505.39	1.43	1,056.731	
300.00	300.00	308.50	308.50	0.99	1.01	91.45	-38.17	1,506.33	1,506.82	1,504.82	2.00	753.008	
400.00	400.00	408.50	408.50	1.31	1.34	91.45	-38.17	1,506.33	1,506.82	1,504.17	2.65	569.386	
500.00	500.00	508.50	508.50	1.65	1.68	91.45	-38.17	1,506.33	1,506.82	1,503.50	3.32	453.692	
600.00	600.00	608.50	608.50	1.99	2.02	91.45	-38.17	1,506.33	1,506.82	1,502.81	4.01	375.698	
700.00	700.00	708.50	708.50	2.34	2.37	91.45	-38.17	1,506.33	1,506.82	1,502.11	4.71	320.027	
800.00	800.00	808.50	808.50	2.69	2.72	91.45	-38.17	1,506.33	1,506.82	1,501.41	5.41	278.466	
900.00	900.00	908.50	908.50	3.04	3.07	91.45	-38.17	1,506.33	1,506.82	1,500.70	6.12	246.326	
1,000.00	1,000.00	1,008.50	1,008.50	3.40	3.43	91.45	-38.17	1,506.33	1,506.82	1,499.99	6.83	220.764	
1,100.00	1,100.00	1,108.50	1,108.50	3.75	3.78	91.45	-38.17	1,506.33	1,506.82	1,499.28	7.54	199.965	
1,200.00	1,200.00	1,208.50	1,208.50	4.11	4.14	91.45	-38.17	1,506.33	1,506.82	1,498.57	8.25	182.721	
1,300.00	1,300.00	1,308.50	1,308.50	4.46	4.49	91.45	-38.17	1,506.33	1,506.82	1,497.86	8.96	168.197	
1,400.00	1,400.00	1,408.50	1,408.50	4.82	4.85	91.45	-38.17	1,506.33	1,506.82	1,497.15	9.67	155.801	
1,500.00	1,500.00	1,508.50	1,508.50	5.18	5.21	91.45	-38.17	1,506.33	1,506.82	1,496.43	10.38	145.098	
1,600.00	1,600.00	1,608.50	1,608.50	5.53	5.56	91.45	-38.17	1,506.33	1,506.82	1,495.72	11.10	135.766	
1,700.00	1,700.00	1,708.50	1,708.50	5.89	5.92	91.45	-38.17	1,506.33	1,506.82	1,495.00	11.81	127.558	
1,800.00	1,800.00	1,808.50	1,808.50	6.25	6.28	91.45	-38.17	1,506.33	1,506.82	1,494.29	12.53	120.282	
1,900.00	1,900.00	1,908.50	1,908.50	6.61	6.64	91.45	-38.17	1,506.33	1,506.82	1,493.57	13.24	113.790	
2,000.00	2,000.00	2,011.44	2,011.44	6.96	7.00	91.45	-38.17	1,506.32	1,506.81	1,492.84	13.97	107.888	
2,100.00	2,100.00	2,146.00	2,145.99	7.32	7.47	91.47	-38.52	1,504.51	1,505.47	1,490.68	14.78	101.839	
2,200.00	2,200.00	2,280.40	2,280.29	7.68	7.92	91.51	-39.45	1,499.59	1,501.83	1,486.24	15.59	96.364	
2,300.00	2,300.00	2,414.50	2,414.14	8.04	8.38	91.57	-40.97	1,491.61	1,495.91	1,479.53	16.38	91.316	
2,400.00	2,400.00	2,548.14	2,547.30	8.39	8.85	91.67	-43.07	1,480.60	1,487.71	1,470.54	17.17	86.638	
2,500.00	2,500.00	2,681.18	2,679.58	8.75	9.32	91.79	-45.73	1,466.60	1,477.25	1,459.30	17.95	82.283	
2,600.00	2,600.00	2,793.44	2,790.95	9.11	9.72	91.91	-48.36	1,452.76	1,464.97	1,446.29	18.68	78.412	
2,700.00	2,700.00	2,907.38	2,889.32	9.47	10.13	92.02	-50.73	1,440.33	1,452.52	1,433.08	19.44	74.732	
2,800.00	2,800.00	3,008.20	2,987.69	9.83	10.50	92.13	-53.10	1,427.89	1,440.07	1,419.93	20.15	71.483	
2,900.00	2,900.00	3,109.01	3,086.06	10.18	10.87	92.24	-55.46	1,415.46	1,427.63	1,406.78	20.86	68.451	
3,000.00	3,000.00	3,209.83	3,184.43	10.54	11.24	92.36	-57.83	1,403.03	1,415.20	1,393.63	21.57	65.614	
3,100.00	3,100.00	3,289.35	3,282.81	10.90	11.54	92.48	-60.19	1,390.59	1,402.77	1,380.56	22.21	63.169	
3,200.00	3,200.00	3,388.53	3,381.18	11.26	11.91	92.60	-62.56	1,378.16	1,390.35	1,367.43	22.92	60.674	
3,300.00	3,300.00	3,487.72	3,479.55	11.62	12.28	92.72	-64.93	1,365.73	1,377.93	1,354.30	23.62	58.325	
3,400.00	3,400.00	3,586.90	3,577.92	11.97	12.65	92.85	-67.29	1,353.30	1,365.52	1,341.18	24.34	56.112	
3,500.00	3,500.00	3,686.08	3,676.29	12.33	13.03	92.97	-69.66	1,340.86	1,353.11	1,328.07	25.05	54.022	
3,600.00	3,600.00	3,785.34	3,774.74	12.67	13.40	-124.50	-72.03	1,328.42	1,341.21	1,315.46	25.74	52.099	

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
3,700.00	3,699.96	3,884.74	3,873.33	13.00	13.78	-124.55	-74.40	1,315.96	1,330.28	1,303.86	26.43	50.341		
3,737.73	3,737.66	3,922.27	3,910.55	13.13	13.92	-124.58	-75.29	1,311.26	1,326.42	1,299.73	26.68	49.709		
3,800.00	3,799.88	3,984.22	3,972.00	13.33	14.16	-124.59	-76.77	1,303.49	1,320.15	1,293.04	27.11	48.696		
3,900.00	3,899.79	4,083.72	4,070.68	13.66	14.54	-124.61	-79.14	1,291.02	1,310.09	1,282.30	27.80	47.130		
4,000.00	3,999.71	4,183.21	4,169.36	13.99	14.92	-124.63	-81.52	1,278.55	1,300.03	1,271.55	28.49	45.636		
4,100.00	4,099.62	4,282.70	4,268.03	14.32	15.31	-124.64	-83.89	1,266.07	1,289.98	1,260.80	29.18	44.209		
4,200.00	4,199.53	4,382.19	4,366.71	14.66	15.69	-124.66	-86.26	1,253.60	1,279.92	1,250.04	29.87	42.846		
4,300.00	4,299.45	4,481.68	4,465.39	15.00	16.08	-124.68	-88.64	1,241.13	1,269.86	1,239.29	30.57	41.542		
4,400.00	4,399.36	4,581.18	4,564.07	15.33	16.46	-124.70	-91.01	1,228.66	1,259.80	1,228.53	31.27	40.294		
4,500.00	4,499.28	4,680.67	4,662.75	15.67	16.85	-124.72	-93.38	1,216.19	1,249.74	1,217.78	31.96	39.099		
4,600.00	4,599.19	4,780.16	4,761.43	16.01	17.23	-124.73	-95.76	1,203.71	1,239.68	1,207.02	32.66	37.953		
4,700.00	4,699.10	4,879.65	4,860.11	16.35	17.62	-124.75	-98.13	1,191.24	1,229.62	1,196.26	33.37	36.853		
4,800.00	4,799.02	4,979.14	4,958.78	16.69	18.01	-124.77	-100.50	1,178.77	1,219.56	1,185.50	34.07	35.798		
4,900.00	4,898.93	5,078.64	5,057.46	17.04	18.40	-124.79	-102.88	1,166.30	1,209.51	1,174.73	34.77	34.784		
5,000.00	4,998.85	5,178.13	5,156.14	17.38	18.78	-124.81	-105.25	1,153.83	1,199.45	1,163.97	35.48	33.809		
5,100.00	5,098.76	5,277.62	5,254.82	17.72	19.17	-124.83	-107.62	1,141.36	1,189.39	1,153.21	36.18	32.871		
5,200.00	5,198.67	5,377.11	5,353.50	18.07	19.56	-124.85	-110.00	1,128.88	1,179.33	1,142.44	36.89	31.969		
5,300.00	5,298.59	5,476.60	5,452.18	18.41	19.95	-124.87	-112.37	1,116.41	1,169.27	1,131.68	37.60	31.099		
5,400.00	5,398.50	5,576.10	5,550.86	18.76	20.34	-124.90	-114.74	1,103.94	1,159.22	1,120.91	38.31	30.261		
5,500.00	5,498.42	5,675.59	5,649.54	19.11	20.73	-124.92	-117.12	1,091.47	1,149.16	1,110.14	39.02	29.453		
5,600.00	5,598.33	5,775.08	5,748.21	19.45	21.12	-124.94	-119.49	1,079.00	1,139.10	1,099.37	39.73	28.673		
5,700.00	5,698.24	5,874.57	5,846.89	19.80	21.52	-124.96	-121.86	1,066.53	1,129.04	1,088.61	40.44	27.919		
5,800.00	5,798.16	5,974.06	5,945.57	20.15	21.91	-124.98	-124.24	1,054.05	1,118.99	1,077.84	41.15	27.192		
5,900.00	5,898.07	6,073.56	6,044.25	20.50	22.30	-125.01	-126.61	1,041.58	1,108.93	1,067.07	41.86	26.489		
6,000.00	5,997.98	6,173.05	6,142.93	20.85	22.69	-125.03	-128.98	1,029.11	1,098.87	1,056.30	42.58	25.809		
6,100.00	6,097.90	6,272.54	6,241.61	21.20	23.08	-125.06	-131.36	1,016.64	1,088.82	1,045.53	43.29	25.151		
6,200.00	6,197.81	6,372.03	6,340.29	21.55	23.48	-125.08	-133.73	1,004.17	1,078.76	1,034.76	44.01	24.514		
6,300.00	6,297.73	6,471.52	6,438.96	21.90	23.87	-125.10	-136.10	991.70	1,068.71	1,023.98	44.72	23.897		
6,400.00	6,397.64	6,571.02	6,537.64	22.25	24.26	-125.13	-138.48	979.22	1,058.65	1,013.21	45.44	23.299		
6,500.00	6,497.55	6,670.51	6,636.32	22.61	24.65	-125.16	-140.85	966.75	1,048.59	1,002.44	46.15	22.720		
6,600.00	6,597.47	6,770.00	6,735.00	22.96	25.05	-125.18	-143.22	954.28	1,038.54	991.67	46.87	22.158		
6,700.00	6,697.38	6,869.49	6,833.68	23.31	25.44	-125.21	-145.60	941.81	1,028.48	980.90	47.59	21.613		
6,800.00	6,797.30	6,968.98	6,932.36	23.66	25.84	-125.24	-147.97	929.34	1,018.43	970.12	48.30	21.083		
6,900.00	6,897.21	7,068.48	7,031.04	24.02	26.23	-125.27	-150.34	916.86	1,008.38	959.35	49.02	20.569		
7,000.00	6,997.12	7,167.97	7,129.72	24.37	26.62	-125.29	-152.72	904.39	998.32	948.58	49.74	20.070		
7,100.00	7,097.04	7,267.46	7,228.39	24.73	27.02	-125.32	-155.09	891.92	988.27	937.81	50.46	19.585		
7,200.00	7,196.95	7,366.95	7,327.07	25.08	27.41	-125.35	-157.46	879.45	978.21	927.03	51.18	19.114		
7,300.00	7,296.87	7,466.44	7,425.75	25.43	27.81	-125.38	-159.84	866.98	968.16	916.26	51.90	18.655		
7,400.00	7,396.78	7,565.94	7,524.43	25.79	28.20	-125.42	-162.21	854.51	958.11	905.49	52.62	18.209		
7,500.00	7,496.69	7,665.43	7,623.11	26.14	28.60	-125.45	-164.58	842.03	948.05	894.71	53.34	17.774		
7,600.00	7,596.61	7,764.92	7,721.79	26.50	28.99	-125.48	-166.96	829.56	938.00	883.94	54.06	17.351		
7,700.00	7,696.52	7,864.41	7,820.47	26.86	29.39	-125.51	-169.33	817.09	927.95	873.17	54.78	16.940		
7,800.00	7,796.44	7,963.90	7,919.15	27.21	29.78	-125.55	-171.70	804.62	917.90	862.40	55.50	16.539		
7,900.00	7,896.35	8,063.40	8,017.82	27.57	30.18	-125.58	-174.08	792.15	907.84	851.62	56.22	16.148		
8,000.00	7,996.26	8,162.89	8,116.50	27.92	30.57	-125.62	-176.45	779.68	897.79	840.85	56.94	15.766		
8,100.00	8,096.18	8,262.38	8,215.18	28.28	30.97	-125.65	-178.82	767.20	887.74	830.08	57.66	15.395		
8,200.00	8,196.09	8,361.87	8,313.86	28.64	31.36	-125.69	-181.20	754.73	877.69	819.30	58.39	15.032		
8,300.00	8,296.01	8,461.35	8,395.76	28.99	31.69	-125.73	-183.02	745.14	868.56	809.46	59.10	14.696		
8,400.00	8,395.92	8,560.84	8,477.06	29.35	32.00	-125.80	-184.50	737.36	861.50	801.71	59.79	14.408		
8,500.00	8,495.83	8,660.32	8,558.71	29.71	32.31	-125.90	-185.66	731.27	856.53	796.07	60.46	14.166		
8,600.00	8,595.75	8,689.93	8,640.59	30.06	32.60	-126.02	-186.49	726.90	853.66	792.55	61.11	13.969		
8,686.39	8,682.06	8,760.81	8,711.42	30.37	32.85	-126.14	-186.95	724.51	852.87	791.22	61.65	13.833 CC		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
8,700.00	8,695.66	8,771.98	8,722.59	30.42	32.89	-126.16	-187.00	724.25	852.89	791.16	61.74	13.815 ES		
8,800.00	8,795.58	8,859.32	8,804.08	30.78	33.18	-126.33	-187.17	723.33	854.24	791.88	62.35	13.700		
8,900.00	8,895.49	8,953.38	8,903.99	31.14	33.49	-126.56	-187.17	723.33	856.70	793.68	63.02	13.594		
9,000.00	8,995.40	9,053.30	9,003.90	31.50	33.82	-126.78	-187.17	723.33	859.18	795.47	63.71	13.485		
9,100.00	8,995.32	9,153.21	9,103.82	31.85	34.14	-127.00	-187.17	723.33	861.67	797.27	64.40	13.379		
9,200.00	8,995.23	9,253.82	9,204.37	32.21	34.47	-127.35	-185.21	723.32	864.15	799.06	65.09	13.275		
9,300.00	8,995.14	9,351.51	9,300.57	32.57	34.77	-128.64	-168.90	723.20	866.75	801.02	65.74	13.185		
9,400.00	8,995.06	9,440.37	9,384.53	32.93	35.02	-130.72	-140.07	722.99	870.53	804.25	66.28	13.134		
9,500.00	8,994.97	9,517.95	9,453.44	33.29	35.22	-133.18	-104.55	722.74	877.11	810.43	66.68	13.153		
9,523.61	8,918.56	9,534.56	9,467.52	33.37	35.25	-133.78	-95.76	722.67	879.25	812.50	66.75	13.172		
9,600.00	8,994.91	9,584.28	9,508.09	33.64	35.36	-135.79	-67.04	722.47	887.58	820.70	66.88	13.272		
9,682.09	8,977.00	9,631.55	9,544.21	33.93	35.45	79.59	-36.57	722.25	899.03	832.20	66.84	13.451		
9,700.00	8,994.91	9,641.07	9,551.17	33.99	35.46	79.18	-30.08	722.20	901.95	835.15	66.80	13.502		
9,800.00	8,994.91	9,689.14	9,584.64	34.33	35.54	77.01	4.42	721.95	922.21	855.81	66.40	13.888		
9,900.00	8,994.91	9,729.61	9,610.49	34.68	35.59	75.08	35.55	721.73	949.49	883.80	65.69	14.454		
10,000.00	8,994.91	9,763.84	9,630.59	35.02	35.63	73.39	63.24	721.53	983.88	919.18	64.70	15.206		
10,032.13	10,027.04	9,773.70	9,636.07	35.13	35.64	72.90	71.44	721.47	996.41	932.07	64.34	15.487		
10,050.00	10,044.90	9,779.09	9,639.01	35.19	35.65	72.29	75.96	721.44	1,003.61	939.48	64.13	15.651		
10,100.00	10,094.75	9,800.00	9,649.99	35.36	35.67	69.20	93.75	721.31	1,024.03	960.43	63.60	16.101		
10,150.00	10,144.08	9,810.93	9,655.47	35.53	35.68	66.65	103.20	721.24	1,044.55	981.66	62.89	16.610		
10,200.00	10,192.52	9,827.73	9,663.54	35.68	35.70	63.95	117.94	721.13	1,064.99	1,002.74	62.25	17.109		
10,250.00	10,239.69	9,850.00	9,673.57	35.84	35.72	61.21	137.82	720.99	1,085.10	1,023.43	61.67	17.594		
10,300.00	10,285.26	9,862.70	9,678.93	35.98	35.73	58.98	149.33	720.91	1,104.59	1,043.64	60.95	18.122		
10,350.00	10,328.85	9,880.75	9,686.12	36.12	35.75	56.75	165.89	720.79	1,123.34	1,063.01	60.32	18.622		
10,400.00	10,370.15	9,900.00	9,693.21	36.25	35.76	54.70	183.78	720.66	1,141.12	1,081.39	59.73	19.104		
10,450.00	10,408.84	9,917.74	9,699.21	36.37	35.78	52.89	200.48	720.54	1,157.79	1,098.65	59.14	19.576		
10,500.00	10,444.62	9,936.60	9,705.01	36.49	35.79	51.25	218.42	720.41	1,173.19	1,114.59	58.60	20.020		
10,550.00	10,477.22	9,950.00	9,708.78	36.61	35.81	49.90	231.28	720.32	1,187.25	1,129.21	58.04	20.456		
10,600.00	10,506.40	9,974.88	9,714.96	36.73	35.83	48.57	255.38	720.14	1,199.73	1,142.07	57.66	20.806		
10,650.00	10,531.93	10,000.00	9,720.14	36.85	35.85	47.45	279.95	719.96	1,210.70	1,153.36	57.34	21.116		
10,700.00	10,553.61	10,013.72	9,722.51	36.97	35.87	46.64	293.47	719.87	1,219.92	1,162.96	56.97	21.415		
10,750.00	10,571.29	10,033.30	9,725.34	37.10	35.89	45.95	312.84	719.73	1,227.44	1,170.72	56.72	21.639		
10,800.00	10,584.83	10,050.00	9,727.22	37.22	35.92	45.44	329.43	719.61	1,233.18	1,176.64	56.54	21.810		
10,850.00	10,594.12	10,072.63	9,729.00	37.34	35.95	45.08	351.99	719.44	1,237.07	1,180.60	56.48	21.904		
10,900.00	10,599.10	10,100.00	9,729.96	37.47	36.00	44.88	379.34	719.25	1,239.18	1,182.68	56.50	21.931		
10,932.14	10,600.00	10,109.96	9,730.00	37.55	36.02	44.86	382.25	719.23	1,239.45	1,182.91	56.54	21.923		
11,000.00	10,600.00	10,170.77	9,730.00	37.73	36.15	44.86	450.11	718.74	1,239.44	1,182.67	56.78	21.829		
11,100.00	10,600.00	10,270.77	9,730.00	38.04	36.44	44.86	550.11	718.02	1,239.44	1,182.22	57.22	21.659		
11,200.00	10,600.00	10,370.77	9,730.00	38.41	36.80	44.86	650.11	717.30	1,239.43	1,181.67	57.76	21.458		
11,300.00	10,600.00	10,470.77	9,730.00	38.83	37.23	44.86	750.10	716.57	1,239.43	1,181.04	58.38	21.229		
11,400.00	10,600.00	10,570.77	9,730.00	39.30	37.72	44.86	850.10	715.85	1,239.42	1,180.33	59.10	20.973		
11,500.00	10,600.00	10,670.77	9,730.00	39.81	38.26	44.86	950.10	715.13	1,239.42	1,179.53	59.89	20.695		
11,600.00	10,600.00	10,770.77	9,730.00	40.37	38.84	44.86	1,050.10	714.41	1,239.41	1,178.65	60.76	20.397		
11,700.00	10,600.00	10,870.77	9,730.00	40.98	39.47	44.86	1,150.09	713.69	1,239.41	1,177.69	61.72	20.083		
11,800.00	10,600.00	10,970.77	9,730.00	41.62	40.15	44.86	1,250.09	712.97	1,239.40	1,176.66	62.74	19.755		
11,900.00	10,600.00	11,070.77	9,730.00	42.31	40.86	44.86	1,350.09	712.25	1,239.40	1,175.57	63.83	19.416		
12,000.00	10,600.00	11,170.77	9,730.00	43.04	41.62	44.86	1,450.09	711.53	1,239.39	1,174.40	64.99	19.070		
12,100.00	10,600.00	11,270.77	9,730.00	43.80	42.41	44.86	1,550.08	710.81	1,239.39	1,173.17	66.21	18.718		
12,200.00	10,600.00	11,370.77	9,730.00	44.60	43.23	44.86	1,650.08	710.08	1,239.38	1,171.89	67.49	18.363		
12,300.00	10,600.00	11,470.77	9,730.00	45.43	44.09	44.86	1,750.08	709.36	1,239.38	1,170.55	68.83	18.006		
12,400.00	10,600.00	11,570.77	9,730.00	46.29	44.97	44.86	1,850.08	708.64	1,239.37	1,169.15	70.22	17.650		
12,500.00	10,600.00	11,670.77	9,730.00	47.17	45.89	44.86	1,950.07	707.92	1,239.37	1,167.71	71.66	17.296		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
12,600.00	10,600.00	11,770.77	9,730.00	48.09	46.83	44.86	2,050.07	707.20	1,239.36	1,166.22	73.14	16.945		
12,700.00	10,600.00	11,870.77	9,730.00	49.04	47.80	44.86	2,150.07	706.48	1,239.36	1,164.69	74.67	16.598		
12,800.00	10,600.00	11,970.77	9,730.00	50.00	48.79	44.86	2,250.07	705.76	1,239.35	1,163.11	76.24	16.256		
12,900.00	10,600.00	12,070.77	9,730.00	50.99	49.81	44.86	2,350.06	705.04	1,239.35	1,161.50	77.85	15.920		
13,000.00	10,600.00	12,170.77	9,730.00	52.01	50.84	44.86	2,450.06	704.32	1,239.34	1,159.85	79.49	15.591		
13,100.00	10,600.00	12,270.77	9,730.00	53.04	51.90	44.86	2,550.06	703.59	1,239.34	1,158.17	81.17	15.269		
13,200.00	10,600.00	12,370.77	9,730.00	54.09	52.98	44.86	2,650.06	702.87	1,239.33	1,156.45	82.88	14.954		
13,300.00	10,600.00	12,470.77	9,730.00	55.16	54.07	44.86	2,750.05	702.15	1,239.33	1,154.71	84.62	14.646		
13,400.00	10,600.00	12,570.77	9,730.00	56.25	55.18	44.86	2,850.05	701.43	1,239.32	1,152.93	86.39	14.346		
13,500.00	10,600.00	12,670.77	9,730.00	57.36	56.30	44.86	2,950.05	700.71	1,239.32	1,151.13	88.18	14.054		
13,600.00	10,600.00	12,770.77	9,730.00	58.48	57.44	44.86	3,050.04	699.99	1,239.31	1,149.31	90.00	13.770		
13,700.00	10,600.00	12,870.77	9,730.00	59.61	58.60	44.86	3,150.04	699.27	1,239.31	1,147.46	91.84	13.494		
13,800.00	10,600.00	12,970.77	9,730.00	60.76	59.76	44.86	3,250.04	698.55	1,239.30	1,145.59	93.71	13.225		
13,900.00	10,600.00	13,070.77	9,730.00	61.92	60.94	44.86	3,350.04	697.83	1,239.29	1,143.70	95.59	12.964		
14,000.00	10,600.00	13,170.77	9,730.00	63.10	62.13	44.86	3,450.03	697.10	1,239.29	1,141.79	97.50	12.711		
14,100.00	10,600.00	13,270.77	9,730.00	64.28	63.34	44.86	3,550.03	696.38	1,239.28	1,139.86	99.42	12.465		
14,200.00	10,600.00	13,370.77	9,730.00	65.48	64.55	44.86	3,650.03	695.66	1,239.28	1,137.92	101.36	12.226		
14,300.00	10,600.00	13,470.77	9,730.00	66.68	65.77	44.86	3,750.03	694.94	1,239.27	1,135.95	103.32	11.994		
14,400.00	10,600.00	13,570.77	9,730.00	67.90	67.00	44.86	3,850.02	694.22	1,239.27	1,133.97	105.29	11.770		
14,500.00	10,600.00	13,670.77	9,730.00	69.13	68.24	44.86	3,950.02	693.50	1,239.26	1,131.98	107.28	11.552		
14,600.00	10,600.00	13,770.77	9,730.00	70.36	69.49	44.86	4,050.02	692.78	1,239.26	1,129.98	109.28	11.340		
14,700.00	10,600.00	13,870.77	9,730.00	71.60	70.75	44.85	4,150.02	692.06	1,239.25	1,127.96	111.30	11.135		
14,800.00	10,600.00	13,970.77	9,730.00	72.85	72.01	44.85	4,250.01	691.34	1,239.25	1,125.92	113.32	10.935		
14,900.00	10,600.00	14,070.77	9,730.00	74.11	73.28	44.85	4,350.01	690.61	1,239.24	1,123.88	115.36	10.742		
15,000.00	10,600.00	14,170.77	9,730.00	75.38	74.56	44.85	4,450.01	689.89	1,239.24	1,121.83	117.41	10.555		
15,100.00	10,600.00	14,270.77	9,730.00	76.65	75.85	44.85	4,550.01	689.17	1,239.23	1,119.76	119.47	10.373		
15,200.00	10,600.00	14,370.77	9,730.00	77.93	77.14	44.85	4,650.00	688.45	1,239.23	1,117.69	121.54	10.196		
15,300.00	10,600.00	14,470.77	9,730.00	79.21	78.43	44.85	4,750.00	687.73	1,239.22	1,115.60	123.62	10.024		
15,400.00	10,600.00	14,570.77	9,730.00	80.50	79.74	44.85	4,850.00	687.01	1,239.22	1,113.51	125.71	9.858		
15,500.00	10,600.00	14,670.77	9,730.00	81.80	81.04	44.85	4,950.00	686.29	1,239.21	1,111.41	127.81	9.696		
15,575.11	10,600.00	14,745.88	9,730.00	82.77	82.03	44.85	5,025.10	685.75	1,239.21	1,109.82	129.39	9.578 SF		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	7.80	7.80	0.50	0.50	91.42	-37.98	1,536.33	1,536.80					
100.00	100.00	107.80	107.80	0.52	0.53	91.42	-37.98	1,536.33	1,536.80	1,535.76	1.04	1,472.789		
200.00	200.00	207.80	207.80	0.70	0.72	91.42	-37.98	1,536.33	1,536.80	1,535.38	1.42	1,079.131		
300.00	300.00	307.80	307.80	0.99	1.01	91.42	-37.98	1,536.33	1,536.80	1,534.80	2.00	768.832		
400.00	400.00	407.80	407.80	1.31	1.33	91.42	-37.98	1,536.33	1,536.80	1,534.16	2.64	581.227		
500.00	500.00	507.80	507.80	1.65	1.67	91.42	-37.98	1,536.33	1,536.80	1,533.48	3.32	463.054		
600.00	600.00	607.80	607.80	1.99	2.02	91.42	-37.98	1,536.33	1,536.80	1,532.79	4.01	383.407		
700.00	700.00	707.80	707.80	2.34	2.37	91.42	-37.98	1,536.33	1,536.80	1,532.10	4.71	326.566		
800.00	800.00	807.80	807.80	2.69	2.72	91.42	-37.98	1,536.33	1,536.80	1,531.39	5.41	284.137		
900.00	900.00	907.80	907.80	3.04	3.07	91.42	-37.98	1,536.33	1,536.80	1,530.69	6.11	251.330		
1,000.00	1,000.00	1,007.80	1,007.80	3.40	3.43	91.42	-37.98	1,536.33	1,536.80	1,529.98	6.82	225.239		
1,100.00	1,100.00	1,107.80	1,107.80	3.75	3.78	91.42	-37.98	1,536.33	1,536.80	1,529.27	7.53	204.012		
1,200.00	1,200.00	1,207.80	1,207.80	4.11	4.14	91.42	-37.98	1,536.33	1,536.80	1,528.56	8.24	186.413		
1,300.00	1,300.00	1,307.80	1,307.80	4.46	4.49	91.42	-37.98	1,536.33	1,536.80	1,527.85	8.96	171.592		
1,400.00	1,400.00	1,407.80	1,407.80	4.82	4.85	91.42	-37.98	1,536.33	1,536.80	1,527.13	9.67	158.942		
1,500.00	1,500.00	1,507.80	1,507.80	5.18	5.21	91.42	-37.98	1,536.33	1,536.80	1,526.42	10.38	148.022		
1,600.00	1,600.00	1,607.80	1,607.80	5.53	5.56	91.42	-37.98	1,536.33	1,536.80	1,525.71	11.10	138.499		
1,700.00	1,700.00	1,707.80	1,707.80	5.89	5.92	91.42	-37.98	1,536.33	1,536.80	1,524.99	11.81	130.124		
1,800.00	1,800.00	1,807.80	1,807.80	6.25	6.28	91.42	-37.98	1,536.33	1,536.80	1,524.28	12.52	122.700		
1,900.00	1,900.00	1,907.80	1,907.80	6.61	6.63	91.42	-37.98	1,536.33	1,536.80	1,523.56	13.24	116.076		
2,000.00	2,000.00	2,007.80	2,007.80	6.96	6.99	91.42	-37.98	1,536.33	1,536.80	1,522.85	13.95	110.129		
2,100.00	2,100.00	2,107.80	2,107.80	7.32	7.35	91.42	-37.98	1,536.33	1,536.80	1,522.13	14.67	104.760		
2,200.00	2,200.00	2,207.80	2,207.80	7.68	7.71	91.42	-37.98	1,536.33	1,536.80	1,521.42	15.39	99.889		
2,300.00	2,300.00	2,307.80	2,307.80	8.04	8.06	91.42	-37.98	1,536.33	1,536.80	1,520.70	16.10	95.450		
2,400.00	2,400.00	2,407.80	2,407.80	8.39	8.42	91.42	-37.98	1,536.33	1,536.80	1,519.99	16.82	91.388		
2,500.00	2,500.00	2,507.80	2,507.80	8.75	8.78	91.42	-37.98	1,536.33	1,536.80	1,519.27	17.53	87.657		
2,600.00	2,600.00	2,607.80	2,607.80	9.11	9.14	91.42	-37.98	1,536.33	1,536.80	1,518.55	18.25	84.218		
2,700.00	2,700.00	2,707.80	2,707.80	9.47	9.50	91.42	-37.98	1,536.33	1,536.80	1,517.84	18.96	81.039		
2,800.00	2,800.00	2,807.80	2,807.80	9.83	9.85	91.42	-37.98	1,536.33	1,536.80	1,517.12	19.68	78.091		
2,900.00	2,900.00	2,907.80	2,907.80	10.18	10.21	91.42	-37.98	1,536.33	1,536.80	1,516.41	20.40	75.349		
3,000.00	3,000.00	3,007.80	3,007.80	10.54	10.57	91.42	-37.98	1,536.33	1,536.80	1,515.69	21.11	72.793		
3,100.00	3,100.00	3,107.80	3,107.80	10.90	10.93	91.42	-37.98	1,536.33	1,536.80	1,514.97	21.83	70.405		
3,200.00	3,200.00	3,207.80	3,207.80	11.26	11.29	91.42	-37.98	1,536.33	1,536.80	1,514.26	22.54	68.168		
3,300.00	3,300.00	3,307.80	3,307.80	11.62	11.64	91.42	-37.98	1,536.33	1,536.80	1,513.54	23.26	66.069		
3,400.00	3,400.00	3,407.80	3,407.80	11.97	12.00	91.42	-37.98	1,536.33	1,536.80	1,512.83	23.98	64.095		
3,500.00	3,500.00	3,507.80	3,507.80	12.33	12.36	91.42	-37.98	1,536.33	1,536.80	1,512.11	24.69	62.236 CC, ES		
3,600.00	3,600.00	3,592.48	3,592.48	12.67	12.65	-126.05	-38.58	1,536.78	1,537.85	1,512.53	25.32	60.733		
3,700.00	3,699.96	3,678.22	3,678.22	13.00	12.93	-126.03	-40.20	1,537.99	1,540.85	1,514.93	25.93	59.434		
3,737.73	3,737.66	3,711.10	3,711.05	13.13	13.04	-126.02	-41.10	1,538.66	1,542.49	1,516.33	26.15	58.976		
3,800.00	3,799.88	3,773.30	3,773.21	13.33	13.24	-126.03	-42.90	1,540.00	1,545.40	1,518.83	26.56	58.180		
3,900.00	3,899.79	3,873.19	3,873.04	13.66	13.57	-126.05	-45.80	1,542.16	1,550.07	1,522.85	27.22	56.946		
4,000.00	3,999.71	3,973.08	3,972.86	13.99	13.90	-126.07	-48.70	1,544.32	1,554.74	1,526.86	27.88	55.764		
4,100.00	4,099.62	4,072.97	4,072.69	14.32	14.23	-126.09	-51.59	1,546.47	1,559.41	1,530.87	28.54	54.630		
4,200.00	4,199.53	4,172.86	4,172.51	14.66	14.57	-126.11	-54.49	1,548.63	1,564.08	1,534.87	29.21	53.544		
4,300.00	4,299.45	4,272.75	4,272.33	15.00	14.90	-126.13	-57.39	1,550.79	1,568.76	1,538.88	29.88	52.500		
4,400.00	4,399.36	4,372.64	4,372.16	15.33	15.24	-126.14	-60.28	1,552.95	1,573.43	1,542.88	30.55	51.499		
4,500.00	4,499.28	4,472.53	4,471.98	15.67	15.58	-126.16	-63.18	1,555.11	1,578.10	1,546.87	31.23	50.537		
4,600.00	4,599.19	4,572.42	4,571.81	16.01	15.92	-126.18	-66.08	1,557.26	1,582.77	1,550.87	31.90	49.612		
4,700.00	4,699.10	4,672.31	4,671.63	16.35	16.25	-126.20	-68.97	1,559.42	1,587.45	1,554.87	32.58	48.722		
4,800.00	4,799.02	4,772.20	4,771.46	16.69	16.60	-126.22	-71.87	1,561.58	1,592.12	1,558.86	33.26	47.866		
4,900.00	4,898.93	4,872.09	4,871.28	17.04	16.94	-126.23	-74.77	1,563.74	1,596.79	1,562.85	33.94	47.042		
5,000.00	4,998.85	4,971.98	4,971.10	17.38	17.28	-126.25	-77.66	1,565.90	1,601.47	1,566.84	34.63	46.248		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	5,071.87	5,070.93	17.72	17.62	-126.27	-80.56	1,568.06	1,606.14	1,570.83	35.31	45.482		
5,200.00	5,198.67	5,171.76	5,170.75	18.07	17.97	-126.29	-83.46	1,570.21	1,610.81	1,574.81	36.00	44.744		
5,300.00	5,298.59	5,271.65	5,270.58	18.41	18.31	-126.30	-86.36	1,572.37	1,615.49	1,578.80	36.69	44.032		
5,400.00	5,398.50	5,371.53	5,370.40	18.76	18.66	-126.32	-89.25	1,574.53	1,620.16	1,582.78	37.38	43.345		
5,500.00	5,498.42	5,471.42	5,470.22	19.11	19.00	-126.34	-92.15	1,576.69	1,624.84	1,586.77	38.07	42.681		
5,600.00	5,598.33	5,571.31	5,570.05	19.45	19.35	-126.36	-95.05	1,578.85	1,629.51	1,590.75	38.76	42.039		
5,700.00	5,698.24	5,671.20	5,669.87	19.80	19.69	-126.37	-97.94	1,581.00	1,634.18	1,594.73	39.46	41.419		
5,800.00	5,798.16	5,771.09	5,769.70	20.15	20.04	-126.39	-100.84	1,583.16	1,638.86	1,598.71	40.15	40.819		
5,900.00	5,898.07	5,870.98	5,869.52	20.50	20.39	-126.41	-103.74	1,585.32	1,643.53	1,602.69	40.85	40.238		
6,000.00	5,997.98	5,970.87	5,969.35	20.85	20.74	-126.42	-106.63	1,587.48	1,648.21	1,606.67	41.54	39.676		
6,100.00	6,097.90	6,070.76	6,069.17	21.20	21.09	-126.44	-109.53	1,589.64	1,652.88	1,610.65	42.24	39.132		
6,200.00	6,197.81	6,170.65	6,168.99	21.55	21.44	-126.45	-112.43	1,591.79	1,657.56	1,614.62	42.94	38.604		
6,300.00	6,297.73	6,270.54	6,268.82	21.90	21.79	-126.47	-115.33	1,593.95	1,662.23	1,618.60	43.64	38.093		
6,400.00	6,397.64	6,370.43	6,368.64	22.25	22.14	-126.49	-118.22	1,596.11	1,666.91	1,622.57	44.34	37.597		
6,500.00	6,497.55	6,470.32	6,468.47	22.61	22.49	-126.50	-121.12	1,598.27	1,671.59	1,626.55	45.04	37.116		
6,600.00	6,597.47	6,570.21	6,568.29	22.96	22.84	-126.52	-124.02	1,600.43	1,676.26	1,630.52	45.74	36.649		
6,700.00	6,697.38	6,670.10	6,668.12	23.31	23.19	-126.54	-126.91	1,602.59	1,680.94	1,634.50	46.44	36.196		
6,800.00	6,797.30	6,769.99	6,767.94	23.66	23.54	-126.55	-129.81	1,604.74	1,685.61	1,638.47	47.14	35.755		
6,900.00	6,897.21	6,869.88	6,867.76	24.02	23.89	-126.57	-132.71	1,606.90	1,690.29	1,642.44	47.85	35.327		
7,000.00	6,997.12	6,969.77	6,967.59	24.37	24.25	-126.58	-135.60	1,609.06	1,694.96	1,646.41	48.55	34.911		
7,100.00	7,097.04	7,069.66	7,067.41	24.73	24.60	-126.60	-138.50	1,611.22	1,699.64	1,650.39	49.26	34.507		
7,200.00	7,196.95	7,169.55	7,167.24	25.08	24.95	-126.61	-141.40	1,613.38	1,704.32	1,654.36	49.96	34.113		
7,300.00	7,296.87	7,269.44	7,267.06	25.43	25.30	-126.63	-144.30	1,615.53	1,708.99	1,658.33	50.67	33.731		
7,400.00	7,396.78	7,369.33	7,366.88	25.79	25.66	-126.64	-147.19	1,617.69	1,713.67	1,662.30	51.37	33.358		
7,500.00	7,496.69	7,469.21	7,466.71	26.14	26.01	-126.66	-150.09	1,619.85	1,718.35	1,666.27	52.08	32.995		
7,600.00	7,596.61	7,569.10	7,566.53	26.50	26.36	-126.68	-152.99	1,622.01	1,723.02	1,670.24	52.79	32.642		
7,700.00	7,696.52	7,668.99	7,666.36	26.86	26.72	-126.69	-155.88	1,624.17	1,727.70	1,674.21	53.49	32.297		
7,800.00	7,796.44	7,768.88	7,766.18	27.21	27.07	-126.71	-158.78	1,626.32	1,732.38	1,678.18	54.20	31.962		
7,900.00	7,896.35	7,868.77	7,866.01	27.57	27.43	-126.72	-161.68	1,628.48	1,737.06	1,682.15	54.91	31.635		
8,000.00	7,996.26	7,968.66	7,965.83	27.92	27.78	-126.74	-164.57	1,630.64	1,741.73	1,686.11	55.62	31.315		
8,100.00	8,096.18	8,068.55	8,065.65	28.28	28.14	-126.75	-167.47	1,632.80	1,746.41	1,690.08	56.33	31.004		
8,200.00	8,196.09	8,168.44	8,165.48	28.64	28.49	-126.76	-170.37	1,634.96	1,751.09	1,694.05	57.04	30.700		
8,300.00	8,296.01	8,268.33	8,265.30	28.99	28.85	-126.78	-173.26	1,637.12	1,755.77	1,698.02	57.75	30.404		
8,400.00	8,395.92	8,368.22	8,365.13	29.35	29.20	-126.79	-176.16	1,639.27	1,760.44	1,701.99	58.46	30.115		
8,500.00	8,495.83	8,468.11	8,464.95	29.71	29.56	-126.81	-179.06	1,641.43	1,765.12	1,705.95	59.17	29.832		
8,600.00	8,595.75	8,568.00	8,564.77	30.06	29.91	-126.82	-181.96	1,643.59	1,769.80	1,709.92	59.88	29.556		
8,700.00	8,695.66	8,667.89	8,664.60	30.42	30.27	-126.84	-184.85	1,645.75	1,774.48	1,713.89	60.59	29.286		
8,800.00	8,795.58	8,805.28	8,801.95	30.78	30.76	-126.92	-186.98	1,647.33	1,778.15	1,716.70	61.45	28.939		
8,900.00	8,895.49	8,906.61	8,903.29	31.14	31.11	-127.02	-186.98	1,647.33	1,780.65	1,718.49	62.15	28.650		
9,000.00	8,995.40	9,006.53	9,003.20	31.50	31.45	-127.13	-186.98	1,647.33	1,783.15	1,720.29	62.85	28.370		
9,100.00	9,095.32	9,106.44	9,103.12	31.85	31.80	-127.24	-186.98	1,647.33	1,785.66	1,722.10	63.55	28.096		
9,200.00	9,195.23	9,207.58	9,204.20	32.21	32.14	-127.41	-185.04	1,647.32	1,788.15	1,723.89	64.26	27.827		
9,300.00	9,295.14	9,306.37	9,301.47	32.57	32.47	-128.04	-168.48	1,647.20	1,790.65	1,725.71	64.94	27.572		
9,400.00	9,395.06	9,396.10	9,386.18	32.93	32.75	-129.06	-139.17	1,646.99	1,793.68	1,728.10	65.58	27.351		
9,500.00	9,494.97	9,474.25	9,455.46	33.29	32.98	-130.28	-103.13	1,646.73	1,798.03	1,731.88	66.15	27.181		
9,523.61	9,518.56	9,490.95	9,469.59	33.37	33.02	-130.58	-94.23	1,646.66	1,799.35	1,733.08	66.28	27.149		
9,600.00	9,594.91	9,540.91	9,510.22	33.64	33.16	-131.59	-65.19	1,646.46	1,804.07	1,737.42	66.65	27.069		
9,682.09	9,677.00	9,588.32	9,546.30	33.93	33.29	84.83	-34.45	1,646.23	1,809.88	1,742.89	66.98	27.020		
9,700.00	9,694.91	9,600.00	9,554.79	33.99	33.32	84.58	-26.43	1,646.18	1,811.30	1,744.25	67.06	27.012		
9,800.00	9,794.91	9,650.00	9,589.22	34.33	33.45	83.43	9.80	1,645.91	1,821.33	1,753.98	67.35	27.041		
9,900.00	9,894.91	9,686.41	9,612.23	34.68	33.55	82.55	38.01	1,645.71	1,835.15	1,767.64	67.51	27.183		
10,000.00	9,994.91	9,720.55	9,632.15	35.02	33.64	81.68	65.73	1,645.51	1,853.05	1,785.48	67.57	27.425		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	9,730.38	9,637.57	35.13	33.67	81.42	73.93	1,645.45	1,859.70	1,792.13	67.56	27.526		
10,050.00	10,044.90	9,735.76	9,640.48	35.19	33.68	81.30	78.45	1,645.42	1,863.54	1,795.99	67.55	27.586		
10,100.00	10,094.75	9,750.00	9,647.97	35.36	33.72	79.83	90.56	1,645.33	1,874.55	1,807.04	67.51	27.767		
10,150.00	10,144.08	9,767.51	9,656.77	35.53	33.76	78.28	105.70	1,645.22	1,885.82	1,818.36	67.46	27.954		
10,200.00	10,192.52	9,784.28	9,664.76	35.68	33.81	76.77	120.45	1,645.12	1,897.20	1,829.80	67.39	28.152		
10,250.00	10,239.69	9,800.00	9,671.85	35.84	33.85	75.31	134.47	1,645.02	1,908.54	1,841.24	67.30	28.360		
10,300.00	10,285.26	9,819.21	9,679.99	35.98	33.90	73.83	151.87	1,644.89	1,919.70	1,852.48	67.21	28.561		
10,350.00	10,328.85	9,837.24	9,687.10	36.12	33.95	72.45	168.45	1,644.77	1,930.55	1,863.44	67.11	28.765		
10,400.00	10,370.15	9,850.00	9,691.81	36.25	33.99	71.22	180.30	1,644.69	1,941.00	1,874.02	66.98	28.978		
10,450.00	10,408.84	9,874.21	9,700.02	36.37	34.05	69.91	203.07	1,644.52	1,950.86	1,883.94	66.92	29.154		
10,500.00	10,444.62	9,900.00	9,707.70	36.49	34.13	68.70	227.69	1,644.34	1,960.12	1,893.25	66.86	29.315		
10,550.00	10,477.22	9,900.00	9,707.70	36.61	34.13	67.90	227.69	1,644.34	1,968.65	1,901.96	66.69	29.520		
10,600.00	10,506.40	9,931.34	9,715.53	36.73	34.21	66.86	258.03	1,644.13	1,976.20	1,909.51	66.69	29.631		
10,650.00	10,531.93	9,950.00	9,719.40	36.85	34.27	66.08	276.28	1,643.99	1,982.93	1,916.27	66.66	29.749		
10,700.00	10,553.61	9,970.18	9,722.92	36.97	34.32	65.41	296.15	1,643.85	1,988.67	1,922.02	66.65	29.838		
10,750.00	10,571.29	10,000.00	9,726.82	37.10	34.41	64.81	325.71	1,643.64	1,993.44	1,926.73	66.71	29.883		
10,800.00	10,584.83	10,000.00	9,726.82	37.22	34.41	64.48	325.71	1,643.64	1,997.05	1,930.36	66.69	29.947		
10,850.00	10,594.12	10,029.10	9,729.15	37.34	34.49	64.17	354.72	1,643.43	1,999.50	1,932.69	66.81	29.928		
10,900.00	10,599.10	10,050.00	9,729.91	37.47	34.55	64.01	375.60	1,643.28	2,000.86	1,933.92	66.94	29.892		
10,932.14	10,600.00	10,063.31	9,730.00	37.55	34.59	63.98	388.90	1,643.18	2,001.12	1,934.08	67.04	29.851		
11,000.00	10,600.00	10,131.17	9,730.00	37.73	34.80	63.98	456.77	1,642.69	2,001.12	1,933.71	67.40	29.689		
11,100.00	10,600.00	10,231.17	9,730.00	38.04	35.16	63.98	556.77	1,641.97	2,001.11	1,933.09	68.02	29.419		
11,200.00	10,600.00	10,331.17	9,730.00	38.41	35.57	63.98	656.76	1,641.25	2,001.10	1,932.36	68.74	29.110		
11,300.00	10,600.00	10,431.17	9,730.00	38.83	36.03	63.98	756.76	1,640.53	2,001.10	1,931.54	69.56	28.768		
11,400.00	10,600.00	10,531.17	9,730.00	39.30	36.55	63.98	856.76	1,639.81	2,001.09	1,930.62	70.47	28.396		
11,500.00	10,600.00	10,631.17	9,730.00	39.81	37.12	63.98	956.75	1,639.09	2,001.09	1,929.61	71.47	27.997		
11,600.00	10,600.00	10,731.17	9,730.00	40.37	37.73	63.98	1,056.75	1,638.37	2,001.08	1,928.51	72.57	27.576		
11,700.00	10,600.00	10,831.17	9,730.00	40.98	38.39	63.98	1,156.75	1,637.65	2,001.07	1,927.33	73.74	27.137		
11,800.00	10,600.00	10,931.17	9,730.00	41.62	39.10	63.98	1,256.75	1,636.93	2,001.07	1,926.08	74.99	26.684		
11,900.00	10,600.00	11,031.17	9,730.00	42.31	39.84	63.98	1,356.74	1,636.21	2,001.06	1,924.74	76.32	26.219		
12,000.00	10,600.00	11,131.17	9,730.00	43.04	40.62	63.98	1,456.74	1,635.49	2,001.05	1,923.33	77.72	25.747		
12,100.00	10,600.00	11,231.17	9,730.00	43.80	41.44	63.98	1,556.74	1,634.77	2,001.05	1,921.86	79.19	25.270		
12,200.00	10,600.00	11,331.17	9,730.00	44.60	42.29	63.98	1,656.74	1,634.05	2,001.04	1,920.32	80.72	24.790		
12,300.00	10,600.00	11,431.17	9,730.00	45.43	43.18	63.98	1,756.73	1,633.32	2,001.04	1,918.72	82.31	24.311		
12,400.00	10,600.00	11,531.17	9,730.00	46.29	44.10	63.98	1,856.73	1,632.60	2,001.03	1,917.07	83.96	23.833		
12,500.00	10,600.00	11,631.17	9,730.00	47.17	45.04	63.98	1,956.73	1,631.88	2,001.02	1,915.36	85.66	23.359		
12,600.00	10,600.00	11,731.17	9,730.00	48.09	46.01	63.98	2,056.73	1,631.16	2,001.02	1,913.60	87.42	22.891		
12,700.00	10,600.00	11,831.17	9,730.00	49.04	47.01	63.98	2,156.72	1,630.44	2,001.01	1,911.79	89.22	22.428		
12,800.00	10,600.00	11,931.17	9,730.00	50.00	48.03	63.98	2,256.72	1,629.72	2,001.00	1,909.94	91.06	21.974		
12,900.00	10,600.00	12,031.17	9,730.00	50.99	49.07	63.98	2,356.72	1,629.00	2,001.00	1,908.05	92.95	21.527		
13,000.00	10,600.00	12,131.17	9,730.00	52.01	50.13	63.98	2,456.72	1,628.28	2,000.99	1,906.11	94.88	21.090		
13,100.00	10,600.00	12,231.17	9,730.00	53.04	51.21	63.98	2,556.71	1,627.56	2,000.99	1,904.14	96.84	20.662		
13,200.00	10,600.00	12,331.17	9,730.00	54.09	52.31	63.98	2,656.71	1,626.84	2,000.98	1,902.14	98.84	20.244		
13,300.00	10,600.00	12,431.17	9,730.00	55.16	53.43	63.98	2,756.71	1,626.12	2,000.97	1,900.10	100.88	19.836		
13,400.00	10,600.00	12,531.17	9,730.00	56.25	54.56	63.98	2,856.71	1,625.40	2,000.97	1,898.03	102.94	19.438		
13,500.00	10,600.00	12,631.17	9,730.00	57.36	55.71	63.98	2,956.70	1,624.68	2,000.96	1,895.93	105.04	19.050		
13,600.00	10,600.00	12,731.17	9,730.00	58.48	56.87	63.98	3,056.70	1,623.96	2,000.96	1,893.80	107.16	18.673		
13,700.00	10,600.00	12,831.17	9,730.00	59.61	58.05	63.98	3,156.70	1,623.23	2,000.95	1,891.65	109.30	18.307		
13,800.00	10,600.00	12,931.17	9,730.00	60.76	59.24	63.98	3,256.70	1,622.51	2,000.94	1,889.47	111.47	17.950		
13,900.00	10,600.00	13,031.17	9,730.00	61.92	60.44	63.98	3,356.69	1,621.79	2,000.94	1,887.27	113.67	17.603		
14,000.00	10,600.00	13,131.17	9,730.00	63.10	61.65	63.98	3,456.69	1,621.07	2,000.93	1,885.05	115.88	17.267		
14,100.00	10,600.00	13,231.17	9,730.00	64.28	62.87	63.98	3,556.69	1,620.35	2,000.92	1,882.81	118.12	16.940		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	13,331.17	9,730.00	65.48	64.10	63.98	3,656.68	1,619.63	2,000.92	1,880.54	120.37	16.623	
14,300.00	10,600.00	13,431.17	9,730.00	66.68	65.34	63.98	3,756.68	1,618.91	2,000.91	1,878.26	122.65	16.314	
14,400.00	10,600.00	13,531.17	9,730.00	67.90	66.59	63.98	3,856.68	1,618.19	2,000.91	1,875.97	124.94	16.015	
14,500.00	10,600.00	13,631.17	9,730.00	69.13	67.84	63.98	3,956.68	1,617.47	2,000.90	1,873.65	127.25	15.725	
14,600.00	10,600.00	13,731.17	9,730.00	70.36	69.11	63.98	4,056.67	1,616.75	2,000.89	1,871.32	129.57	15.443	
14,700.00	10,600.00	13,831.17	9,730.00	71.60	70.38	63.98	4,156.67	1,616.03	2,000.89	1,868.98	131.91	15.169	
14,800.00	10,600.00	13,931.17	9,730.00	72.85	71.66	63.98	4,256.67	1,615.31	2,000.88	1,866.62	134.26	14.903	
14,900.00	10,600.00	14,031.17	9,730.00	74.11	72.95	63.98	4,356.67	1,614.59	2,000.87	1,864.25	136.62	14.645	
15,000.00	10,600.00	14,131.17	9,730.00	75.38	74.24	63.98	4,456.66	1,613.87	2,000.87	1,861.87	139.00	14.395	
15,100.00	10,600.00	14,231.17	9,730.00	76.65	75.54	63.98	4,556.66	1,613.15	2,000.86	1,859.48	141.39	14.152	
15,200.00	10,600.00	14,331.17	9,730.00	77.93	76.84	63.98	4,656.66	1,612.42	2,000.86	1,857.07	143.79	13.915	
15,300.00	10,600.00	14,431.17	9,730.00	79.21	78.15	63.98	4,756.66	1,611.70	2,000.85	1,854.65	146.20	13.686	
15,400.00	10,600.00	14,531.17	9,730.00	80.50	79.47	63.98	4,856.65	1,610.98	2,000.84	1,852.23	148.62	13.463	
15,500.00	10,600.00	14,631.17	9,730.00	81.80	80.79	63.98	4,956.65	1,610.26	2,000.84	1,849.79	151.05	13.246	
15,575.11	10,600.00	14,706.28	9,730.00	82.77	81.78	63.98	5,031.76	1,609.72	2,000.83	1,847.95	152.88	13.088 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.10	0.10	0.50	0.50	89.64	0.19	30.00	30.00					
100.00	100.00	100.10	100.10	0.52	0.52	89.64	0.19	30.00	30.00	28.97	1.04	28.969		
200.00	200.00	200.10	200.10	0.70	0.70	89.64	0.19	30.00	30.00	28.60	1.40	21.361		
300.00	300.00	300.10	300.10	0.99	0.99	89.64	0.19	30.00	30.00	28.03	1.97	15.190		
400.00	400.00	400.10	400.10	1.31	1.31	89.64	0.19	30.00	30.00	27.38	2.62	11.457		
500.00	500.00	500.10	500.10	1.65	1.65	89.64	0.19	30.00	30.00	26.71	3.29	9.112		
600.00	600.00	600.10	600.10	1.99	1.99	89.64	0.19	30.00	30.00	26.02	3.98	7.535		
700.00	700.00	700.10	700.10	2.34	2.34	89.64	0.19	30.00	30.00	25.32	4.68	6.412		
800.00	800.00	800.10	800.10	2.69	2.69	89.64	0.19	30.00	30.00	24.62	5.38	5.575		
900.00	900.00	900.10	900.10	3.04	3.04	89.64	0.19	30.00	30.00	23.91	6.09	4.928 Alert		
1,000.00	1,000.00	1,000.10	1,000.10	3.40	3.40	89.64	0.19	30.00	30.00	23.20	6.80	4.415 Alert		
1,100.00	1,100.00	1,100.10	1,100.10	3.75	3.75	89.64	0.19	30.00	30.00	22.50	7.51	3.997 Alert		
1,200.00	1,200.00	1,200.10	1,200.10	4.11	4.11	89.64	0.19	30.00	30.00	21.78	8.22	3.651 Alert		
1,300.00	1,300.00	1,300.10	1,300.10	4.46	4.46	89.64	0.19	30.00	30.00	21.07	8.93	3.360 Alert		
1,400.00	1,400.00	1,400.10	1,400.10	4.82	4.82	89.64	0.19	30.00	30.00	20.36	9.64	3.112 Alert		
1,500.00	1,500.00	1,500.10	1,500.10	5.18	5.18	89.64	0.19	30.00	30.00	19.65	10.35	2.897 Alert		
1,600.00	1,600.00	1,600.10	1,600.10	5.53	5.53	89.64	0.19	30.00	30.00	18.93	11.07	2.710 Alert		
1,700.00	1,700.00	1,700.10	1,700.10	5.89	5.89	89.64	0.19	30.00	30.00	18.22	11.78	2.546 Alert		
1,800.00	1,800.00	1,800.10	1,800.10	6.25	6.25	89.64	0.19	30.00	30.00	17.50	12.50	2.401 Minor Risk		
1,900.00	1,900.00	1,900.10	1,900.10	6.61	6.61	89.64	0.19	30.00	30.00	16.79	13.21	2.271 Minor Risk		
2,000.00	2,000.00	2,000.10	2,000.10	6.96	6.96	89.64	0.19	30.00	30.00	16.07	13.93	2.154 Minor Risk		
2,100.00	2,100.00	2,100.10	2,100.10	7.32	7.32	89.64	0.19	30.00	30.00	15.36	14.64	2.049 Minor Risk		
2,200.00	2,200.00	2,200.10	2,200.10	7.68	7.68	89.64	0.19	30.00	30.00	14.64	15.36	1.953 Minor Risk, CC, ES		
2,300.00	2,300.00	2,299.58	2,299.58	8.04	8.02	89.97	0.01	30.85	30.85	14.79	16.06	1.921 Minor Risk, SF		
2,400.00	2,400.00	2,399.00	2,398.96	8.39	8.36	90.88	-0.51	33.38	33.41	16.66	16.75	1.995 Minor Risk		
2,500.00	2,500.00	2,498.30	2,498.17	8.75	8.70	92.11	-1.39	37.60	37.68	20.25	17.43	2.162 Minor Risk		
2,600.00	2,600.00	2,597.42	2,597.10	9.11	9.04	93.43	-2.61	43.49	43.67	25.56	18.11	2.412 Minor Risk		
2,700.00	2,700.00	2,696.31	2,696.69	9.47	9.38	94.68	-4.18	51.03	51.39	32.61	18.78	2.736 Alert		
2,800.00	2,800.00	2,794.90	2,793.83	9.83	9.72	95.77	-6.08	60.21	60.84	41.39	19.45	3.128 Alert		
2,900.00	2,900.00	2,893.13	2,891.44	10.18	10.07	96.68	-8.32	71.00	72.01	51.89	20.12	3.580 Alert		
3,000.00	3,000.00	2,990.96	2,988.45	10.54	10.42	97.44	-10.89	83.37	84.88	64.11	20.77	4.086 Alert		
3,100.00	3,100.00	3,089.66	3,086.17	10.90	10.78	98.05	-13.71	96.97	98.92	77.46	21.46	4.609 Alert		
3,200.00	3,200.00	3,188.66	3,184.18	11.26	11.14	98.51	-16.55	110.65	113.01	90.85	22.16	5.099		
3,300.00	3,300.00	3,287.66	3,282.19	11.62	11.50	98.86	-19.39	124.33	127.10	104.24	22.86	5.559		
3,400.00	3,400.00	3,386.66	3,380.20	11.97	11.87	99.15	-22.23	138.01	141.20	117.63	23.57	5.991		
3,500.00	3,500.00	3,485.66	3,478.20	12.33	12.24	99.38	-25.07	151.69	155.30	131.02	24.27	6.398		
3,600.00	3,600.00	3,584.60	3,576.15	12.67	12.61	-118.02	-27.91	165.36	169.80	144.84	24.96	6.803		
3,700.00	3,699.96	3,683.40	3,673.97	13.00	12.98	-118.43	-30.74	179.01	185.13	159.49	25.63	7.222		
3,737.73	3,737.66	3,720.64	3,710.83	13.13	13.12	-118.67	-31.81	184.15	191.13	165.24	25.89	7.382		
3,800.00	3,799.88	3,782.08	3,771.66	13.33	13.35	-119.18	-33.57	192.64	201.14	174.83	26.31	7.645		
3,900.00	3,899.79	3,880.74	3,869.33	13.66	13.73	-119.91	-36.40	206.27	217.25	190.26	26.99	8.049		
4,000.00	3,999.71	3,979.40	3,967.00	13.99	14.11	-120.53	-39.23	219.90	233.38	205.71	27.67	8.434		
4,100.00	4,099.62	4,078.06	4,064.67	14.32	14.49	-121.07	-42.06	233.54	249.55	221.19	28.35	8.801		
4,200.00	4,199.53	4,176.72	4,162.35	14.66	14.87	-121.54	-44.89	247.17	265.72	236.68	29.04	9.150		
4,300.00	4,299.45	4,275.38	4,260.02	15.00	15.25	-121.96	-47.72	260.80	281.92	252.19	29.73	9.483		
4,400.00	4,399.36	4,374.04	4,357.69	15.33	15.63	-122.34	-50.55	274.43	298.13	267.71	30.42	9.801		
4,500.00	4,499.28	4,472.70	4,455.36	15.67	16.01	-122.67	-53.38	288.06	314.35	283.24	31.11	10.104		
4,600.00	4,599.19	4,571.36	4,553.04	16.01	16.40	-122.98	-56.21	301.69	330.58	298.77	31.80	10.394		
4,700.00	4,699.10	4,670.02	4,650.71	16.35	16.79	-123.25	-59.04	315.32	346.81	314.31	32.50	10.672		
4,800.00	4,799.02	4,768.68	4,748.38	16.69	17.17	-123.50	-61.87	328.95	363.06	329.86	33.20	10.937		
4,900.00	4,898.93	4,867.34	4,846.06	17.04	17.56	-123.73	-64.70	342.59	379.31	345.42	33.89	11.191		
5,000.00	4,998.85	4,966.00	4,943.73	17.38	17.95	-123.94	-67.53	356.22	395.56	360.97	34.59	11.435		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	5,064.66	5,041.40	17.72	18.34	-124.13	-70.36	369.85	411.82	376.53	35.29	11.669		
5,200.00	5,198.67	5,163.32	5,139.07	18.07	18.73	-124.31	-73.19	383.48	428.09	392.10	35.99	11.893		
5,300.00	5,298.59	5,261.98	5,236.75	18.41	19.12	-124.48	-76.02	397.11	444.36	407.66	36.70	12.109		
5,400.00	5,398.50	5,360.64	5,334.42	18.76	19.51	-124.63	-78.85	410.74	460.63	423.23	37.40	12.316		
5,500.00	5,498.42	5,459.30	5,432.09	19.11	19.90	-124.78	-81.68	424.37	476.90	438.80	38.11	12.515		
5,600.00	5,598.33	5,557.96	5,529.76	19.45	20.29	-124.91	-84.51	438.01	493.18	454.37	38.81	12.707		
5,700.00	5,698.24	5,656.62	5,627.44	19.80	20.68	-125.04	-87.34	451.64	509.46	469.95	39.52	12.892		
5,800.00	5,798.16	5,755.28	5,725.11	20.15	21.08	-125.15	-90.17	465.27	525.74	485.52	40.22	13.070		
5,900.00	5,898.07	5,853.94	5,822.78	20.50	21.47	-125.26	-93.00	478.90	542.03	501.10	40.93	13.242		
6,000.00	5,997.98	5,952.60	5,920.46	20.85	21.86	-125.37	-95.83	492.53	558.32	516.67	41.64	13.408		
6,100.00	6,097.90	6,051.26	6,018.13	21.20	22.26	-125.47	-98.66	506.16	574.60	532.25	42.35	13.568		
6,200.00	6,197.81	6,149.92	6,115.80	21.55	22.65	-125.56	-101.48	519.79	590.89	547.83	43.06	13.722		
6,300.00	6,297.73	6,248.57	6,213.47	21.90	23.05	-125.65	-104.31	533.43	607.18	563.41	43.77	13.871		
6,400.00	6,397.64	6,347.23	6,311.15	22.25	23.44	-125.73	-107.14	547.06	623.48	578.99	44.48	14.016		
6,500.00	6,497.55	6,445.89	6,408.82	22.61	23.84	-125.81	-109.97	560.69	639.77	594.57	45.20	14.155		
6,600.00	6,597.47	6,544.55	6,506.49	22.96	24.23	-125.88	-112.80	574.32	656.06	610.15	45.91	14.290		
6,700.00	6,697.38	6,643.21	6,604.16	23.31	24.63	-125.95	-115.63	587.95	672.36	625.74	46.62	14.421		
6,800.00	6,797.30	6,741.87	6,701.84	23.66	25.03	-126.02	-118.46	601.58	688.66	641.32	47.34	14.548		
6,900.00	6,897.21	6,840.53	6,799.51	24.02	25.42	-126.09	-121.29	615.21	704.95	656.90	48.05	14.671		
7,000.00	6,997.12	6,939.19	6,897.18	24.37	25.82	-126.15	-124.12	628.85	721.25	672.49	48.77	14.790		
7,100.00	7,097.04	7,037.85	6,994.86	24.73	26.22	-126.21	-126.95	642.48	737.55	688.07	49.48	14.906		
7,200.00	7,196.95	7,136.51	7,092.53	25.08	26.62	-126.27	-129.78	656.11	753.85	703.65	50.20	15.018		
7,300.00	7,296.87	7,235.17	7,190.20	25.43	27.01	-126.32	-132.61	669.74	770.15	719.24	50.91	15.127		
7,400.00	7,396.78	7,333.83	7,287.87	25.79	27.41	-126.37	-135.44	683.37	786.45	734.82	51.63	15.232		
7,500.00	7,496.69	7,432.49	7,385.55	26.14	27.81	-126.42	-138.27	697.00	802.75	750.41	52.35	15.335		
7,600.00	7,596.61	7,531.15	7,483.22	26.50	28.21	-126.47	-141.10	710.63	819.06	765.99	53.06	15.435		
7,700.00	7,696.52	7,629.81	7,580.89	26.86	28.61	-126.52	-143.93	724.26	835.36	781.58	53.78	15.532		
7,800.00	7,796.44	7,728.47	7,678.56	27.21	29.00	-126.56	-146.76	737.90	851.66	797.16	54.50	15.627		
7,900.00	7,896.35	7,827.13	7,776.24	27.57	29.40	-126.60	-149.59	751.53	867.97	812.75	55.22	15.719		
8,000.00	7,996.26	7,925.79	7,873.91	27.92	29.80	-126.64	-152.42	765.16	884.27	828.33	55.94	15.808		
8,100.00	8,096.18	8,024.45	7,971.58	28.28	30.20	-126.68	-155.25	778.79	900.58	843.92	56.66	15.895		
8,200.00	8,196.09	8,123.11	8,069.26	28.64	30.60	-126.72	-158.08	792.42	916.88	859.50	57.38	15.980		
8,300.00	8,296.01	8,221.77	8,166.93	28.99	31.00	-126.76	-160.91	806.05	933.19	875.09	58.10	16.063		
8,400.00	8,395.92	8,320.43	8,264.60	29.35	31.40	-126.79	-163.74	819.68	949.49	890.67	58.82	16.143		
8,500.00	8,495.83	8,419.09	8,362.27	29.71	31.80	-126.83	-166.57	833.32	965.80	906.26	59.54	16.222		
8,600.00	8,595.75	8,517.75	8,459.95	30.06	32.20	-126.86	-169.40	846.95	982.10	921.85	60.26	16.298		
8,700.00	8,695.66	8,616.41	8,557.62	30.42	32.60	-126.89	-172.23	860.58	998.41	937.43	60.98	16.373		
8,800.00	8,795.58	8,715.07	8,655.29	30.78	33.00	-126.92	-175.06	874.21	1,014.72	953.02	61.70	16.446		
8,900.00	8,895.49	8,813.73	8,752.97	31.14	33.40	-126.96	-177.89	887.84	1,031.03	968.60	62.42	16.517		
9,000.00	8,995.40	8,912.39	8,850.64	31.50	33.80	-126.98	-180.72	901.47	1,047.33	984.19	63.14	16.586		
9,100.00	9,095.32	9,011.05	8,948.31	31.85	34.20	-127.01	-183.55	915.10	1,063.64	999.78	63.87	16.654		
9,200.00	9,195.23	9,109.71	9,045.98	32.21	34.60	-127.04	-186.38	928.74	1,079.95	1,015.36	64.59	16.721		
9,300.00	9,295.14	9,210.61	9,145.87	32.57	35.01	-127.07	-189.27	942.67	1,096.25	1,030.92	65.33	16.781		
9,400.00	9,395.06	9,348.65	9,282.89	32.93	35.55	-127.13	-192.67	959.04	1,110.61	1,044.29	66.32	16.745		
9,500.00	9,494.97	9,487.91	9,421.64	33.29	36.08	-127.25	-195.07	970.63	1,121.45	1,054.19	67.26	16.674		
9,523.61	9,518.56	9,520.93	9,454.59	33.37	36.20	-127.28	-195.49	972.65	1,123.48	1,056.02	67.47	16.652		
9,600.00	9,594.91	9,628.10	9,561.65	33.64	36.58	-127.43	-196.46	977.29	1,128.25	1,060.13	68.12	16.562		
9,682.09	9,677.00	9,743.61	9,677.14	33.93	36.96	89.99	-196.81	979.00	1,130.00	1,061.23	68.77	16.431		
9,688.39	9,683.29	9,752.47	9,686.00	33.95	36.99	89.99	-196.81	978.99	1,129.99	1,061.17	68.82	16.420		
9,700.00	9,694.91	9,761.47	9,695.01	33.99	37.02	89.99	-196.81	979.00	1,130.00	1,061.11	68.89	16.402		
9,800.00	9,794.91	9,861.47	9,795.01	34.33	37.34	89.99	-196.81	979.00	1,130.00	1,060.43	69.57	16.243		
9,900.00	9,894.91	9,961.47	9,895.01	34.68	37.67	89.99	-196.81	979.00	1,130.00	1,059.75	70.25	16.086		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,000.00	9,994.91	10,061.47	9,995.01	35.02	37.99	89.99	-196.81	979.00	1,130.00	1,059.07	70.93	15.932		
10,032.13	10,027.04	10,093.61	10,027.14	35.13	38.09	89.99	-196.81	979.00	1,130.00	1,058.85	71.15	15.883		
10,050.00	10,044.90	10,111.72	10,045.25	35.19	38.15	90.40	-196.52	979.00	1,130.00	1,058.73	71.27	15.856		
10,100.00	10,094.75	10,162.42	10,095.78	35.36	38.31	90.40	-192.67	978.97	1,130.00	1,058.40	71.60	15.782		
10,150.00	10,144.08	10,213.10	10,145.77	35.53	38.47	90.39	-184.37	978.91	1,130.00	1,058.07	71.93	15.710		
10,200.00	10,192.52	10,263.77	10,194.81	35.68	38.61	90.38	-171.70	978.82	1,130.00	1,057.76	72.24	15.642		
10,250.00	10,239.69	10,314.42	10,242.53	35.84	38.75	90.37	-154.75	978.70	1,130.00	1,057.45	72.54	15.577		
10,300.00	10,285.26	10,365.05	10,288.54	35.98	38.88	90.35	-133.66	978.55	1,129.99	1,057.16	72.84	15.514		
10,350.00	10,328.85	10,415.65	10,332.48	36.12	38.99	90.34	-108.61	978.37	1,129.99	1,056.88	73.12	15.455		
10,400.00	10,370.15	10,466.22	10,374.02	36.25	39.09	90.32	-79.80	978.17	1,129.99	1,056.60	73.39	15.398		
10,450.00	10,408.84	10,516.75	10,412.83	36.37	39.18	90.29	-47.47	977.93	1,129.99	1,056.34	73.65	15.343		
10,500.00	10,444.62	10,567.23	10,448.61	36.49	39.25	90.27	-11.88	977.68	1,129.99	1,056.08	73.90	15.290		
10,550.00	10,477.22	10,617.67	10,481.09	36.61	39.31	90.24	26.68	977.41	1,129.98	1,055.83	74.15	15.239		
10,600.00	10,506.40	10,668.06	10,510.03	36.73	39.36	90.21	67.92	977.11	1,129.98	1,055.59	74.40	15.189		
10,650.00	10,531.93	10,718.40	10,535.21	36.85	39.40	90.18	111.48	976.80	1,129.98	1,055.34	74.64	15.140		
10,700.00	10,553.61	10,768.68	10,556.45	36.97	39.42	90.15	157.04	976.48	1,129.98	1,055.10	74.88	15.091		
10,750.00	10,571.29	10,818.91	10,573.60	37.10	39.44	90.12	204.23	976.14	1,129.98	1,054.86	75.12	15.043		
10,800.00	10,584.83	10,869.08	10,586.54	37.22	39.46	90.08	252.69	975.79	1,129.98	1,054.62	75.36	14.995		
10,850.00	10,594.12	10,919.19	10,595.19	37.34	39.47	90.05	302.03	975.44	1,129.98	1,054.38	75.60	14.947		
10,890.34	10,598.48	10,959.58	10,598.99	37.44	39.49	90.02	342.23	975.16	1,129.98	1,054.19	75.79	14.909		
10,900.00	10,599.10	10,969.24	10,599.49	37.47	39.50	90.01	351.87	975.09	1,129.98	1,054.14	75.84	14.900		
10,932.14	10,600.00	11,001.38	10,600.00	37.55	39.52	89.99	384.00	974.86	1,129.98	1,053.99	75.99	14.870		
11,000.00	10,600.00	11,069.24	10,600.00	37.73	39.58	89.99	451.87	974.37	1,129.98	1,053.63	76.34	14.801		
11,100.00	10,600.00	11,169.24	10,600.00	38.04	39.75	89.99	551.86	973.66	1,129.98	1,053.03	76.95	14.685		
11,200.00	10,600.00	11,269.24	10,600.00	38.41	40.02	89.99	651.86	972.95	1,129.98	1,052.32	77.66	14.551		
11,300.00	10,600.00	11,369.24	10,600.00	38.83	40.36	89.99	751.86	972.23	1,129.98	1,051.51	78.47	14.400		
11,400.00	10,600.00	11,469.24	10,600.00	39.30	40.78	89.99	851.86	971.52	1,129.98	1,050.60	79.38	14.235		
11,500.00	10,600.00	11,569.24	10,600.00	39.81	41.26	89.99	951.85	970.81	1,129.98	1,049.60	80.38	14.058		
11,600.00	10,600.00	11,669.24	10,600.00	40.37	41.79	89.99	1,051.85	970.09	1,129.98	1,048.50	81.48	13.868		
11,700.00	10,600.00	11,769.24	10,600.00	40.98	42.36	89.99	1,151.85	969.38	1,129.98	1,047.32	82.66	13.670		
11,800.00	10,600.00	11,869.24	10,600.00	41.62	42.98	89.99	1,251.85	968.67	1,129.98	1,046.05	83.93	13.463		
11,900.00	10,600.00	11,969.24	10,600.00	42.31	43.64	89.99	1,351.84	967.95	1,129.98	1,044.70	85.28	13.250		
12,000.00	10,600.00	12,069.24	10,600.00	43.04	44.34	89.99	1,451.84	967.24	1,129.98	1,043.27	86.71	13.032		
12,100.00	10,600.00	12,169.24	10,600.00	43.80	45.07	89.99	1,551.84	966.53	1,129.98	1,041.78	88.21	12.811		
12,200.00	10,600.00	12,269.24	10,600.00	44.60	45.84	89.99	1,651.84	965.81	1,129.98	1,040.21	89.78	12.587		
12,300.00	10,600.00	12,369.24	10,600.00	45.43	46.64	89.99	1,751.83	965.10	1,129.98	1,038.57	91.41	12.362		
12,400.00	10,600.00	12,469.24	10,600.00	46.29	47.47	89.99	1,851.83	964.39	1,129.98	1,036.88	93.11	12.136		
12,500.00	10,600.00	12,569.24	10,600.00	47.17	48.33	89.99	1,951.83	963.67	1,129.98	1,035.12	94.86	11.912		
12,600.00	10,600.00	12,669.24	10,600.00	48.09	49.22	89.99	2,051.83	962.96	1,129.98	1,033.31	96.67	11.689		
12,700.00	10,600.00	12,769.24	10,600.00	49.04	50.14	89.99	2,151.82	962.25	1,129.98	1,031.45	98.54	11.467		
12,800.00	10,600.00	12,869.24	10,600.00	50.00	51.08	89.99	2,251.82	961.53	1,129.99	1,029.53	100.45	11.249		
12,900.00	10,600.00	12,969.24	10,600.00	50.99	52.04	89.99	2,351.82	960.82	1,129.99	1,027.57	102.42	11.033		
13,000.00	10,600.00	13,069.24	10,600.00	52.01	53.03	89.99	2,451.82	960.11	1,129.99	1,025.56	104.42	10.821		
13,100.00	10,600.00	13,169.24	10,600.00	53.04	54.03	89.99	2,551.81	959.39	1,129.99	1,023.52	106.47	10.613		
13,200.00	10,600.00	13,269.24	10,600.00	54.09	55.06	89.99	2,651.81	958.68	1,129.99	1,021.43	108.56	10.409		
13,300.00	10,600.00	13,369.24	10,600.00	55.16	56.11	89.99	2,751.81	957.97	1,129.99	1,019.31	110.68	10.209		
13,400.00	10,600.00	13,469.24	10,600.00	56.25	57.17	89.99	2,851.81	957.25	1,129.99	1,017.15	112.84	10.014		
13,500.00	10,600.00	13,569.24	10,600.00	57.36	58.25	89.99	2,951.80	956.54	1,129.99	1,014.95	115.03	9.823		
13,600.00	10,600.00	13,669.24	10,600.00	58.48	59.35	89.99	3,051.80	955.83	1,129.99	1,012.73	117.26	9.637		
13,700.00	10,600.00	13,769.24	10,600.00	59.61	60.46	89.99	3,151.80	955.11	1,129.99	1,010.48	119.51	9.455		
13,800.00	10,600.00	13,869.24	10,600.00	60.76	61.58	89.99	3,251.80	954.40	1,129.99	1,008.20	121.79	9.278		
13,900.00	10,600.00	13,969.24	10,600.00	61.92	62.72	89.99	3,351.79	953.69	1,129.99	1,005.89	124.10	9.105		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	14,069.24	10,600.00	63.10	63.87	89.99	3,451.79	952.98	1,129.99	1,003.56	126.44	8.937	
14,100.00	10,600.00	14,169.24	10,600.00	64.28	65.04	89.99	3,551.79	952.26	1,129.99	1,001.20	128.79	8.774	
14,200.00	10,600.00	14,269.24	10,600.00	65.48	66.21	89.99	3,651.79	951.55	1,129.99	998.82	131.17	8.615	
14,300.00	10,600.00	14,369.24	10,600.00	66.68	67.40	89.99	3,751.78	950.84	1,129.99	996.42	133.57	8.460	
14,400.00	10,600.00	14,469.24	10,600.00	67.90	68.60	89.99	3,851.78	950.12	1,129.99	994.00	135.99	8.309	
14,500.00	10,600.00	14,569.24	10,600.00	69.13	69.80	89.99	3,951.78	949.41	1,129.99	991.56	138.43	8.163	
14,600.00	10,600.00	14,669.24	10,600.00	70.36	71.02	89.99	4,051.78	948.70	1,129.99	989.11	140.89	8.021	
14,700.00	10,600.00	14,769.24	10,600.00	71.60	72.24	89.99	4,151.77	947.98	1,129.99	986.63	143.36	7.882	
14,800.00	10,600.00	14,869.24	10,600.00	72.85	73.48	89.99	4,251.77	947.27	1,130.00	984.14	145.85	7.748	
14,900.00	10,600.00	14,969.24	10,600.00	74.11	74.72	89.99	4,351.77	946.56	1,130.00	981.64	148.36	7.617	
15,000.00	10,600.00	15,069.24	10,600.00	75.38	75.97	89.99	4,451.77	945.84	1,130.00	979.12	150.88	7.489	
15,100.00	10,600.00	15,169.24	10,600.00	76.65	77.22	89.99	4,551.76	945.13	1,130.00	976.58	153.41	7.366	
15,200.00	10,600.00	15,269.24	10,600.00	77.93	78.48	89.99	4,651.76	944.42	1,130.00	974.04	155.96	7.245	
15,300.00	10,600.00	15,369.24	10,600.00	79.21	79.75	89.99	4,751.76	943.70	1,130.00	971.48	158.52	7.128	
15,400.00	10,600.00	15,469.24	10,600.00	80.50	81.03	89.99	4,851.76	942.99	1,130.00	968.91	161.09	7.015	
15,500.00	10,600.00	15,569.24	10,600.00	81.80	82.31	89.99	4,951.75	942.28	1,130.00	966.32	163.68	6.904	
15,506.72	10,600.00	15,575.96	10,600.00	81.89	82.40	89.99	4,958.47	942.23	1,130.00	966.15	163.85	6.897	
15,575.11	10,600.00	15,639.91	10,600.00	82.77	83.22	89.99	5,022.42	941.77	1,130.01	964.42	165.59	6.824	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	6.20	6.20	0.50	0.50	91.35	-37.58	1,596.33	1,596.78					
100.00	100.00	106.20	106.20	0.52	0.52	91.35	-37.58	1,596.33	1,596.78	1,595.73	1.04	1,532.825		
200.00	200.00	206.20	206.20	0.70	0.72	91.35	-37.58	1,596.33	1,596.78	1,595.36	1.42	1,124.503		
300.00	300.00	306.20	306.20	0.99	1.01	91.35	-37.58	1,596.33	1,596.78	1,594.78	1.99	800.831		
400.00	400.00	406.20	406.20	1.31	1.33	91.35	-37.58	1,596.33	1,596.78	1,594.14	2.64	605.126		
500.00	500.00	506.20	506.20	1.65	1.67	91.35	-37.58	1,596.33	1,596.78	1,593.46	3.31	481.920		
600.00	600.00	606.20	606.20	1.99	2.01	91.35	-37.58	1,596.33	1,596.78	1,592.77	4.00	398.922		
700.00	700.00	706.20	706.20	2.34	2.36	91.35	-37.58	1,596.33	1,596.78	1,592.08	4.70	339.714		
800.00	800.00	806.20	806.20	2.69	2.71	91.35	-37.58	1,596.33	1,596.78	1,591.37	5.40	295.533		
900.00	900.00	906.20	906.20	3.04	3.07	91.35	-37.58	1,596.33	1,596.78	1,590.67	6.11	261.380		
1,000.00	1,000.00	1,006.20	1,006.20	3.40	3.42	91.35	-37.58	1,596.33	1,596.78	1,589.96	6.82	234.224		
1,100.00	1,100.00	1,106.20	1,106.20	3.75	3.77	91.35	-37.58	1,596.33	1,596.78	1,589.25	7.53	212.133		
1,200.00	1,200.00	1,206.20	1,206.20	4.11	4.13	91.35	-37.58	1,596.33	1,596.78	1,588.54	8.24	193.822		
1,300.00	1,300.00	1,306.20	1,306.20	4.46	4.49	91.35	-37.58	1,596.33	1,596.78	1,587.83	8.95	178.402		
1,400.00	1,400.00	1,406.20	1,406.20	4.82	4.84	91.35	-37.58	1,596.33	1,596.78	1,587.11	9.66	165.243		
1,500.00	1,500.00	1,506.20	1,506.20	5.18	5.20	91.35	-37.58	1,596.33	1,596.78	1,586.40	10.38	153.883		
1,600.00	1,600.00	1,606.20	1,606.20	5.53	5.56	91.35	-37.58	1,596.33	1,596.78	1,585.69	11.09	143.978		
1,700.00	1,700.00	1,706.20	1,706.20	5.89	5.91	91.35	-37.58	1,596.33	1,596.78	1,584.97	11.80	135.267		
1,800.00	1,800.00	1,806.20	1,806.20	6.25	6.27	91.35	-37.58	1,596.33	1,596.78	1,584.26	12.52	127.547		
1,900.00	1,900.00	1,906.20	1,906.20	6.61	6.63	91.35	-37.58	1,596.33	1,596.78	1,583.54	13.23	120.658		
2,000.00	2,000.00	2,006.20	2,006.20	6.96	6.99	91.35	-37.58	1,596.33	1,596.78	1,582.83	13.95	114.473 CC, ES		
2,100.00	2,100.00	2,083.10	2,083.09	7.32	7.25	91.35	-37.64	1,596.93	1,597.54	1,582.97	14.57	109.631		
2,200.00	2,200.00	2,161.31	2,161.29	7.68	7.52	91.35	-37.80	1,598.59	1,599.67	1,584.48	15.19	105.292		
2,300.00	2,300.00	2,239.46	2,239.39	8.04	7.79	91.36	-38.06	1,601.31	1,603.16	1,587.35	15.81	101.402		
2,400.00	2,400.00	2,317.52	2,317.36	8.39	8.05	91.37	-38.42	1,605.09	1,608.00	1,591.58	16.43	97.900		
2,500.00	2,500.00	2,405.50	2,393.92	8.75	8.36	91.38	-38.87	1,609.83	1,614.20	1,597.13	17.07	94.558		
2,600.00	2,600.00	2,493.99	2,493.44	9.11	8.66	91.40	-39.54	1,616.75	1,621.16	1,603.43	17.73	91.424		
2,700.00	2,700.00	2,606.25	2,592.95	9.47	9.06	91.42	-40.20	1,623.68	1,628.12	1,609.64	18.48	88.117		
2,800.00	2,800.00	2,706.50	2,692.46	9.83	9.41	91.44	-40.87	1,630.60	1,635.07	1,615.89	19.18	85.243		
2,900.00	2,900.00	2,806.74	2,791.98	10.18	9.76	91.45	-41.53	1,637.52	1,642.03	1,622.14	19.89	82.568		
3,000.00	3,000.00	2,906.98	2,891.49	10.54	10.12	91.47	-42.19	1,644.45	1,648.98	1,628.39	20.59	80.072		
3,100.00	3,100.00	3,007.23	2,991.00	10.90	10.47	91.49	-42.86	1,651.37	1,655.94	1,634.64	21.30	77.738		
3,200.00	3,200.00	3,107.47	3,090.52	11.26	10.83	91.50	-43.52	1,658.30	1,662.90	1,640.89	22.01	75.552		
3,300.00	3,300.00	3,207.71	3,190.03	11.62	11.19	91.52	-44.19	1,665.22	1,669.85	1,647.14	22.72	73.499		
3,400.00	3,400.00	3,307.96	3,289.55	11.97	11.55	91.54	-44.85	1,672.15	1,676.81	1,653.38	23.43	71.569		
3,500.00	3,500.00	3,408.20	3,389.06	12.33	11.91	91.55	-45.51	1,679.07	1,683.77	1,659.63	24.14	69.750		
3,600.00	3,600.00	3,491.52	3,488.54	12.67	12.20	-125.86	-46.18	1,685.99	1,691.24	1,666.46	24.78	68.264		
3,700.00	3,699.96	3,608.86	3,587.92	13.00	12.63	-125.85	-46.84	1,692.91	1,699.72	1,674.21	25.52	66.616		
3,737.73	3,737.66	3,628.70	3,625.38	13.13	12.70	-125.86	-47.09	1,695.52	1,703.19	1,677.48	25.71	66.249		
3,800.00	3,799.88	3,709.33	3,687.20	13.33	12.99	-125.92	-47.50	1,699.82	1,709.03	1,682.84	26.20	65.236		
3,900.00	3,899.79	3,809.81	3,786.48	13.66	13.35	-126.01	-48.17	1,706.73	1,718.42	1,691.54	26.88	63.925		
4,000.00	3,999.71	3,889.70	3,885.75	13.99	13.64	-126.11	-48.83	1,713.63	1,727.82	1,700.32	27.50	62.841		
4,100.00	4,099.62	3,989.22	3,985.03	14.32	14.00	-126.20	-49.49	1,720.54	1,737.21	1,709.03	28.18	61.647		
4,200.00	4,199.53	4,088.74	4,084.30	14.66	14.36	-126.29	-50.15	1,727.45	1,746.62	1,717.75	28.87	60.507		
4,300.00	4,299.45	4,188.26	4,183.58	15.00	14.72	-126.38	-50.82	1,734.36	1,756.02	1,726.47	29.55	59.416		
4,400.00	4,399.36	4,287.77	4,282.85	15.33	15.09	-126.48	-51.48	1,741.27	1,765.44	1,735.19	30.24	58.372		
4,500.00	4,499.28	4,387.29	4,382.13	15.67	15.45	-126.56	-52.14	1,748.17	1,774.85	1,743.92	30.94	57.372		
4,600.00	4,599.19	4,486.81	4,481.40	16.01	15.81	-126.65	-52.80	1,755.08	1,784.27	1,752.64	31.63	56.414		
4,700.00	4,699.10	4,586.33	4,580.68	16.35	16.17	-126.74	-53.46	1,761.99	1,793.70	1,761.37	32.32	55.494		
4,800.00	4,799.02	4,685.84	4,679.96	16.69	16.54	-126.83	-54.13	1,768.90	1,803.12	1,770.11	33.02	54.612		
4,900.00	4,898.93	4,785.36	4,779.23	17.04	16.90	-126.91	-54.79	1,775.81	1,812.56	1,778.84	33.71	53.764		
5,000.00	4,998.85	4,884.88	4,878.51	17.38	17.26	-127.00	-55.45	1,782.71	1,821.99	1,787.58	34.41	52.948		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	4,984.40	4,977.78	17.72	17.63	-127.08	-56.11	1,789.62	1,831.43	1,796.32	35.11	52.164		
5,200.00	5,198.67	5,083.91	5,077.06	18.07	17.99	-127.17	-56.78	1,796.53	1,840.88	1,805.07	35.81	51.409		
5,300.00	5,298.59	5,183.43	5,176.33	18.41	18.36	-127.25	-57.44	1,803.44	1,850.32	1,813.82	36.51	50.682		
5,400.00	5,398.50	5,282.95	5,275.61	18.76	18.72	-127.33	-58.10	1,810.35	1,859.78	1,822.57	37.21	49.982		
5,500.00	5,498.42	5,382.47	5,374.88	19.11	19.08	-127.41	-58.76	1,817.25	1,869.23	1,831.32	37.91	49.306		
5,600.00	5,598.33	5,481.98	5,474.16	19.45	19.45	-127.49	-59.43	1,824.16	1,878.69	1,840.08	38.61	48.654		
5,700.00	5,698.24	5,581.50	5,573.43	19.80	19.81	-127.57	-60.09	1,831.07	1,888.15	1,848.84	39.32	48.024		
5,800.00	5,798.16	5,681.02	5,672.71	20.15	20.18	-127.65	-60.75	1,837.98	1,897.62	1,857.60	40.02	47.416		
5,900.00	5,898.07	5,780.54	5,771.98	20.50	20.54	-127.73	-61.41	1,844.89	1,907.09	1,866.37	40.72	46.828		
6,000.00	5,997.98	5,880.05	5,871.26	20.85	20.91	-127.80	-62.08	1,851.79	1,916.56	1,875.13	41.43	46.260		
6,100.00	6,097.90	5,979.57	5,970.53	21.20	21.28	-127.88	-62.74	1,858.70	1,926.04	1,883.90	42.14	45.710		
6,200.00	6,197.81	6,079.09	6,069.81	21.55	21.64	-127.96	-63.40	1,865.61	1,935.52	1,892.68	42.84	45.178		
6,300.00	6,297.73	6,178.61	6,169.08	21.90	22.01	-128.03	-64.06	1,872.52	1,945.00	1,901.45	43.55	44.662		
6,400.00	6,397.64	6,278.12	6,268.36	22.25	22.37	-128.10	-64.73	1,879.42	1,954.49	1,910.23	44.26	44.163		
6,500.00	6,497.55	6,377.64	6,367.63	22.61	22.74	-128.18	-65.39	1,886.33	1,963.98	1,919.02	44.96	43.679		
6,600.00	6,597.47	6,477.16	6,466.91	22.96	23.11	-128.25	-66.05	1,893.24	1,973.47	1,927.80	45.67	43.209		
6,700.00	6,697.38	6,576.68	6,566.18	23.31	23.47	-128.32	-66.71	1,900.15	1,982.97	1,936.59	46.38	42.754		
6,800.00	6,797.30	6,676.19	6,665.46	23.66	23.84	-128.39	-67.38	1,907.06	1,992.47	1,945.38	47.09	42.312		
6,900.00	6,897.21	6,775.71	6,764.73	24.02	24.20	-128.46	-68.04	1,913.96	2,001.97	1,954.17	47.80	41.883		
7,000.00	6,997.12	6,875.23	6,864.01	24.37	24.57	-128.53	-68.70	1,920.87	2,011.48	1,962.97	48.51	41.466		
7,100.00	7,097.04	6,974.75	6,963.28	24.73	24.94	-128.60	-69.36	1,927.78	2,020.98	1,971.76	49.22	41.060		
7,200.00	7,196.95	7,074.26	7,062.56	25.08	25.30	-128.67	-70.03	1,934.69	2,030.49	1,980.56	49.93	40.666		
7,300.00	7,296.87	7,173.78	7,161.84	25.43	25.67	-128.74	-70.69	1,941.60	2,040.01	1,989.37	50.64	40.283		
7,400.00	7,396.78	7,273.30	7,261.11	25.79	26.04	-128.81	-71.35	1,948.50	2,049.52	1,998.17	51.35	39.911		
7,500.00	7,496.69	7,372.82	7,360.39	26.14	26.40	-128.87	-72.01	1,955.41	2,059.04	2,006.98	52.06	39.548		
7,600.00	7,596.61	7,472.33	7,459.66	26.50	26.77	-128.94	-72.67	1,962.32	2,068.57	2,015.79	52.78	39.195		
7,700.00	7,696.52	7,571.85	7,558.94	26.86	27.14	-129.00	-73.34	1,969.23	2,078.09	2,024.60	53.49	38.851		
7,800.00	7,796.44	7,671.37	7,658.21	27.21	27.51	-129.07	-74.00	1,976.14	2,087.62	2,033.42	54.20	38.516		
7,900.00	7,896.35	7,770.89	7,757.49	27.57	27.87	-129.13	-74.66	1,983.04	2,097.15	2,042.23	54.91	38.190		
8,000.00	7,996.26	7,870.40	7,856.76	27.92	28.24	-129.20	-75.32	1,989.95	2,106.68	2,051.05	55.63	37.872		
8,100.00	8,096.18	7,969.92	7,956.04	28.28	28.61	-129.26	-75.99	1,996.86	2,116.22	2,059.88	56.34	37.562		
8,200.00	8,196.09	8,069.44	8,055.31	28.64	28.97	-129.32	-76.65	2,003.77	2,125.75	2,068.70	57.05	37.259		
8,300.00	8,296.01	8,168.96	8,154.59	28.99	29.34	-129.38	-77.31	2,010.68	2,135.29	2,077.53	57.77	36.964		
8,400.00	8,395.92	8,268.47	8,253.86	29.35	29.71	-129.45	-77.97	2,017.58	2,144.84	2,086.35	58.48	36.676		
8,500.00	8,495.83	8,367.99	8,353.14	29.71	30.08	-129.51	-78.64	2,024.49	2,154.38	2,095.19	59.20	36.394		
8,600.00	8,595.75	8,467.51	8,452.41	30.06	30.44	-129.57	-79.30	2,031.40	2,163.93	2,104.02	59.91	36.120		
8,700.00	8,695.66	8,567.03	8,551.69	30.42	30.81	-129.63	-79.96	2,038.31	2,173.48	2,112.85	60.62	35.852		
8,800.00	8,795.58	8,666.54	8,650.96	30.78	31.18	-129.69	-80.62	2,045.22	2,183.03	2,121.69	61.34	35.589		
8,900.00	8,895.49	8,766.06	8,750.24	31.14	31.55	-129.74	-81.29	2,052.12	2,192.58	2,130.53	62.05	35.333		
9,000.00	8,995.40	8,865.58	8,849.51	31.50	31.91	-129.80	-81.95	2,059.03	2,202.14	2,139.37	62.77	35.083		
9,100.00	9,095.32	8,965.10	8,948.79	31.85	32.28	-129.86	-82.61	2,065.94	2,211.70	2,148.22	63.48	34.838		
9,200.00	9,195.23	9,064.61	9,048.06	32.21	32.65	-129.92	-83.27	2,072.85	2,221.26	2,157.06	64.20	34.599		
9,300.00	9,295.14	9,164.13	9,147.34	32.57	33.02	-129.97	-83.94	2,079.76	2,230.82	2,165.91	64.92	34.365		
9,400.00	9,395.06	9,263.65	9,246.61	32.93	33.39	-130.03	-84.60	2,086.66	2,240.39	2,174.76	65.63	34.136		
9,500.00	9,494.97	9,363.17	9,345.89	33.29	33.75	-130.09	-85.26	2,093.57	2,249.96	2,183.61	66.35	33.911		
9,523.61	9,518.56	9,386.66	9,369.33	33.37	33.84	-130.10	-85.42	2,095.20	2,252.22	2,185.70	66.52	33.859		
9,600.00	9,594.91	9,511.64	9,494.06	33.64	34.30	-130.22	-86.16	2,102.97	2,258.66	2,191.38	67.28	33.570		
9,682.09	9,677.00	9,700.85	9,683.20	33.93	34.97	87.20	-86.58	2,107.33	2,261.03	2,192.78	68.25	33.129		
9,700.00	9,694.91	9,718.76	9,701.11	33.99	35.03	87.20	-86.58	2,107.33	2,261.03	2,192.66	68.37	33.069		
9,800.00	9,794.91	9,818.76	9,801.11	34.33	35.37	87.20	-86.58	2,107.33	2,261.03	2,191.97	69.06	32.741		
9,900.00	9,894.91	9,918.76	9,901.11	34.68	35.71	87.20	-86.58	2,107.33	2,261.03	2,191.29	69.75	32.418		
10,000.00	9,994.91	10,018.76	10,001.11	35.02	36.05	87.20	-86.58	2,107.33	2,261.03	2,190.60	70.43	32.102		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,002.80	9,997.70	10,021.55	10,003.90	35.03	36.06	87.20	-86.58	2,107.33	2,261.03	2,190.58	70.45	32.093		
10,032.13	10,027.04	10,050.02	10,032.37	35.13	36.16	87.20	-86.56	2,107.33	2,261.03	2,190.38	70.65	32.003		
10,050.00	10,044.90	10,065.37	10,047.71	35.19	36.21	87.61	-86.21	2,107.33	2,261.04	2,190.27	70.77	31.951		
10,100.00	10,094.75	10,108.32	10,090.54	35.36	36.35	87.61	-83.05	2,107.31	2,261.03	2,189.95	71.08	31.808		
10,150.00	10,144.08	10,151.29	10,133.03	35.53	36.50	87.63	-76.69	2,107.26	2,261.00	2,189.61	71.39	31.670		
10,200.00	10,192.52	10,194.32	10,174.97	35.68	36.63	87.66	-67.15	2,107.19	2,260.95	2,189.25	71.70	31.535		
10,250.00	10,239.69	10,237.43	10,216.16	35.84	36.77	87.71	-54.47	2,107.10	2,260.87	2,188.88	71.99	31.405		
10,300.00	10,285.26	10,280.66	10,256.40	35.98	36.90	87.77	-38.67	2,106.98	2,260.77	2,188.49	72.28	31.280		
10,350.00	10,328.85	10,324.05	10,295.46	36.12	37.02	87.85	-19.82	2,106.84	2,260.65	2,188.09	72.55	31.158		
10,400.00	10,370.15	10,367.62	10,333.14	36.25	37.13	87.95	2.04	2,106.68	2,260.51	2,187.68	72.82	31.040		
10,450.00	10,408.84	10,411.42	10,369.24	36.37	37.24	88.05	26.83	2,106.50	2,260.35	2,187.26	73.09	30.926		
10,500.00	10,444.62	10,455.48	10,403.53	36.49	37.33	88.18	54.48	2,106.30	2,260.19	2,186.84	73.35	30.814		
10,550.00	10,477.22	10,499.83	10,435.80	36.61	37.42	88.31	84.88	2,106.07	2,260.02	2,186.42	73.61	30.705		
10,600.00	10,506.40	10,544.52	10,465.84	36.73	37.50	88.46	117.95	2,105.83	2,259.85	2,186.00	73.86	30.597		
10,650.00	10,531.93	10,589.58	10,493.43	36.85	37.57	88.61	153.56	2,105.57	2,259.69	2,185.58	74.11	30.491		
10,700.00	10,553.61	10,635.05	10,518.35	36.97	37.64	88.78	191.58	2,105.29	2,259.53	2,185.17	74.36	30.385		
10,750.00	10,571.29	10,680.97	10,540.37	37.10	37.70	88.96	231.86	2,104.99	2,259.38	2,184.77	74.62	30.280		
10,800.00	10,584.83	10,727.38	10,559.28	37.22	37.79	89.14	274.23	2,104.68	2,259.25	2,184.38	74.87	30.175		
10,850.00	10,594.12	10,774.31	10,574.85	37.34	37.90	89.33	318.49	2,104.36	2,259.14	2,184.01	75.13	30.070		
10,900.00	10,599.10	10,821.82	10,586.87	37.47	38.03	89.53	364.43	2,104.02	2,259.05	2,183.66	75.39	29.966		
10,932.14	10,600.00	10,852.66	10,592.62	37.55	38.12	89.66	394.73	2,103.80	2,259.01	2,183.45	75.55	29.900		
11,000.00	10,600.00	10,919.02	10,599.42	37.73	38.31	89.83	460.70	2,103.31	2,258.96	2,183.04	75.92	29.755		
11,100.00	10,600.00	11,018.73	10,600.00	38.04	38.63	89.84	560.40	2,102.58	2,258.94	2,182.41	76.53	29.517		
11,200.00	10,600.00	11,118.73	10,600.00	38.41	38.99	89.84	660.39	2,101.85	2,258.92	2,181.68	77.24	29.244		
11,300.00	10,600.00	11,218.73	10,600.00	38.83	39.39	89.84	760.39	2,101.11	2,258.90	2,180.84	78.06	28.939		
11,400.00	10,600.00	11,318.73	10,600.00	39.30	39.85	89.84	860.39	2,100.38	2,258.88	2,179.91	78.97	28.605		
11,500.00	10,600.00	11,418.73	10,600.00	39.81	40.35	89.84	960.38	2,099.64	2,258.86	2,178.88	79.98	28.244		
11,600.00	10,600.00	11,518.73	10,600.00	40.37	40.90	89.84	1,060.38	2,098.91	2,258.84	2,177.76	81.08	27.860		
11,700.00	10,600.00	11,618.73	10,600.00	40.98	41.48	89.84	1,160.38	2,098.18	2,258.82	2,176.55	82.27	27.457		
11,800.00	10,600.00	11,718.73	10,600.00	41.62	42.11	89.84	1,260.38	2,097.44	2,258.79	2,175.25	83.54	27.038		
11,900.00	10,600.00	11,818.73	10,600.00	42.31	42.78	89.84	1,360.37	2,096.71	2,258.77	2,173.88	84.90	26.607		
12,000.00	10,600.00	11,918.73	10,600.00	43.04	43.49	89.84	1,460.37	2,095.97	2,258.75	2,172.43	86.33	26.165		
12,100.00	10,600.00	12,018.73	10,600.00	43.80	44.23	89.84	1,560.37	2,095.24	2,258.73	2,170.90	87.83	25.717		
12,200.00	10,600.00	12,118.73	10,600.00	44.60	45.01	89.84	1,660.37	2,094.50	2,258.71	2,169.31	89.41	25.264		
12,300.00	10,600.00	12,218.73	10,600.00	45.43	45.82	89.84	1,760.36	2,093.77	2,258.69	2,167.65	91.05	24.808		
12,400.00	10,600.00	12,318.73	10,600.00	46.29	46.66	89.84	1,860.36	2,093.03	2,258.67	2,165.92	92.75	24.353		
12,500.00	10,600.00	12,418.73	10,600.00	47.17	47.54	89.84	1,960.36	2,092.30	2,258.65	2,164.14	94.51	23.898		
12,600.00	10,600.00	12,518.73	10,600.00	48.09	48.43	89.84	2,060.35	2,091.57	2,258.63	2,162.30	96.33	23.447		
12,700.00	10,600.00	12,618.73	10,600.00	49.04	49.36	89.84	2,160.35	2,090.83	2,258.61	2,160.41	98.20	23.000		
12,800.00	10,600.00	12,718.73	10,600.00	50.00	50.31	89.84	2,260.35	2,090.10	2,258.59	2,158.47	100.12	22.559		
12,900.00	10,600.00	12,818.73	10,600.00	50.99	51.28	89.84	2,360.35	2,089.36	2,258.57	2,156.48	102.09	22.124		
13,000.00	10,600.00	12,918.73	10,600.00	52.01	52.28	89.84	2,460.34	2,088.63	2,258.55	2,154.45	104.10	21.696		
13,100.00	10,600.00	13,018.73	10,600.00	53.04	53.30	89.84	2,560.34	2,087.89	2,258.53	2,152.37	106.15	21.276		
13,200.00	10,600.00	13,118.73	10,600.00	54.09	54.34	89.84	2,660.34	2,087.16	2,258.51	2,150.26	108.24	20.865		
13,300.00	10,600.00	13,218.73	10,600.00	55.16	55.39	89.84	2,760.34	2,086.42	2,258.48	2,148.11	110.37	20.462		
13,400.00	10,600.00	13,318.73	10,600.00	56.25	56.47	89.84	2,860.33	2,085.69	2,258.46	2,145.93	112.54	20.068		
13,500.00	10,600.00	13,418.73	10,600.00	57.36	57.56	89.84	2,960.33	2,084.96	2,258.44	2,143.71	114.74	19.684		
13,600.00	10,600.00	13,518.73	10,600.00	58.48	58.66	89.84	3,060.33	2,084.22	2,258.42	2,141.46	116.97	19.308		
13,700.00	10,600.00	13,618.73	10,600.00	59.61	59.78	89.84	3,160.32	2,083.49	2,258.40	2,139.18	119.23	18.942		
13,800.00	10,600.00	13,718.73	10,600.00	60.76	60.92	89.84	3,260.32	2,082.75	2,258.38	2,136.87	121.51	18.586		
13,900.00	10,600.00	13,818.73	10,600.00	61.92	62.07	89.84	3,360.32	2,082.02	2,258.36	2,134.54	123.82	18.238		
14,000.00	10,600.00	13,918.73	10,600.00	63.10	63.23	89.84	3,460.32	2,081.28	2,258.34	2,132.18	126.16	17.900		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 18H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	14,018.73	10,600.00	64.28	64.40	89.84	3,560.31	2,080.55	2,258.32	2,129.80	128.52	17.571	
14,200.00	10,600.00	14,118.73	10,600.00	65.48	65.59	89.84	3,660.31	2,079.81	2,258.30	2,127.39	130.91	17.251	
14,300.00	10,600.00	14,218.73	10,600.00	66.68	66.78	89.84	3,760.31	2,079.08	2,258.28	2,124.97	133.31	16.940	
14,400.00	10,600.00	14,318.73	10,600.00	67.90	67.99	89.84	3,860.31	2,078.35	2,258.26	2,122.52	135.74	16.637	
14,500.00	10,600.00	14,418.73	10,600.00	69.13	69.20	89.84	3,960.30	2,077.61	2,258.24	2,120.06	138.18	16.343	
14,600.00	10,600.00	14,518.73	10,600.00	70.36	70.43	89.84	4,060.30	2,076.88	2,258.22	2,117.58	140.64	16.057	
14,700.00	10,600.00	14,618.73	10,600.00	71.60	71.66	89.84	4,160.30	2,076.14	2,258.20	2,115.08	143.12	15.779	
14,800.00	10,600.00	14,718.73	10,600.00	72.85	72.90	89.84	4,260.30	2,075.41	2,258.18	2,112.56	145.61	15.508	
14,900.00	10,600.00	14,818.73	10,600.00	74.11	74.15	89.84	4,360.29	2,074.67	2,258.15	2,110.03	148.12	15.245	
15,000.00	10,600.00	14,918.73	10,600.00	75.38	75.41	89.84	4,460.29	2,073.94	2,258.13	2,107.49	150.65	14.990	
15,100.00	10,600.00	15,018.73	10,600.00	76.65	76.67	89.84	4,560.29	2,073.20	2,258.11	2,104.93	153.18	14.741	
15,200.00	10,600.00	15,118.73	10,600.00	77.93	77.94	89.84	4,660.28	2,072.47	2,258.09	2,102.36	155.73	14.500	
15,300.00	10,600.00	15,218.73	10,600.00	79.21	79.22	89.84	4,760.28	2,071.74	2,258.07	2,099.78	158.30	14.265	
15,400.00	10,600.00	15,318.73	10,600.00	80.50	80.50	89.84	4,860.28	2,071.00	2,258.05	2,097.18	160.87	14.036	
15,500.00	10,600.00	15,418.73	10,600.00	81.80	81.79	89.84	4,960.28	2,070.27	2,258.03	2,094.57	163.46	13.814	
15,571.61	10,600.00	15,490.34	10,600.00	82.73	82.72	89.84	5,031.89	2,069.74	2,258.02	2,092.70	165.32	13.659 SF	
15,575.11	10,600.00	15,484.47	10,600.00	82.77	82.64	89.84	5,026.02	2,069.78	2,258.03	2,092.74	165.30	13.660	

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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	7.23	7.23	0.50	0.01	93.17	-42.40	764.76	765.94					
100.00	100.00	107.60	107.60	0.52	0.15	93.15	-42.14	764.75	765.91	765.24	0.67	1,141.314		
126.51	126.51	134.21	134.21	0.55	0.19	93.14	-42.00	764.74	765.89	765.15	0.74	1,033.064		
200.00	200.00	204.73	204.73	0.70	0.47	93.10	-41.40	764.90	766.02	764.85	1.17	653.468		
300.00	300.00	305.51	305.50	0.99	0.83	93.00	-40.11	765.32	766.38	764.56	1.82	421.393		
400.00	400.00	407.70	407.68	1.31	1.20	92.87	-38.41	765.45	766.41	763.90	2.51	305.705		
497.54	497.54	504.78	504.74	1.64	1.55	92.75	-36.73	765.47	766.35	763.17	3.18	240.679		
500.00	500.00	507.14	507.09	1.65	1.55	92.74	-36.69	765.47	766.35	763.15	3.20	239.412		
600.00	600.00	605.18	605.14	1.99	1.91	92.68	-35.79	765.73	766.56	762.67	3.90	196.728		
700.00	700.00	712.69	712.65	2.34	2.28	92.66	-35.54	765.50	766.34	761.72	4.62	165.942		
800.00	800.00	815.84	815.78	2.69	2.63	92.69	-35.90	764.43	765.32	760.00	5.32	143.851		
900.00	900.00	917.74	917.67	3.04	2.98	92.73	-36.33	763.18	764.12	758.10	6.02	126.877		
1,000.00	1,000.00	1,017.36	1,017.29	3.40	3.33	92.76	-36.71	761.77	762.72	755.99	6.72	113.465		
1,100.00	1,100.00	1,118.15	1,118.07	3.75	3.68	92.80	-37.15	760.38	761.37	753.94	7.43	102.491		
1,200.00	1,200.00	1,211.84	1,211.75	4.11	4.01	92.81	-37.32	759.38	760.31	752.19	8.12	93.692		
1,300.00	1,300.00	1,311.38	1,311.29	4.46	4.36	92.81	-37.19	758.87	759.79	750.96	8.82	86.102		
1,400.00	1,400.00	1,410.65	1,410.56	4.82	4.71	92.82	-37.34	758.37	759.29	749.76	9.53	79.675		
1,500.00	1,500.00	1,511.44	1,511.34	5.18	5.07	92.83	-37.44	757.90	758.83	748.59	10.24	74.094		
1,600.00	1,600.00	1,619.55	1,619.44	5.53	5.45	92.75	-36.40	756.89	757.87	746.88	10.98	69.008		
1,700.00	1,700.00	1,721.13	1,720.99	5.89	5.81	92.63	-34.72	755.16	756.08	744.38	11.70	64.613		
1,800.00	1,800.00	1,820.98	1,820.82	6.25	6.17	92.54	-33.42	753.40	754.26	741.85	12.42	60.751		
1,900.00	1,900.00	1,917.39	1,917.22	6.61	6.52	92.49	-32.69	751.93	752.70	739.58	13.12	57.379		
2,000.00	2,000.00	2,017.84	2,017.66	6.96	6.88	92.48	-32.52	750.57	751.35	737.51	13.83	54.314		
2,100.00	2,100.00	2,119.33	2,119.14	7.32	7.24	92.49	-32.58	749.07	749.87	735.32	14.55	51.532		
2,200.00	2,200.00	2,221.55	2,221.34	7.68	7.60	92.48	-32.34	747.26	748.09	732.82	15.27	48.980		
2,300.00	2,300.00	2,321.10	2,320.87	8.04	7.96	92.45	-31.89	745.41	746.22	730.23	15.99	46.677		
2,400.00	2,400.00	2,419.86	2,419.61	8.39	8.31	92.44	-31.74	743.68	744.46	727.76	16.70	44.585		
2,500.00	2,500.00	2,519.58	2,519.33	8.75	8.67	92.45	-31.69	742.09	742.86	725.45	17.41	42.666		
2,600.00	2,600.00	2,620.96	2,620.69	9.11	9.03	92.44	-31.51	740.33	741.12	722.99	18.13	40.877		
2,700.00	2,700.00	2,721.78	2,721.49	9.47	9.40	92.41	-31.03	738.45	739.24	720.39	18.85	39.219		
2,800.00	2,800.00	2,821.30	2,820.99	9.83	9.75	92.35	-30.26	736.56	737.31	717.74	19.56	37.688		
2,900.00	2,900.00	2,920.27	2,919.93	10.18	10.11	92.28	-29.23	734.82	735.51	715.24	20.28	36.275		
3,000.00	3,000.00	3,019.43	3,019.07	10.54	10.46	92.20	-28.19	733.20	733.84	712.85	20.99	34.963		
3,100.00	3,100.00	3,118.60	3,118.23	10.90	10.82	92.10	-26.86	731.70	732.28	710.57	21.70	33.743		
3,200.00	3,200.00	3,216.69	3,216.30	11.26	11.17	91.97	-25.12	730.41	730.90	708.49	22.41	32.615		
3,300.00	3,300.00	3,314.82	3,314.40	11.62	11.52	91.81	-23.10	729.41	729.81	706.70	23.12	31.570		
3,400.00	3,400.00	3,415.06	3,414.61	11.97	11.88	91.63	-20.78	728.46	728.80	704.96	23.83	30.582		
3,500.00	3,500.00	3,515.17	3,514.69	12.33	12.23	91.45	-18.42	727.55	727.82	703.27	24.54	29.652		
3,594.10	3,594.10	3,608.88	3,608.36	12.65	12.56	-126.27	-15.94	726.55	727.22	702.02	25.20	28.858		
3,600.00	3,600.00	3,614.41	3,613.88	12.67	12.58	-126.28	-15.79	726.50	727.22	701.98	25.24	28.813		
3,700.00	3,699.96	3,710.33	3,709.76	13.00	12.92	-126.65	-13.02	726.04	728.24	702.33	25.91	28.111		
3,737.73	3,737.66	3,747.95	3,747.37	13.13	13.06	-126.82	-12.02	725.92	728.97	702.80	26.16	27.863		
3,800.00	3,799.88	3,809.01	3,808.41	13.33	13.27	-127.09	-10.54	725.75	730.34	703.76	26.58	27.475		
3,900.00	3,899.79	3,905.36	3,904.74	13.66	13.61	-127.52	-8.24	725.79	732.88	705.63	27.25	26.895		
4,000.00	3,999.71	4,000.73	4,000.07	13.99	13.94	-127.96	-5.70	726.37	736.05	708.14	27.91	26.370		
4,100.00	4,099.62	4,096.69	4,096.01	14.32	14.27	-128.32	-4.18	727.51	739.82	711.24	28.57	25.891		
4,200.00	4,199.53	4,192.95	4,192.24	14.66	14.60	-128.70	-2.43	729.12	744.11	714.87	29.24	25.451		
4,300.00	4,299.45	4,300.32	4,299.55	15.00	14.98	-129.19	0.57	730.98	748.55	718.60	29.95	24.992		
4,400.00	4,399.36	4,401.32	4,400.49	15.33	15.33	-129.70	4.08	731.35	751.68	721.03	30.64	24.529		
4,500.00	4,499.28	4,479.53	4,478.65	15.67	15.60	-130.06	6.38	732.70	756.27	725.04	31.23	24.214		
4,600.00	4,599.19	4,556.25	4,555.24	16.01	15.86	-130.24	6.43	736.96	764.42	732.63	31.78	24.050		
4,700.00	4,699.10	4,650.64	4,649.39	16.35	16.17	-130.36	5.46	743.67	774.14	741.71	32.42	23.876		

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

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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		
4,800.00	4,799.02	4,742.66	4,741.13	16.69	16.48	-130.48	4.55	750.78	784.50	751.45	33.05	23.739		
4,900.00	4,898.93	4,828.41	4,826.48	17.04	16.76	-130.51	2.75	758.80	796.40	762.77	33.62	23.685		
5,000.00	4,998.85	4,921.15	4,918.64	17.38	17.08	-130.48	-0.15	768.75	809.61	775.36	34.25	23.640		
5,100.00	5,098.76	5,031.99	5,028.81	17.72	17.45	-130.41	-3.91	780.37	822.60	787.60	35.00	23.502		
5,200.00	5,198.67	5,145.73	5,142.10	18.07	17.84	-130.41	-7.07	789.83	833.39	797.62	35.77	23.299		
5,300.00	5,298.59	5,270.46	5,266.48	18.41	18.18	-130.45	-9.92	798.71	843.27	806.78	36.50	23.104		
5,400.00	5,398.50	5,371.75	5,367.62	18.76	18.17	-130.51	-12.01	803.71	850.78	813.95	36.84	23.096		
5,500.00	5,498.42	5,474.82	5,470.54	19.11	18.19	-130.50	-15.12	808.28	857.74	820.54	37.20	23.058		
5,600.00	5,598.33	5,585.52	5,581.06	19.45	18.21	-130.40	-19.97	812.40	863.93	826.35	37.58	22.987		
5,700.00	5,698.24	5,698.00	5,693.31	19.80	18.25	-130.20	-26.44	815.09	868.71	830.73	37.97	22.877		
5,800.00	5,798.16	5,809.31	5,804.36	20.15	18.29	-129.92	-34.10	816.28	872.14	833.77	38.37	22.732		
5,900.00	5,898.07	5,917.56	5,912.35	20.50	18.33	-129.66	-41.54	816.13	874.36	835.60	38.76	22.557		
6,000.00	5,997.98	6,025.06	6,019.62	20.85	18.39	-129.43	-48.50	815.09	875.81	836.64	39.17	22.362		
6,100.00	6,097.90	6,135.40	6,129.77	21.20	18.45	-129.28	-54.51	812.85	876.23	836.66	39.57	22.141		
6,200.00	6,197.81	6,239.84	6,234.07	21.55	18.52	-129.22	-58.84	809.77	875.77	835.78	39.99	21.900		
6,300.00	6,297.73	6,347.97	6,342.10	21.90	18.59	-129.27	-61.61	805.77	874.62	834.21	40.41	21.645		
6,400.00	6,397.64	6,459.31	6,453.30	22.25	18.67	-129.44	-62.80	800.43	872.43	831.61	40.83	21.369		
6,500.00	6,497.55	6,578.62	6,572.35	22.61	18.77	-129.64	-63.81	792.59	868.49	827.25	41.24	21.061		
6,600.00	6,597.47	6,703.50	6,696.69	22.96	18.88	-129.86	-64.95	781.15	861.94	820.32	41.63	20.707		
6,700.00	6,697.38	6,804.17	6,796.77	23.31	18.97	-130.03	-66.03	770.32	853.80	811.73	42.07	20.294		
6,800.00	6,797.30	6,900.31	6,892.36	23.66	19.07	-130.19	-67.27	760.19	845.87	803.33	42.54	19.885		
6,900.00	6,897.21	6,993.72	6,985.30	24.02	19.18	-130.34	-68.50	750.89	838.53	795.52	43.02	19.494		
7,000.00	6,997.12	7,089.81	7,080.96	24.37	19.30	-130.49	-69.75	741.92	831.82	788.32	43.49	19.126		
7,100.00	7,097.04	7,202.21	7,192.81	24.73	19.44	-130.67	-71.31	730.83	824.58	780.64	43.94	18.766		
7,200.00	7,196.95	7,311.85	7,301.70	25.08	19.59	-130.84	-73.05	718.17	815.64	771.24	44.40	18.372		
7,300.00	7,296.87	7,409.48	7,398.64	25.43	19.74	-130.99	-74.57	706.69	806.50	761.61	44.89	17.966		
7,400.00	7,396.78	7,506.99	7,495.48	25.79	19.89	-131.14	-76.27	695.44	797.59	752.20	45.39	17.571		
7,500.00	7,496.69	7,603.18	7,591.06	26.14	20.05	-131.30	-77.77	684.66	789.02	743.12	45.90	17.189		
7,600.00	7,596.61	7,698.08	7,685.40	26.50	20.20	-131.45	-79.30	674.52	780.98	734.56	46.42	16.824		
7,700.00	7,696.52	7,799.73	7,786.50	26.86	20.38	-131.61	-81.12	664.11	773.38	726.45	46.93	16.480		
7,800.00	7,796.44	7,901.59	7,887.73	27.21	20.57	-131.76	-83.08	652.99	765.10	717.65	47.44	16.127		
7,900.00	7,896.35	7,995.92	7,981.51	27.57	20.75	-131.88	-85.17	643.01	757.13	709.15	47.98	15.781		
8,000.00	7,996.26	8,099.53	8,084.55	27.92	20.95	-132.00	-87.51	632.48	749.59	701.10	48.50	15.456		
8,100.00	8,096.18	8,195.39	8,179.84	28.28	21.14	-132.10	-90.00	622.30	741.58	692.54	49.04	15.122		
8,200.00	8,196.09	8,298.28	8,282.15	28.64	21.35	-132.20	-92.76	611.85	734.01	684.44	49.57	14.807		
8,300.00	8,296.01	8,394.83	8,378.14	28.99	21.56	-132.29	-95.42	601.77	726.16	676.03	50.13	14.487		
8,400.00	8,395.92	8,500.41	8,483.10	29.35	21.79	-132.36	-98.72	590.78	718.31	667.65	50.66	14.179		
8,500.00	8,495.83	8,593.33	8,575.45	29.71	22.00	-132.40	-101.91	581.09	710.41	659.18	51.23	13.867		
8,600.00	8,595.75	8,689.92	8,671.53	30.06	22.22	-132.42	-105.36	571.73	703.23	651.44	51.80	13.577		
8,700.00	8,695.66	8,788.48	8,769.59	30.42	22.45	-132.44	-109.03	562.48	696.35	643.99	52.36	13.298		
8,800.00	8,795.58	8,879.68	8,860.38	30.78	22.66	-132.44	-112.49	554.59	690.20	637.25	52.94	13.036		
8,900.00	8,895.49	8,970.85	8,951.23	31.14	22.87	-132.43	-115.95	547.83	685.27	631.75	53.52	12.803		
9,000.00	8,995.40	9,062.06	9,042.20	31.50	23.09	-132.42	-119.38	542.22	681.62	627.52	54.10	12.599		
9,100.00	9,095.32	9,158.33	9,138.28	31.85	23.31	-132.41	-122.89	537.20	678.90	624.22	54.68	12.416		
9,200.00	9,195.23	9,256.50	9,236.27	32.21	23.54	-132.43	-126.07	532.42	676.57	621.31	55.26	12.244		
9,300.00	9,295.14	9,350.07	9,329.72	32.57	23.77	-132.48	-128.70	528.39	674.83	618.99	55.84	12.086		
9,400.00	9,395.06	9,446.08	9,425.64	32.93	23.99	-132.54	-131.18	524.98	673.87	617.46	56.42	11.945		
9,455.45	9,450.46	9,497.05	9,476.57	33.13	24.11	-132.58	-132.45	523.49	673.69	616.95	56.74	11.874 CC		
9,500.00	9,494.97	9,537.96	9,517.46	33.29	24.21	-132.61	-133.45	522.54	673.81	616.82	56.99	11.823		
9,523.61	9,518.56	9,559.73	9,539.21	33.37	24.26	-132.62	-134.00	522.12	673.97	616.84	57.13	11.798		
9,600.00	9,594.91	9,630.20	9,609.66	33.64	24.42	-132.61	-135.90	521.19	674.40	616.84	57.56	11.716		
9,682.09	9,677.00	9,705.78	9,685.20	33.93	24.60	84.98	-138.04	520.90	674.48	616.46	58.02	11.625		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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		
9,694.63	9,689.54	9,717.31	9,696.74	33.97	24.62	85.01	-138.35	520.92	674.47	616.38	58.09	11.611		
9,700.00	9,694.91	9,722.26	9,701.68	33.99	24.64	85.02	-138.49	520.93	674.47	616.36	58.12	11.605		
9,800.00	9,794.91	9,818.77	9,798.16	34.33	24.85	85.24	-141.00	521.49	674.83	616.14	58.68	11.500 ES		
9,900.00	9,894.91	9,908.83	9,888.17	34.68	25.05	85.46	-143.54	522.86	676.12	616.90	59.22	11.417		
10,000.00	9,994.91	10,006.01	9,985.27	35.02	25.27	85.75	-146.78	525.39	678.46	618.67	59.79	11.348		
10,032.13	10,027.04	10,038.58	10,017.80	35.13	25.34	85.85	-147.88	526.27	679.25	619.28	59.97	11.326		
10,050.00	10,044.90	10,056.84	10,036.05	35.19	25.39	86.30	-148.46	526.75	679.66	619.58	60.08	11.313		
10,100.00	10,094.75	10,107.73	10,086.89	35.36	25.50	86.66	-149.96	528.02	680.57	620.20	60.37	11.273		
10,150.00	10,144.08	10,157.95	10,137.09	35.53	25.61	87.39	-151.33	529.17	681.24	620.57	60.67	11.229		
10,200.00	10,192.52	10,207.18	10,186.28	35.68	25.73	88.46	-152.64	530.22	681.82	620.87	60.95	11.186		
10,250.00	10,239.69	10,255.10	10,234.19	35.84	25.84	89.81	-153.85	531.16	682.58	621.34	61.24	11.147		
10,300.00	10,285.26	10,301.35	10,280.41	35.98	25.95	91.36	-154.93	531.99	683.81	622.30	61.51	11.117		
10,350.00	10,328.85	10,342.52	10,321.57	36.12	26.04	92.90	-155.90	532.75	685.98	624.21	61.77	11.106		
10,400.00	10,370.15	10,381.62	10,360.65	36.25	26.14	94.44	-156.89	533.55	689.55	627.53	62.02	11.119		
10,450.00	10,408.84	10,418.04	10,397.04	36.37	26.22	95.87	-157.86	534.37	694.90	632.64	62.26	11.162		
10,500.00	10,444.62	10,451.52	10,430.50	36.49	26.30	97.09	-158.78	535.19	702.40	639.91	62.49	11.241		
10,550.00	10,477.22	10,481.80	10,460.75	36.61	26.37	97.99	-159.64	535.97	712.36	649.66	62.70	11.361		
10,600.00	10,506.40	10,508.54	10,487.47	36.73	26.44	98.49	-160.42	536.71	725.05	662.15	62.90	11.527		
10,650.00	10,531.93	10,531.62	10,510.53	36.85	26.49	98.51	-161.12	537.38	740.62	677.54	63.08	11.740		
10,700.00	10,553.61	10,550.90	10,529.79	36.97	26.54	97.96	-161.73	537.95	759.13	695.89	63.24	12.003		
10,750.00	10,571.29	10,566.25	10,545.13	37.10	26.57	96.79	-162.22	538.43	780.55	717.16	63.38	12.315		
10,800.00	10,584.83	10,577.57	10,556.44	37.22	26.60	94.94	-162.59	538.79	804.70	741.21	63.50	12.673		
10,850.00	10,594.12	11,523.85	11,252.21	37.34	28.72	142.74	263.33	339.43	817.66	764.62	53.04	15.415		
10,900.00	10,599.10	11,598.97	11,265.01	37.47	29.19	143.90	335.96	325.33	815.20	762.19	53.01	15.378		
10,932.14	10,600.00	11,665.67	11,270.15	37.55	29.64	144.54	401.90	316.94	814.24	761.05	53.19	15.308		
11,000.00	10,600.00	11,737.69	11,271.73	37.73	30.17	144.97	473.57	310.09	811.99	758.52	53.47	15.187		
11,100.00	10,600.00	11,823.76	11,273.92	38.04	30.87	145.45	559.29	302.65	809.56	755.75	53.81	15.045		
11,177.53	10,600.00	11,889.23	11,275.97	38.33	31.44	145.76	624.59	298.30	808.96	754.83	54.13	14.944		
11,200.00	10,600.00	11,908.15	11,276.66	38.41	31.61	145.84	643.46	297.23	809.01	754.79	54.23	14.919		
11,300.00	10,600.00	11,994.27	11,280.35	38.83	32.41	146.19	729.41	293.22	810.36	755.62	54.74	14.804		
11,400.00	10,600.00	12,088.34	11,285.07	39.30	33.35	146.52	823.30	290.09	813.07	757.68	55.39	14.678		
11,500.00	10,600.00	12,195.41	11,288.96	39.81	34.49	146.71	930.29	288.58	815.74	759.41	56.32	14.483		
11,600.00	10,600.00	12,314.65	11,290.40	40.37	35.84	146.78	1,049.52	287.58	816.70	759.14	57.56	14.189		
11,628.22	10,600.00	12,340.34	11,290.37	40.54	36.15	146.78	1,075.21	287.38	816.66	758.83	57.83	14.121		
11,700.00	10,600.00	12,407.61	11,290.59	40.98	36.96	146.78	1,142.48	286.94	816.88	758.33	58.55	13.952		
11,800.00	10,600.00	12,522.28	11,289.88	41.62	38.41	146.77	1,257.14	285.91	816.22	756.28	59.94	13.617		
11,900.00	10,600.00	12,615.73	11,289.00	42.31	39.65	146.73	1,350.57	285.23	815.42	754.34	61.08	13.351		
12,000.00	10,600.00	12,714.00	11,288.78	43.04	40.99	146.74	1,448.84	284.36	815.14	752.82	62.33	13.078		
12,100.00	10,600.00	12,817.46	11,288.68	43.80	42.45	146.77	1,552.29	283.04	814.75	751.04	63.71	12.788		
12,200.00	10,600.00	12,924.51	11,288.41	44.60	44.02	146.85	1,659.31	280.64	813.70	748.52	65.18	12.484		
12,300.00	10,600.00	13,028.27	11,287.88	45.43	45.58	146.99	1,763.02	277.15	811.83	745.22	66.60	12.189		
12,400.00	10,600.00	13,126.54	11,287.56	46.29	47.10	147.16	1,861.22	273.47	809.91	741.97	67.94	11.921		
12,500.00	10,600.00	13,214.94	11,287.63	47.17	48.48	147.29	1,949.57	270.66	808.66	739.52	69.14	11.696		
12,516.00	10,600.00	13,228.27	11,287.84	47.32	48.69	147.32	1,962.89	270.20	808.64	739.32	69.31	11.666		
12,600.00	10,600.00	13,309.58	11,289.85	48.09	49.99	147.54	2,044.12	267.20	809.03	738.63	70.40	11.491		
12,700.00	10,600.00	13,424.09	11,291.92	49.04	51.85	147.87	2,158.50	262.26	808.66	736.62	72.04	11.225		
12,800.00	10,600.00	13,528.35	11,293.22	50.00	53.58	148.26	2,262.55	255.78	806.80	733.36	73.44	10.986		
12,900.00	10,600.00	13,648.02	11,293.14	50.99	55.59	148.68	2,381.97	248.06	803.76	728.60	75.15	10.695		
13,000.00	10,600.00	13,740.24	11,292.04	52.01	57.15	148.92	2,474.02	242.68	800.06	723.62	76.44	10.466		
13,100.00	10,600.00	13,834.79	11,291.35	53.04	58.77	149.17	2,568.43	237.52	797.00	719.21	77.78	10.246		
13,200.00	10,600.00	13,931.65	11,290.20	54.09	60.42	149.30	2,665.21	234.11	794.54	715.25	79.29	10.020		
13,300.00	10,600.00	14,034.84	11,288.24	55.16	62.19	149.36	2,768.35	231.33	791.89	710.86	81.03	9.773		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 1H - Original Hole - Actuals													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-MWD+IGRF													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,400.00	10,600.00	14,130.19	11,286.71	56.25	63.84	149.43	2,863.65	228.57	789.40	706.82	82.58	9.559		
13,500.00	10,600.00	14,225.48	11,286.00	57.36	65.49	149.53	2,958.89	225.81	787.64	703.52	84.12	9.363		
13,600.00	10,600.00	14,322.51	11,285.81	58.48	67.19	149.69	3,055.87	222.42	786.07	700.41	85.66	9.177		
13,672.26	10,600.00	14,385.54	11,286.72	59.30	68.30	149.87	3,118.82	219.67	785.65	699.11	86.54	9.079		
13,700.00	10,600.00	14,411.06	11,287.35	59.61	68.76	149.96	3,144.31	218.47	785.69	698.80	86.89	9.043		
13,800.00	10,600.00	14,504.45	11,289.89	60.76	70.41	150.25	3,237.59	214.77	786.43	698.22	88.21	8.915		
13,900.00	10,600.00	14,603.74	11,293.41	61.92	72.18	150.59	3,336.73	210.65	787.81	698.19	89.62	8.791		
14,000.00	10,600.00	14,718.02	11,296.32	63.10	74.23	150.96	3,450.86	205.53	788.20	696.85	91.35	8.628		
14,100.00	10,600.00	14,822.35	11,296.85	64.28	76.10	151.20	3,555.10	201.36	787.04	694.05	93.00	8.463		
14,200.00	10,600.00	14,917.99	11,297.56	65.48	77.82	151.41	3,650.68	197.77	786.23	691.78	94.46	8.324		
14,300.00	10,600.00	15,023.11	11,298.49	66.68	79.73	151.64	3,755.72	193.89	785.60	689.48	96.12	8.173		
14,400.00	10,600.00	15,133.16	11,298.23	67.90	81.72	151.88	3,865.67	189.31	783.76	685.85	97.91	8.005		
14,500.00	10,600.00	15,239.19	11,296.48	69.13	83.65	152.03	3,971.61	185.35	780.88	681.18	99.70	7.832		
14,600.00	10,600.00	15,338.28	11,294.48	70.36	85.46	152.15	4,070.61	181.68	777.70	676.34	101.36	7.673		
14,700.00	10,600.00	15,440.70	11,292.55	71.60	87.34	152.32	4,172.93	177.40	774.42	671.37	103.04	7.515		
14,800.00	10,600.00	15,541.71	11,290.70	72.85	89.20	152.52	4,273.81	172.58	770.91	666.27	104.64	7.367		
14,900.00	10,600.00	15,638.73	11,288.89	74.11	90.99	152.73	4,370.70	167.87	767.35	661.20	106.15	7.229		
15,000.00	10,600.00	15,725.54	11,288.45	75.38	92.60	152.93	4,457.41	163.89	765.11	657.73	107.38	7.125		
15,100.00	10,600.00	15,823.96	11,288.92	76.65	94.42	153.21	4,555.72	159.25	763.73	654.93	108.80	7.019		
15,200.00	10,600.00	15,920.77	11,289.73	77.93	96.22	153.50	4,652.42	154.75	762.72	652.55	110.17	6.923		
15,262.98	10,600.00	15,983.69	11,290.35	78.74	97.38	153.68	4,715.28	151.91	762.20	651.13	111.07	6.862 SF		
15,300.00	10,600.00	15,977.00	11,290.28	79.21	97.26	153.66	4,708.59	152.21	763.15	652.64	110.51	6.906		
15,400.00	10,600.00	15,977.00	11,290.28	80.50	97.26	153.66	4,708.59	152.21	774.54	665.89	108.65	7.129		
15,500.00	10,600.00	15,977.00	11,290.28	81.80	97.26	153.66	4,708.59	152.21	798.38	692.52	105.86	7.542		
15,575.11	10,600.00	15,977.00	11,290.28	82.77	97.26	153.66	4,708.59	152.21	823.85	720.51	103.34	7.972		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-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	7.23	7.23	0.50	0.01	93.17	-42.40	764.76	765.94					
100.00	100.00	107.60	107.60	0.52	0.15	93.15	-42.14	764.75	765.91	765.24	0.67	1,141.314		
126.51	126.51	134.21	134.21	0.55	0.19	93.14	-42.00	764.74	765.89	765.15	0.74	1,033.064		
200.00	200.00	204.73	204.73	0.70	0.47	93.10	-41.40	764.90	766.02	764.85	1.17	653.468		
300.00	300.00	305.51	305.50	0.99	0.83	93.00	-40.11	765.32	766.38	764.56	1.82	421.393		
400.00	400.00	407.70	407.68	1.31	1.20	92.87	-38.41	765.45	766.41	763.90	2.51	305.705		
497.54	497.54	504.78	504.74	1.64	1.55	92.75	-36.73	765.47	766.35	763.17	3.18	240.679		
500.00	500.00	507.14	507.09	1.65	1.55	92.74	-36.69	765.47	766.35	763.15	3.20	239.412		
600.00	600.00	605.18	605.14	1.99	1.91	92.68	-35.79	765.73	766.56	762.67	3.90	196.728		
700.00	700.00	712.69	712.65	2.34	2.28	92.66	-35.54	765.50	766.34	761.72	4.62	165.942		
800.00	800.00	815.84	815.78	2.69	2.63	92.69	-35.90	764.43	765.32	760.00	5.32	143.851		
900.00	900.00	917.74	917.67	3.04	2.98	92.73	-36.33	763.18	764.12	758.10	6.02	126.877		
1,000.00	1,000.00	1,017.36	1,017.29	3.40	3.33	92.76	-36.71	761.77	762.72	755.99	6.72	113.465		
1,100.00	1,100.00	1,118.15	1,118.07	3.75	3.68	92.80	-37.15	760.38	761.37	753.94	7.43	102.491		
1,200.00	1,200.00	1,211.84	1,211.75	4.11	4.01	92.81	-37.32	759.38	760.31	752.19	8.12	93.692		
1,300.00	1,300.00	1,311.38	1,311.29	4.46	4.36	92.81	-37.19	758.87	759.79	750.96	8.82	86.102		
1,400.00	1,400.00	1,410.65	1,410.56	4.82	4.71	92.82	-37.34	758.37	759.29	749.76	9.53	79.675		
1,500.00	1,500.00	1,511.44	1,511.34	5.18	5.07	92.83	-37.44	757.90	758.83	748.59	10.24	74.094		
1,600.00	1,600.00	1,619.55	1,619.44	5.53	5.45	92.75	-36.40	756.89	757.87	746.88	10.98	69.008		
1,700.00	1,700.00	1,721.13	1,720.99	5.89	5.81	92.63	-34.72	755.16	756.08	744.38	11.70	64.613		
1,800.00	1,800.00	1,820.98	1,820.82	6.25	6.17	92.54	-33.42	753.40	754.26	741.85	12.42	60.751		
1,900.00	1,900.00	1,917.39	1,917.22	6.61	6.52	92.49	-32.69	751.93	752.70	739.58	13.12	57.379		
2,000.00	2,000.00	2,017.84	2,017.66	6.96	6.88	92.48	-32.52	750.57	751.35	737.51	13.83	54.314		
2,100.00	2,100.00	2,119.33	2,119.14	7.32	7.24	92.49	-32.58	749.07	749.87	735.32	14.55	51.532		
2,200.00	2,200.00	2,221.55	2,221.34	7.68	7.60	92.48	-32.34	747.26	748.09	732.82	15.27	48.980		
2,300.00	2,300.00	2,321.10	2,320.87	8.04	7.96	92.45	-31.89	745.41	746.22	730.23	15.99	46.677		
2,400.00	2,400.00	2,419.86	2,419.61	8.39	8.31	92.44	-31.74	743.68	744.46	727.76	16.70	44.585		
2,500.00	2,500.00	2,519.58	2,519.33	8.75	8.67	92.45	-31.69	742.09	742.86	725.45	17.41	42.666		
2,600.00	2,600.00	2,620.96	2,620.69	9.11	9.03	92.44	-31.51	740.33	741.12	722.99	18.13	40.877		
2,700.00	2,700.00	2,721.78	2,721.49	9.47	9.40	92.41	-31.03	738.45	739.24	720.39	18.85	39.219		
2,800.00	2,800.00	2,821.30	2,820.99	9.83	9.75	92.35	-30.26	736.56	737.31	717.74	19.56	37.688		
2,900.00	2,900.00	2,920.27	2,919.93	10.18	10.11	92.28	-29.23	734.82	735.51	715.24	20.28	36.275		
3,000.00	3,000.00	3,019.43	3,019.07	10.54	10.46	92.20	-28.19	733.20	733.84	712.85	20.99	34.963		
3,100.00	3,100.00	3,118.60	3,118.23	10.90	10.82	92.10	-26.86	731.70	732.28	710.57	21.70	33.743		
3,200.00	3,200.00	3,216.69	3,216.30	11.26	11.17	91.97	-25.12	730.41	730.90	708.49	22.41	32.615		
3,300.00	3,300.00	3,314.82	3,314.40	11.62	11.52	91.81	-23.10	729.41	729.81	706.70	23.12	31.570		
3,400.00	3,400.00	3,415.06	3,414.61	11.97	11.88	91.63	-20.78	728.46	728.80	704.96	23.83	30.582		
3,500.00	3,500.00	3,515.17	3,514.69	12.33	12.23	91.45	-18.42	727.55	727.82	703.27	24.54	29.652		
3,594.10	3,594.10	3,608.88	3,608.36	12.65	12.56	-126.27	-15.94	726.55	727.22	702.02	25.20	28.858		
3,600.00	3,600.00	3,614.41	3,613.88	12.67	12.58	-126.28	-15.79	726.50	727.22	701.98	25.24	28.813		
3,700.00	3,699.96	3,710.33	3,709.76	13.00	12.92	-126.65	-13.02	726.04	728.24	702.33	25.91	28.111		
3,737.73	3,737.66	3,747.95	3,747.37	13.13	13.06	-126.82	-12.02	725.92	728.97	702.80	26.16	27.863		
3,800.00	3,799.88	3,809.01	3,808.41	13.33	13.27	-127.09	-10.54	725.75	730.34	703.76	26.58	27.475		
3,900.00	3,899.79	3,905.36	3,904.74	13.66	13.61	-127.52	-8.24	725.79	732.88	705.63	27.25	26.895		
4,000.00	3,999.71	4,000.73	4,000.07	13.99	13.94	-127.96	-5.70	726.37	736.05	708.14	27.91	26.370		
4,100.00	4,099.62	4,096.69	4,096.01	14.32	14.27	-128.32	-4.18	727.51	739.82	711.24	28.57	25.891		
4,200.00	4,199.53	4,192.95	4,192.24	14.66	14.60	-128.70	-2.43	729.12	744.11	714.87	29.24	25.451		
4,300.00	4,299.45	4,300.32	4,299.55	15.00	14.98	-129.19	0.57	730.98	748.55	718.60	29.95	24.992		
4,400.00	4,399.36	4,401.32	4,400.49	15.33	15.33	-129.70	4.08	731.35	751.68	721.03	30.64	24.529		
4,500.00	4,499.28	4,479.53	4,478.65	15.67	15.60	-130.06	6.38	732.70	756.27	725.04	31.23	24.214		
4,600.00	4,599.19	4,556.25	4,555.24	16.01	15.86	-130.24	6.43	736.96	764.42	732.63	31.78	24.050		
4,700.00	4,699.10	4,650.64	4,649.39	16.35	16.17	-130.36	5.46	743.67	774.14	741.71	32.42	23.876		

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

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-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		
4,800.00	4,799.02	4,742.66	4,741.13	16.69	16.48	-130.48	4.55	750.78	784.50	751.45	33.05	23.739		
4,900.00	4,898.93	4,828.41	4,826.48	17.04	16.76	-130.51	2.75	758.80	796.40	762.77	33.62	23.685		
5,000.00	4,998.85	4,921.15	4,918.64	17.38	17.08	-130.48	-0.15	768.75	809.61	775.36	34.25	23.640		
5,100.00	5,098.76	5,031.99	5,028.81	17.72	17.45	-130.41	-3.91	780.37	822.60	787.60	35.00	23.502		
5,200.00	5,198.67	5,151.96	5,148.33	18.07	17.78	-130.42	-7.17	790.14	833.24	797.51	35.73	23.321		
5,300.00	5,298.59	5,266.92	5,263.05	18.41	17.99	-130.49	-9.38	797.15	841.92	805.62	36.30	23.192		
5,400.00	5,398.50	5,371.72	5,367.70	18.76	17.99	-130.55	-11.52	802.31	849.42	812.76	36.66	23.172		
5,500.00	5,498.42	5,474.79	5,470.62	19.11	18.01	-130.54	-14.63	806.88	856.38	819.35	37.02	23.130		
5,600.00	5,598.33	5,585.47	5,581.12	19.45	18.04	-130.44	-19.47	811.01	862.56	825.15	37.41	23.056		
5,700.00	5,698.24	5,697.94	5,693.36	19.80	18.08	-130.23	-25.95	813.70	867.34	829.53	37.81	22.941		
5,800.00	5,798.16	5,809.24	5,804.39	20.15	18.12	-129.96	-33.60	814.89	870.77	832.56	38.20	22.792		
5,900.00	5,898.07	5,917.47	5,912.37	20.50	18.18	-129.70	-41.04	814.74	872.99	834.39	38.61	22.613		
6,000.00	5,997.98	6,024.95	6,019.62	20.85	18.23	-129.47	-48.00	813.71	874.44	835.42	39.01	22.414		
6,100.00	6,097.90	6,135.27	6,129.75	21.20	18.30	-129.31	-54.01	811.46	874.86	835.43	39.43	22.189		
6,200.00	6,197.81	6,239.69	6,234.03	21.55	18.37	-129.25	-58.34	808.38	874.40	834.56	39.85	21.944		
6,300.00	6,297.73	6,347.80	6,342.03	21.90	18.45	-129.31	-61.12	804.39	873.25	832.98	40.27	21.685		
6,400.00	6,397.64	6,459.10	6,453.20	22.25	18.53	-129.48	-62.31	799.05	871.07	830.37	40.69	21.406		
6,500.00	6,497.55	6,578.36	6,572.20	22.61	18.63	-129.68	-63.31	791.22	867.13	826.02	41.11	21.094		
6,600.00	6,597.47	6,703.18	6,696.48	22.96	18.75	-129.90	-64.46	779.79	860.59	819.09	41.50	20.736		
6,700.00	6,697.38	6,803.92	6,796.63	23.31	18.85	-130.07	-65.53	768.96	852.45	810.50	41.95	20.320		
6,800.00	6,797.30	6,900.07	6,892.24	23.66	18.96	-130.22	-66.78	758.82	844.52	802.10	42.42	19.908		
6,900.00	6,897.21	6,993.50	6,985.19	24.02	19.07	-130.37	-68.00	749.52	837.18	794.28	42.90	19.514		
7,000.00	6,997.12	7,089.55	7,080.82	24.37	19.19	-130.53	-69.25	740.55	830.47	787.09	43.38	19.143		
7,100.00	7,097.04	7,201.92	7,192.63	24.73	19.34	-130.71	-70.81	729.47	823.24	779.40	43.84	18.780		
7,200.00	7,196.95	7,311.59	7,301.55	25.08	19.49	-130.88	-72.55	716.81	814.30	770.00	44.30	18.383		
7,300.00	7,296.87	7,409.22	7,398.49	25.43	19.64	-131.04	-74.08	705.32	805.16	760.37	44.79	17.975		
7,400.00	7,396.78	7,506.74	7,495.34	25.79	19.80	-131.18	-75.77	694.08	796.25	750.96	45.30	17.578		
7,500.00	7,496.69	7,602.94	7,590.92	26.14	19.96	-131.34	-77.28	683.29	787.68	741.87	45.81	17.194		
7,600.00	7,596.61	7,697.85	7,685.28	26.50	20.12	-131.50	-78.80	673.16	779.65	733.31	46.33	16.827		
7,700.00	7,696.52	7,799.46	7,786.34	26.86	20.30	-131.65	-80.63	662.74	772.04	725.20	46.85	16.480		
7,800.00	7,796.44	7,901.35	7,887.60	27.21	20.49	-131.80	-82.59	651.63	763.76	716.40	47.36	16.126		
7,900.00	7,896.35	7,995.70	7,981.40	27.57	20.67	-131.92	-84.67	641.64	755.80	707.89	47.90	15.778		
8,000.00	7,996.26	8,099.26	8,084.40	27.92	20.88	-132.05	-87.01	631.12	748.27	699.84	48.43	15.452		
8,100.00	8,096.18	8,195.17	8,179.73	28.28	21.07	-132.15	-89.51	620.93	740.25	691.27	48.97	15.115		
8,200.00	8,196.09	8,298.02	8,282.01	28.64	21.29	-132.25	-92.26	610.49	732.68	683.18	49.51	14.799		
8,300.00	8,296.01	8,394.61	8,378.03	28.99	21.50	-132.34	-94.93	600.40	724.83	674.77	50.06	14.478		
8,400.00	8,395.92	8,500.15	8,482.95	29.35	21.73	-132.41	-98.22	589.42	716.99	666.38	50.60	14.169		
8,500.00	8,495.83	8,593.11	8,575.35	29.71	21.95	-132.45	-101.41	579.72	709.09	657.91	51.18	13.856		
8,600.00	8,595.75	8,689.71	8,671.43	30.06	22.17	-132.47	-104.86	570.36	701.91	650.16	51.75	13.564		
8,700.00	8,695.66	8,788.27	8,769.48	30.42	22.40	-132.49	-108.53	561.11	695.02	642.71	52.32	13.285		
8,800.00	8,795.58	8,879.50	8,860.31	30.78	22.62	-132.49	-111.99	553.21	688.86	635.97	52.90	13.022		
8,900.00	8,895.49	8,970.68	8,951.17	31.14	22.84	-132.48	-115.45	546.45	683.94	630.46	53.48	12.788		
9,000.00	8,995.40	9,061.91	9,042.16	31.50	23.05	-132.47	-118.89	540.84	680.28	626.22	54.06	12.584		
9,100.00	9,095.32	9,158.18	9,138.23	31.85	23.28	-132.46	-122.40	535.82	677.56	622.92	54.64	12.401		
9,200.00	9,195.23	9,256.34	9,236.22	32.21	23.52	-132.48	-125.58	531.04	675.23	620.01	55.22	12.227		
9,300.00	9,295.14	9,349.93	9,329.69	32.57	23.74	-132.53	-128.21	527.00	673.49	617.69	55.80	12.069		
9,400.00	9,395.06	9,445.94	9,425.61	32.93	23.97	-132.60	-130.69	523.60	672.53	616.15	56.39	11.927		
9,455.53	9,450.54	9,496.99	9,476.63	33.13	24.09	-132.63	-131.95	522.10	672.35	615.64	56.71	11.856 CC		
9,500.00	9,494.97	9,537.85	9,517.45	33.29	24.19	-132.66	-132.96	521.15	672.47	615.50	56.96	11.805		
9,523.61	9,518.56	9,559.61	9,539.21	33.37	24.24	-132.68	-133.50	520.73	672.63	615.53	57.10	11.780		
9,600.00	9,594.91	9,630.10	9,609.67	33.64	24.41	-132.66	-135.41	519.80	673.07	615.53	57.54	11.698		
9,682.09	9,677.00	9,705.69	9,685.23	33.93	24.58	84.93	-137.54	519.51	673.14	615.14	58.00	11.606		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-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		
9,694.93	9,689.84	9,717.51	9,697.04	33.97	24.61	84.96	-137.87	519.53	673.13	615.06	58.07	11.592		
9,700.00	9,694.91	9,722.17	9,701.70	33.99	24.62	84.97	-137.99	519.54	673.13	615.03	58.10	11.586		
9,800.00	9,794.91	9,818.69	9,798.18	34.33	24.84	85.19	-140.51	520.09	673.48	614.82	58.66	11.480 ES		
9,900.00	9,894.91	9,908.78	9,888.22	34.68	25.05	85.41	-143.04	521.47	674.77	615.57	59.20	11.398		
10,000.00	9,994.91	10,005.96	9,985.32	35.02	25.26	85.70	-146.29	523.99	677.10	617.33	59.77	11.328		
10,032.13	10,027.04	10,038.52	10,017.85	35.13	25.34	85.80	-147.39	524.88	677.90	617.93	59.96	11.305		
10,050.00	10,044.90	10,056.78	10,036.10	35.19	25.38	86.25	-147.97	525.36	678.30	618.24	60.07	11.292		
10,100.00	10,094.75	10,107.66	10,086.94	35.36	25.50	86.61	-149.47	526.63	679.22	618.85	60.36	11.252		
10,150.00	10,144.08	10,157.89	10,137.13	35.53	25.61	87.34	-150.83	527.78	679.87	619.21	60.66	11.208		
10,200.00	10,192.52	10,207.11	10,186.32	35.68	25.73	88.42	-152.14	528.83	680.45	619.50	60.95	11.165		
10,250.00	10,239.69	10,255.03	10,234.22	35.84	25.84	89.77	-153.35	529.77	681.19	619.96	61.23	11.125		
10,300.00	10,285.26	10,301.27	10,280.44	35.98	25.95	91.33	-154.43	530.60	682.40	620.89	61.51	11.094		
10,350.00	10,328.85	10,342.46	10,321.61	36.12	26.05	92.87	-155.41	531.36	684.56	622.80	61.77	11.083 SF		
10,400.00	10,370.15	10,381.56	10,360.69	36.25	26.14	94.42	-156.40	532.16	688.11	626.10	62.02	11.096		
10,450.00	10,408.84	10,417.98	10,397.09	36.37	26.23	95.85	-157.37	532.98	693.45	631.19	62.26	11.138		
10,500.00	10,444.62	10,451.46	10,430.55	36.49	26.31	97.08	-158.29	533.80	700.93	638.45	62.49	11.217		
10,550.00	10,477.22	10,481.74	10,460.81	36.61	26.38	97.99	-159.15	534.58	710.89	648.19	62.70	11.337		
10,600.00	10,506.40	10,508.49	10,487.53	36.73	26.44	98.49	-159.93	535.32	723.57	660.67	62.90	11.503		
10,650.00	10,531.93	10,531.57	10,510.59	36.85	26.50	98.51	-160.63	535.98	739.14	676.06	63.09	11.716		
10,700.00	10,553.61	10,550.85	10,529.86	36.97	26.54	97.96	-161.23	536.56	757.66	694.41	63.25	11.979		
10,750.00	10,571.29	10,566.20	10,545.19	37.10	26.58	96.79	-161.73	537.04	779.08	715.69	63.39	12.291		
10,800.00	10,584.83	10,577.52	10,556.50	37.22	26.61	94.95	-162.10	537.39	803.25	739.75	63.50	12.649		
10,850.00	10,594.12	10,584.84	10,563.81	37.34	26.63	92.39	-162.34	537.63	829.93	766.34	63.60	13.050		
10,900.00	10,599.10	10,588.02	10,566.99	37.47	26.63	89.12	-162.44	537.73	858.80	795.14	63.66	13.490		
10,932.14	10,600.00	10,587.85	10,566.82	37.55	26.63	86.65	-162.44	537.73	878.34	814.64	63.70	13.790		
11,000.00	10,600.00	10,585.67	10,564.64	37.73	26.63	86.46	-162.37	537.66	921.86	858.11	63.75	14.460		
11,100.00	10,600.00	10,582.47	10,561.44	38.04	26.62	86.20	-162.26	537.55	990.98	927.15	63.83	15.526		
11,200.00	10,600.00	10,579.30	10,558.28	38.41	26.61	85.94	-162.15	537.45	1,065.00	1,001.11	63.89	16.669		
11,300.00	10,600.00	10,576.22	10,555.20	38.83	26.61	85.68	-162.05	537.35	1,142.98	1,079.03	63.95	17.873		
11,400.00	10,600.00	10,573.16	10,552.14	39.30	26.60	85.43	-161.95	537.26	1,224.15	1,160.15	64.00	19.127		
11,500.00	10,600.00	10,570.13	10,549.11	39.81	26.59	85.18	-161.85	537.16	1,307.93	1,243.88	64.04	20.422		
11,600.00	10,600.00	10,567.12	10,546.11	40.37	26.58	84.93	-161.76	537.06	1,393.84	1,329.75	64.08	21.750		
11,700.00	10,600.00	10,564.14	10,543.13	40.98	26.58	84.68	-161.66	536.97	1,481.51	1,417.39	64.12	23.106		
11,800.00	10,600.00	10,561.18	10,540.17	41.62	26.57	84.44	-161.56	536.88	1,570.65	1,506.50	64.15	24.484		
11,900.00	10,600.00	10,558.24	10,537.24	42.31	26.56	84.19	-161.47	536.79	1,661.02	1,596.84	64.18	25.880		
12,000.00	10,600.00	10,555.33	10,534.33	43.04	26.55	83.95	-161.38	536.70	1,752.43	1,688.22	64.21	27.292		
12,100.00	10,600.00	10,552.45	10,531.45	43.80	26.55	83.72	-161.28	536.61	1,844.73	1,780.49	64.24	28.718		
12,200.00	10,600.00	10,549.58	10,528.59	44.60	26.54	83.48	-161.19	536.52	1,937.79	1,873.53	64.26	30.154		
12,300.00	10,600.00	10,546.74	10,525.75	45.43	26.53	83.25	-161.10	536.44	2,031.50	1,967.21	64.29	31.600		
12,400.00	10,600.00	10,543.93	10,522.94	46.29	26.53	83.01	-161.01	536.35	2,125.78	2,061.47	64.31	33.053		
12,500.00	10,600.00	10,541.13	10,520.15	47.17	26.52	82.78	-160.93	536.27	2,220.56	2,156.22	64.34	34.513		
12,600.00	10,600.00	10,538.36	10,517.38	48.09	26.51	82.56	-160.84	536.19	2,315.78	2,251.41	64.36	35.979		
12,700.00	10,600.00	10,535.61	10,514.63	49.04	26.51	82.33	-160.75	536.10	2,411.37	2,346.98	64.39	37.449		
12,800.00	10,600.00	10,532.89	10,511.91	50.00	26.50	82.11	-160.67	536.02	2,507.31	2,442.90	64.42	38.924		
12,900.00	10,600.00	10,530.18	10,509.20	50.99	26.49	81.88	-160.59	535.94	2,603.55	2,539.11	64.44	40.401		
13,000.00	10,600.00	10,527.50	10,506.52	52.01	26.49	81.66	-160.50	535.86	2,700.06	2,635.59	64.47	41.881		
13,100.00	10,600.00	10,524.83	10,503.86	53.04	26.48	81.45	-160.42	535.79	2,796.82	2,732.32	64.50	43.364		
13,200.00	10,600.00	10,522.19	10,501.22	54.09	26.48	81.23	-160.34	535.71	2,893.79	2,829.26	64.52	44.848		
13,300.00	10,600.00	10,519.57	10,498.60	55.16	26.47	81.02	-160.26	535.63	2,990.95	2,926.40	64.55	46.333		
13,400.00	10,600.00	10,516.97	10,496.00	56.25	26.46	80.80	-160.18	535.56	3,088.30	3,023.72	64.58	47.819		
13,500.00	10,600.00	10,514.39	10,493.43	57.36	26.46	80.59	-160.10	535.49	3,185.81	3,121.19	64.61	49.306		
13,600.00	10,600.00	10,511.83	10,490.87	58.48	26.45	80.38	-160.03	535.41	3,283.46	3,218.82	64.64	50.793		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 1H - Pilot Hole - Actuals													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-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)			
13,700.00	10,600.00	10,509.29	10,488.33	59.61	26.44	80.18	-159.95	535.34	3,381.25	3,316.58	64.68	52.280		
13,800.00	10,600.00	10,506.76	10,485.81	60.76	26.44	79.97	-159.88	535.27	3,479.17	3,414.46	64.71	53.767		
13,900.00	10,600.00	10,504.26	10,483.31	61.92	26.43	79.77	-159.80	535.20	3,577.19	3,512.45	64.74	55.254		
14,000.00	10,600.00	10,501.78	10,480.83	63.10	26.43	79.57	-159.73	535.13	3,675.32	3,610.55	64.78	56.740		
14,100.00	10,600.00	10,499.31	10,478.36	64.28	26.42	79.37	-159.66	535.06	3,773.55	3,708.74	64.81	58.224		
14,200.00	10,600.00	10,496.87	10,475.92	65.48	26.41	79.17	-159.58	534.99	3,871.87	3,807.02	64.85	59.708		
14,300.00	10,600.00	10,494.44	10,473.49	66.68	26.41	78.97	-159.51	534.93	3,970.27	3,905.38	64.88	61.191		
14,400.00	10,600.00	10,492.03	10,471.09	67.90	26.40	78.78	-159.44	534.86	4,068.74	4,003.82	64.92	62.672		
14,500.00	10,600.00	10,489.64	10,468.70	69.13	26.40	78.59	-159.37	534.80	4,167.29	4,102.33	64.96	64.152		
14,600.00	10,600.00	10,487.26	10,466.32	70.36	26.39	78.39	-159.30	534.73	4,265.90	4,200.90	65.00	65.630		
14,700.00	10,600.00	10,484.90	10,463.96	71.60	26.39	78.20	-159.24	534.67	4,364.57	4,299.53	65.04	67.107		
14,800.00	10,600.00	10,482.38	10,461.44	72.85	26.38	78.00	-159.16	534.60	4,463.30	4,398.22	65.08	68.581		
14,900.00	10,600.00	10,479.87	10,458.94	74.11	26.37	77.80	-159.09	534.53	4,562.09	4,496.96	65.12	70.054		
15,000.00	10,600.00	10,477.38	10,456.44	75.38	26.37	77.60	-159.02	534.47	4,660.92	4,595.76	65.17	71.525		
15,100.00	10,600.00	10,474.89	10,453.96	76.65	26.36	77.40	-158.95	534.40	4,759.80	4,694.60	65.21	72.993		
15,200.00	10,600.00	10,472.41	10,451.48	77.93	26.36	77.20	-158.88	534.33	4,858.73	4,793.48	65.25	74.459		
15,300.00	10,600.00	10,469.95	10,449.02	79.21	26.35	77.01	-158.81	534.27	4,957.70	4,892.40	65.30	75.923		
15,400.00	10,600.00	10,467.50	10,446.57	80.50	26.34	76.81	-158.74	534.21	5,056.71	4,991.36	65.35	77.384		
15,500.00	10,600.00	10,465.05	10,444.13	81.80	26.34	76.62	-158.67	534.14	5,155.75	5,090.36	65.39	78.843		
15,575.11	10,600.00	10,463.23	10,442.30	82.77	26.33	76.47	-158.62	534.10	5,230.16	5,164.73	65.43	79.936		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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	8.33	8.33	0.50	0.01	92.95	-42.04	814.72	815.80					
100.00	100.00	116.55	116.54	0.52	0.19	92.94	-41.86	814.10	815.22	814.52	0.70	1,164.018		
200.00	200.00	224.73	224.72	0.70	0.37	92.91	-41.36	812.40	813.63	812.58	1.05	772.009		
300.00	300.00	326.23	326.19	0.99	0.75	92.85	-40.39	810.26	811.48	809.77	1.71	473.991		
400.00	400.00	426.53	426.45	1.31	1.10	92.78	-39.20	808.00	809.17	806.79	2.39	339.064		
500.00	500.00	523.70	523.60	1.65	1.45	92.71	-38.20	805.91	806.98	803.91	3.07	263.163		
600.00	600.00	619.71	619.58	1.99	1.79	92.63	-36.90	804.32	805.25	801.50	3.75	214.721		
700.00	700.00	716.70	716.55	2.34	2.13	92.51	-35.26	803.19	804.02	799.57	4.44	181.038		
800.00	800.00	818.38	818.21	2.69	2.48	92.42	-33.87	802.03	802.81	797.66	5.15	155.936		
900.00	900.00	920.47	920.29	3.04	2.84	92.37	-33.09	800.60	801.38	795.53	5.86	136.795		
1,000.00	1,000.00	1,019.89	1,019.69	3.40	3.18	92.31	-32.27	799.01	799.75	793.19	6.56	121.921		
1,100.00	1,100.00	1,117.92	1,117.72	3.75	3.52	92.28	-31.83	797.72	798.42	791.16	7.26	110.019		
1,200.00	1,200.00	1,215.73	1,215.52	4.11	3.86	92.28	-31.78	796.59	797.26	789.31	7.95	100.228		
1,300.00	1,300.00	1,309.41	1,309.20	4.46	4.18	92.28	-31.76	795.97	796.61	787.97	8.64	92.233		
1,318.38	1,318.38	1,326.29	1,326.08	4.53	4.24	92.29	-31.81	795.95	796.59	787.83	8.76	90.925		
1,400.00	1,400.00	1,409.61	1,409.39	4.82	4.42	92.31	-32.13	795.96	796.61	787.38	9.23	86.275		
1,500.00	1,500.00	1,515.08	1,514.87	5.18	4.61	92.31	-32.12	795.37	796.05	786.27	9.78	81.395		
1,600.00	1,600.00	1,617.54	1,617.32	5.53	4.70	92.29	-31.74	794.25	794.94	784.72	10.22	77.779		
1,700.00	1,700.00	1,717.16	1,716.93	5.89	4.76	92.27	-31.41	793.04	793.71	783.08	10.64	74.611		
1,800.00	1,800.00	1,812.51	1,812.28	6.25	4.84	92.29	-31.74	792.21	792.86	781.78	11.08	71.585		
1,900.00	1,900.00	1,910.61	1,910.37	6.61	4.94	92.35	-32.46	791.79	792.46	780.92	11.54	68.685		
2,000.00	2,000.00	2,010.33	2,010.09	6.96	5.07	92.41	-33.31	791.26	791.97	779.94	12.02	65.869		
2,022.46	2,022.46	2,030.40	2,030.16	7.04	5.10	92.42	-33.47	791.23	791.93	779.80	12.13	65.276 CC		
2,100.00	2,100.00	2,101.65	2,101.41	7.32	5.20	92.46	-33.96	791.56	792.31	779.80	12.51	63.321		
2,200.00	2,200.00	2,201.42	2,201.17	7.68	5.36	92.49	-34.43	792.40	793.17	780.14	13.03	60.869		
2,300.00	2,300.00	2,303.53	2,303.28	8.04	5.55	92.53	-35.01	793.04	793.83	780.25	13.57	58.485		
2,400.00	2,400.00	2,403.07	2,402.82	8.39	5.74	92.58	-35.76	793.56	794.38	780.25	14.13	56.227		
2,500.00	2,500.00	2,503.02	2,502.76	8.75	5.95	92.62	-36.29	794.22	795.06	780.36	14.70	54.093		
2,600.00	2,600.00	2,604.41	2,604.14	9.11	6.18	92.65	-36.82	794.70	795.56	780.28	15.28	52.049		
2,700.00	2,700.00	2,704.54	2,704.27	9.47	6.42	92.66	-36.98	795.13	796.00	780.12	15.88	50.129		
2,800.00	2,800.00	2,804.67	2,804.40	9.83	6.66	92.66	-36.94	795.56	796.42	779.94	16.48	48.321		
2,900.00	2,900.00	2,907.09	2,906.82	10.18	6.92	92.63	-36.63	795.89	796.73	779.63	17.10	46.600		
3,000.00	3,000.00	3,007.39	3,007.12	10.54	7.18	92.60	-36.17	795.95	796.77	779.06	17.71	44.979		
3,100.00	3,100.00	3,107.67	3,107.40	10.90	7.45	92.57	-35.79	796.03	796.84	778.50	18.34	43.450		
3,200.00	3,200.00	3,204.54	3,204.26	11.26	7.71	92.54	-35.39	796.25	797.04	778.08	18.96	42.032		
3,300.00	3,300.00	3,304.89	3,304.61	11.62	7.99	92.51	-34.97	796.71	797.48	777.88	19.60	40.680		
3,400.00	3,400.00	3,409.03	3,408.75	11.97	8.29	92.48	-34.47	796.87	797.62	777.36	20.26	39.369		
3,500.00	3,500.00	3,508.03	3,507.76	12.33	8.58	92.45	-34.07	796.85	797.58	776.67	20.91	38.150		
3,500.79	3,500.79	3,508.83	3,508.55	12.34	8.58	-125.02	-34.06	796.85	797.58	776.67	20.91	38.141		
3,600.00	3,600.00	3,608.43	3,608.16	12.67	8.88	-125.10	-33.70	796.80	798.01	776.47	21.54	37.040 ES		
3,700.00	3,699.96	3,706.66	3,706.38	13.00	9.17	-125.27	-33.27	796.92	799.63	777.46	22.17	36.074		
3,737.73	3,737.66	3,745.42	3,745.14	13.13	9.29	-125.36	-33.11	796.96	800.49	778.09	22.41	35.725		
3,800.00	3,799.88	3,808.65	3,808.37	13.33	9.48	-125.52	-32.92	796.93	801.95	779.15	22.80	35.167		
3,900.00	3,899.79	3,907.29	3,907.01	13.66	9.79	-125.79	-32.47	796.87	804.30	780.86	23.44	34.318		
4,000.00	3,999.71	4,004.35	4,004.07	13.99	10.09	-126.07	-31.81	797.16	807.02	782.95	24.07	33.529		
4,100.00	4,099.62	4,103.79	4,103.51	14.32	10.40	-126.35	-31.17	797.62	809.92	785.20	24.71	32.770		
4,200.00	4,199.53	4,202.82	4,202.53	14.66	10.72	-126.63	-30.57	798.13	812.89	787.52	25.36	32.050		
4,300.00	4,299.45	4,296.35	4,296.06	15.00	11.01	-126.89	-29.93	798.89	816.19	790.19	26.00	31.397		
4,400.00	4,399.36	4,383.16	4,382.84	15.33	11.29	-127.14	-29.37	800.71	820.79	794.19	26.60	30.854		
4,500.00	4,499.28	4,468.33	4,467.95	15.67	11.57	-127.35	-29.08	804.01	827.17	799.97	27.20	30.412		
4,600.00	4,599.19	4,554.68	4,554.17	16.01	11.85	-127.54	-29.14	808.75	835.18	807.39	27.80	30.047		
4,700.00	4,699.10	4,640.43	4,639.69	16.35	12.13	-127.72	-29.38	814.93	844.91	816.52	28.39	29.765		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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		
4,800.00	4,799.02	4,740.00	4,738.95	16.69	12.46	-127.88	-30.23	822.76	855.30	826.25	29.05	29.442		
4,900.00	4,898.93	4,830.15	4,828.75	17.04	12.76	-127.95	-32.07	830.43	866.32	836.66	29.66	29.204		
5,000.00	4,998.85	4,924.83	4,922.99	17.38	13.08	-127.97	-34.69	839.23	878.14	847.83	30.30	28.977		
5,100.00	5,098.76	5,024.90	5,022.56	17.72	13.42	-128.00	-37.51	848.83	890.24	859.26	30.98	28.736		
5,200.00	5,198.67	5,139.51	5,136.70	18.07	13.82	-128.05	-40.33	858.75	901.42	869.68	31.74	28.400		
5,300.00	5,298.59	5,248.79	5,245.68	18.41	14.19	-128.14	-42.43	866.57	911.10	878.63	32.47	28.060		
5,400.00	5,398.50	5,348.69	5,345.36	18.76	14.54	-128.22	-44.29	873.02	920.09	886.94	33.15	27.755		
5,500.00	5,498.42	5,436.69	5,433.10	19.11	14.84	-128.25	-46.57	879.30	929.76	895.99	33.77	27.532		
5,600.00	5,598.33	5,524.47	5,520.50	19.45	15.15	-128.24	-49.42	886.92	940.94	906.55	34.39	27.365		
5,700.00	5,698.24	5,620.28	5,615.83	19.80	15.49	-128.23	-52.54	895.90	952.82	917.77	35.05	27.186		
5,800.00	5,798.16	5,717.74	5,712.81	20.15	15.84	-128.23	-55.60	905.24	964.91	929.19	35.72	27.011		
5,900.00	5,898.07	5,814.42	5,808.97	20.50	16.19	-128.23	-58.60	914.73	977.24	940.85	36.39	26.852		
6,000.00	5,997.98	5,910.63	5,904.64	20.85	16.55	-128.24	-61.53	924.44	989.85	952.78	37.06	26.706		
6,100.00	6,097.90	6,007.56	6,001.00	21.20	16.90	-128.24	-64.43	934.53	1,002.75	965.01	37.74	26.570		
6,200.00	6,197.81	6,108.53	6,101.38	21.55	17.27	-128.25	-67.40	945.08	1,015.72	977.27	38.44	26.421		
6,300.00	6,297.73	6,212.38	6,204.65	21.90	17.66	-128.28	-70.18	955.54	1,028.31	989.14	39.17	26.255		
6,400.00	6,397.64	6,313.08	6,304.85	22.25	18.03	-128.31	-72.62	965.34	1,040.55	1,000.68	39.87	26.099		
6,500.00	6,497.55	6,412.88	6,404.16	22.61	18.40	-128.36	-74.80	974.99	1,052.75	1,012.18	40.57	25.950		
6,600.00	6,597.47	6,506.09	6,496.89	22.96	18.75	-128.40	-76.97	984.19	1,065.14	1,023.91	41.23	25.836		
6,700.00	6,697.38	6,598.68	6,588.91	23.31	19.10	-128.38	-80.10	993.95	1,078.19	1,036.30	41.88	25.742		
6,800.00	6,797.30	6,695.69	6,685.24	23.66	19.47	-128.31	-84.40	1,004.62	1,091.67	1,049.10	42.57	25.644		
6,900.00	6,897.21	6,795.92	6,784.76	24.02	19.86	-128.25	-88.78	1,015.65	1,105.17	1,061.89	43.28	25.536		
7,000.00	6,997.12	6,897.24	6,885.39	24.37	20.24	-128.19	-93.02	1,026.63	1,118.50	1,074.50	43.99	25.424		
7,100.00	7,097.04	7,000.10	6,987.59	24.73	20.64	-128.14	-97.07	1,037.51	1,131.57	1,086.85	44.72	25.303		
7,200.00	7,196.95	7,097.96	7,084.85	25.08	21.02	-128.11	-100.78	1,047.77	1,144.55	1,099.13	45.42	25.201		
7,300.00	7,296.87	7,200.44	7,186.67	25.43	21.41	-128.04	-105.36	1,058.38	1,157.40	1,111.26	46.14	25.083		
7,400.00	7,396.78	7,299.16	7,284.74	25.79	21.80	-127.95	-110.32	1,068.52	1,170.16	1,123.31	46.85	24.978		
7,500.00	7,496.69	7,398.54	7,383.47	26.14	22.18	-127.85	-115.42	1,078.72	1,182.92	1,135.36	47.56	24.874		
7,600.00	7,596.61	7,496.85	7,481.12	26.50	22.56	-127.76	-120.53	1,088.83	1,195.70	1,147.44	48.26	24.777		
7,700.00	7,696.52	7,593.72	7,577.34	26.86	22.94	-127.67	-125.52	1,098.94	1,208.63	1,159.68	48.95	24.689		
7,800.00	7,796.44	7,691.89	7,674.83	27.21	23.33	-127.59	-130.41	1,109.32	1,221.72	1,172.06	49.66	24.603		
7,900.00	7,896.35	7,791.80	7,774.07	27.57	23.72	-127.52	-135.14	1,119.89	1,234.79	1,184.42	50.37	24.513		
8,000.00	7,996.26	7,889.63	7,871.25	27.92	24.11	-127.46	-139.65	1,130.20	1,247.83	1,196.76	51.08	24.431		
8,100.00	8,096.18	7,986.26	7,967.21	28.28	24.49	-127.39	-144.22	1,140.61	1,261.12	1,209.35	51.77	24.360		
8,200.00	8,196.09	8,085.20	8,065.46	28.64	24.88	-127.33	-148.78	1,151.34	1,274.47	1,221.99	52.48	24.284		
8,300.00	8,296.01	8,183.99	8,163.55	28.99	25.28	-127.27	-153.34	1,162.07	1,287.84	1,234.65	53.19	24.210		
8,400.00	8,395.92	8,285.25	8,264.12	29.35	25.68	-127.22	-157.97	1,173.04	1,301.19	1,247.26	53.92	24.131		
8,500.00	8,495.83	8,385.74	8,363.92	29.71	26.08	-127.15	-162.75	1,183.71	1,314.32	1,259.67	54.64	24.052		
8,600.00	8,595.75	8,483.60	8,461.12	30.06	26.47	-127.09	-167.46	1,194.12	1,327.47	1,272.12	55.35	23.983		
8,700.00	8,695.66	8,581.27	8,558.11	30.42	26.86	-127.04	-172.01	1,204.62	1,340.74	1,284.68	56.06	23.917		
8,800.00	8,795.58	8,680.38	8,656.53	30.78	27.26	-126.98	-176.63	1,215.34	1,354.07	1,297.30	56.77	23.851		
8,900.00	8,895.49	8,780.50	8,755.96	31.14	27.66	-126.92	-181.36	1,226.13	1,367.36	1,309.87	57.50	23.782		
9,000.00	8,995.40	8,879.96	8,854.73	31.50	28.06	-126.87	-186.03	1,236.78	1,380.60	1,322.38	58.21	23.716		
9,100.00	9,095.32	8,981.60	8,956.67	31.85	28.51	-126.83	-190.78	1,248.31	1,393.45	1,334.44	59.01	23.614		
9,200.00	9,195.23	9,118.73	9,092.23	32.21	29.00	-126.84	-194.98	1,259.52	1,404.77	1,344.88	59.88	23.458		
9,300.00	9,295.14	9,228.66	9,201.83	32.57	29.42	-126.86	-198.05	1,267.52	1,414.54	1,353.88	60.66	23.321		
9,400.00	9,395.06	9,327.01	9,299.88	32.93	29.80	-126.88	-200.87	1,274.56	1,424.20	1,362.83	61.36	23.209		
9,500.00	9,494.97	9,427.61	9,400.18	33.29	30.18	-126.91	-203.63	1,281.79	1,433.90	1,371.81	62.09	23.095		
9,523.61	9,518.56	9,451.68	9,424.18	33.37	30.27	-126.91	-204.35	1,283.50	1,436.17	1,373.91	62.26	23.068		
9,600.00	9,594.91	9,523.95	9,496.23	33.64	30.55	-126.98	-206.67	1,288.71	1,443.14	1,380.36	62.78	22.986		
9,682.09	9,677.00	9,606.98	9,578.98	33.93	30.86	90.50	-209.64	1,294.82	1,449.74	1,386.37	63.37	22.877		
9,700.00	9,694.91	9,625.67	9,597.61	33.99	30.94	90.53	-210.38	1,296.17	1,451.04	1,387.54	63.50	22.850		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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		
9,800.00	9,794.91	9,743.27	9,714.81	34.33	31.38	90.75	-216.09	1,303.97	1,457.74	1,393.45	64.29	22.673		
9,900.00	9,894.91	9,848.26	9,819.42	34.68	31.78	91.01	-222.73	1,309.95	1,463.54	1,398.52	65.02	22.508		
10,000.00	9,994.91	9,941.57	9,912.32	35.02	32.13	91.28	-229.67	1,315.33	1,469.47	1,403.78	65.70	22.368		
10,032.13	10,027.04	9,972.83	9,943.41	35.13	32.25	91.37	-232.21	1,317.20	1,471.46	1,405.54	65.92	22.322		
10,050.00	10,044.90	9,990.17	9,960.67	35.19	32.32	91.74	-233.66	1,318.24	1,472.58	1,406.54	66.04	22.298		
10,100.00	10,094.75	10,038.12	10,008.34	35.36	32.50	91.71	-237.85	1,321.14	1,475.85	1,409.47	66.38	22.234		
10,150.00	10,144.08	10,084.85	10,054.80	35.53	32.68	91.80	-242.02	1,324.01	1,479.38	1,412.67	66.70	22.178		
10,200.00	10,192.52	10,129.17	10,098.85	35.68	32.85	91.98	-246.01	1,326.78	1,483.24	1,416.23	67.01	22.134		
10,250.00	10,239.69	10,169.53	10,138.96	35.84	33.01	92.18	-249.64	1,329.41	1,487.62	1,420.33	67.29	22.107		
10,300.00	10,285.26	10,208.14	10,177.32	35.98	33.16	92.41	-253.08	1,332.07	1,492.65	1,425.09	67.56	22.095		
10,350.00	10,328.85	10,247.89	10,216.81	36.12	33.31	92.68	-256.57	1,334.89	1,498.40	1,430.58	67.82	22.094		
10,400.00	10,370.15	10,285.46	10,254.15	36.25	33.46	92.93	-259.80	1,337.60	1,504.97	1,436.90	68.07	22.109		
10,450.00	10,408.84	10,321.65	10,290.12	36.37	33.60	93.13	-262.86	1,340.23	1,512.49	1,444.17	68.31	22.141		
10,500.00	10,444.62	10,356.34	10,324.60	36.49	33.74	93.26	-265.72	1,342.72	1,521.03	1,452.49	68.55	22.190		
10,550.00	10,477.22	10,387.56	10,355.64	36.61	33.86	93.23	-268.24	1,344.93	1,530.74	1,461.98	68.76	22.262		
10,600.00	10,506.40	10,414.79	10,382.71	36.73	33.97	92.98	-270.40	1,346.84	1,541.71	1,472.76	68.96	22.358		
10,650.00	10,531.93	10,437.85	10,405.65	36.85	34.06	92.50	-272.21	1,348.44	1,554.05	1,484.92	69.13	22.479		
10,700.00	10,553.61	10,456.78	10,424.48	36.97	34.13	91.74	-273.69	1,349.74	1,567.80	1,498.51	69.29	22.626		
10,750.00	10,571.29	10,471.43	10,439.05	37.10	34.19	90.68	-274.83	1,350.74	1,582.96	1,513.53	69.43	22.799		
10,800.00	10,584.83	10,481.67	10,449.23	37.22	34.23	89.31	-275.62	1,351.44	1,599.49	1,529.94	69.55	22.998		
10,850.00	10,594.12	10,487.39	10,454.92	37.34	34.25	87.62	-276.06	1,351.83	1,617.31	1,547.66	69.65	23.220		
10,900.00	10,599.10	10,488.54	10,456.07	37.47	34.26	85.62	-276.15	1,351.90	1,636.29	1,566.56	69.73	23.466		
10,932.14	10,600.00	10,486.86	10,454.39	37.55	34.25	84.17	-276.02	1,351.79	1,649.02	1,579.24	69.77	23.634		
11,000.00	10,600.00	10,481.28	10,448.84	37.73	34.23	83.96	-275.59	1,351.41	1,677.43	1,607.57	69.86	24.012		
11,100.00	10,600.00	10,473.03	10,440.64	38.04	34.20	83.65	-274.95	1,350.85	1,723.29	1,653.28	70.01	24.615		
11,200.00	10,600.00	12,169.04	11,238.63	38.41	39.96	111.17	750.72	1,471.52	1,749.74	1,676.60	73.14	23.924		
11,300.00	10,600.00	12,253.12	11,238.70	38.83	40.61	111.23	834.64	1,466.27	1,744.63	1,670.47	74.16	23.524		
11,400.00	10,600.00	12,322.00	11,238.74	39.30	41.19	111.26	903.44	1,462.96	1,740.88	1,665.68	75.20	23.150		
11,500.00	10,600.00	12,395.94	11,239.14	39.81	41.86	111.30	977.33	1,460.57	1,738.77	1,662.40	76.36	22.770		
11,600.00	10,600.00	12,481.06	11,240.26	40.37	42.68	111.34	1,062.43	1,458.89	1,738.06	1,660.37	77.68	22.374		
11,659.19	10,600.00	12,533.17	11,240.72	40.73	43.20	111.36	1,114.53	1,458.21	1,737.92	1,659.39	78.52	22.132		
11,700.00	10,600.00	12,567.29	11,241.18	40.98	43.55	111.38	1,148.65	1,457.86	1,737.99	1,658.89	79.10	21.971		
11,800.00	10,600.00	12,653.73	11,243.01	41.62	44.48	111.43	1,235.07	1,457.28	1,738.81	1,658.21	80.60	21.573		
11,900.00	10,600.00	12,745.69	11,245.40	42.31	45.51	111.50	1,326.99	1,457.12	1,740.25	1,658.03	82.22	21.166		
12,000.00	10,600.00	12,850.86	11,248.22	43.04	46.75	111.58	1,432.13	1,457.09	1,741.88	1,657.85	84.03	20.728		
12,100.00	10,600.00	12,962.25	11,251.99	43.80	48.11	111.70	1,543.45	1,455.95	1,742.84	1,656.87	85.97	20.272		
12,200.00	10,600.00	13,080.94	11,254.40	44.60	49.62	111.78	1,662.10	1,454.40	1,743.05	1,654.98	88.07	19.792		
12,300.00	10,600.00	13,191.21	11,254.64	45.43	51.08	111.80	1,772.36	1,452.75	1,742.41	1,652.21	90.20	19.318		
12,400.00	10,600.00	13,300.13	11,254.66	46.29	52.56	111.82	1,881.25	1,450.33	1,741.00	1,648.62	92.38	18.847		
12,500.00	10,600.00	13,399.87	11,253.36	47.17	53.95	111.79	1,980.97	1,448.72	1,739.68	1,645.13	94.55	18.399		
12,600.00	10,600.00	13,528.30	11,251.02	48.09	55.79	111.74	2,109.34	1,445.73	1,737.54	1,640.46	97.08	17.897		
12,700.00	10,600.00	13,638.23	11,249.40	49.04	57.40	111.74	2,219.18	1,441.43	1,734.01	1,634.53	99.47	17.432		
12,800.00	10,600.00	13,756.48	11,247.51	50.00	59.16	111.73	2,337.28	1,436.00	1,729.82	1,627.83	101.99	16.961		
12,900.00	10,600.00	13,850.36	11,245.48	50.99	60.59	111.72	2,431.04	1,431.54	1,725.27	1,620.94	104.33	16.537		
13,000.00	10,600.00	13,934.23	11,244.93	52.01	61.89	111.74	2,514.81	1,427.62	1,721.34	1,614.77	106.57	16.152		
13,100.00	10,600.00	14,019.67	11,245.40	53.04	63.22	111.79	2,600.18	1,424.03	1,718.30	1,609.45	108.85	15.786		
13,200.00	10,600.00	14,125.74	11,246.31	54.09	64.89	111.86	2,706.15	1,419.74	1,715.53	1,604.16	111.37	15.404		
13,300.00	10,600.00	14,222.32	11,247.57	55.16	66.43	111.95	2,802.63	1,415.51	1,712.62	1,598.80	113.82	15.047		
13,400.00	10,600.00	14,303.58	11,248.13	56.25	67.74	111.99	2,883.84	1,412.75	1,710.39	1,594.25	116.14	14.727		
13,500.00	10,600.00	14,380.15	11,247.89	57.36	68.99	111.99	2,960.40	1,411.47	1,709.39	1,590.95	118.44	14.433		
13,522.62	10,600.00	14,397.43	11,247.77	57.61	69.27	111.99	2,977.68	1,411.37	1,709.35	1,590.39	118.96	14.369		
13,600.00	10,600.00	14,475.79	11,246.71	58.48	70.55	111.95	3,056.03	1,411.25	1,709.36	1,588.35	121.02	14.125		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 2H - Original Hole - Actual													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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		
13,700.00	10,600.00	14,585.48	11,244.53	59.61	72.36	111.88	3,165.70	1,410.98	1,709.06	1,585.25	123.81	13.803		
13,800.00	10,600.00	14,705.75	11,242.52	60.76	74.37	111.83	3,285.93	1,409.12	1,707.63	1,580.88	126.75	13.472		
13,900.00	10,600.00	14,794.47	11,242.24	61.92	75.86	111.83	3,374.63	1,407.25	1,706.21	1,576.90	129.30	13.195		
14,000.00	10,600.00	14,892.72	11,242.54	63.10	77.52	111.86	3,472.86	1,405.17	1,705.02	1,573.04	131.97	12.919		
14,100.00	10,600.00	14,977.90	11,243.28	64.28	78.96	111.89	3,558.02	1,403.76	1,704.46	1,569.96	134.49	12.673		
14,200.00	10,600.00	15,085.73	11,244.24	65.48	80.80	111.93	3,665.84	1,402.17	1,704.09	1,566.78	137.31	12.410		
14,300.00	10,600.00	15,185.52	11,244.56	66.68	82.52	111.96	3,765.61	1,400.37	1,703.19	1,563.14	140.06	12.161		
14,342.95	10,600.00	15,217.86	11,244.71	67.21	83.07	111.96	3,797.95	1,399.97	1,703.06	1,561.95	141.11	12.069		
14,400.00	10,600.00	15,266.85	11,245.08	67.90	83.92	111.98	3,846.94	1,399.68	1,703.28	1,560.70	142.58	11.946		
14,492.59	10,600.00	15,367.51	11,246.04	69.04	85.66	112.01	3,947.58	1,398.49	1,703.18	1,557.94	145.25	11.726		
14,500.00	10,600.00	15,372.66	11,246.10	69.13	85.75	112.01	3,952.74	1,398.43	1,703.19	1,557.76	145.42	11.712		
14,600.00	10,600.00	15,442.99	11,247.18	70.36	86.97	112.04	4,023.05	1,398.28	1,704.21	1,556.41	147.80	11.531		
14,700.00	10,600.00	15,552.13	11,248.56	71.60	88.88	112.07	4,132.19	1,398.85	1,705.83	1,555.11	150.73	11.317		
14,800.00	10,600.00	15,669.04	11,249.69	72.85	90.93	112.10	4,249.09	1,398.71	1,706.76	1,552.98	153.77	11.099		
14,900.00	10,600.00	15,784.85	11,249.92	74.11	92.96	112.11	4,364.89	1,397.50	1,706.51	1,549.68	156.82	10.882		
15,000.00	10,600.00	15,899.22	11,249.70	75.38	94.99	112.11	4,479.25	1,395.60	1,705.57	1,545.70	159.86	10.669		
15,100.00	10,600.00	16,021.43	11,248.74	76.65	97.16	112.11	4,601.41	1,392.40	1,703.51	1,540.50	163.01	10.450		
15,200.00	10,600.00	16,123.39	11,247.04	77.93	98.98	112.09	4,703.31	1,389.29	1,700.71	1,534.76	165.95	10.248		
15,258.96	10,600.00	16,134.00	11,246.86	78.68	99.17	112.09	4,713.91	1,388.96	1,699.72	1,532.66	167.06	10.174		
15,300.00	10,600.00	16,134.00	11,246.86	79.21	99.17	112.09	4,713.91	1,388.96	1,700.22	1,532.56	167.66	10.141		
15,400.00	10,600.00	16,134.00	11,246.86	80.50	99.17	112.09	4,713.91	1,388.96	1,705.57	1,536.78	168.78	10.105 SF		
15,500.00	10,600.00	16,134.00	11,246.86	81.80	99.17	112.09	4,713.91	1,388.96	1,716.73	1,547.29	169.44	10.132		
15,575.11	10,600.00	16,134.00	11,246.86	82.77	99.17	112.09	4,713.91	1,388.96	1,728.87	1,559.24	169.63	10.192		

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 124-MWD+IGRF, 10589-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	0.00	90.67	-30.34	2,613.83	2,614.02					
100.00	100.00	126.79	126.79	0.52	0.18	90.66	-29.93	2,612.92	2,613.36	2,612.66	0.70	3,731.988		
200.00	200.00	233.34	233.32	0.70	0.57	90.64	-29.11	2,611.45	2,611.99	2,610.72	1.27	2,052.316		
300.00	300.00	337.56	337.52	0.99	0.95	90.62	-28.10	2,609.47	2,610.07	2,608.14	1.93	1,351.196		
400.00	400.00	422.86	422.80	1.31	1.25	90.60	-27.14	2,608.12	2,608.48	2,605.92	2.56	1,019.483		
500.00	500.00	504.60	504.53	1.65	1.55	90.58	-26.30	2,607.36	2,607.54	2,604.35	3.19	818.021		
600.00	600.00	593.51	593.44	1.99	1.86	90.56	-25.49	2,607.05	2,607.17	2,603.33	3.85	677.593		
647.36	647.36	636.64	636.56	2.16	2.01	90.55	-25.11	2,607.02	2,607.14	2,602.98	4.16	626.063		
700.00	700.00	685.50	685.43	2.34	2.18	90.54	-24.72	2,607.06	2,607.18	2,602.66	4.52	576.913		
800.00	800.00	778.33	778.26	2.69	2.51	90.53	-24.12	2,607.33	2,607.46	2,602.26	5.20	501.909		
900.00	900.00	873.48	873.40	3.04	2.84	90.52	-23.46	2,607.82	2,607.98	2,602.10	5.88	443.536		
1,000.00	1,000.00	979.45	979.37	3.40	3.21	90.50	-22.72	2,608.38	2,608.50	2,601.90	6.61	394.863		
1,100.00	1,100.00	1,094.70	1,094.61	3.75	3.62	90.49	-22.14	2,608.40	2,608.50	2,601.13	7.37	353.905		
1,200.00	1,200.00	1,194.00	1,193.92	4.11	3.98	90.48	-21.77	2,608.20	2,608.29	2,600.21	8.08	322.760		
1,300.00	1,300.00	1,294.39	1,294.30	4.46	4.33	90.47	-21.30	2,608.05	2,608.14	2,599.34	8.80	296.509		
1,400.00	1,400.00	1,395.68	1,395.59	4.82	4.70	90.46	-20.93	2,607.81	2,607.90	2,598.39	9.51	274.090		
1,500.00	1,500.00	1,495.81	1,495.72	5.18	5.06	90.45	-20.40	2,607.57	2,607.65	2,597.42	10.23	254.914		
1,600.00	1,600.00	1,600.55	1,600.46	5.53	5.43	90.43	-19.57	2,607.23	2,607.33	2,596.36	10.96	237.860		
1,700.00	1,700.00	1,698.77	1,698.66	5.89	5.78	90.40	-18.35	2,606.84	2,606.92	2,595.25	11.67	223.374		
1,800.00	1,800.00	1,796.93	1,796.82	6.25	6.13	90.37	-16.76	2,606.53	2,606.60	2,594.22	12.38	210.552		
1,900.00	1,900.00	1,893.15	1,893.02	6.61	6.48	90.33	-15.20	2,606.34	2,606.38	2,593.30	13.08	199.235		
2,000.00	2,000.00	1,992.90	1,992.77	6.96	6.84	90.30	-13.86	2,606.20	2,606.24	2,592.44	13.80	188.902		
2,100.00	2,100.00	2,093.08	2,092.94	7.32	7.20	90.28	-12.73	2,606.07	2,606.11	2,591.59	14.51	179.568		
2,200.00	2,200.00	2,194.40	2,194.24	7.68	7.56	90.25	-11.55	2,605.89	2,605.92	2,590.69	15.23	171.060		
2,300.00	2,300.00	2,293.05	2,292.90	8.04	7.91	90.23	-10.45	2,605.75	2,605.77	2,589.83	15.95	163.420		
2,400.00	2,400.00	2,395.99	2,395.83	8.39	8.28	90.20	-9.24	2,605.56	2,605.58	2,588.91	16.67	156.284		
2,500.00	2,500.00	2,499.56	2,499.39	8.75	8.65	90.17	-7.94	2,605.23	2,605.26	2,587.86	17.40	149.717		
2,600.00	2,600.00	2,602.86	2,602.68	9.11	9.02	90.14	-6.57	2,604.76	2,604.80	2,586.67	18.13	143.676		
2,700.00	2,700.00	2,705.84	2,705.64	9.47	9.39	90.11	-5.07	2,604.17	2,604.23	2,585.37	18.86	138.104		
2,800.00	2,800.00	2,810.43	2,810.22	9.83	9.77	90.07	-3.19	2,603.43	2,603.52	2,583.93	19.59	132.898		
2,900.00	2,900.00	2,909.46	2,909.22	10.18	10.12	90.02	-0.91	2,602.63	2,602.70	2,582.40	20.30	128.186		
3,000.00	3,000.00	3,009.07	3,008.79	10.54	10.48	89.97	1.48	2,601.88	2,601.95	2,580.93	21.02	123.782		
3,100.00	3,100.00	3,106.14	3,105.83	10.90	10.83	89.92	3.85	2,601.19	2,601.25	2,579.52	21.73	119.721		
3,200.00	3,200.00	3,200.28	3,199.94	11.26	11.17	89.87	6.11	2,600.69	2,600.72	2,578.29	22.42	115.977		
3,300.00	3,300.00	3,294.77	3,294.40	11.62	11.51	89.81	8.41	2,600.39	2,600.41	2,577.29	23.12	112.464		
3,400.00	3,400.00	3,391.21	3,390.81	11.97	11.86	89.76	10.78	2,600.26	2,600.28	2,576.46	23.83	109.133		
3,486.63	3,486.63	3,476.25	3,475.83	12.28	12.16	89.72	12.87	2,600.23	2,600.26	2,575.82	24.44	106.382 CC		
3,500.00	3,500.00	3,489.39	3,488.97	12.33	12.21	89.71	13.20	2,600.23	2,600.26	2,575.72	24.54	105.970		
3,600.00	3,600.00	3,589.12	3,588.66	12.67	12.57	-127.83	15.65	2,600.23	2,600.81	2,575.57	25.24	103.053 ES		
3,700.00	3,699.96	3,688.05	3,687.56	13.00	12.92	-127.91	18.08	2,600.25	2,602.46	2,576.54	25.92	100.407		
3,737.73	3,737.66	3,725.28	3,724.78	13.13	13.06	-127.95	18.98	2,600.27	2,603.37	2,577.19	26.18	99.456		
3,800.00	3,799.88	3,787.29	3,786.77	13.33	13.28	-128.02	20.43	2,600.31	2,605.02	2,578.42	26.60	97.922		
3,900.00	3,899.79	3,890.80	3,890.26	13.66	13.65	-128.14	22.43	2,600.32	2,607.61	2,580.30	27.30	95.503		
4,000.00	3,999.71	3,994.12	3,993.57	13.99	14.02	-128.25	23.81	2,600.15	2,610.03	2,582.02	28.01	93.198		
4,100.00	4,099.62	4,092.19	4,091.64	14.32	14.37	-128.34	24.78	2,600.00	2,612.46	2,583.77	28.69	91.061		
4,200.00	4,199.53	4,191.41	4,190.86	14.66	14.73	-128.43	25.50	2,599.91	2,614.95	2,585.57	29.38	89.009		
4,300.00	4,299.45	4,294.51	4,293.96	15.00	15.10	-128.51	25.95	2,599.77	2,617.41	2,587.33	30.08	87.008		
4,400.00	4,399.36	4,395.61	4,395.06	15.33	15.46	-128.59	26.37	2,599.49	2,619.73	2,588.95	30.78	85.112		
4,500.00	4,499.28	4,477.17	4,476.62	15.67	15.74	-128.65	26.56	2,599.44	2,622.29	2,590.89	31.40	83.508		
4,600.00	4,599.19	4,546.25	4,545.69	16.01	15.98	-128.69	26.22	2,600.17	2,625.93	2,593.95	31.97	82.132		
4,700.00	4,699.10	4,627.01	4,626.42	16.35	16.25	-128.73	25.15	2,602.06	2,630.77	2,598.19	32.58	80.740		
4,800.00	4,799.02	4,701.34	4,700.70	16.69	16.50	-128.74	23.65	2,604.44	2,636.44	2,603.28	33.16	79.511		

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

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 124-MWD+IGRF, 10589-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	4,898.93	4,773.99	4,773.28	17.04	16.73	-128.75	21.78	2,607.19	2,642.79	2,609.07	33.72	78.363		
5,000.00	4,998.85	4,840.62	4,839.78	17.38	16.95	-128.75	19.57	2,610.55	2,650.35	2,616.09	34.27	77.347		
5,100.00	5,098.76	4,911.01	4,909.97	17.72	17.18	-128.74	16.81	2,615.03	2,659.18	2,624.36	34.82	76.374		
5,200.00	5,198.67	5,001.86	5,000.53	18.07	17.49	-128.72	13.24	2,621.45	2,668.74	2,633.28	35.45	75.272		
5,300.00	5,298.59	5,099.04	5,097.40	18.41	17.81	-128.71	9.97	2,628.40	2,678.39	2,642.27	36.12	74.157		
5,400.00	5,398.50	5,233.95	5,231.98	18.76	18.27	-128.73	6.35	2,637.11	2,687.36	2,650.42	36.94	72.746		
5,500.00	5,498.42	5,355.37	5,353.19	19.11	18.69	-128.75	3.69	2,643.72	2,695.35	2,657.64	37.71	71.476		
5,600.00	5,598.33	5,461.39	5,459.06	19.45	19.05	-128.78	1.57	2,648.94	2,702.81	2,664.39	38.42	70.352		
5,700.00	5,698.24	5,564.78	5,562.31	19.80	19.40	-128.80	-0.41	2,653.83	2,710.09	2,670.98	39.12	69.280		
5,800.00	5,798.16	5,669.26	5,666.67	20.15	19.76	-128.83	-2.30	2,658.62	2,717.23	2,677.41	39.82	68.232		
5,900.00	5,898.07	5,769.89	5,767.19	20.50	20.11	-128.86	-4.04	2,663.06	2,724.20	2,683.69	40.52	67.239		
6,000.00	5,997.98	5,865.65	5,862.84	20.85	20.44	-128.89	-5.70	2,667.42	2,731.31	2,690.12	41.19	66.312		
6,100.00	6,097.90	5,967.12	5,964.18	21.20	20.79	-128.92	-7.36	2,672.08	2,738.46	2,696.57	41.89	65.378		
6,200.00	6,197.81	6,071.86	6,068.81	21.55	21.16	-128.95	-8.96	2,676.73	2,745.46	2,702.87	42.60	64.450		
6,300.00	6,297.73	6,178.32	6,175.16	21.90	21.53	-128.99	-10.43	2,681.24	2,752.27	2,708.95	43.32	63.536		
6,400.00	6,397.64	6,284.17	6,280.92	22.25	21.90	-129.04	-11.66	2,685.45	2,758.82	2,714.79	44.04	62.647		
6,500.00	6,497.55	6,389.19	6,385.86	22.61	22.27	-129.08	-12.77	2,689.42	2,765.18	2,720.43	44.75	61.787		
6,600.00	6,597.47	6,489.90	6,486.49	22.96	22.62	-129.12	-13.88	2,693.12	2,771.44	2,725.98	45.45	60.973		
6,700.00	6,697.38	6,597.21	6,593.73	23.31	22.99	-129.17	-14.92	2,696.88	2,777.53	2,731.35	46.18	60.145		
6,800.00	6,797.30	6,704.83	6,701.29	23.66	23.37	-129.22	-15.80	2,700.37	2,783.37	2,736.46	46.91	59.334		
6,900.00	6,897.21	6,810.21	6,806.62	24.02	23.74	-129.27	-16.62	2,703.47	2,788.91	2,741.28	47.63	58.553		
7,000.00	6,997.12	6,916.67	6,913.03	24.37	24.11	-129.32	-17.42	2,706.49	2,794.34	2,745.99	48.36	57.787		
7,100.00	7,097.04	7,021.51	7,017.84	24.73	24.48	-129.37	-18.25	2,709.11	2,799.45	2,750.38	49.08	57.044		
7,200.00	7,196.95	7,129.36	7,125.66	25.08	24.86	-129.42	-19.13	2,711.66	2,804.42	2,754.62	49.81	56.307		
7,300.00	7,296.87	7,238.15	7,234.42	25.43	25.24	-129.48	-20.07	2,713.87	2,809.05	2,758.51	50.54	55.580		
7,400.00	7,396.78	7,339.23	7,335.48	25.79	25.59	-129.52	-21.17	2,715.75	2,813.51	2,762.27	51.24	54.904		
7,500.00	7,496.69	7,440.87	7,437.09	26.14	25.94	-129.55	-22.70	2,717.60	2,817.92	2,765.97	51.95	54.242		
7,600.00	7,596.61	7,544.65	7,540.83	26.50	26.30	-129.58	-24.53	2,719.38	2,822.21	2,769.54	52.66	53.589		
7,700.00	7,696.52	7,641.85	7,638.00	26.86	26.64	-129.60	-26.49	2,721.05	2,826.49	2,773.14	53.35	52.977		
7,800.00	7,796.44	7,738.86	7,734.98	27.21	26.98	-129.62	-28.69	2,722.82	2,830.88	2,776.83	54.04	52.383		
7,900.00	7,896.35	7,835.91	7,831.98	27.57	27.31	-129.63	-31.06	2,724.70	2,835.37	2,780.64	54.73	51.805		
8,000.00	7,996.26	7,934.06	7,930.06	27.92	27.65	-129.64	-33.79	2,726.69	2,839.93	2,784.51	55.43	51.238		
8,100.00	8,096.18	8,033.82	8,029.76	28.28	28.00	-129.64	-36.77	2,728.78	2,844.56	2,788.43	56.13	50.681		
8,200.00	8,196.09	8,140.33	8,136.20	28.64	28.37	-129.64	-40.09	2,730.89	2,849.07	2,792.22	56.85	50.113		
8,300.00	8,296.01	8,241.86	8,237.65	28.99	28.72	-129.64	-43.60	2,732.70	2,853.36	2,795.80	57.56	49.572		
8,400.00	8,395.92	8,339.17	8,334.87	29.35	29.06	-129.62	-47.29	2,734.51	2,857.72	2,799.47	58.25	49.058		
8,500.00	8,495.83	8,437.95	8,433.57	29.71	29.40	-129.61	-51.11	2,736.42	2,862.15	2,803.20	58.95	48.551		
8,600.00	8,595.75	8,537.56	8,533.08	30.06	29.75	-129.59	-54.88	2,738.36	2,866.60	2,806.95	59.65	48.054		
8,700.00	8,695.66	8,639.34	8,634.77	30.42	30.11	-129.58	-58.81	2,740.33	2,871.03	2,810.67	60.36	47.562		
8,800.00	8,795.58	8,740.92	8,736.25	30.78	30.46	-129.57	-62.67	2,742.22	2,875.39	2,814.32	61.08	47.080		
8,900.00	8,895.49	8,841.87	8,837.12	31.14	30.82	-129.56	-66.34	2,744.04	2,879.70	2,817.92	61.78	46.609		
9,000.00	8,995.40	8,949.53	8,944.72	31.50	31.19	-129.56	-69.75	2,745.81	2,883.87	2,821.35	62.52	46.128		
9,100.00	9,095.32	9,057.58	9,052.70	31.85	31.57	-129.56	-73.00	2,747.27	2,887.76	2,824.50	63.25	45.653		
9,200.00	9,195.23	9,173.90	9,168.96	32.21	31.97	-129.55	-76.92	2,748.46	2,891.31	2,827.29	64.02	45.163		
9,300.00	9,295.14	9,284.28	9,279.28	32.57	32.36	-129.55	-80.50	2,748.85	2,894.18	2,829.41	64.76	44.690		
9,400.00	9,395.06	9,378.02	9,372.95	32.93	32.68	-129.55	-83.82	2,749.21	2,897.07	2,831.63	65.44	44.268		
9,500.00	9,494.97	9,469.66	9,464.52	33.29	33.00	-129.53	-87.59	2,749.84	2,900.25	2,834.13	66.12	43.863		
9,523.61	9,518.56	9,491.31	9,486.14	33.37	33.08	-129.52	-88.68	2,750.04	2,901.04	2,834.76	66.28	43.769		
9,600.00	9,594.91	9,560.76	9,555.48	33.64	33.32	-129.50	-92.47	2,750.77	2,903.23	2,836.44	66.79	43.465		
9,682.09	9,677.00	9,667.29	9,661.84	33.93	33.69	88.05	-98.34	2,751.83	2,904.51	2,837.05	67.46	43.057		
9,700.00	9,694.91	9,699.24	9,693.74	33.99	33.81	88.09	-100.17	2,751.87	2,904.50	2,836.86	67.63	42.946		
9,800.00	9,794.91	9,830.73	9,825.00	34.33	34.26	88.24	-107.86	2,750.64	2,903.30	2,834.87	68.43	42.427		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 124-MWD+IGRF, 10589-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		
9,900.00	9,894.91	9,920.30	9,914.44	34.68	34.57	88.33	-112.54	2,749.69	2,902.07	2,832.98	69.09	42.005		
10,000.00	9,994.91	9,997.96	9,992.01	35.02	34.84	88.40	-116.02	2,749.14	2,901.28	2,831.58	69.71	41.622		
10,017.95	10,012.85	10,008.01	10,002.05	35.08	34.88	88.41	-116.45	2,749.14	2,901.26	2,831.45	69.80	41.564		
10,032.13	10,027.04	10,015.95	10,009.99	35.13	34.91	88.42	-116.78	2,749.16	2,901.27	2,831.39	69.88	41.518		
10,050.00	10,044.90	10,025.95	10,019.98	35.19	34.94	88.83	-117.19	2,749.20	2,901.33	2,831.35	69.97	41.462		
10,100.00	10,094.75	10,053.77	10,047.78	35.36	35.04	88.86	-118.33	2,749.47	2,901.69	2,831.45	70.24	41.312		
10,150.00	10,144.08	10,093.05	10,087.02	35.53	35.18	88.96	-119.87	2,750.13	2,902.32	2,831.78	70.54	41.145		
10,200.00	10,192.52	10,151.24	10,145.18	35.68	35.38	89.22	-121.83	2,751.00	2,902.85	2,831.94	70.91	40.940		
10,250.00	10,239.69	10,198.77	10,192.67	35.84	35.55	89.51	-123.22	2,751.60	2,903.30	2,832.08	71.23	40.761		
10,300.00	10,285.26	10,241.70	10,235.59	35.98	35.70	89.82	-124.44	2,752.16	2,903.88	2,832.36	71.53	40.599		
10,350.00	10,328.85	10,278.98	10,272.85	36.12	35.83	90.12	-125.49	2,752.69	2,904.69	2,832.89	71.80	40.456		
10,400.00	10,370.15	10,311.61	10,305.46	36.25	35.95	90.38	-126.41	2,753.24	2,905.88	2,833.83	72.05	40.332		
10,450.00	10,408.84	10,342.07	10,335.90	36.37	36.06	90.61	-127.26	2,753.83	2,907.53	2,835.24	72.29	40.222		
10,500.00	10,444.62	10,373.24	10,367.06	36.49	36.17	90.83	-128.13	2,754.50	2,909.70	2,837.18	72.52	40.120		
10,550.00	10,477.22	10,403.34	10,397.13	36.61	36.28	91.01	-128.95	2,755.16	2,912.44	2,839.68	72.76	40.030		
10,600.00	10,506.40	10,430.13	10,423.91	36.73	36.37	91.11	-129.68	2,755.77	2,915.82	2,842.84	72.97	39.957		
10,650.00	10,531.93	10,453.40	10,447.17	36.85	36.45	91.10	-130.30	2,756.31	2,919.91	2,846.73	73.18	39.903		
10,700.00	10,553.61	10,472.98	10,466.73	36.97	36.52	90.97	-130.81	2,756.77	2,924.76	2,851.40	73.36	39.867		
10,750.00	10,571.29	10,493.01	10,486.75	37.10	36.56	90.77	-131.29	2,757.23	2,930.41	2,856.89	73.52	39.859		
10,800.00	10,584.83	11,211.43	11,054.45	37.22	37.02	99.41	215.93	2,737.15	2,931.09	2,857.53	73.56	39.844		
10,850.00	10,594.12	11,246.62	11,066.82	37.34	37.11	99.58	248.82	2,735.50	2,930.53	2,856.75	73.77	39.724		
10,853.87	10,594.66	11,250.00	11,067.89	37.35	37.12	99.60	252.02	2,735.38	2,930.52	2,856.73	73.79	39.715		
10,900.00	10,599.10	11,345.77	11,089.99	37.47	37.44	99.86	345.05	2,732.42	2,930.55	2,856.38	74.17	39.511		
10,932.14	10,600.00	11,404.03	11,095.89	37.55	37.67	99.96	402.98	2,731.09	2,930.44	2,855.97	74.47	39.350		
11,000.00	10,600.00	11,538.22	11,102.51	37.73	38.35	100.10	536.93	2,726.92	2,929.32	2,854.03	75.29	38.906		
11,100.00	10,600.00	11,652.68	11,107.75	38.04	39.04	100.21	651.17	2,721.95	2,926.55	2,850.27	76.27	38.369		
11,200.00	10,600.00	11,770.83	11,112.42	38.41	39.88	100.32	769.08	2,716.28	2,923.22	2,845.77	77.45	37.743		
11,300.00	10,600.00	11,869.45	11,115.91	38.83	40.67	100.40	867.52	2,711.43	2,919.71	2,841.08	78.63	37.133		
11,400.00	10,600.00	11,973.96	11,120.57	39.30	41.58	100.51	971.78	2,705.87	2,915.98	2,836.00	79.98	36.461		
11,500.00	10,600.00	12,055.58	11,123.08	39.81	42.35	100.57	1,053.27	2,701.97	2,912.56	2,831.32	81.23	35.855		
11,600.00	10,600.00	12,131.00	11,124.70	40.37	43.09	100.61	1,128.62	2,699.21	2,910.02	2,827.50	82.52	35.266		
11,700.00	10,600.00	12,202.60	11,126.00	40.98	43.83	100.64	1,200.18	2,697.29	2,908.38	2,824.54	83.85	34.687		
11,800.00	10,600.00	12,289.33	11,127.44	41.62	44.77	100.67	1,286.88	2,695.56	2,907.42	2,822.02	85.40	34.043		
11,900.00	10,600.00	12,383.64	11,129.37	42.31	45.83	100.71	1,381.16	2,693.88	2,906.76	2,819.63	87.12	33.364		
12,000.00	10,600.00	12,491.39	11,131.53	43.04	47.10	100.76	1,488.86	2,691.98	2,906.10	2,817.02	89.08	32.623		
12,100.00	10,600.00	12,617.19	11,130.13	43.80	48.65	100.73	1,614.63	2,689.74	2,904.85	2,813.49	91.37	31.793		
12,200.00	10,600.00	12,745.70	11,125.51	44.60	50.31	100.65	1,743.02	2,686.72	2,902.56	2,808.76	93.80	30.943		
12,300.00	10,600.00	12,876.81	11,121.57	45.43	52.08	100.59	1,873.99	2,682.26	2,899.38	2,803.02	96.36	30.089		
12,400.00	10,600.00	12,988.04	11,120.80	46.29	53.62	100.59	1,985.09	2,677.08	2,895.38	2,796.64	98.73	29.325		
12,500.00	10,600.00	13,099.39	11,121.08	47.17	55.22	100.61	2,096.29	2,671.21	2,890.94	2,789.77	101.17	28.574		
12,600.00	10,600.00	13,214.21	11,121.54	48.09	56.91	100.64	2,210.93	2,664.86	2,886.30	2,782.58	103.72	27.827		
12,700.00	10,600.00	13,334.99	11,121.83	49.04	58.72	100.67	2,331.46	2,657.07	2,880.68	2,774.26	106.42	27.069		
12,800.00	10,600.00	13,439.81	11,122.38	50.00	60.32	100.71	2,436.04	2,649.92	2,874.77	2,765.83	108.94	26.388		
12,900.00	10,600.00	13,535.09	11,122.92	50.99	61.81	100.74	2,531.09	2,643.39	2,868.84	2,757.46	111.38	25.757		
13,000.00	10,600.00	13,646.74	11,123.66	52.01	63.57	100.78	2,642.46	2,635.63	2,862.84	2,748.75	114.09	25.092		
13,100.00	10,600.00	13,716.65	11,123.92	53.04	64.68	100.80	2,712.22	2,631.06	2,857.16	2,740.93	116.24	24.581		
13,200.00	10,600.00	13,779.97	11,123.80	54.09	65.70	100.81	2,775.45	2,627.65	2,852.57	2,734.27	118.30	24.113		
13,300.00	10,600.00	13,844.13	11,123.70	55.16	66.73	100.82	2,839.56	2,625.12	2,849.33	2,728.94	120.39	23.668		
13,400.00	10,600.00	13,926.49	11,123.42	56.25	68.07	100.82	2,921.88	2,622.61	2,846.98	2,724.20	122.78	23.188		
13,500.00	10,600.00	14,006.97	11,123.25	57.36	69.38	100.82	3,002.34	2,620.68	2,845.28	2,720.11	125.16	22.733		
13,600.00	10,600.00	14,161.89	11,122.17	58.48	71.93	100.81	3,157.19	2,616.20	2,843.04	2,714.27	128.78	22.077		
13,700.00	10,600.00	14,291.39	11,119.41	59.61	74.10	100.77	3,286.54	2,610.68	2,839.13	2,707.11	132.02	21.505		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 3H - Original Hole - Original Hole												Offset Site Error:	0.00 ft
Survey Program: 124-MWD+IGRF, 10589-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	
13,800.00	10,600.00	14,402.08	11,115.38	60.76	75.97	100.71	3,397.04	2,605.57	2,834.61	2,699.61	135.01	20.996	
13,900.00	10,600.00	14,538.39	11,109.47	61.92	78.30	100.62	3,533.02	2,598.38	2,829.35	2,690.92	138.43	20.438	
14,000.00	10,600.00	14,660.77	11,103.28	63.10	80.41	100.52	3,655.00	2,590.56	2,822.81	2,681.14	141.66	19.926	
14,100.00	10,600.00	14,778.49	11,097.56	64.28	82.45	100.43	3,772.28	2,582.31	2,815.73	2,670.89	144.85	19.440	
14,200.00	10,600.00	14,842.22	11,095.54	65.48	83.57	100.40	3,835.83	2,577.88	2,808.99	2,661.79	147.20	19.083	
14,300.00	10,600.00	14,910.37	11,094.13	66.68	84.76	100.39	3,903.84	2,573.80	2,803.43	2,653.81	149.62	18.737	
14,400.00	10,600.00	14,995.76	11,093.34	67.90	86.26	100.39	3,989.12	2,569.43	2,798.89	2,646.58	152.31	18.376	
14,500.00	10,600.00	15,123.52	11,091.80	69.13	88.51	100.38	4,116.66	2,562.27	2,793.85	2,638.14	155.71	17.942	
14,600.00	10,600.00	15,222.64	11,090.77	70.36	90.27	100.38	4,215.59	2,556.13	2,788.28	2,629.61	158.67	17.573	
14,700.00	10,600.00	15,335.33	11,090.20	71.60	92.28	100.39	4,328.05	2,549.01	2,782.68	2,620.83	161.85	17.193	
14,800.00	10,600.00	15,453.55	11,089.55	72.85	94.40	100.41	4,445.98	2,540.71	2,776.37	2,611.24	165.13	16.813	
14,900.00	10,600.00	15,554.24	11,089.05	74.11	96.21	100.42	4,546.39	2,533.33	2,769.77	2,601.61	168.15	16.472	
15,000.00	10,600.00	15,648.71	11,089.21	75.38	97.92	100.45	4,640.60	2,526.28	2,763.17	2,592.08	171.09	16.151	
15,100.00	10,600.00	15,725.00	11,089.77	76.65	99.30	100.48	4,716.69	2,520.69	2,756.88	2,583.14	173.74	15.868	
15,200.00	10,600.00	15,725.00	11,089.77	77.93	99.30	100.48	4,716.69	2,520.69	2,753.12	2,578.04	175.08	15.725	
15,253.67	10,600.00	15,725.00	11,089.77	78.62	99.30	100.48	4,716.69	2,520.69	2,752.60	2,576.87	175.73	15.664	
15,300.00	10,600.00	15,725.00	11,089.77	79.21	99.30	100.48	4,716.69	2,520.69	2,752.99	2,576.74	176.25	15.620	
15,400.00	10,600.00	15,725.00	11,089.77	80.50	99.30	100.48	4,716.69	2,520.69	2,756.48	2,579.26	177.23	15.553	
15,500.00	10,600.00	15,725.00	11,089.77	81.80	99.30	100.48	4,716.69	2,520.69	2,763.60	2,585.58	178.02	15.524 SF	
15,575.11	10,600.00	15,725.00	11,089.77	82.77	99.30	100.48	4,716.69	2,520.69	2,771.30	2,592.81	178.49	15.526	

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 130-MWD+IGRF, 9674-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	0.00	88.14	127.07	3,912.47	3,914.56					
100.00	100.00	110.78	110.78	0.52	0.16	88.15	126.62	3,912.11	3,914.24	3,913.57	0.68	5,767.186		
200.00	200.00	259.73	259.70	0.70	0.66	88.17	124.73	3,910.26	3,912.97	3,911.61	1.36	2,879.851		
300.00	300.00	348.23	348.18	0.99	0.98	88.20	123.16	3,908.76	3,911.23	3,909.26	1.96	1,993.172		
400.00	400.00	437.99	437.91	1.31	1.30	88.22	121.44	3,907.46	3,909.72	3,907.11	2.61	1,499.482		
500.00	500.00	527.21	527.11	1.65	1.62	88.24	119.74	3,906.41	3,908.48	3,905.21	3.27	1,196.796		
600.00	600.00	637.87	637.74	1.99	2.02	88.27	117.84	3,905.13	3,907.28	3,903.27	4.01	974.650		
700.00	700.00	732.30	732.15	2.34	2.36	88.29	116.39	3,903.95	3,905.98	3,901.28	4.70	831.488		
800.00	800.00	834.57	834.41	2.69	2.73	88.31	115.16	3,902.70	3,904.72	3,899.31	5.41	721.178		
900.00	900.00	936.91	936.74	3.04	3.10	88.32	114.55	3,901.37	3,903.40	3,897.27	6.13	636.440		
1,000.00	1,000.00	1,028.02	1,027.84	3.40	3.42	88.32	114.33	3,900.28	3,902.20	3,895.39	6.81	573.022		
1,100.00	1,100.00	1,117.42	1,117.23	3.75	3.73	88.32	114.29	3,899.39	3,901.20	3,893.73	7.48	521.642		
1,200.00	1,200.00	1,205.96	1,205.78	4.11	4.04	88.32	114.41	3,898.77	3,900.50	3,892.36	8.14	478.923		
1,300.00	1,300.00	1,307.13	1,306.95	4.46	4.40	88.31	114.80	3,898.24	3,899.99	3,891.14	8.85	440.598		
1,400.00	1,400.00	1,415.12	1,414.92	4.82	4.77	88.30	115.67	3,897.47	3,899.31	3,889.73	9.58	406.966		
1,500.00	1,500.00	1,513.79	1,513.59	5.18	5.11	88.28	116.96	3,896.66	3,898.52	3,888.25	10.28	379.315		
1,600.00	1,600.00	1,611.31	1,611.08	5.53	5.45	88.25	118.77	3,895.90	3,897.80	3,886.83	10.97	355.309		
1,700.00	1,700.00	1,702.09	1,701.84	5.89	5.76	88.23	120.66	3,895.32	3,897.23	3,885.59	11.64	334.830		
1,800.00	1,800.00	1,804.43	1,804.16	6.25	6.11	88.19	122.83	3,894.77	3,896.76	3,884.41	12.35	315.533		
1,900.00	1,900.00	1,888.44	1,888.15	6.61	6.40	88.17	124.64	3,894.46	3,896.45	3,883.46	13.00	299.788		
2,000.00	2,000.00	1,988.62	1,988.30	6.96	6.75	88.13	126.82	3,894.30	3,896.37	3,882.67	13.70	284.377		
2,100.00	2,100.00	2,103.34	2,102.99	7.32	7.15	88.10	129.42	3,893.88	3,896.08	3,881.62	14.46	269.467		
2,200.00	2,200.00	2,200.05	2,199.68	7.68	7.48	88.06	131.79	3,893.38	3,895.64	3,880.49	15.15	257.054		
2,300.00	2,300.00	2,290.63	2,290.23	8.04	7.80	88.03	133.94	3,893.07	3,895.38	3,879.55	15.83	246.076		
2,400.00	2,400.00	2,389.44	2,389.02	8.39	8.15	88.00	136.21	3,892.87	3,895.25	3,878.72	16.53	235.586		
2,500.00	2,500.00	2,490.29	2,489.83	8.75	8.50	87.96	138.84	3,892.61	3,895.09	3,877.84	17.25	225.846		
2,600.00	2,600.00	2,588.33	2,587.84	9.11	8.84	87.92	141.41	3,892.44	3,895.01	3,877.06	17.95	216.994		
2,700.00	2,700.00	2,689.44	2,688.91	9.47	9.20	87.88	143.91	3,892.18	3,894.84	3,876.18	18.66	208.675		
2,743.74	2,743.74	2,728.48	2,727.94	9.62	9.34	87.87	144.87	3,892.12	3,894.82	3,875.86	18.96	205.434		
2,800.00	2,800.00	2,781.12	2,780.57	9.83	9.52	87.85	146.18	3,892.10	3,894.85	3,875.50	19.35	201.324		
2,900.00	2,900.00	2,875.06	2,874.47	10.18	9.85	87.81	148.73	3,892.15	3,895.05	3,874.97	20.04	194.402		
3,000.00	3,000.00	2,965.67	2,965.04	10.54	10.17	87.77	151.39	3,892.39	3,895.38	3,874.66	20.71	188.058		
3,100.00	3,100.00	3,057.01	3,056.34	10.90	10.50	87.73	154.19	3,892.83	3,895.98	3,874.58	21.39	182.105		
3,200.00	3,200.00	3,150.27	3,149.54	11.26	10.83	87.69	157.17	3,893.47	3,896.80	3,874.72	22.08	176.473		
3,300.00	3,300.00	3,245.71	3,244.93	11.62	11.16	87.64	160.51	3,894.22	3,897.72	3,874.94	22.78	171.123		
3,400.00	3,400.00	3,337.09	3,336.24	11.97	11.49	87.59	163.76	3,895.13	3,898.86	3,875.41	23.46	166.202		
3,500.00	3,500.00	3,434.35	3,433.43	12.33	11.83	87.54	167.42	3,896.19	3,900.12	3,875.95	24.16	161.417		
3,600.00	3,600.00	3,528.53	3,527.52	12.67	12.17	-129.98	171.17	3,897.33	3,902.06	3,877.22	24.84	157.103		
3,700.00	3,699.96	3,619.77	3,618.69	13.00	12.49	-130.03	174.67	3,898.56	3,905.27	3,879.78	25.49	153.225		
3,737.73	3,737.66	3,650.29	3,649.18	13.13	12.60	-130.05	175.86	3,899.05	3,906.86	3,881.14	25.72	151.910		
3,800.00	3,799.88	3,701.94	3,700.78	13.33	12.78	-130.10	177.95	3,899.99	3,909.78	3,883.67	26.10	149.774		
3,900.00	3,899.79	3,792.87	3,791.62	13.66	13.11	-130.20	181.61	3,901.86	3,914.70	3,887.94	26.76	146.315		
4,000.00	3,999.71	3,885.18	3,883.84	13.99	13.43	-130.29	185.16	3,903.95	3,919.84	3,892.42	27.41	142.995		
4,100.00	4,099.62	3,977.89	3,976.46	14.32	13.76	-130.38	188.53	3,906.23	3,925.17	3,897.10	28.07	139.824		
4,200.00	4,199.53	4,079.91	4,078.38	14.66	14.12	-130.48	192.16	3,908.80	3,930.56	3,901.79	28.77	136.630		
4,300.00	4,299.45	4,177.37	4,175.76	15.00	14.47	-130.57	195.38	3,911.27	3,935.97	3,906.52	29.45	133.659		
4,400.00	4,399.36	4,289.30	4,287.60	15.33	14.87	-130.67	198.82	3,913.94	3,941.22	3,911.04	30.18	130.577		
4,500.00	4,499.28	4,372.67	4,370.91	15.67	15.16	-130.74	201.42	3,915.84	3,946.42	3,915.60	30.81	128.077		
4,600.00	4,599.19	4,427.35	4,425.54	16.01	15.36	-130.79	203.05	3,917.62	3,952.55	3,921.22	31.33	126.144		
4,700.00	4,699.10	4,476.84	4,474.96	16.35	15.53	-130.83	204.35	3,919.81	3,959.87	3,928.04	31.83	124.408		
4,800.00	4,799.02	4,537.00	4,535.00	16.69	15.74	-130.87	205.29	3,923.44	3,968.55	3,936.18	32.36	122.627		
4,900.00	4,898.93	4,582.01	4,579.89	17.04	15.90	-130.89	205.64	3,926.70	3,978.35	3,945.52	32.83	121.177		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 130-MWD+IGRF, 9674-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		
5,000.00	4,998.85	4,649.64	4,647.30	17.38	16.13	-130.92	205.91	3,932.17	3,989.13	3,955.75	33.39	119.486		
5,100.00	5,098.76	4,729.00	4,726.37	17.72	16.41	-130.95	205.99	3,938.98	4,000.43	3,966.44	33.99	117.705		
5,200.00	5,198.67	4,789.36	4,786.46	18.07	16.62	-130.97	205.66	3,944.62	4,012.48	3,977.97	34.51	116.276		
5,300.00	5,298.59	4,846.12	4,842.90	18.41	16.82	-130.98	204.80	3,950.60	4,025.59	3,990.58	35.01	114.979		
5,400.00	5,398.50	4,918.00	4,914.26	18.76	17.07	-130.98	203.08	3,959.02	4,039.77	4,004.19	35.58	113.555		
5,500.00	5,498.42	4,968.40	4,964.24	19.11	17.24	-130.97	201.69	3,965.41	4,054.80	4,018.76	36.05	112.492		
5,600.00	5,598.33	5,079.12	5,073.95	19.45	17.64	-130.97	198.87	3,979.98	4,070.52	4,033.74	36.78	110.683		
5,700.00	5,698.24	5,268.05	5,261.59	19.80	18.31	-130.97	194.46	4,001.56	4,084.34	4,046.49	37.84	107.923		
5,800.00	5,798.16	5,389.70	5,382.59	20.15	18.75	-130.98	191.74	4,013.84	4,096.96	4,058.33	38.63	106.067		
5,900.00	5,898.07	5,477.63	5,470.06	20.50	19.07	-130.98	189.85	4,022.65	4,109.53	4,070.26	39.27	104.654		
6,000.00	5,997.98	5,559.14	5,551.10	20.85	19.36	-130.98	187.90	4,031.16	4,122.50	4,082.62	39.88	103.365		
6,100.00	6,097.90	5,662.79	5,654.14	21.20	19.74	-130.98	185.51	4,042.14	4,135.64	4,095.05	40.59	101.881		
6,200.00	6,197.81	5,770.11	5,760.85	21.55	20.13	-130.99	183.00	4,053.23	4,148.51	4,107.18	41.32	100.398		
6,300.00	6,297.73	5,860.95	5,851.18	21.90	20.47	-130.99	180.93	4,062.75	4,161.52	4,119.54	41.98	99.134		
6,400.00	6,397.64	5,962.81	5,952.43	22.25	20.85	-130.98	178.09	4,073.39	4,174.48	4,131.80	42.68	97.798		
6,500.00	6,497.55	6,050.89	6,039.97	22.61	21.17	-130.98	175.35	4,082.77	4,187.62	4,144.29	43.33	96.640		
6,600.00	6,597.47	6,189.99	6,178.23	22.96	21.69	-130.97	171.46	4,097.48	4,200.83	4,156.62	44.20	95.041		
6,700.00	6,697.38	6,306.04	6,293.71	23.31	22.12	-130.96	167.85	4,108.49	4,212.78	4,167.81	44.97	93.681		
6,800.00	6,797.30	6,393.65	6,380.87	23.66	22.45	-130.95	165.03	4,116.86	4,224.84	4,179.22	45.62	92.611		
6,900.00	6,897.21	6,486.95	6,473.69	24.02	22.80	-130.95	162.30	4,125.97	4,237.10	4,190.81	46.29	91.526		
7,000.00	6,997.12	6,606.14	6,592.28	24.37	23.24	-130.95	159.24	4,137.37	4,249.19	4,202.11	47.08	90.254		
7,100.00	7,097.04	6,703.82	6,689.49	24.73	23.61	-130.94	156.13	4,146.50	4,261.04	4,213.26	47.78	89.188		
7,200.00	7,196.95	6,793.27	6,778.48	25.08	23.95	-130.93	153.20	4,155.09	4,273.12	4,224.69	48.44	88.221		
7,300.00	7,296.87	6,907.17	6,891.83	25.43	24.38	-130.92	149.71	4,165.70	4,284.91	4,235.71	49.20	87.087		
7,400.00	7,396.78	7,003.86	6,988.04	25.79	24.74	-130.91	146.60	4,174.84	4,296.85	4,246.95	49.90	86.116		
7,500.00	7,496.69	7,126.45	7,110.04	26.14	25.20	-130.90	142.39	4,186.00	4,308.43	4,257.73	50.70	84.978		
7,600.00	7,596.61	7,215.35	7,198.54	26.50	25.54	-130.89	139.31	4,193.87	4,319.78	4,268.42	51.36	84.105		
7,700.00	7,696.52	7,313.41	7,296.14	26.86	25.91	-130.88	136.25	4,202.84	4,331.43	4,279.36	52.06	83.195		
7,800.00	7,796.44	7,417.27	7,399.52	27.21	26.30	-130.87	132.94	4,212.22	4,342.95	4,290.16	52.79	82.268		
7,900.00	7,896.35	7,548.67	7,530.35	27.57	26.80	-130.86	128.53	4,223.61	4,354.12	4,300.49	53.63	81.182		
8,000.00	7,996.26	7,634.84	7,616.16	27.92	27.13	-130.85	125.56	4,230.96	4,365.12	4,310.83	54.29	80.408		
8,100.00	8,096.18	7,744.57	7,725.42	28.28	27.54	-130.83	121.27	4,240.19	4,375.98	4,320.94	55.04	79.505		
8,200.00	8,196.09	7,835.76	7,816.21	28.64	27.89	-130.82	117.74	4,247.97	4,386.96	4,331.25	55.72	78.739		
8,300.00	8,296.01	7,945.00	7,924.97	28.99	28.30	-130.79	113.03	4,257.03	4,397.68	4,341.21	56.47	77.880		
8,400.00	8,395.92	8,053.14	8,032.58	29.35	28.71	-130.76	107.80	4,266.30	4,408.68	4,351.46	57.22	77.054		
8,500.00	8,495.83	8,174.05	8,152.97	29.71	29.17	-130.72	101.53	4,275.60	4,418.70	4,360.68	58.02	76.162		
8,600.00	8,595.75	8,279.15	8,257.59	30.06	29.56	-130.68	95.71	4,283.71	4,428.79	4,370.04	58.75	75.380		
8,700.00	8,695.66	8,381.77	8,359.78	30.42	29.95	-130.65	90.29	4,291.45	4,438.72	4,379.24	59.48	74.627		
8,800.00	8,795.58	8,502.75	8,480.32	30.78	30.40	-130.62	84.69	4,300.09	4,448.27	4,387.99	60.28	73.792		
8,900.00	8,895.49	8,587.65	8,564.90	31.14	30.72	-130.60	80.87	4,306.25	4,457.95	4,397.01	60.93	73.160		
9,000.00	8,995.40	8,733.27	8,710.06	31.50	31.27	-130.57	74.20	4,315.78	4,466.80	4,404.96	61.84	72.234		
9,100.00	9,095.32	8,881.54	8,857.98	31.85	31.82	-130.55	68.83	4,324.44	4,475.20	4,412.45	62.75	71.322		
9,200.00	9,195.23	9,030.32	9,006.58	32.21	32.36	-130.57	65.49	4,330.93	4,482.04	4,418.39	63.65	70.417		
9,300.00	9,295.14	9,162.70	9,138.85	32.57	32.83	-130.59	63.21	4,335.61	4,488.16	4,423.67	64.49	69.600		
9,400.00	9,395.06	11,565.00	10,986.66	32.93	36.89	-139.96	672.99	3,942.06	4,476.64	4,410.35	66.29	67.527		
9,500.00	9,494.97	11,565.00	10,986.66	33.29	36.89	-139.96	672.99	3,942.06	4,444.71	4,377.72	66.99	66.344		
9,523.61	9,518.56	11,565.00	10,986.66	33.37	36.89	-139.96	672.99	3,942.06	4,437.47	4,370.31	67.16	66.075		
9,600.00	9,594.91	11,565.00	10,986.66	33.64	36.89	-139.72	672.99	3,942.06	4,414.25	4,346.57	67.68	65.221		
9,682.09	9,677.00	11,565.00	10,986.66	33.93	36.89	78.00	672.99	3,942.06	4,389.41	4,321.18	68.23	64.334		
9,700.00	9,694.91	11,565.00	10,986.66	33.99	36.89	78.00	672.99	3,942.06	4,384.03	4,315.69	68.35	64.145		
9,800.00	9,794.91	11,565.00	10,986.66	34.33	36.89	78.00	672.99	3,942.06	4,355.25	4,286.27	68.99	63.130		
9,900.00	9,894.91	11,565.00	10,986.66	34.68	36.89	78.00	672.99	3,942.06	4,328.59	4,258.98	69.62	62.178		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 130-MWD+IGRF, 9674-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		
10,000.00	9,994.91	11,565.00	10,986.66	35.02	36.89	78.00	672.99	3,942.06	4,304.09	4,233.87	70.23	61.288		
10,032.13	10,027.04	11,565.00	10,986.66	35.13	36.89	78.00	672.99	3,942.06	4,296.68	4,226.26	70.42	61.015		
10,050.00	10,044.90	11,565.00	10,986.66	35.19	36.89	78.82	672.99	3,942.06	4,292.61	4,222.08	70.53	60.866		
10,100.00	10,094.75	11,565.00	10,986.66	35.36	36.89	79.99	672.99	3,942.06	4,281.04	4,210.22	70.82	60.453		
10,150.00	10,144.08	11,565.00	10,986.66	35.53	36.89	81.18	672.99	3,942.06	4,269.28	4,198.18	71.09	60.052		
10,200.00	10,192.52	11,565.00	10,986.66	35.68	36.89	82.39	672.99	3,942.06	4,257.42	4,186.06	71.36	59.663		
10,250.00	10,239.69	11,565.00	10,986.66	35.84	36.89	83.60	672.99	3,942.06	4,245.55	4,173.95	71.61	59.290		
10,300.00	10,285.26	11,565.00	10,986.66	35.98	36.89	84.81	672.99	3,942.06	4,233.77	4,161.93	71.84	58.932		
10,350.00	10,328.85	11,581.34	10,987.16	36.12	37.01	85.81	689.00	3,938.82	4,222.11	4,149.92	72.19	58.484		
10,400.00	10,370.15	11,597.38	10,987.62	36.25	37.13	86.81	704.73	3,935.70	4,210.60	4,138.07	72.53	58.055		
10,450.00	10,408.84	11,615.22	10,988.09	36.37	37.26	87.78	722.23	3,932.28	4,199.29	4,126.43	72.86	57.632		
10,500.00	10,444.62	11,634.72	10,988.56	36.49	37.41	88.73	741.38	3,928.62	4,188.24	4,115.04	73.20	57.216		
10,550.00	10,477.22	11,659.00	10,989.07	36.61	37.60	89.61	765.24	3,924.18	4,177.48	4,103.92	73.57	56.786		
10,600.00	10,506.40	11,690.05	10,989.63	36.73	37.85	90.44	795.78	3,918.60	4,167.01	4,093.01	74.00	56.312		
10,650.00	10,531.93	11,728.28	10,990.18	36.85	38.17	91.23	833.39	3,911.77	4,156.78	4,082.29	74.49	55.805		
10,700.00	10,553.61	11,772.04	10,990.64	36.97	38.56	91.99	876.46	3,904.02	4,146.80	4,071.76	75.03	55.266		
10,750.00	10,571.29	11,824.72	10,991.15	37.10	39.04	92.74	928.29	3,894.64	4,137.00	4,061.32	75.68	54.666		
10,800.00	10,584.83	11,865.59	10,991.56	37.22	39.44	93.57	968.50	3,887.33	4,127.43	4,051.21	76.22	54.154		
10,850.00	10,594.12	11,897.10	10,991.92	37.34	39.75	94.42	999.52	3,881.81	4,118.32	4,041.65	76.67	53.717		
10,900.00	10,599.10	11,929.03	10,992.34	37.47	40.07	95.26	1,030.98	3,876.34	4,109.75	4,032.63	77.12	53.292		
10,932.14	10,600.00	11,942.00	10,992.53	37.55	40.20	95.78	1,043.76	3,874.15	4,104.57	4,027.25	77.32	53.083		
11,000.00	10,600.00	11,996.05	10,993.19	37.73	40.78	95.80	1,097.07	3,865.26	4,094.03	4,015.95	78.08	52.432		
11,100.00	10,600.00	12,037.00	10,993.52	38.04	41.21	95.82	1,137.50	3,858.75	4,079.28	4,000.47	78.82	51.758		
11,200.00	10,600.00	12,096.39	10,993.93	38.41	41.87	95.83	1,196.25	3,850.03	4,065.63	3,985.80	79.83	50.928		
11,300.00	10,600.00	12,131.00	10,994.21	38.83	42.26	95.84	1,230.55	3,845.47	4,053.45	3,972.85	80.61	50.286		
11,400.00	10,600.00	12,192.74	10,995.23	39.30	42.97	95.87	1,291.84	3,838.05	4,042.47	3,960.70	81.77	49.437		
11,500.00	10,600.00	12,261.23	10,997.24	39.81	43.77	95.91	1,359.89	3,830.61	4,032.60	3,949.52	83.08	48.541		
11,600.00	10,600.00	12,352.34	10,999.14	40.37	44.88	95.95	1,450.47	3,821.03	4,023.06	3,938.32	84.74	47.473		
11,700.00	10,600.00	12,414.00	11,000.60	40.98	45.65	95.98	1,511.79	3,814.70	4,013.93	3,927.83	86.10	46.622		
11,800.00	10,600.00	12,483.90	11,002.29	41.62	46.54	96.01	1,581.35	3,808.11	4,005.60	3,917.98	87.62	45.715		
11,900.00	10,600.00	12,592.29	11,003.66	42.31	47.96	96.04	1,689.35	3,798.96	3,998.06	3,908.32	89.74	44.552		
12,000.00	10,600.00	12,664.88	11,003.66	43.04	48.94	96.05	1,761.68	3,792.83	3,990.40	3,898.97	91.43	43.643		
12,100.00	10,600.00	12,807.73	11,004.86	43.80	50.94	96.08	1,904.00	3,780.68	3,982.80	3,888.59	94.21	42.274		
12,200.00	10,600.00	12,868.61	11,006.45	44.60	51.81	96.11	1,964.62	3,775.28	3,974.95	3,879.09	95.86	41.467		
12,300.00	10,600.00	13,017.12	11,012.12	45.43	54.00	96.22	2,112.39	3,761.68	3,966.94	3,868.05	98.89	40.113		
12,400.00	10,600.00	12,400.00	11,016.50	46.29	44.53	96.30	2,240.41	3,748.71	3,958.00	3,867.77	90.23	43.868		
12,500.00	10,600.00	13,240.85	11,019.75	47.17	57.45	96.36	2,334.79	3,738.49	3,948.40	3,844.33	104.07	37.940		
12,600.00	10,600.00	13,289.17	11,021.67	48.09	58.21	96.40	2,382.83	3,733.71	3,939.78	3,834.07	105.71	37.271		
12,700.00	10,600.00	13,328.90	11,023.02	49.04	58.83	96.42	2,422.40	3,730.43	3,932.64	3,825.42	107.22	36.677		
12,800.00	10,600.00	13,374.03	11,024.24	50.00	59.54	96.44	2,467.41	3,727.44	3,927.01	3,818.16	108.84	36.079		
12,900.00	10,600.00	13,433.65	11,025.74	50.99	60.47	96.47	2,526.92	3,724.16	3,922.53	3,811.82	110.72	35.428		
13,000.00	10,600.00	13,554.70	11,027.89	52.01	62.38	96.51	2,647.80	3,718.16	3,918.56	3,804.90	113.65	34.478		
13,100.00	10,600.00	13,673.41	11,029.62	53.04	64.29	96.54	2,766.30	3,711.27	3,913.64	3,797.03	116.61	33.562		
13,200.00	10,600.00	13,751.95	11,031.74	54.09	65.57	96.58	2,844.68	3,706.72	3,908.90	3,790.00	118.91	32.874		
13,300.00	10,600.00	13,820.10	11,034.86	55.16	66.68	96.63	2,912.66	3,703.12	3,904.88	3,783.84	121.04	32.261		
13,400.00	10,600.00	13,929.98	11,040.91	56.25	68.49	96.73	3,022.23	3,697.58	3,901.22	3,777.30	123.92	31.481		
13,500.00	10,600.00	13,993.62	11,043.71	57.36	69.54	96.77	3,085.75	3,694.64	3,897.85	3,771.82	126.02	30.929		
13,600.00	10,600.00	14,139.93	11,047.20	58.48	71.98	96.83	3,231.86	3,688.09	3,894.42	3,764.80	129.62	30.044		
13,700.00	10,600.00	14,215.81	11,048.37	59.61	73.26	96.86	3,307.64	3,684.49	3,890.61	3,758.61	132.00	29.474		
13,800.00	10,600.00	14,292.67	11,049.14	60.76	74.56	96.87	3,384.43	3,681.37	3,887.40	3,752.99	134.41	28.922		
13,900.00	10,600.00	14,402.81	11,048.84	61.92	76.43	96.87	3,494.50	3,677.30	3,884.41	3,746.97	137.44	28.262		
14,000.00	10,600.00	14,461.27	11,048.76	63.10	77.43	96.88	3,552.93	3,675.38	3,881.81	3,742.26	139.55	27.817		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 4H - Original Hole - Original Hole												Offset Site Error:	0.00 ft
Survey Program: 130-MWD+IGRF, 9674-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	
14,100.00	10,600.00	14,571.98	11,050.25	64.28	79.32	96.90	3,663.58	3,672.23	3,879.89	3,737.26	142.63	27.203	
14,200.00	10,600.00	14,639.97	11,051.81	65.48	80.48	96.93	3,731.52	3,670.10	3,877.81	3,732.88	144.93	26.757	
14,300.00	10,600.00	14,736.60	11,054.60	66.68	82.15	96.97	3,828.09	3,667.94	3,876.64	3,728.87	147.78	26.233	
14,400.00	10,600.00	14,897.77	11,059.95	67.90	84.95	97.06	3,989.05	3,661.97	3,873.88	3,722.03	151.85	25.511	
14,500.00	10,600.00	14,965.00	11,062.18	69.13	86.13	97.09	4,056.20	3,659.53	3,871.36	3,717.16	154.19	25.107	
14,600.00	10,600.00	15,084.81	11,066.12	70.36	88.24	97.16	4,175.85	3,654.83	3,868.51	3,710.98	157.54	24.556	
14,700.00	10,600.00	15,131.12	11,067.65	71.60	89.06	97.18	4,222.11	3,653.37	3,866.50	3,707.00	159.50	24.242	
14,800.00	10,600.00	15,196.92	11,070.22	72.85	90.21	97.22	4,287.84	3,652.12	3,865.75	3,703.93	161.82	23.890	
14,900.00	10,600.00	15,294.07	11,075.24	74.11	91.92	97.30	4,384.86	3,650.50	3,865.45	3,700.71	164.74	23.464	
15,000.00	10,600.00	15,469.45	11,083.64	75.38	95.02	97.43	4,559.96	3,645.70	3,864.00	3,694.81	169.19	22.838	
15,100.00	10,600.00	15,551.74	11,086.60	76.65	96.49	97.48	4,642.15	3,643.07	3,861.99	3,690.11	171.88	22.469	
15,200.00	10,600.00	15,629.00	11,089.05	77.93	97.88	97.52	4,719.34	3,640.75	3,860.21	3,685.73	174.48	22.124	
15,248.33	10,600.00	15,629.00	11,089.05	78.55	97.88	97.52	4,719.34	3,640.75	3,859.91	3,684.91	175.00	22.057 CC	
15,300.00	10,600.00	15,629.00	11,089.05	79.21	97.88	97.52	4,719.34	3,640.75	3,860.25	3,684.72	175.53	21.992 ES	
15,400.00	10,600.00	15,629.00	11,089.05	80.50	97.88	97.52	4,719.34	3,640.75	3,862.88	3,686.40	176.49	21.888	
15,500.00	10,600.00	15,629.00	11,089.05	81.80	97.88	97.52	4,719.34	3,640.75	3,868.10	3,690.75	177.35	21.810	
15,575.11	10,600.00	15,629.00	11,089.05	82.77	97.88	97.52	4,719.34	3,640.75	3,873.71	3,695.78	177.94	21.770 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	7.10	7.10	0.50	0.50	91.38	-37.78	1,566.33	1,566.79					
100.00	100.00	107.10	107.10	0.52	0.52	91.38	-37.78	1,566.33	1,566.79	1,565.75	1.04	1,502.634		
200.00	200.00	207.10	207.10	0.70	0.72	91.38	-37.78	1,566.33	1,566.79	1,565.37	1.42	1,101.586		
300.00	300.00	307.10	307.10	0.99	1.01	91.38	-37.78	1,566.33	1,566.79	1,564.79	2.00	784.689		
400.00	400.00	407.10	407.10	1.31	1.33	91.38	-37.78	1,566.33	1,566.79	1,564.15	2.64	593.090		
500.00	500.00	507.10	507.10	1.65	1.67	91.38	-37.78	1,566.33	1,566.79	1,563.47	3.32	472.430		
600.00	600.00	607.10	607.10	1.99	2.02	91.38	-37.78	1,566.33	1,566.79	1,562.78	4.01	391.125		
700.00	700.00	707.10	707.10	2.34	2.36	91.38	-37.78	1,566.33	1,566.79	1,562.09	4.70	333.111		
800.00	800.00	807.10	807.10	2.69	2.72	91.38	-37.78	1,566.33	1,566.79	1,561.38	5.41	289.813		
900.00	900.00	907.10	907.10	3.04	3.07	91.38	-37.78	1,566.33	1,566.79	1,560.68	6.11	256.338		
1,000.00	1,000.00	1,007.10	1,007.10	3.40	3.42	91.38	-37.78	1,566.33	1,566.79	1,559.97	6.82	229.718		
1,100.00	1,100.00	1,107.10	1,107.10	3.75	3.78	91.38	-37.78	1,566.33	1,566.79	1,559.26	7.53	208.061		
1,200.00	1,200.00	1,207.10	1,207.10	4.11	4.13	91.38	-37.78	1,566.33	1,566.79	1,558.55	8.24	190.108		
1,300.00	1,300.00	1,307.10	1,307.10	4.46	4.49	91.38	-37.78	1,566.33	1,566.79	1,557.84	8.95	174.989		
1,400.00	1,400.00	1,407.10	1,407.10	4.82	4.85	91.38	-37.78	1,566.33	1,566.79	1,557.12	9.67	162.086		
1,500.00	1,500.00	1,507.10	1,507.10	5.18	5.20	91.38	-37.78	1,566.33	1,566.79	1,556.41	10.38	150.946		
1,600.00	1,600.00	1,607.10	1,607.10	5.53	5.56	91.38	-37.78	1,566.33	1,566.79	1,555.70	11.09	141.233		
1,700.00	1,700.00	1,707.10	1,707.10	5.89	5.92	91.38	-37.78	1,566.33	1,566.79	1,554.98	11.81	132.691		
1,800.00	1,800.00	1,807.10	1,807.10	6.25	6.27	91.38	-37.78	1,566.33	1,566.79	1,554.27	12.52	125.120		
1,900.00	1,900.00	1,907.10	1,907.10	6.61	6.63	91.38	-37.78	1,566.33	1,566.79	1,553.55	13.24	118.363		
2,000.00	2,000.00	2,007.10	2,007.10	6.96	6.99	91.38	-37.78	1,566.33	1,566.79	1,552.84	13.95	112.298		
2,100.00	2,100.00	2,107.10	2,107.10	7.32	7.35	91.38	-37.78	1,566.33	1,566.79	1,552.12	14.67	106.822		
2,200.00	2,200.00	2,207.10	2,207.10	7.68	7.70	91.38	-37.78	1,566.33	1,566.79	1,551.41	15.38	101.854		
2,300.00	2,300.00	2,307.10	2,307.10	8.04	8.06	91.38	-37.78	1,566.33	1,566.79	1,550.69	16.10	97.327		
2,400.00	2,400.00	2,407.10	2,407.10	8.39	8.42	91.38	-37.78	1,566.33	1,566.79	1,549.97	16.81	93.185		
2,500.00	2,500.00	2,507.10	2,507.10	8.75	8.78	91.38	-37.78	1,566.33	1,566.79	1,549.26	17.53	89.380		
2,600.00	2,600.00	2,607.10	2,607.10	9.11	9.14	91.38	-37.78	1,566.33	1,566.79	1,548.54	18.25	85.874		
2,700.00	2,700.00	2,707.10	2,707.10	9.47	9.49	91.38	-37.78	1,566.33	1,566.79	1,547.83	18.96	82.631 CC, ES		
2,800.00	2,800.00	2,784.23	2,784.23	9.83	9.76	91.38	-37.87	1,566.95	1,567.57	1,547.99	19.58	80.040		
2,900.00	2,900.00	2,862.85	2,862.83	10.18	10.03	91.39	-38.12	1,568.62	1,569.71	1,549.50	20.21	77.689		
3,000.00	3,000.00	2,941.41	2,941.34	10.54	10.30	91.40	-38.53	1,571.36	1,573.21	1,552.39	20.82	75.559		
3,100.00	3,100.00	3,019.88	3,019.71	10.90	10.56	91.42	-39.10	1,575.16	1,578.07	1,556.64	21.43	73.627		
3,200.00	3,200.00	3,100.00	3,099.68	11.26	10.84	91.44	-39.84	1,580.14	1,584.29	1,562.24	22.05	71.850		
3,300.00	3,300.00	3,176.42	3,175.87	11.62	11.10	91.47	-40.70	1,585.91	1,591.85	1,569.21	22.65	70.288		
3,400.00	3,400.00	3,254.44	3,253.58	11.97	11.37	91.50	-41.74	1,592.84	1,600.77	1,577.52	23.25	68.854		
3,500.00	3,500.00	3,332.26	3,330.97	12.33	11.65	91.54	-42.93	1,600.80	1,611.03	1,587.19	23.85	67.562		
3,600.00	3,600.00	3,409.79	3,407.98	12.67	11.92	-125.82	-44.26	1,609.76	1,623.14	1,598.72	24.42	66.465		
3,700.00	3,699.96	3,486.95	3,484.47	13.00	12.19	-125.71	-45.75	1,619.70	1,637.59	1,612.61	24.98	65.567		
3,737.73	3,737.66	3,515.94	3,513.18	13.13	12.30	-125.68	-46.34	1,623.70	1,643.65	1,618.46	25.18	65.264		
3,800.00	3,799.88	3,563.67	3,560.41	13.33	12.47	-125.70	-47.37	1,630.59	1,654.17	1,628.64	25.53	64.801		
3,900.00	3,899.79	3,640.04	3,635.82	13.66	12.74	-125.74	-49.14	1,642.43	1,672.13	1,646.05	26.07	64.132		
4,000.00	3,999.71	3,716.02	3,710.70	13.99	13.02	-125.78	-51.05	1,655.20	1,691.38	1,664.76	26.62	63.547		
4,100.00	4,099.62	3,791.61	3,785.01	14.32	13.30	-125.81	-53.09	1,668.87	1,711.92	1,684.77	27.15	63.043		
4,200.00	4,199.53	3,866.54	3,878.20	14.66	13.66	-125.84	-55.76	1,686.79	1,733.25	1,705.44	27.81	62.328		
4,300.00	4,299.45	3,984.23	3,974.09	15.00	14.03	-125.87	-58.52	1,705.24	1,754.59	1,726.11	28.48	61.604		
4,400.00	4,399.36	4,081.92	4,069.98	15.33	14.41	-125.91	-61.27	1,723.69	1,775.93	1,746.78	29.16	60.907		
4,500.00	4,499.28	4,179.61	4,165.88	15.67	14.79	-125.94	-64.03	1,742.15	1,797.28	1,767.44	29.84	60.237		
4,600.00	4,599.19	4,277.30	4,261.77	16.01	15.17	-125.97	-66.78	1,760.60	1,818.62	1,788.10	30.52	59.591		
4,700.00	4,699.10	4,374.99	4,357.67	16.35	15.56	-126.00	-69.54	1,779.05	1,839.96	1,808.76	31.20	58.969		
4,800.00	4,799.02	4,472.68	4,453.56	16.69	15.95	-126.03	-72.29	1,797.50	1,861.30	1,829.42	31.89	58.369		
4,900.00	4,898.93	4,570.38	4,549.45	17.04	16.34	-126.06	-75.05	1,815.95	1,882.65	1,850.07	32.58	57.792		
5,000.00	4,998.85	4,668.07	4,645.35	17.38	16.73	-126.08	-77.80	1,834.40	1,903.99	1,870.73	33.27	57.234		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	4,765.76	4,741.24	17.72	17.13	-126.11	-80.56	1,852.85	1,925.34	1,891.38	33.96	56.697		
5,200.00	5,198.67	4,863.45	4,837.13	18.07	17.53	-126.14	-83.31	1,871.30	1,946.68	1,912.03	34.65	56.177		
5,300.00	5,298.59	4,961.14	4,933.03	18.41	17.93	-126.17	-86.07	1,889.76	1,968.03	1,932.68	35.35	55.676		
5,400.00	5,398.50	5,058.83	5,028.92	18.76	18.33	-126.19	-88.82	1,908.21	1,989.37	1,953.33	36.04	55.192		
5,500.00	5,498.42	5,156.52	5,124.81	19.11	18.74	-126.22	-91.58	1,926.66	2,010.72	1,973.98	36.74	54.724		
5,600.00	5,598.33	5,254.21	5,220.71	19.45	19.14	-126.24	-94.33	1,945.11	2,032.06	1,994.62	37.44	54.271		
5,700.00	5,698.24	5,351.91	5,316.60	19.80	19.55	-126.26	-97.09	1,963.56	2,053.41	2,015.27	38.14	53.833		
5,800.00	5,798.16	5,449.60	5,412.49	20.15	19.96	-126.29	-99.84	1,982.01	2,074.76	2,035.91	38.85	53.409		
5,900.00	5,898.07	5,547.29	5,508.39	20.50	20.37	-126.31	-102.60	2,000.46	2,096.11	2,056.56	39.55	52.999		
6,000.00	5,997.98	5,644.98	5,604.28	20.85	20.78	-126.33	-105.35	2,018.91	2,117.45	2,077.20	40.25	52.601		
6,100.00	6,097.90	5,742.67	5,700.18	21.20	21.20	-126.36	-108.10	2,037.37	2,138.80	2,097.84	40.96	52.216		
6,200.00	6,197.81	5,840.36	5,796.07	21.55	21.61	-126.38	-110.86	2,055.82	2,160.15	2,118.48	41.67	51.843		
6,300.00	6,297.73	5,938.05	5,891.96	21.90	22.03	-126.40	-113.61	2,074.27	2,181.50	2,139.12	42.38	51.481		
6,400.00	6,397.64	6,035.75	5,987.86	22.25	22.44	-126.42	-116.37	2,092.72	2,202.85	2,159.76	43.08	51.129		
6,500.00	6,497.55	6,133.44	6,083.75	22.61	22.86	-126.44	-119.12	2,111.17	2,224.20	2,180.40	43.79	50.788		
6,600.00	6,597.47	6,231.13	6,179.64	22.96	23.28	-126.46	-121.88	2,129.62	2,245.55	2,201.04	44.50	50.457		
6,700.00	6,697.38	6,328.82	6,275.54	23.31	23.70	-126.48	-124.63	2,148.07	2,266.90	2,221.68	45.22	50.136		
6,800.00	6,797.30	6,426.51	6,371.43	23.66	24.12	-126.50	-127.39	2,166.52	2,288.25	2,242.32	45.93	49.823		
6,900.00	6,897.21	6,524.20	6,467.32	24.02	24.54	-126.52	-130.14	2,184.98	2,309.60	2,262.96	46.64	49.520		
7,000.00	6,997.12	6,621.89	6,563.22	24.37	24.96	-126.54	-132.90	2,203.43	2,330.95	2,283.59	47.35	49.224		
7,100.00	7,097.04	6,719.59	6,659.11	24.73	25.39	-126.56	-135.65	2,221.88	2,352.30	2,304.23	48.07	48.937		
7,200.00	7,196.95	6,817.28	6,755.00	25.08	25.81	-126.57	-138.41	2,240.33	2,373.65	2,324.87	48.78	48.658		
7,300.00	7,296.87	6,914.97	6,850.90	25.43	26.23	-126.59	-141.16	2,258.78	2,395.00	2,345.50	49.50	48.386		
7,400.00	7,396.78	7,012.66	6,946.79	25.79	26.66	-126.61	-143.92	2,277.23	2,416.35	2,366.14	50.21	48.121		
7,500.00	7,496.69	7,110.35	7,042.69	26.14	27.08	-126.63	-146.67	2,295.68	2,437.70	2,386.77	50.93	47.863		
7,600.00	7,596.61	7,208.04	7,138.58	26.50	27.51	-126.64	-149.43	2,314.13	2,459.05	2,407.41	51.65	47.611		
7,700.00	7,696.52	7,305.73	7,234.47	26.86	27.93	-126.66	-152.18	2,332.59	2,480.41	2,428.04	52.37	47.366		
7,800.00	7,796.44	7,403.43	7,330.37	27.21	28.36	-126.68	-154.94	2,351.04	2,501.76	2,448.67	53.08	47.128		
7,900.00	7,896.35	7,501.12	7,426.26	27.57	28.79	-126.69	-157.69	2,369.49	2,523.11	2,469.31	53.80	46.895		
8,000.00	7,996.26	7,601.19	7,522.15	27.92	29.23	-126.71	-160.44	2,387.94	2,544.46	2,489.93	54.53	46.660		
8,100.00	8,096.18	7,703.50	7,618.05	28.28	29.67	-126.72	-163.20	2,406.39	2,565.82	2,510.55	55.27	46.424		
8,200.00	8,196.09	7,805.81	7,713.94	28.64	30.12	-126.74	-165.95	2,424.84	2,587.17	2,531.16	56.01	46.193		
8,300.00	8,296.01	7,908.12	7,809.83	28.99	30.57	-126.75	-168.71	2,443.29	2,608.52	2,551.78	56.75	45.968		
8,400.00	8,395.92	7,989.57	7,905.73	29.35	30.93	-126.77	-171.46	2,461.74	2,629.88	2,572.47	57.41	45.812		
8,500.00	8,495.83	8,087.27	8,001.62	29.71	31.36	-126.78	-174.22	2,480.20	2,651.23	2,593.10	58.13	45.610		
8,600.00	8,595.75	8,230.79	8,142.61	30.06	31.99	-126.80	-178.18	2,506.75	2,672.41	2,613.28	59.12	45.201		
8,700.00	8,695.66	8,554.43	8,463.31	30.42	33.29	-126.91	-184.49	2,549.01	2,687.97	2,626.99	60.98	44.083		
8,800.00	8,795.58	8,884.23	8,792.66	30.78	34.43	-127.09	-186.78	2,564.31	2,695.11	2,632.64	62.47	43.141		
8,900.00	8,895.49	9,005.83	8,902.59	31.14	34.82	-127.17	-186.78	2,564.33	2,697.63	2,634.40	63.23	42.663		
9,000.00	8,995.40	9,105.92	9,002.50	31.50	35.14	-127.24	-186.78	2,564.33	2,700.14	2,636.21	63.93	42.239		
9,100.00	9,095.32	9,193.99	9,102.42	31.85	35.41	-127.31	-186.78	2,564.33	2,702.65	2,638.07	64.58	41.850		
9,200.00	9,195.23	9,295.68	9,204.05	32.21	35.74	-127.42	-184.85	2,564.32	2,705.15	2,639.88	65.28	41.441		
9,300.00	9,295.14	9,395.64	9,302.46	32.57	36.04	-127.85	-168.02	2,564.20	2,707.62	2,641.66	65.96	41.047		
9,400.00	9,395.06	9,486.27	9,387.94	32.93	36.29	-128.54	-138.20	2,563.98	2,710.40	2,643.78	66.61	40.688		
9,500.00	9,494.97	9,565.03	9,457.62	33.29	36.47	-129.36	-101.61	2,563.71	2,714.04	2,646.81	67.23	40.372		
9,523.61	9,518.56	9,581.84	9,471.79	33.37	36.51	-129.56	-92.59	2,563.64	2,715.09	2,647.72	67.36	40.305		
9,600.00	9,594.91	9,632.03	9,512.47	33.64	36.61	-130.24	-63.21	2,563.43	2,718.63	2,650.84	67.79	40.103		
9,682.09	9,677.00	9,679.58	9,548.50	33.93	36.70	86.53	-32.20	2,563.20	2,722.58	2,654.36	68.21	39.912		
9,700.00	9,694.91	9,689.14	9,555.43	33.99	36.71	86.39	-25.61	2,563.15	2,723.51	2,655.21	68.30	39.875		
9,800.00	9,794.91	9,737.28	9,588.58	34.33	36.78	85.65	9.27	2,562.90	2,730.08	2,661.33	68.75	39.709		
9,900.00	9,894.91	9,777.67	9,614.06	34.68	36.83	85.00	40.60	2,562.67	2,739.23	2,670.08	69.15	39.615		
10,000.00	9,994.91	9,811.72	9,633.77	35.02	36.87	84.41	68.36	2,562.47	2,751.16	2,681.69	69.48	39.598		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	9,821.52	9,639.14	35.13	36.88	84.24	76.55	2,562.41	2,755.62	2,686.05	69.57	39.608		
10,050.00	10,044.90	9,826.88	9,642.01	35.19	36.88	84.30	81.08	2,562.37	2,758.20	2,688.58	69.62	39.617		
10,100.00	10,094.75	9,850.00	9,653.93	35.36	36.91	83.16	100.89	2,562.23	2,765.64	2,695.86	69.78	39.635		
10,150.00	10,144.08	9,850.00	9,653.93	35.53	36.91	82.40	100.89	2,562.23	2,773.27	2,703.43	69.84	39.711		
10,200.00	10,192.52	9,875.28	9,666.03	35.68	36.93	81.24	123.09	2,562.06	2,780.97	2,711.00	69.97	39.744		
10,250.00	10,239.69	9,900.00	9,676.90	35.84	36.95	80.11	145.28	2,561.90	2,788.73	2,718.64	70.09	39.786		
10,300.00	10,285.26	9,900.00	9,676.90	35.98	36.95	79.35	145.28	2,561.90	2,796.40	2,726.29	70.11	39.886		
10,350.00	10,328.85	9,928.18	9,688.11	36.12	36.96	78.25	171.13	2,561.71	2,803.83	2,733.61	70.22	39.929		
10,400.00	10,370.15	9,950.00	9,695.92	36.25	36.98	77.29	191.50	2,561.56	2,811.04	2,740.73	70.31	39.982		
10,450.00	10,408.84	9,965.12	9,700.86	36.37	36.98	76.46	205.79	2,561.46	2,817.89	2,747.52	70.36	40.047		
10,500.00	10,444.62	9,983.96	9,706.50	36.49	36.99	75.66	223.77	2,561.33	2,824.31	2,753.88	70.43	40.100		
10,550.00	10,477.22	10,000.00	9,710.83	36.61	37.00	74.94	239.21	2,561.21	2,830.24	2,759.75	70.49	40.150		
10,600.00	10,506.40	10,022.22	9,716.11	36.73	37.01	74.26	260.79	2,561.06	2,835.59	2,765.01	70.58	40.175		
10,650.00	10,531.93	10,050.00	9,721.53	36.85	37.03	73.63	288.03	2,560.86	2,840.36	2,769.66	70.70	40.177		
10,700.00	10,553.61	10,050.00	9,721.53	36.97	37.03	73.24	288.03	2,560.86	2,844.44	2,773.72	70.73	40.216		
10,750.00	10,571.29	10,080.64	9,725.97	37.10	37.04	72.78	318.35	2,560.64	2,847.74	2,776.86	70.88	40.177		
10,800.00	10,584.83	10,100.00	9,727.94	37.22	37.06	72.47	337.60	2,560.49	2,850.33	2,779.32	71.01	40.142		
10,850.00	10,594.12	10,120.00	9,729.28	37.34	37.07	72.25	357.56	2,560.35	2,852.15	2,780.99	71.15	40.085		
10,900.00	10,599.10	10,148.62	9,730.00	37.47	37.09	72.12	386.16	2,560.14	2,853.20	2,781.86	71.34	39.994		
10,932.14	10,600.00	10,158.28	9,730.00	37.55	37.10	72.10	395.82	2,560.07	2,853.38	2,781.93	71.45	39.937		
11,000.00	10,600.00	10,226.14	9,730.00	37.73	37.18	72.10	463.68	2,559.57	2,853.37	2,781.53	71.84	39.979		
11,100.00	10,600.00	10,326.14	9,730.00	38.04	37.35	72.10	563.68	2,558.84	2,853.35	2,780.85	72.50	39.356		
11,200.00	10,600.00	10,426.14	9,730.00	38.41	37.61	72.10	663.68	2,558.11	2,853.33	2,780.07	73.26	38.946		
11,300.00	10,600.00	10,526.14	9,730.00	38.83	37.95	72.10	763.68	2,557.38	2,853.32	2,779.19	74.12	38.493		
11,400.00	10,600.00	10,626.14	9,730.00	39.30	38.37	72.10	863.67	2,556.64	2,853.30	2,778.22	75.08	38.003		
11,500.00	10,600.00	10,726.14	9,730.00	39.81	38.86	72.10	963.67	2,555.91	2,853.28	2,777.15	76.13	37.479		
11,600.00	10,600.00	10,826.14	9,730.00	40.37	39.42	72.10	1,063.67	2,555.18	2,853.26	2,776.00	77.27	36.927		
11,700.00	10,600.00	10,926.14	9,730.00	40.98	40.02	72.10	1,163.67	2,554.45	2,853.25	2,774.76	78.49	36.352		
11,800.00	10,600.00	11,026.14	9,730.00	41.62	40.68	72.10	1,263.66	2,553.72	2,853.23	2,773.44	79.79	35.758		
11,900.00	10,600.00	11,126.14	9,730.00	42.31	41.38	72.10	1,363.66	2,552.98	2,853.21	2,772.04	81.17	35.151		
12,000.00	10,600.00	11,226.14	9,730.00	43.04	42.12	72.10	1,463.66	2,552.25	2,853.20	2,770.57	82.62	34.533		
12,100.00	10,600.00	11,326.14	9,730.00	43.80	42.90	72.10	1,563.65	2,551.52	2,853.18	2,769.03	84.14	33.909		
12,200.00	10,600.00	11,426.14	9,730.00	44.60	43.72	72.10	1,663.65	2,550.79	2,853.16	2,767.43	85.73	33.281		
12,300.00	10,600.00	11,526.14	9,730.00	45.43	44.57	72.10	1,763.65	2,550.05	2,853.14	2,765.77	87.38	32.653		
12,400.00	10,600.00	11,626.14	9,730.00	46.29	45.45	72.10	1,863.65	2,549.32	2,853.13	2,764.04	89.08	32.028		
12,500.00	10,600.00	11,726.14	9,730.00	47.17	46.35	72.10	1,963.64	2,548.59	2,853.11	2,762.26	90.84	31.407		
12,600.00	10,600.00	11,826.14	9,730.00	48.09	47.29	72.10	2,063.64	2,547.86	2,853.09	2,760.43	92.66	30.792		
12,700.00	10,600.00	11,926.14	9,730.00	49.04	48.25	72.10	2,163.64	2,547.13	2,853.07	2,758.55	94.52	30.185		
12,800.00	10,600.00	12,026.14	9,730.00	50.00	49.24	72.10	2,263.64	2,546.39	2,853.06	2,756.63	96.43	29.587		
12,900.00	10,600.00	12,126.14	9,730.00	50.99	50.25	72.10	2,363.63	2,545.66	2,853.04	2,754.66	98.38	29.000		
13,000.00	10,600.00	12,226.14	9,730.00	52.01	51.28	72.10	2,463.63	2,544.93	2,853.02	2,752.65	100.37	28.424		
13,100.00	10,600.00	12,326.14	9,730.00	53.04	52.33	72.10	2,563.63	2,544.20	2,853.00	2,750.60	102.40	27.860		
13,200.00	10,600.00	12,426.14	9,730.00	54.09	53.40	72.10	2,663.62	2,543.47	2,852.99	2,748.52	104.47	27.309		
13,300.00	10,600.00	12,526.14	9,730.00	55.16	54.49	72.10	2,763.62	2,542.73	2,852.97	2,746.40	106.57	26.770		
13,400.00	10,600.00	12,626.14	9,730.00	56.25	55.60	72.10	2,863.62	2,542.00	2,852.95	2,744.25	108.71	26.245		
13,500.00	10,600.00	12,726.14	9,730.00	57.36	56.72	72.10	2,963.62	2,541.27	2,852.93	2,742.06	110.87	25.732		
13,600.00	10,600.00	12,826.14	9,730.00	58.48	57.85	72.09	3,063.61	2,540.54	2,852.92	2,739.85	113.06	25.233		
13,700.00	10,600.00	12,926.14	9,730.00	59.61	59.00	72.09	3,163.61	2,539.81	2,852.90	2,737.62	115.28	24.747		
13,800.00	10,600.00	13,026.14	9,730.00	60.76	60.17	72.09	3,263.61	2,539.07	2,852.88	2,735.35	117.53	24.274		
13,900.00	10,600.00	13,126.14	9,730.00	61.92	61.34	72.09	3,363.61	2,538.34	2,852.87	2,733.07	119.80	23.814		
14,000.00	10,600.00	13,226.14	9,730.00	63.10	62.53	72.09	3,463.60	2,537.61	2,852.85	2,730.76	122.09	23.367		
14,100.00	10,600.00	13,326.14	9,730.00	64.28	63.73	72.09	3,563.60	2,536.88	2,852.83	2,728.43	124.40	22.932		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	13,426.14	9,730.00	65.48	64.93	72.09	3,663.60	2,536.15	2,852.81	2,726.08	126.74	22.510	
14,300.00	10,600.00	13,526.14	9,730.00	66.68	66.15	72.09	3,763.60	2,535.41	2,852.80	2,723.71	129.09	22.099	
14,400.00	10,600.00	13,626.14	9,730.00	67.90	67.38	72.09	3,863.59	2,534.68	2,852.78	2,721.32	131.46	21.701	
14,500.00	10,600.00	13,726.14	9,730.00	69.13	68.62	72.09	3,963.59	2,533.95	2,852.76	2,718.91	133.85	21.314	
14,600.00	10,600.00	13,826.14	9,730.00	70.36	69.86	72.09	4,063.59	2,533.22	2,852.74	2,716.49	136.25	20.937	
14,700.00	10,600.00	13,926.14	9,730.00	71.60	71.12	72.09	4,163.58	2,532.49	2,852.73	2,714.06	138.67	20.572	
14,800.00	10,600.00	14,026.14	9,730.00	72.85	72.38	72.09	4,263.58	2,531.75	2,852.71	2,711.60	141.11	20.217	
14,900.00	10,600.00	14,126.14	9,730.00	74.11	73.64	72.09	4,363.58	2,531.02	2,852.69	2,709.14	143.55	19.872	
15,000.00	10,600.00	14,226.14	9,730.00	75.38	74.92	72.09	4,463.58	2,530.29	2,852.67	2,706.66	146.01	19.537	
15,100.00	10,600.00	14,326.14	9,730.00	76.65	76.20	72.09	4,563.57	2,529.56	2,852.66	2,704.17	148.49	19.211	
15,200.00	10,600.00	14,426.14	9,730.00	77.93	77.49	72.09	4,663.57	2,528.83	2,852.64	2,701.67	150.97	18.895	
15,300.00	10,600.00	14,526.14	9,730.00	79.21	78.78	72.09	4,763.57	2,528.09	2,852.62	2,699.15	153.47	18.587	
15,400.00	10,600.00	14,626.14	9,730.00	80.50	80.08	72.09	4,863.57	2,527.36	2,852.60	2,696.63	155.98	18.288	
15,500.00	10,600.00	14,726.14	9,730.00	81.80	81.38	72.09	4,963.56	2,526.63	2,852.59	2,694.09	158.50	17.998	
15,575.11	10,600.00	14,801.25	9,730.00	82.77	82.37	72.09	5,038.67	2,526.08	2,852.57	2,692.18	160.39	17.785 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.05	54.46	3,296.36	3,296.85					
100.00	100.00	83.70	83.70	0.52	0.51	89.05	54.46	3,296.36	3,296.81	3,295.78	1.03	3,199.979		
200.00	200.00	183.70	183.70	0.70	0.66	89.05	54.46	3,296.36	3,296.81	3,295.44	1.36	2,416.138		
300.00	300.00	283.70	283.70	0.99	0.94	89.05	54.46	3,296.36	3,296.81	3,294.88	1.92	1,712.846		
400.00	400.00	383.70	383.70	1.31	1.26	89.05	54.46	3,296.36	3,296.81	3,294.24	2.56	1,285.617		
500.00	500.00	483.70	483.70	1.65	1.59	89.05	54.46	3,296.36	3,296.81	3,293.57	3.24	1,018.600		
600.00	600.00	583.70	583.70	1.99	1.93	89.05	54.46	3,296.36	3,296.81	3,292.88	3.92	840.014		
700.00	700.00	683.70	683.70	2.34	2.28	89.05	54.46	3,296.36	3,296.81	3,292.18	4.62	713.350		
800.00	800.00	783.70	783.70	2.69	2.63	89.05	54.46	3,296.36	3,296.81	3,291.48	5.32	619.258		
900.00	900.00	883.70	883.70	3.04	2.99	89.05	54.46	3,296.36	3,296.81	3,290.78	6.03	546.781		
1,000.00	1,000.00	983.70	983.70	3.40	3.34	89.05	54.46	3,296.36	3,296.81	3,290.07	6.74	489.319		
1,100.00	1,100.00	1,083.70	1,083.70	3.75	3.69	89.05	54.46	3,296.36	3,296.81	3,289.36	7.45	442.685		
1,200.00	1,200.00	1,183.70	1,183.70	4.11	4.05	89.05	54.46	3,296.36	3,296.81	3,288.65	8.16	404.104		
1,300.00	1,300.00	1,283.70	1,283.70	4.46	4.41	89.05	54.46	3,296.36	3,296.81	3,287.94	8.87	371.668		
1,400.00	1,400.00	1,383.70	1,383.70	4.82	4.76	89.05	54.46	3,296.36	3,296.81	3,287.22	9.58	344.026		
1,500.00	1,500.00	1,483.70	1,483.70	5.18	5.12	89.05	54.46	3,296.36	3,296.81	3,286.51	10.30	320.193		
1,600.00	1,600.00	1,583.70	1,583.70	5.53	5.48	89.05	54.46	3,296.36	3,296.81	3,285.80	11.01	299.435		
1,700.00	1,700.00	1,683.70	1,683.70	5.89	5.83	89.05	54.46	3,296.36	3,296.81	3,285.08	11.72	281.196		
1,800.00	1,800.00	1,783.70	1,783.70	6.25	6.19	89.05	54.46	3,296.36	3,296.81	3,284.37	12.44	265.044		
1,900.00	1,900.00	1,883.70	1,883.70	6.61	6.55	89.05	54.46	3,296.36	3,296.81	3,283.65	13.15	250.642		
2,000.00	2,000.00	1,983.70	1,983.70	6.96	6.91	89.05	54.46	3,296.36	3,296.81	3,282.94	13.87	237.720		
2,100.00	2,100.00	2,083.70	2,083.70	7.32	7.26	89.05	54.46	3,296.36	3,296.81	3,282.22	14.58	226.062		
2,200.00	2,200.00	2,183.70	2,183.70	7.68	7.62	89.05	54.46	3,296.36	3,296.81	3,281.51	15.30	215.492		
2,300.00	2,300.00	2,283.70	2,283.70	8.04	7.98	89.05	54.46	3,296.36	3,296.81	3,280.79	16.01	205.865		
2,400.00	2,400.00	2,383.70	2,383.70	8.39	8.34	89.05	54.46	3,296.36	3,296.81	3,280.08	16.73	197.059		
2,500.00	2,500.00	2,483.70	2,483.70	8.75	8.69	89.05	54.46	3,296.36	3,296.81	3,279.36	17.45	188.975		
2,600.00	2,600.00	2,583.70	2,583.70	9.11	9.05	89.05	54.46	3,296.36	3,296.81	3,278.64	18.16	181.527		
2,700.00	2,700.00	2,683.70	2,683.70	9.47	9.41	89.05	54.46	3,296.36	3,296.81	3,277.93	18.88	174.643		
2,709.72	2,709.72	2,693.42	2,693.42	9.50	9.44	89.05	54.46	3,296.36	3,296.81	3,277.86	18.95	174.001 CC		
2,800.00	2,800.00	2,775.05	2,775.05	9.83	9.73	89.05	54.42	3,296.39	3,296.85	3,277.29	19.56	168.566 ES		
2,900.00	2,900.00	2,849.36	2,849.36	10.18	9.98	89.07	53.78	3,296.89	3,297.50	3,277.34	20.16	163.553		
3,000.00	3,000.00	2,923.64	2,923.62	10.54	10.22	89.09	52.38	3,297.97	3,298.93	3,278.17	20.76	158.904		
3,100.00	3,100.00	3,000.00	2,999.92	10.90	10.47	89.13	50.15	3,299.70	3,301.15	3,279.78	21.37	154.503		
3,200.00	3,200.00	3,074.81	3,074.64	11.26	10.72	89.18	47.20	3,302.00	3,304.14	3,282.17	21.97	150.414		
3,300.00	3,300.00	3,174.66	3,174.34	11.62	11.05	89.26	42.88	3,305.35	3,307.44	3,284.78	22.66	145.985		
3,400.00	3,400.00	3,274.51	3,274.04	11.97	11.39	89.33	38.56	3,308.71	3,310.75	3,287.40	23.35	141.805		
3,500.00	3,500.00	3,374.36	3,373.74	12.33	11.72	89.41	34.25	3,312.06	3,314.06	3,290.02	24.04	137.855		
3,600.00	3,600.00	3,474.22	3,473.45	12.67	12.06	-127.97	29.93	3,315.42	3,317.92	3,293.20	24.72	134.229		
3,700.00	3,699.96	3,574.07	3,573.15	13.00	12.40	-127.89	25.61	3,318.77	3,322.85	3,297.47	25.38	130.911		
3,737.73	3,737.66	3,611.73	3,610.76	13.13	12.53	-127.86	23.98	3,320.04	3,324.99	3,299.36	25.63	129.710		
3,800.00	3,799.88	3,673.90	3,672.82	13.33	12.74	-127.85	21.29	3,322.12	3,328.65	3,302.60	26.05	127.781		
3,900.00	3,899.79	3,773.72	3,772.49	13.66	13.08	-127.83	16.97	3,325.48	3,334.52	3,307.80	26.72	124.797		
4,000.00	3,999.71	3,873.54	3,872.17	13.99	13.43	-127.82	12.66	3,328.83	3,340.40	3,313.01	27.39	121.947		
4,100.00	4,099.62	3,973.36	3,971.84	14.32	13.77	-127.80	8.34	3,332.19	3,346.27	3,318.20	28.07	119.221		
4,200.00	4,199.53	4,073.18	4,071.51	14.66	14.12	-127.78	4.02	3,335.54	3,352.15	3,323.40	28.75	116.614		
4,300.00	4,299.45	4,173.00	4,171.18	15.00	14.46	-127.76	-0.29	3,338.89	3,358.02	3,328.60	29.43	114.117		
4,400.00	4,399.36	4,272.82	4,270.85	15.33	14.81	-127.74	-4.61	3,342.25	3,363.90	3,333.79	30.11	111.726		
4,500.00	4,499.28	4,372.65	4,370.53	15.67	15.16	-127.73	-8.93	3,345.60	3,369.77	3,338.98	30.79	109.433		
4,600.00	4,599.19	4,472.47	4,470.20	16.01	15.51	-127.71	-13.24	3,348.95	3,375.65	3,344.17	31.48	107.233		
4,700.00	4,699.10	4,572.29	4,569.87	16.35	15.86	-127.69	-17.56	3,352.31	3,381.52	3,349.36	32.17	105.122		
4,800.00	4,799.02	4,672.11	4,669.54	16.69	16.21	-127.67	-21.88	3,355.66	3,387.40	3,354.54	32.86	103.094		
4,900.00	4,898.93	4,771.93	4,769.21	17.04	16.56	-127.65	-26.19	3,359.02	3,393.28	3,359.73	33.55	101.144		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	4,998.85	4,871.75	4,868.88	17.38	16.92	-127.64	-30.51	3,362.37	3,399.16	3,364.91	34.24	99.269		
5,100.00	5,098.76	4,971.58	4,968.56	17.72	17.27	-127.62	-34.83	3,365.72	3,405.03	3,370.10	34.94	97.464		
5,200.00	5,198.67	5,071.40	5,068.23	18.07	17.62	-127.60	-39.14	3,369.08	3,410.91	3,375.28	35.63	95.727		
5,300.00	5,298.59	5,171.22	5,167.90	18.41	17.98	-127.58	-43.46	3,372.43	3,416.79	3,380.46	36.33	94.052		
5,400.00	5,398.50	5,271.04	5,267.57	18.76	18.33	-127.56	-47.78	3,375.78	3,422.67	3,385.64	37.03	92.438		
5,500.00	5,498.42	5,370.86	5,367.24	19.11	18.69	-127.55	-52.09	3,379.14	3,428.55	3,390.82	37.73	90.881		
5,600.00	5,598.33	5,470.68	5,466.92	19.45	19.04	-127.53	-56.41	3,382.49	3,434.43	3,396.00	38.43	89.378		
5,700.00	5,698.24	5,570.51	5,566.59	19.80	19.40	-127.51	-60.73	3,385.85	3,440.30	3,401.18	39.13	87.927		
5,800.00	5,798.16	5,670.33	5,666.26	20.15	19.75	-127.50	-65.05	3,389.20	3,446.18	3,406.36	39.83	86.525		
5,900.00	5,898.07	5,770.15	5,765.93	20.50	20.11	-127.48	-69.36	3,392.55	3,452.06	3,411.53	40.53	85.169		
6,000.00	5,997.98	5,869.97	5,865.60	20.85	20.47	-127.46	-73.68	3,395.91	3,457.94	3,416.71	41.24	83.858		
6,100.00	6,097.90	5,969.79	5,965.27	21.20	20.83	-127.44	-78.00	3,399.26	3,463.83	3,421.89	41.94	82.590		
6,200.00	6,197.81	6,069.61	6,064.95	21.55	21.18	-127.43	-82.31	3,402.61	3,469.71	3,427.06	42.65	81.362		
6,300.00	6,297.73	6,169.44	6,164.62	21.90	21.54	-127.41	-86.63	3,405.97	3,475.59	3,432.24	43.35	80.172		
6,400.00	6,397.64	6,269.26	6,264.29	22.25	21.90	-127.39	-90.95	3,409.32	3,481.47	3,437.41	44.06	79.020		
6,500.00	6,497.55	6,369.08	6,363.96	22.61	22.26	-127.38	-95.26	3,412.68	3,487.35	3,442.59	44.77	77.903		
6,600.00	6,597.47	6,468.90	6,463.63	22.96	22.62	-127.36	-99.58	3,416.03	3,493.23	3,447.76	45.47	76.819		
6,700.00	6,697.38	6,568.72	6,563.31	23.31	22.98	-127.34	-103.90	3,419.38	3,499.12	3,452.93	46.18	75.768		
6,800.00	6,797.30	6,668.54	6,662.98	23.66	23.34	-127.33	-108.21	3,422.74	3,505.00	3,458.11	46.89	74.747		
6,900.00	6,897.21	6,768.36	6,762.65	24.02	23.70	-127.31	-112.53	3,426.09	3,510.88	3,463.28	47.60	73.757		
7,000.00	6,997.12	6,868.19	6,862.32	24.37	24.06	-127.29	-116.85	3,429.44	3,516.77	3,468.45	48.31	72.794		
7,100.00	7,097.04	6,968.01	6,961.99	24.73	24.42	-127.28	-121.16	3,432.80	3,522.65	3,473.63	49.02	71.859		
7,200.00	7,196.95	7,067.83	7,061.66	25.08	24.78	-127.26	-125.48	3,436.15	3,528.53	3,478.80	49.73	70.950		
7,300.00	7,296.87	7,167.65	7,161.34	25.43	25.14	-127.24	-129.80	3,439.51	3,534.42	3,483.97	50.44	70.065		
7,400.00	7,396.78	7,267.47	7,261.01	25.79	25.50	-127.23	-134.12	3,442.86	3,540.30	3,489.15	51.16	69.205		
7,500.00	7,496.69	7,367.29	7,360.68	26.14	25.86	-127.21	-138.43	3,446.21	3,546.19	3,494.32	51.87	68.368		
7,600.00	7,596.61	7,467.12	7,460.35	26.50	26.22	-127.19	-142.75	3,449.57	3,552.07	3,499.49	52.58	67.553		
7,700.00	7,696.52	7,566.94	7,560.02	26.86	26.58	-127.18	-147.07	3,452.92	3,557.96	3,504.66	53.30	66.759		
7,800.00	7,796.44	7,666.76	7,659.69	27.21	26.94	-127.16	-151.38	3,456.27	3,563.84	3,509.83	54.01	65.986		
7,900.00	7,896.35	7,766.58	7,759.37	27.57	27.30	-127.15	-155.70	3,459.63	3,569.73	3,515.01	54.72	65.233		
8,000.00	7,996.26	7,866.40	7,859.04	27.92	27.66	-127.13	-160.02	3,462.98	3,575.62	3,520.18	55.44	64.498		
8,100.00	8,096.18	7,966.22	7,958.71	28.28	28.02	-127.11	-164.33	3,466.34	3,581.50	3,525.35	56.15	63.782		
8,200.00	8,196.09	8,066.05	8,058.38	28.64	28.39	-127.10	-168.65	3,469.69	3,587.39	3,530.52	56.87	63.084		
8,300.00	8,296.01	8,165.87	8,158.05	28.99	28.75	-127.08	-172.97	3,473.04	3,593.28	3,535.69	57.58	62.402		
8,400.00	8,395.92	8,265.69	8,257.73	29.35	29.11	-127.07	-177.28	3,476.40	3,599.16	3,540.87	58.30	61.737		
8,500.00	8,495.83	8,365.51	8,357.40	29.71	29.47	-127.05	-181.60	3,479.75	3,605.05	3,546.04	59.01	61.088		
8,600.00	8,595.75	8,465.33	8,457.07	30.06	29.84	-127.03	-185.92	3,483.10	3,610.94	3,551.21	59.73	60.454		
8,700.00	8,695.66	8,565.15	8,556.74	30.42	30.20	-127.02	-190.23	3,486.46	3,616.83	3,556.38	60.45	59.835		
8,800.00	8,795.58	8,748.43	8,739.86	30.78	30.86	-127.02	-196.07	3,490.99	3,622.04	3,560.56	61.48	58.914		
8,900.00	8,895.49	8,887.77	8,879.19	31.14	31.34	-127.09	-196.54	3,491.36	3,624.69	3,562.37	62.32	58.163		
9,000.00	8,995.40	8,987.68	8,979.10	31.50	31.68	-127.14	-196.54	3,491.36	3,627.20	3,564.18	63.01	57.561		
9,100.00	9,095.32	9,087.60	9,079.02	31.85	32.02	-127.19	-196.54	3,491.36	3,629.70	3,565.99	63.71	56.971		
9,200.00	9,195.23	9,189.16	9,180.57	32.21	32.36	-127.25	-196.06	3,491.35	3,632.21	3,567.80	64.41	56.390		
9,300.00	9,295.14	9,293.69	9,284.04	32.57	32.70	-127.52	-182.29	3,491.25	3,634.61	3,569.50	65.11	55.823		
9,400.00	9,395.06	9,389.18	9,374.97	32.93	32.98	-128.02	-153.48	3,491.03	3,637.10	3,571.34	65.76	55.312		
9,500.00	9,494.97	9,472.30	9,449.29	33.29	33.21	-128.65	-116.41	3,490.75	3,640.09	3,573.74	66.35	54.865		
9,523.61	9,518.56	9,490.01	9,464.38	33.37	33.25	-128.80	-107.14	3,490.68	3,640.92	3,574.44	66.48	54.769		
9,600.00	9,594.91	9,542.82	9,507.58	33.64	33.38	-129.32	-76.80	3,490.45	3,643.56	3,576.68	66.88	54.476		
9,682.09	9,677.00	9,592.65	9,545.62	33.93	33.50	87.60	-44.64	3,490.20	3,646.21	3,578.92	67.28	54.191		
9,700.00	9,694.91	9,602.64	9,552.90	33.99	33.52	87.50	-37.80	3,490.15	3,646.80	3,579.43	67.37	54.134		
9,800.00	9,794.91	9,650.00	9,585.75	34.33	33.62	86.96	-3.70	3,489.89	3,651.12	3,583.33	67.79	53.860		
9,900.00	9,894.91	9,700.00	9,617.25	34.68	33.73	86.35	35.11	3,489.60	3,657.34	3,589.14	68.20	53.628		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,000.00	9,994.91	9,729.67	9,634.30	35.02	33.80	85.97	59.38	3,489.41	3,665.64	3,597.11	68.52	53.494		
10,032.13	10,027.04	9,739.72	9,639.79	35.13	33.82	85.84	67.81	3,489.35	3,668.77	3,600.14	68.63	53.461		
10,050.00	10,044.90	9,750.00	9,645.24	35.19	33.84	85.93	76.51	3,489.28	3,670.60	3,601.90	68.69	53.433		
10,100.00	10,094.75	9,761.09	9,650.96	35.36	33.87	85.26	86.02	3,489.21	3,675.86	3,607.03	68.83	53.407		
10,150.00	10,144.08	9,777.62	9,659.13	35.53	33.90	84.52	100.39	3,489.10	3,681.30	3,612.34	68.97	53.379		
10,200.00	10,192.52	9,800.00	9,669.52	35.68	33.95	83.71	120.20	3,488.95	3,686.86	3,617.75	69.11	53.345		
10,250.00	10,239.69	9,812.29	9,674.90	35.84	33.98	83.01	131.25	3,488.87	3,692.45	3,623.23	69.22	53.344		
10,300.00	10,285.26	9,830.28	9,682.34	35.98	34.02	82.28	147.63	3,488.74	3,698.00	3,628.67	69.33	53.336		
10,350.00	10,328.85	9,850.00	9,689.90	36.12	34.07	81.55	165.84	3,488.60	3,703.45	3,634.00	69.45	53.326		
10,400.00	10,370.15	9,867.29	9,696.01	36.25	34.11	80.87	182.02	3,488.48	3,708.73	3,639.18	69.55	53.325		
10,450.00	10,408.84	9,886.22	9,702.14	36.37	34.15	80.22	199.93	3,488.34	3,713.78	3,644.12	69.65	53.318		
10,500.00	10,444.62	9,900.00	9,706.23	36.49	34.19	79.64	213.08	3,488.24	3,718.54	3,648.80	69.74	53.322		
10,550.00	10,477.22	9,924.74	9,712.77	36.61	34.24	79.04	236.94	3,488.06	3,722.94	3,653.08	69.86	53.293		
10,600.00	10,506.40	9,950.00	9,718.37	36.73	34.30	78.50	261.57	3,487.88	3,726.96	3,656.98	69.98	53.256		
10,650.00	10,531.93	9,963.94	9,721.00	36.85	34.34	78.09	275.26	3,487.77	3,730.52	3,660.44	70.08	53.234		
10,700.00	10,553.61	9,983.73	9,724.16	36.97	34.39	77.70	294.80	3,487.62	3,733.60	3,663.40	70.20	53.188		
10,750.00	10,571.29	10,000.00	9,726.25	37.10	34.43	77.39	310.93	3,487.50	3,736.17	3,665.86	70.31	53.135		
10,800.00	10,584.83	10,023.58	9,728.46	37.22	34.49	77.13	334.40	3,487.32	3,738.19	3,667.73	70.46	53.053		
10,850.00	10,594.12	10,050.00	9,729.79	37.34	34.55	76.94	360.78	3,487.12	3,739.66	3,669.03	70.63	52.950		
10,900.00	10,599.10	10,065.62	9,730.00	37.47	34.59	76.84	376.40	3,487.00	3,740.52	3,669.75	70.77	52.852		
10,932.14	10,600.00	10,107.17	9,730.00	37.55	34.70	76.81	403.61	3,486.80	3,740.71	3,669.75	70.96	52.716		
11,000.00	10,600.00	10,160.70	9,730.00	37.73	34.86	76.81	471.48	3,486.28	3,740.68	3,669.38	71.30	52.466		
11,100.00	10,600.00	10,260.70	9,730.00	38.04	35.20	76.81	571.47	3,485.52	3,740.63	3,668.70	71.94	51.999		
11,200.00	10,600.00	10,360.70	9,730.00	38.41	35.59	76.81	671.47	3,484.76	3,740.59	3,667.91	72.68	51.465		
11,300.00	10,600.00	10,460.70	9,730.00	38.83	36.04	76.81	771.47	3,484.00	3,740.54	3,667.01	73.53	50.870		
11,400.00	10,600.00	10,560.70	9,730.00	39.30	36.54	76.81	871.47	3,483.24	3,740.50	3,666.02	74.48	50.221		
11,500.00	10,600.00	10,660.70	9,730.00	39.81	37.09	76.81	971.46	3,482.48	3,740.46	3,664.93	75.53	49.524		
11,600.00	10,600.00	10,760.70	9,730.00	40.37	37.69	76.81	1,071.46	3,481.72	3,740.41	3,663.74	76.67	48.788		
11,700.00	10,600.00	10,860.70	9,730.00	40.98	38.34	76.81	1,171.46	3,480.96	3,740.37	3,662.47	77.89	48.019		
11,800.00	10,600.00	10,960.70	9,730.00	41.62	39.03	76.81	1,271.45	3,480.20	3,740.32	3,661.12	79.20	47.224		
11,900.00	10,600.00	11,060.70	9,730.00	42.31	39.76	76.81	1,371.45	3,479.44	3,740.28	3,659.68	80.60	46.408		
12,000.00	10,600.00	11,160.70	9,730.00	43.04	40.53	76.81	1,471.45	3,478.68	3,740.23	3,658.17	82.06	45.578		
12,100.00	10,600.00	11,260.70	9,730.00	43.80	41.33	76.81	1,571.45	3,477.92	3,740.19	3,656.58	83.60	44.738		
12,200.00	10,600.00	11,360.70	9,730.00	44.60	42.17	76.81	1,671.44	3,477.16	3,740.14	3,654.93	85.21	43.894		
12,300.00	10,600.00	11,460.70	9,730.00	45.43	43.05	76.81	1,771.44	3,476.40	3,740.10	3,653.22	86.88	43.049		
12,400.00	10,600.00	11,560.70	9,730.00	46.29	43.95	76.81	1,871.44	3,475.64	3,740.05	3,651.44	88.61	42.207		
12,500.00	10,600.00	11,660.70	9,730.00	47.17	44.89	76.81	1,971.43	3,474.88	3,740.01	3,649.61	90.40	41.371		
12,600.00	10,600.00	11,760.70	9,730.00	48.09	45.85	76.81	2,071.43	3,474.12	3,739.96	3,647.72	92.25	40.544		
12,700.00	10,600.00	11,860.70	9,730.00	49.04	46.83	76.80	2,171.43	3,473.37	3,739.92	3,645.78	94.14	39.727		
12,800.00	10,600.00	11,960.70	9,730.00	50.00	47.84	76.80	2,271.43	3,472.61	3,739.87	3,643.79	96.08	38.924		
12,900.00	10,600.00	12,060.70	9,730.00	50.99	48.88	76.80	2,371.42	3,471.85	3,739.83	3,641.76	98.07	38.135		
13,000.00	10,600.00	12,160.70	9,730.00	52.01	49.93	76.80	2,471.42	3,471.09	3,739.78	3,639.69	100.10	37.362		
13,100.00	10,600.00	12,260.70	9,730.00	53.04	51.00	76.80	2,571.42	3,470.33	3,739.74	3,637.57	102.16	36.605		
13,200.00	10,600.00	12,360.70	9,730.00	54.09	52.10	76.80	2,671.41	3,469.57	3,739.69	3,635.42	104.27	35.865		
13,300.00	10,600.00	12,460.70	9,730.00	55.16	53.21	76.80	2,771.41	3,468.81	3,739.65	3,633.24	106.41	35.143		
13,400.00	10,600.00	12,560.70	9,730.00	56.25	54.33	76.80	2,871.41	3,468.05	3,739.60	3,631.02	108.59	34.439		
13,500.00	10,600.00	12,660.70	9,730.00	57.36	55.47	76.80	2,971.41	3,467.29	3,739.56	3,628.77	110.79	33.754		
13,600.00	10,600.00	12,760.70	9,730.00	58.48	56.63	76.80	3,071.40	3,466.53	3,739.51	3,626.49	113.02	33.086		
13,700.00	10,600.00	12,860.70	9,730.00	59.61	57.80	76.80	3,171.40	3,465.77	3,739.47	3,624.18	115.29	32.436		
13,800.00	10,600.00	12,960.70	9,730.00	60.76	58.98	76.80	3,271.40	3,465.01	3,739.43	3,621.85	117.57	31.805		
13,900.00	10,600.00	13,060.70	9,730.00	61.92	60.18	76.80	3,371.39	3,464.25	3,739.38	3,619.49	119.89	31.191		
14,000.00	10,600.00	13,160.70	9,730.00	63.10	61.38	76.80	3,471.39	3,463.49	3,739.34	3,617.11	122.22	30.595		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	13,260.70	9,730.00	64.28	62.60	76.80	3,571.39	3,462.73	3,739.29	3,614.71	124.58	30.016	
14,200.00	10,600.00	13,360.70	9,730.00	65.48	63.82	76.80	3,671.39	3,461.97	3,739.25	3,612.29	126.96	29.453	
14,300.00	10,600.00	13,460.70	9,730.00	66.68	65.06	76.80	3,771.38	3,461.21	3,739.20	3,609.85	129.35	28.907	
14,400.00	10,600.00	13,560.70	9,730.00	67.90	66.30	76.80	3,871.38	3,460.45	3,739.16	3,607.39	131.77	28.377	
14,500.00	10,600.00	13,660.70	9,730.00	69.13	67.56	76.80	3,971.38	3,459.69	3,739.11	3,604.91	134.20	27.862	
14,600.00	10,600.00	13,760.70	9,730.00	70.36	68.82	76.80	4,071.37	3,458.93	3,739.07	3,602.42	136.65	27.362	
14,700.00	10,600.00	13,860.70	9,730.00	71.60	70.09	76.80	4,171.37	3,458.17	3,739.02	3,599.91	139.12	26.877	
14,800.00	10,600.00	13,960.70	9,730.00	72.85	71.36	76.80	4,271.37	3,457.41	3,738.98	3,597.38	141.60	26.406	
14,900.00	10,600.00	14,060.70	9,730.00	74.11	72.65	76.80	4,371.37	3,456.65	3,738.93	3,594.84	144.09	25.949	
15,000.00	10,600.00	14,160.70	9,730.00	75.38	73.94	76.80	4,471.36	3,455.89	3,738.89	3,592.29	146.60	25.505	
15,100.00	10,600.00	14,260.70	9,730.00	76.65	75.23	76.80	4,571.36	3,455.13	3,738.84	3,589.73	149.12	25.073	
15,200.00	10,600.00	14,360.70	9,730.00	77.93	76.53	76.80	4,671.36	3,454.37	3,738.80	3,587.15	151.65	24.654	
15,300.00	10,600.00	14,460.70	9,730.00	79.21	77.84	76.80	4,771.35	3,453.61	3,738.75	3,584.56	154.19	24.247	
15,400.00	10,600.00	14,560.70	9,730.00	80.50	79.15	76.80	4,871.35	3,452.85	3,738.71	3,581.96	156.75	23.852	
15,500.00	10,600.00	14,660.70	9,730.00	81.80	80.47	76.80	4,971.35	3,452.09	3,738.66	3,579.35	159.31	23.468	
15,575.11	10,600.00	14,735.81	9,730.00	82.77	81.46	76.80	5,046.45	3,451.52	3,738.63	3,577.39	161.24	23.186 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.06	54.63	3,326.36	3,326.85					
100.00	100.00	83.50	83.50	0.52	0.51	89.06	54.63	3,326.36	3,326.81	3,325.78	1.03	3,229.281		
200.00	200.00	183.50	183.50	0.70	0.66	89.06	54.63	3,326.36	3,326.81	3,325.44	1.36	2,438.963		
300.00	300.00	283.50	283.50	0.99	0.94	89.06	54.63	3,326.36	3,326.81	3,324.88	1.92	1,728.977		
400.00	400.00	383.50	383.50	1.31	1.25	89.06	54.63	3,326.36	3,326.81	3,324.24	2.56	1,297.648		
500.00	500.00	483.50	483.50	1.65	1.59	89.06	54.63	3,326.36	3,326.81	3,323.57	3.24	1,028.085		
600.00	600.00	583.50	583.50	1.99	1.93	89.06	54.63	3,326.36	3,326.81	3,322.88	3.92	847.807		
700.00	700.00	683.50	683.50	2.34	2.28	89.06	54.63	3,326.36	3,326.81	3,322.18	4.62	719.950		
800.00	800.00	783.50	783.50	2.69	2.63	89.06	54.63	3,326.36	3,326.81	3,321.48	5.32	624.976		
900.00	900.00	883.50	883.50	3.04	2.99	89.06	54.63	3,326.36	3,326.81	3,320.78	6.03	551.821		
1,000.00	1,000.00	983.50	983.50	3.40	3.34	89.06	54.63	3,326.36	3,326.81	3,320.07	6.74	493.823		
1,100.00	1,100.00	1,083.50	1,083.50	3.75	3.69	89.06	54.63	3,326.36	3,326.81	3,319.36	7.45	446.755		
1,200.00	1,200.00	1,183.50	1,183.50	4.11	4.05	89.06	54.63	3,326.36	3,326.81	3,318.65	8.16	407.816		
1,300.00	1,300.00	1,283.50	1,283.50	4.46	4.41	89.06	54.63	3,326.36	3,326.81	3,317.94	8.87	375.080		
1,400.00	1,400.00	1,383.50	1,383.50	4.82	4.76	89.06	54.63	3,326.36	3,326.81	3,317.22	9.58	347.183		
1,500.00	1,500.00	1,483.50	1,483.50	5.18	5.12	89.06	54.63	3,326.36	3,326.81	3,316.51	10.30	323.129		
1,600.00	1,600.00	1,583.50	1,583.50	5.53	5.48	89.06	54.63	3,326.36	3,326.81	3,315.80	11.01	302.180		
1,700.00	1,700.00	1,683.50	1,683.50	5.89	5.83	89.06	54.63	3,326.36	3,326.81	3,315.08	11.72	283.772		
1,800.00	1,800.00	1,783.50	1,783.50	6.25	6.19	89.06	54.63	3,326.36	3,326.81	3,314.37	12.44	267.471		
1,900.00	1,900.00	1,883.50	1,883.50	6.61	6.55	89.06	54.63	3,326.36	3,326.81	3,313.65	13.15	252.936		
2,000.00	2,000.00	1,983.50	1,983.50	6.96	6.90	89.06	54.63	3,326.36	3,326.81	3,312.94	13.87	239.895		
2,100.00	2,100.00	2,083.50	2,083.50	7.32	7.26	89.06	54.63	3,326.36	3,326.81	3,312.22	14.58	228.131		
2,200.00	2,200.00	2,183.50	2,183.50	7.68	7.62	89.06	54.63	3,326.36	3,326.81	3,311.51	15.30	217.463		
2,300.00	2,300.00	2,283.50	2,283.50	8.04	7.98	89.06	54.63	3,326.36	3,326.81	3,310.79	16.01	207.747		
2,309.87	2,309.87	2,293.37	2,293.37	8.07	8.01	89.06	54.63	3,326.36	3,326.81	3,310.72	16.08	206.835 CC		
2,400.00	2,400.00	2,371.39	2,371.39	8.39	8.29	89.06	54.62	3,326.40	3,326.87	3,310.18	16.68	199.410 ES		
2,500.00	2,500.00	2,435.25	2,435.24	8.75	8.51	89.06	54.50	3,326.98	3,327.77	3,310.52	17.26	192.826		
2,600.00	2,600.00	2,500.00	2,499.98	9.11	8.73	89.07	54.22	3,328.28	3,329.77	3,311.94	17.83	186.743		
2,700.00	2,700.00	2,562.87	2,562.82	9.47	8.94	89.07	53.81	3,330.22	3,332.84	3,314.45	18.40	181.171		
2,800.00	2,800.00	2,626.61	2,626.51	9.83	9.16	89.08	53.24	3,332.89	3,337.01	3,318.04	18.96	175.975		
2,900.00	2,900.00	2,700.00	2,699.78	10.18	9.41	89.10	52.41	3,336.81	3,342.28	3,322.71	19.56	170.844		
3,000.00	3,000.00	2,753.88	2,753.54	10.54	9.59	89.11	51.68	3,340.28	3,348.58	3,328.49	20.09	166.674		
3,100.00	3,100.00	2,817.37	2,816.85	10.90	9.81	89.13	50.68	3,344.99	3,355.99	3,335.34	20.65	162.508		
3,200.00	3,200.00	2,880.74	2,879.99	11.26	10.03	89.15	49.53	3,350.39	3,364.47	3,343.26	21.21	158.631		
3,300.00	3,300.00	2,943.99	2,942.93	11.62	10.25	89.18	48.25	3,356.45	3,374.03	3,352.26	21.77	155.020		
3,400.00	3,400.00	3,000.00	2,998.61	11.97	10.45	89.20	46.99	3,362.39	3,384.67	3,362.38	22.29	151.852		
3,500.00	3,500.00	3,070.03	3,068.14	12.33	10.70	89.23	45.25	3,370.56	3,396.35	3,373.49	22.87	148.519		
3,600.00	3,600.00	3,132.76	3,130.33	12.67	10.92	-128.11	43.55	3,378.58	3,409.65	3,386.25	23.40	145.719		
3,700.00	3,699.96	3,200.00	3,196.89	13.00	11.16	-127.98	41.57	3,387.92	3,425.07	3,401.14	23.93	143.122		
3,737.73	3,737.66	3,218.69	3,215.36	13.13	11.23	-127.92	40.99	3,390.65	3,431.43	3,407.33	24.10	142.363		
3,800.00	3,799.88	3,257.35	3,253.57	13.33	11.37	-127.92	39.75	3,396.49	3,442.39	3,417.97	24.42	140.964		
3,900.00	3,899.79	3,319.25	3,314.63	13.66	11.60	-127.92	37.66	3,406.36	3,460.82	3,435.89	24.93	138.835		
4,000.00	3,999.71	3,380.89	3,375.34	13.99	11.83	-127.92	35.44	3,416.84	3,480.29	3,454.85	25.43	136.842		
4,100.00	4,099.62	3,442.27	3,435.67	14.32	12.06	-127.91	33.09	3,427.90	3,500.78	3,474.84	25.94	134.976		
4,200.00	4,199.53	3,508.90	3,501.01	14.66	12.31	-127.90	30.40	3,440.60	3,522.28	3,495.82	26.46	133.100		
4,300.00	4,299.45	3,606.47	3,596.65	15.00	12.68	-127.88	26.38	3,459.53	3,544.15	3,517.01	27.14	130.597		
4,400.00	4,399.36	3,704.04	3,692.28	15.33	13.06	-127.86	22.36	3,478.47	3,566.02	3,538.20	27.82	128.201		
4,500.00	4,499.28	3,801.62	3,787.92	15.67	13.45	-127.85	18.35	3,497.40	3,587.89	3,559.39	28.50	125.905		
4,600.00	4,599.19	3,900.81	3,883.55	16.01	13.84	-127.83	14.33	3,516.34	3,609.75	3,580.57	29.19	123.681		
4,700.00	4,699.10	4,003.23	3,979.19	16.35	14.25	-127.81	10.31	3,535.27	3,631.62	3,601.73	29.89	121.500		
4,800.00	4,799.02	4,105.66	4,074.82	16.69	14.67	-127.80	6.30	3,554.21	3,653.49	3,622.90	30.60	119.409		
4,900.00	4,898.93	4,208.08	4,170.46	17.04	15.09	-127.78	2.28	3,573.14	3,675.36	3,644.06	31.31	117.404		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	4,998.85	4,289.49	4,266.10	17.38	15.42	-127.77	-1.73	3,592.08	3,697.23	3,665.29	31.94	115.759		
5,100.00	5,098.76	4,387.06	4,361.73	17.72	15.83	-127.75	-5.75	3,611.01	3,719.10	3,686.47	32.63	113.963		
5,200.00	5,198.67	4,484.64	4,457.37	18.07	16.23	-127.73	-9.77	3,629.95	3,740.97	3,707.64	33.33	112.237		
5,300.00	5,298.59	4,582.21	4,553.00	18.41	16.64	-127.72	-13.78	3,648.88	3,762.85	3,728.82	34.03	110.575		
5,400.00	5,398.50	4,679.79	4,648.64	18.76	17.05	-127.70	-17.80	3,667.81	3,784.72	3,749.99	34.73	108.976		
5,500.00	5,498.42	4,777.36	4,744.27	19.11	17.46	-127.69	-21.82	3,686.75	3,806.59	3,771.16	35.43	107.435		
5,600.00	5,598.33	4,874.94	4,839.91	19.45	17.88	-127.68	-25.83	3,705.68	3,828.46	3,792.32	36.13	105.949		
5,700.00	5,698.24	4,972.51	4,935.54	19.80	18.29	-127.66	-29.85	3,724.62	3,850.33	3,813.49	36.84	104.516		
5,800.00	5,798.16	5,070.08	5,031.18	20.15	18.71	-127.65	-33.87	3,743.55	3,872.20	3,834.66	37.55	103.134		
5,900.00	5,898.07	5,167.66	5,126.81	20.50	19.13	-127.63	-37.88	3,762.49	3,894.08	3,855.82	38.25	101.799		
6,000.00	5,997.98	5,265.23	5,222.45	20.85	19.55	-127.62	-41.90	3,781.42	3,915.95	3,876.99	38.96	100.510		
6,100.00	6,097.90	5,362.81	5,318.08	21.20	19.97	-127.60	-45.92	3,800.36	3,937.82	3,898.15	39.67	99.264		
6,200.00	6,197.81	5,460.38	5,413.72	21.55	20.39	-127.59	-49.93	3,819.29	3,959.69	3,919.31	40.38	98.059		
6,300.00	6,297.73	5,557.95	5,509.35	21.90	20.82	-127.58	-53.95	3,838.23	3,981.57	3,940.48	41.09	96.893		
6,400.00	6,397.64	5,655.53	5,604.99	22.25	21.24	-127.56	-57.96	3,857.16	4,003.44	3,961.64	41.80	95.765		
6,500.00	6,497.55	5,753.10	5,700.62	22.61	21.67	-127.55	-61.98	3,876.09	4,025.31	3,982.80	42.52	94.673		
6,600.00	6,597.47	5,850.68	5,796.26	22.96	22.10	-127.54	-66.00	3,895.03	4,047.19	4,003.96	43.23	93.615		
6,700.00	6,697.38	5,948.25	5,891.89	23.31	22.52	-127.52	-70.01	3,913.96	4,069.06	4,025.12	43.95	92.590		
6,800.00	6,797.30	6,045.83	5,987.53	23.66	22.95	-127.51	-74.03	3,932.90	4,090.94	4,046.27	44.66	91.596		
6,900.00	6,897.21	6,143.40	6,083.16	24.02	23.38	-127.50	-78.05	3,951.83	4,112.81	4,067.43	45.38	90.632		
7,000.00	6,997.12	6,240.97	6,178.80	24.37	23.81	-127.49	-82.06	3,970.77	4,134.69	4,088.59	46.10	89.696		
7,100.00	7,097.04	6,338.55	6,274.43	24.73	24.24	-127.47	-86.08	3,989.70	4,156.56	4,109.75	46.81	88.788		
7,200.00	7,196.95	6,436.12	6,370.07	25.08	24.67	-127.46	-90.10	4,008.64	4,178.44	4,130.90	47.53	87.906		
7,300.00	7,296.87	6,533.70	6,465.70	25.43	25.11	-127.45	-94.11	4,027.57	4,200.31	4,152.06	48.25	87.049		
7,400.00	7,396.78	6,631.27	6,561.34	25.79	25.54	-127.44	-98.13	4,046.51	4,222.19	4,173.21	48.97	86.216		
7,500.00	7,496.69	6,728.84	6,656.97	26.14	25.97	-127.43	-102.15	4,065.44	4,244.06	4,194.37	49.69	85.406		
7,600.00	7,596.61	6,826.42	6,752.61	26.50	26.41	-127.41	-106.16	4,084.37	4,265.94	4,215.52	50.41	84.619		
7,700.00	7,696.52	6,923.99	6,848.24	26.86	26.84	-127.40	-110.18	4,103.31	4,287.81	4,236.68	51.14	83.852		
7,800.00	7,796.44	7,021.57	6,943.88	27.21	27.28	-127.39	-114.19	4,122.24	4,309.69	4,257.83	51.86	83.107		
7,900.00	7,896.35	7,119.14	7,039.51	27.57	27.71	-127.38	-118.21	4,141.18	4,331.57	4,278.99	52.58	82.381		
8,000.00	7,996.26	7,216.72	7,135.15	27.92	28.15	-127.37	-122.23	4,160.11	4,353.44	4,300.14	53.30	81.674		
8,100.00	8,096.18	7,314.29	7,230.78	28.28	28.58	-127.36	-126.24	4,179.05	4,375.32	4,321.29	54.03	80.985		
8,200.00	8,196.09	7,411.86	7,326.42	28.64	29.02	-127.35	-130.26	4,197.98	4,397.19	4,342.44	54.75	80.313		
8,300.00	8,296.01	7,509.44	7,422.05	28.99	29.46	-127.33	-134.28	4,216.92	4,419.07	4,363.60	55.47	79.659		
8,400.00	8,395.92	7,607.01	7,517.69	29.35	29.89	-127.32	-138.29	4,235.85	4,440.95	4,384.75	56.20	79.021		
8,500.00	8,495.83	7,704.59	7,613.32	29.71	30.33	-127.31	-142.31	4,254.79	4,462.83	4,405.90	56.93	78.398		
8,600.00	8,595.75	7,802.16	7,708.96	30.06	30.77	-127.30	-146.33	4,273.72	4,484.70	4,427.05	57.65	77.791		
8,700.00	8,695.66	7,900.27	7,804.59	30.42	31.21	-127.29	-150.34	4,292.66	4,506.58	4,448.20	58.38	77.195		
8,800.00	8,795.58	7,997.31	7,900.23	30.78	31.65	-127.28	-154.36	4,311.59	4,528.46	4,469.35	59.10	76.619		
8,900.00	8,895.49	8,984.15	8,878.99	31.14	35.45	-127.41	-176.37	4,415.36	4,548.62	4,485.21	63.41	71.732		
9,000.00	8,995.40	9,084.06	8,978.90	31.50	35.76	-127.46	-176.37	4,415.36	4,551.14	4,487.04	64.10	71.001		
9,100.00	9,095.32	9,183.98	9,078.82	31.85	36.07	-127.50	-176.37	4,415.36	4,553.67	4,488.88	64.79	70.285		
9,200.00	9,195.23	9,284.97	9,179.80	32.21	36.38	-127.55	-175.92	4,415.35	4,556.19	4,490.71	65.48	69.581		
9,300.00	9,295.14	9,387.11	9,280.96	32.57	36.69	-127.75	-162.81	4,415.25	4,558.68	4,492.51	66.16	68.899		
9,400.00	9,395.06	9,480.79	9,370.36	32.93	36.93	-128.14	-135.18	4,415.04	4,561.27	4,494.45	66.81	68.272		
9,500.00	9,494.97	9,562.77	9,444.01	33.29	37.12	-128.62	-99.33	4,414.77	4,564.28	4,496.87	67.41	67.706		
9,523.61	9,518.56	9,580.30	9,459.05	33.37	37.16	-128.73	-90.32	4,414.70	4,565.09	4,497.54	67.55	67.582		
9,600.00	9,594.91	9,632.71	9,502.26	33.64	37.26	-129.15	-60.69	4,414.48	4,567.59	4,499.61	67.98	67.195		
9,682.09	9,677.00	9,682.36	9,540.54	33.93	37.33	87.89	-29.10	4,414.24	4,569.90	4,501.49	68.40	66.807		
9,700.00	9,694.91	9,692.33	9,547.89	33.99	37.35	87.81	-22.36	4,414.18	4,570.39	4,501.89	68.49	66.727		
9,800.00	9,794.91	9,742.53	9,583.05	34.33	37.41	87.36	13.44	4,413.91	4,573.93	4,504.96	68.97	66.313		
9,900.00	9,894.91	9,784.56	9,609.98	34.68	37.46	86.96	45.69	4,413.67	4,578.99	4,509.56	69.42	65.957		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,000.00	9,994.91	9,819.90	9,630.75	35.02	37.49	86.60	74.28	4,413.45	4,585.70	4,515.86	69.84	65.658		
10,032.13	10,027.04	9,830.05	9,636.39	35.13	37.50	86.49	82.72	4,413.39	4,588.23	4,518.26	69.97	65.574		
10,050.00	10,044.90	9,835.60	9,639.40	35.19	37.50	86.70	87.38	4,413.35	4,589.70	4,519.66	70.04	65.529		
10,100.00	10,094.75	9,850.00	9,647.02	35.36	37.51	86.13	99.60	4,413.26	4,593.94	4,523.71	70.23	65.414		
10,150.00	10,144.08	9,868.25	9,656.23	35.53	37.52	85.51	115.36	4,413.14	4,598.31	4,527.89	70.42	65.302		
10,200.00	10,192.52	9,885.45	9,664.45	35.68	37.53	84.91	130.46	4,413.02	4,602.76	4,532.17	70.59	65.202		
10,250.00	10,239.69	9,900.00	9,671.04	35.84	37.54	84.34	143.43	4,412.92	4,607.24	4,536.48	70.75	65.117		
10,300.00	10,285.26	9,921.18	9,680.05	35.98	37.54	83.72	162.60	4,412.78	4,611.67	4,540.75	70.92	65.025		
10,350.00	10,328.85	9,950.00	9,691.15	36.12	37.55	83.07	189.19	4,412.57	4,616.04	4,544.94	71.10	64.920		
10,400.00	10,370.15	9,950.00	9,691.15	36.25	37.55	82.66	189.19	4,412.57	4,620.24	4,549.04	71.20	64.889		
10,450.00	10,408.84	9,977.30	9,700.42	36.37	37.56	82.08	214.86	4,412.38	4,624.23	4,552.86	71.37	64.793		
10,500.00	10,444.62	10,000.00	9,707.19	36.49	37.56	81.58	236.53	4,412.21	4,628.00	4,556.48	71.52	64.709		
10,550.00	10,477.22	10,015.90	9,711.42	36.61	37.56	81.15	251.86	4,412.10	4,631.48	4,559.83	71.65	64.639		
10,600.00	10,506.40	10,035.47	9,716.04	36.73	37.57	80.75	270.87	4,411.95	4,634.64	4,562.85	71.79	64.556		
10,650.00	10,531.93	10,050.00	9,719.05	36.85	37.57	80.41	285.09	4,411.85	4,637.44	4,565.52	71.92	64.479		
10,700.00	10,553.61	10,074.99	9,723.37	36.97	37.57	80.09	309.69	4,411.66	4,639.84	4,567.76	72.08	64.370		
10,750.00	10,571.29	10,100.00	9,726.63	37.10	37.57	79.83	334.49	4,411.47	4,641.83	4,569.58	72.25	64.250		
10,800.00	10,584.83	10,114.87	9,728.05	37.22	37.58	79.64	349.30	4,411.36	4,643.37	4,570.98	72.39	64.143		
10,850.00	10,594.12	10,134.91	9,729.35	37.34	37.58	79.51	369.28	4,411.20	4,644.45	4,571.90	72.55	64.015		
10,900.00	10,599.10	10,154.97	9,729.95	37.47	37.58	79.43	389.34	4,411.05	4,645.07	4,572.34	72.72	63.875		
10,932.14	10,600.00	10,176.32	9,730.00	37.55	37.59	79.41	410.69	4,410.89	4,645.19	4,572.34	72.86	63.759		
11,000.00	10,600.00	10,244.19	9,730.00	37.73	37.62	79.41	478.55	4,410.37	4,645.16	4,571.93	73.23	63.432		
11,100.00	10,600.00	10,344.19	9,730.00	38.04	37.71	79.41	578.55	4,409.61	4,645.12	4,571.25	73.87	62.885		
11,200.00	10,600.00	10,444.19	9,730.00	38.41	37.88	79.41	678.55	4,408.85	4,645.07	4,570.46	74.61	62.259		
11,300.00	10,600.00	10,544.19	9,730.00	38.83	38.14	79.41	778.54	4,408.09	4,645.02	4,569.57	75.45	61.562		
11,400.00	10,600.00	10,644.19	9,730.00	39.30	38.49	79.41	878.54	4,407.33	4,644.98	4,568.58	76.40	60.802		
11,500.00	10,600.00	10,744.19	9,730.00	39.81	38.92	79.41	978.54	4,406.57	4,644.93	4,567.50	77.43	59.986		
11,600.00	10,600.00	10,844.19	9,730.00	40.37	39.43	79.41	1,078.54	4,405.81	4,644.88	4,566.32	78.56	59.122		
11,700.00	10,600.00	10,944.19	9,730.00	40.98	40.01	79.41	1,178.53	4,405.05	4,644.84	4,565.06	79.78	58.218		
11,800.00	10,600.00	11,044.19	9,730.00	41.62	40.63	79.41	1,278.53	4,404.29	4,644.79	4,563.71	81.08	57.283		
11,900.00	10,600.00	11,144.19	9,730.00	42.31	41.31	79.41	1,378.53	4,403.52	4,644.75	4,562.28	82.47	56.322		
12,000.00	10,600.00	11,244.19	9,730.00	43.04	42.03	79.41	1,478.52	4,402.76	4,644.70	4,560.77	83.92	55.343		
12,100.00	10,600.00	11,344.19	9,730.00	43.80	42.79	79.41	1,578.52	4,402.00	4,644.65	4,559.20	85.45	54.352		
12,200.00	10,600.00	11,444.19	9,730.00	44.60	43.58	79.41	1,678.52	4,401.24	4,644.61	4,557.55	87.05	53.354		
12,300.00	10,600.00	11,544.19	9,730.00	45.43	44.41	79.41	1,778.52	4,400.48	4,644.56	4,555.84	88.72	52.353		
12,400.00	10,600.00	11,644.19	9,730.00	46.29	45.28	79.41	1,878.51	4,399.72	4,644.51	4,554.07	90.44	51.355		
12,500.00	10,600.00	11,744.19	9,730.00	47.17	46.17	79.41	1,978.51	4,398.96	4,644.47	4,552.25	92.22	50.362		
12,600.00	10,600.00	11,844.19	9,730.00	48.09	47.09	79.41	2,078.51	4,398.20	4,644.42	4,550.36	94.06	49.379		
12,700.00	10,600.00	11,944.19	9,730.00	49.04	48.04	79.41	2,178.50	4,397.44	4,644.37	4,548.43	95.94	48.407		
12,800.00	10,600.00	12,044.19	9,730.00	50.00	49.02	79.41	2,278.50	4,396.68	4,644.33	4,546.45	97.88	47.450		
12,900.00	10,600.00	12,144.19	9,730.00	50.99	50.01	79.41	2,378.50	4,395.91	4,644.28	4,544.42	99.86	46.508		
13,000.00	10,600.00	12,244.19	9,730.00	52.01	51.03	79.41	2,478.50	4,395.15	4,644.24	4,542.35	101.88	45.584		
13,100.00	10,600.00	12,344.19	9,730.00	53.04	52.07	79.41	2,578.49	4,394.39	4,644.19	4,540.24	103.95	44.678		
13,200.00	10,600.00	12,444.19	9,730.00	54.09	53.13	79.41	2,678.49	4,393.63	4,644.14	4,538.09	106.05	43.793		
13,300.00	10,600.00	12,544.19	9,730.00	55.16	54.21	79.41	2,778.49	4,392.87	4,644.10	4,535.91	108.19	42.927		
13,400.00	10,600.00	12,644.19	9,730.00	56.25	55.30	79.41	2,878.48	4,392.11	4,644.05	4,533.69	110.36	42.082		
13,500.00	10,600.00	12,744.19	9,730.00	57.36	56.41	79.41	2,978.48	4,391.35	4,644.00	4,531.44	112.56	41.258		
13,600.00	10,600.00	12,844.19	9,730.00	58.48	57.54	79.41	3,078.48	4,390.59	4,643.96	4,529.17	114.79	40.455		
13,700.00	10,600.00	12,944.19	9,730.00	59.61	58.68	79.41	3,178.48	4,389.83	4,643.91	4,526.86	117.05	39.674		
13,800.00	10,600.00	13,044.19	9,730.00	60.76	59.84	79.41	3,278.47	4,389.07	4,643.86	4,524.52	119.34	38.913		
13,900.00	10,600.00	13,144.19	9,730.00	61.92	61.00	79.41	3,378.47	4,388.31	4,643.82	4,522.17	121.65	38.173		
14,000.00	10,600.00	13,244.19	9,730.00	63.10	62.18	79.41	3,478.47	4,387.54	4,643.77	4,519.78	123.99	37.453		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	13,344.19	9,730.00	64.28	63.37	79.41	3,578.46	4,386.78	4,643.73	4,517.38	126.35	36.754	
14,200.00	10,600.00	13,444.19	9,730.00	65.48	64.57	79.41	3,678.46	4,386.02	4,643.68	4,514.95	128.73	36.074	
14,300.00	10,600.00	13,544.19	9,730.00	66.68	65.79	79.41	3,778.46	4,385.26	4,643.63	4,512.51	131.13	35.413	
14,400.00	10,600.00	13,644.19	9,730.00	67.90	67.01	79.41	3,878.45	4,384.50	4,643.59	4,510.04	133.54	34.772	
14,500.00	10,600.00	13,744.19	9,730.00	69.13	68.24	79.41	3,978.45	4,383.74	4,643.54	4,507.56	135.98	34.149	
14,600.00	10,600.00	13,844.19	9,730.00	70.36	69.48	79.41	4,078.45	4,382.98	4,643.49	4,505.06	138.43	33.543	
14,700.00	10,600.00	13,944.19	9,730.00	71.60	70.72	79.41	4,178.45	4,382.22	4,643.45	4,502.54	140.90	32.955	
14,800.00	10,600.00	14,044.19	9,730.00	72.85	71.98	79.41	4,278.44	4,381.46	4,643.40	4,500.01	143.39	32.384	
14,900.00	10,600.00	14,144.19	9,730.00	74.11	73.24	79.41	4,378.44	4,380.70	4,643.35	4,497.47	145.89	31.828	
15,000.00	10,600.00	14,244.19	9,730.00	75.38	74.51	79.41	4,478.44	4,379.93	4,643.31	4,494.91	148.40	31.289	
15,100.00	10,600.00	14,344.19	9,730.00	76.65	75.79	79.41	4,578.43	4,379.17	4,643.26	4,492.34	150.93	30.765	
15,200.00	10,600.00	14,444.19	9,730.00	77.93	77.07	79.41	4,678.43	4,378.41	4,643.22	4,489.75	153.46	30.256	
15,300.00	10,600.00	14,544.19	9,730.00	79.21	78.36	79.41	4,778.43	4,377.65	4,643.17	4,487.16	156.01	29.761	
15,400.00	10,600.00	14,644.19	9,730.00	80.50	79.65	79.41	4,878.43	4,376.89	4,643.12	4,484.55	158.57	29.280	
15,500.00	10,600.00	14,744.19	9,730.00	81.80	80.95	79.41	4,978.42	4,376.13	4,643.08	4,481.93	161.15	28.813	
15,575.11	10,600.00	14,819.30	9,730.00	82.77	81.93	79.41	5,053.53	4,375.56	4,643.04	4,479.96	163.08	28.470 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.05	54.29	3,266.36	3,266.85					
100.00	100.00	83.80	83.80	0.52	0.51	89.05	54.29	3,266.36	3,266.81	3,265.78	1.03	3,170.770		
200.00	200.00	183.80	183.80	0.70	0.66	89.05	54.29	3,266.36	3,266.81	3,265.44	1.36	2,393.740		
300.00	300.00	283.80	283.80	0.99	0.94	89.05	54.29	3,266.36	3,266.81	3,264.88	1.93	1,696.993		
400.00	400.00	383.80	383.80	1.31	1.26	89.05	54.29	3,266.36	3,266.81	3,264.24	2.56	1,273.755		
500.00	500.00	483.80	483.80	1.65	1.59	89.05	54.29	3,266.36	3,266.81	3,263.57	3.24	1,009.225		
600.00	600.00	583.80	583.80	1.99	1.93	89.05	54.29	3,266.36	3,266.81	3,262.88	3.93	832.297		
700.00	700.00	683.80	683.80	2.34	2.28	89.05	54.29	3,266.36	3,266.81	3,262.19	4.62	706.805		
800.00	800.00	783.80	783.80	2.69	2.63	89.05	54.29	3,266.36	3,266.81	3,261.48	5.32	613.583		
900.00	900.00	883.80	883.80	3.04	2.99	89.05	54.29	3,266.36	3,266.81	3,260.78	6.03	541.774		
1,000.00	1,000.00	983.80	983.80	3.40	3.34	89.05	54.29	3,266.36	3,266.81	3,260.07	6.74	484.841		
1,100.00	1,100.00	1,083.80	1,083.80	3.75	3.70	89.05	54.29	3,266.36	3,266.81	3,259.36	7.45	438.636		
1,200.00	1,200.00	1,183.80	1,183.80	4.11	4.05	89.05	54.29	3,266.36	3,266.81	3,258.65	8.16	400.409		
1,300.00	1,300.00	1,283.80	1,283.80	4.46	4.41	89.05	54.29	3,266.36	3,266.81	3,257.94	8.87	368.272		
1,400.00	1,400.00	1,383.80	1,383.80	4.82	4.76	89.05	54.29	3,266.36	3,266.81	3,257.22	9.58	340.883		
1,500.00	1,500.00	1,483.80	1,483.80	5.18	5.12	89.05	54.29	3,266.36	3,266.81	3,256.51	10.30	317.269		
1,600.00	1,600.00	1,583.80	1,583.80	5.53	5.48	89.05	54.29	3,266.36	3,266.81	3,255.80	11.01	296.701		
1,700.00	1,700.00	1,683.80	1,683.80	5.89	5.83	89.05	54.29	3,266.36	3,266.81	3,255.08	11.72	278.629		
1,800.00	1,800.00	1,783.80	1,783.80	6.25	6.19	89.05	54.29	3,266.36	3,266.81	3,254.37	12.44	262.625		
1,900.00	1,900.00	1,883.80	1,883.80	6.61	6.55	89.05	54.29	3,266.36	3,266.81	3,253.65	13.15	248.354		
2,000.00	2,000.00	1,983.80	1,983.80	6.96	6.91	89.05	54.29	3,266.36	3,266.81	3,252.94	13.87	235.551		
2,100.00	2,100.00	2,083.80	2,083.80	7.32	7.26	89.05	54.29	3,266.36	3,266.81	3,252.22	14.58	224.000		
2,200.00	2,200.00	2,183.80	2,183.80	7.68	7.62	89.05	54.29	3,266.36	3,266.81	3,251.51	15.30	213.527		
2,300.00	2,300.00	2,283.80	2,283.80	8.04	7.98	89.05	54.29	3,266.36	3,266.81	3,250.79	16.01	203.987		
2,400.00	2,400.00	2,383.80	2,383.80	8.39	8.34	89.05	54.29	3,266.36	3,266.81	3,250.08	16.73	195.262		
2,500.00	2,500.00	2,483.80	2,483.80	8.75	8.69	89.05	54.29	3,266.36	3,266.81	3,249.36	17.45	187.251		
2,600.00	2,600.00	2,583.80	2,583.80	9.11	9.05	89.05	54.29	3,266.36	3,266.81	3,248.65	18.16	179.871		
2,700.00	2,700.00	2,683.80	2,683.80	9.47	9.41	89.05	54.29	3,266.36	3,266.81	3,247.93	18.88	173.050		
2,800.00	2,800.00	2,783.80	2,783.80	9.83	9.77	89.05	54.29	3,266.36	3,266.81	3,247.21	19.59	166.727		
2,900.00	2,900.00	2,883.80	2,883.80	10.18	10.13	89.05	54.29	3,266.36	3,266.81	3,246.50	20.31	160.849		
3,000.00	3,000.00	2,983.80	2,983.80	10.54	10.48	89.05	54.29	3,266.36	3,266.81	3,245.78	21.03	155.370		
3,100.00	3,100.00	3,083.80	3,083.80	10.90	10.84	89.05	54.29	3,266.36	3,266.81	3,245.07	21.74	150.253		
3,200.00	3,200.00	3,183.80	3,183.80	11.26	11.20	89.05	54.29	3,266.36	3,266.81	3,244.35	22.46	145.461		
3,300.00	3,300.00	3,283.80	3,283.80	11.62	11.56	89.05	54.29	3,266.36	3,266.81	3,243.63	23.17	140.965		
3,400.00	3,400.00	3,383.80	3,383.80	11.97	11.92	89.05	54.29	3,266.36	3,266.81	3,242.92	23.89	136.739		
3,500.00	3,500.00	3,483.80	3,483.80	12.33	12.27	89.05	54.29	3,266.36	3,266.81	3,242.20	24.61	132.758 CC		
3,600.00	3,600.00	3,583.80	3,583.80	12.67	12.63	-128.43	54.29	3,266.36	3,267.35	3,242.04	25.31	129.109		
3,700.00	3,699.96	3,683.76	3,683.76	13.00	12.99	-128.45	54.29	3,266.36	3,268.98	3,242.99	25.99	125.773		
3,737.73	3,737.66	3,721.46	3,721.46	13.13	13.13	-128.47	54.29	3,266.36	3,269.87	3,243.62	26.25	124.569		
3,800.00	3,799.88	3,783.68	3,783.68	13.33	13.35	-128.50	54.29	3,266.36	3,271.48	3,244.81	26.68	122.635		
3,900.00	3,899.79	3,883.59	3,883.59	13.66	13.71	-128.56	54.29	3,266.36	3,274.07	3,246.70	27.36	119.650		
4,000.00	3,999.71	3,983.51	3,983.51	13.99	14.06	-128.61	54.29	3,266.36	3,276.66	3,248.60	28.05	116.805		
4,100.00	4,099.62	4,091.49	4,091.48	14.32	14.43	-128.66	53.57	3,266.26	3,279.15	3,250.39	28.75	114.039		
4,200.00	4,199.53	4,201.13	4,201.09	14.66	14.79	-128.68	50.79	3,265.89	3,281.35	3,251.90	29.44	111.447		
4,300.00	4,299.45	4,304.88	4,304.75	15.00	15.13	-128.66	46.57	3,265.32	3,283.30	3,253.19	30.11	109.030		
4,400.00	4,399.36	4,404.86	4,404.64	15.33	15.45	-128.65	42.36	3,264.76	3,285.24	3,254.47	30.78	106.748		
4,500.00	4,499.28	4,504.83	4,504.52	15.67	15.78	-128.63	38.14	3,264.19	3,287.18	3,255.74	31.44	104.553		
4,600.00	4,599.19	4,604.81	4,604.41	16.01	16.11	-128.61	33.93	3,263.62	3,289.12	3,257.01	32.11	102.441		
4,700.00	4,699.10	4,704.78	4,704.29	16.35	16.44	-128.60	29.71	3,263.06	3,291.06	3,258.28	32.78	100.407		
4,800.00	4,799.02	4,804.76	4,804.18	16.69	16.77	-128.58	25.50	3,262.49	3,293.00	3,259.55	33.45	98.447		
4,900.00	4,898.93	4,904.74	4,904.07	17.04	17.10	-128.56	21.28	3,261.93	3,294.94	3,260.81	34.12	96.558		
5,000.00	4,998.85	5,004.71	5,003.95	17.38	17.44	-128.54	17.07	3,261.36	3,296.88	3,262.07	34.80	94.736		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	5,104.69	5,103.84	17.72	17.77	-128.53	12.85	3,260.80	3,298.82	3,263.34	35.48	92.979		
5,200.00	5,198.67	5,204.67	5,203.72	18.07	18.11	-128.51	8.64	3,260.23	3,300.76	3,264.60	36.16	91.283		
5,300.00	5,298.59	5,304.64	5,303.61	18.41	18.44	-128.49	4.42	3,259.66	3,302.70	3,265.85	36.84	89.645		
5,400.00	5,398.50	5,404.62	5,403.50	18.76	18.78	-128.48	0.21	3,259.10	3,304.64	3,267.11	37.53	88.063		
5,500.00	5,498.42	5,504.60	5,503.38	19.11	19.12	-128.46	-4.01	3,258.53	3,306.58	3,268.37	38.21	86.534		
5,600.00	5,598.33	5,604.57	5,603.27	19.45	19.46	-128.45	-8.22	3,257.97	3,308.52	3,269.62	38.90	85.056		
5,700.00	5,698.24	5,704.55	5,703.15	19.80	19.80	-128.43	-12.44	3,257.40	3,310.46	3,270.87	39.59	83.626		
5,800.00	5,798.16	5,804.53	5,803.04	20.15	20.15	-128.41	-16.65	3,256.84	3,312.40	3,272.12	40.28	82.242		
5,900.00	5,898.07	5,904.50	5,902.93	20.50	20.49	-128.40	-20.87	3,256.27	3,314.34	3,273.38	40.97	80.902		
6,000.00	5,997.98	6,004.48	6,002.81	20.85	20.83	-128.38	-25.09	3,255.70	3,316.29	3,274.63	41.66	79.604		
6,100.00	6,097.90	6,104.46	6,102.70	21.20	21.18	-128.36	-29.30	3,255.14	3,318.23	3,275.87	42.35	78.347		
6,200.00	6,197.81	6,204.43	6,202.59	21.55	21.52	-128.35	-33.52	3,254.57	3,320.17	3,277.12	43.05	77.128		
6,300.00	6,297.73	6,304.41	6,302.47	21.90	21.87	-128.33	-37.73	3,254.01	3,322.11	3,278.37	43.74	75.946		
6,400.00	6,397.64	6,404.39	6,402.36	22.25	22.21	-128.31	-41.95	3,253.44	3,324.06	3,279.62	44.44	74.799		
6,500.00	6,497.55	6,504.36	6,502.24	22.61	22.56	-128.30	-46.16	3,252.88	3,326.00	3,280.86	45.14	73.686		
6,600.00	6,597.47	6,604.34	6,602.13	22.96	22.91	-128.28	-50.38	3,252.31	3,327.94	3,282.11	45.84	72.606		
6,700.00	6,697.38	6,704.32	6,702.02	23.31	23.25	-128.26	-54.59	3,251.74	3,329.89	3,283.35	46.54	71.556		
6,800.00	6,797.30	6,804.29	6,801.90	23.66	23.60	-128.25	-58.81	3,251.18	3,331.83	3,284.60	47.24	70.537		
6,900.00	6,897.21	6,904.27	6,901.79	24.02	23.95	-128.23	-63.02	3,250.61	3,333.78	3,285.84	47.94	69.546		
7,000.00	6,997.12	7,004.25	7,001.67	24.37	24.30	-128.21	-67.24	3,250.05	3,335.72	3,287.08	48.64	68.582		
7,100.00	7,097.04	7,104.22	7,101.56	24.73	24.65	-128.20	-71.45	3,249.48	3,337.67	3,288.33	49.34	67.645		
7,200.00	7,196.95	7,204.20	7,201.45	25.08	25.00	-128.18	-75.67	3,248.92	3,339.61	3,289.57	50.04	66.734		
7,300.00	7,296.87	7,304.18	7,301.33	25.43	25.35	-128.17	-79.88	3,248.35	3,341.56	3,290.81	50.75	65.847		
7,400.00	7,396.78	7,404.15	7,401.22	25.79	25.70	-128.15	-84.10	3,247.78	3,343.51	3,292.05	51.45	64.983		
7,500.00	7,496.69	7,504.13	7,501.10	26.14	26.05	-128.13	-88.31	3,247.22	3,345.45	3,293.29	52.16	64.142		
7,600.00	7,596.61	7,604.11	7,600.99	26.50	26.40	-128.12	-92.53	3,246.65	3,347.40	3,294.54	52.86	63.322		
7,700.00	7,696.52	7,704.08	7,700.88	26.86	26.76	-128.10	-96.75	3,246.09	3,349.35	3,295.78	53.57	62.524		
7,800.00	7,796.44	7,804.06	7,800.76	27.21	27.11	-128.08	-100.96	3,245.52	3,351.29	3,297.02	54.28	61.745		
7,900.00	7,896.35	7,904.04	7,900.65	27.57	27.46	-128.07	-105.18	3,244.96	3,353.24	3,298.26	54.98	60.986		
8,000.00	7,996.26	8,004.01	8,000.53	27.92	27.81	-128.05	-109.39	3,244.39	3,355.19	3,299.50	55.69	60.246		
8,100.00	8,096.18	8,103.99	8,100.42	28.28	28.17	-128.04	-113.61	3,243.82	3,357.14	3,300.74	56.40	59.524		
8,200.00	8,196.09	8,203.96	8,200.31	28.64	28.52	-128.02	-117.82	3,243.26	3,359.08	3,301.98	57.11	58.819		
8,300.00	8,296.01	8,303.94	8,300.19	28.99	28.87	-128.00	-122.04	3,242.69	3,361.03	3,303.21	57.82	58.131		
8,400.00	8,395.92	8,403.92	8,400.08	29.35	29.23	-127.99	-126.25	3,242.13	3,362.98	3,304.45	58.53	57.460		
8,500.00	8,495.83	8,503.89	8,499.96	29.71	29.58	-127.97	-130.47	3,241.56	3,364.93	3,305.69	59.24	56.804		
8,600.00	8,595.75	8,603.87	8,599.85	30.06	29.94	-127.96	-134.68	3,241.00	3,366.88	3,306.93	59.95	56.163		
8,700.00	8,695.66	8,703.85	8,699.74	30.42	30.29	-127.94	-138.90	3,240.43	3,368.83	3,308.17	60.66	55.537		
8,800.00	8,795.58	8,803.82	8,799.62	30.78	30.65	-127.92	-143.11	3,239.87	3,370.78	3,309.41	61.37	54.925		
8,900.00	8,895.49	8,903.80	8,899.51	31.14	31.00	-127.91	-147.33	3,239.30	3,372.73	3,310.65	62.08	54.327		
9,000.00	8,995.40	9,003.78	8,999.39	31.50	31.36	-127.89	-151.54	3,238.73	3,374.68	3,311.88	62.79	53.742		
9,100.00	9,095.32	9,103.75	9,099.28	31.85	31.71	-127.88	-155.76	3,238.17	3,376.63	3,313.12	63.51	53.170		
9,200.00	9,195.23	9,203.73	9,199.17	32.21	32.07	-127.86	-159.98	3,237.60	3,378.58	3,314.36	64.22	52.610		
9,300.00	9,295.14	9,303.71	9,299.05	32.57	32.42	-127.84	-164.19	3,237.04	3,380.53	3,315.60	64.93	52.062		
9,400.00	9,395.06	9,403.68	9,398.94	32.93	32.78	-127.83	-168.41	3,236.47	3,382.48	3,316.84	65.65	51.526		
9,500.00	9,494.97	9,503.66	9,498.83	33.29	33.14	-127.81	-172.62	3,235.91	3,384.43	3,318.07	66.36	51.001		
9,523.61	9,518.56	9,526.39	9,521.54	33.37	33.22	-127.81	-173.57	3,235.78	3,384.90	3,318.37	66.52	50.882		
9,600.00	9,594.91	9,594.39	9,589.50	33.64	33.46	-127.82	-175.72	3,235.49	3,386.03	3,318.99	67.04	50.509		
9,682.09	9,677.00	9,667.48	9,662.58	33.93	33.72	89.66	-176.68	3,235.36	3,386.42	3,318.84	67.58	50.111		
9,700.00	9,694.91	9,683.61	9,678.71	33.99	33.77	89.66	-176.71	3,235.36	3,386.42	3,318.72	67.70	50.024		
9,800.00	9,794.91	9,783.61	9,778.71	34.33	34.11	89.66	-176.71	3,235.36	3,386.42	3,318.03	68.38	49.522		
9,900.00	9,894.91	9,883.61	9,878.71	34.68	34.46	89.66	-176.71	3,235.36	3,386.42	3,317.35	69.07	49.029		
10,000.00	9,994.91	9,983.61	9,978.71	35.02	34.80	89.66	-176.71	3,235.36	3,386.42	3,316.66	69.76	48.546		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	10,015.74	10,010.84	35.13	34.91	89.66	-176.71	3,235.36	3,386.42	3,316.44	69.98	48.393		
10,050.00	10,044.90	10,033.62	10,028.72	35.19	34.97	90.07	-176.71	3,235.36	3,386.42	3,316.32	70.10	48.308		
10,100.00	10,094.75	10,084.17	10,079.20	35.36	35.15	90.09	-174.33	3,235.34	3,386.42	3,315.98	70.44	48.074		
10,150.00	10,144.08	10,134.85	10,129.39	35.53	35.31	90.12	-167.49	3,235.29	3,386.42	3,315.64	70.77	47.849		
10,200.00	10,192.52	10,185.64	10,178.90	35.68	35.48	90.14	-156.22	3,235.20	3,386.42	3,315.32	71.10	47.632		
10,250.00	10,239.69	10,236.55	10,227.33	35.84	35.63	90.16	-140.56	3,235.08	3,386.41	3,315.00	71.41	47.424		
10,300.00	10,285.26	10,287.56	10,274.27	35.98	35.78	90.18	-120.63	3,234.93	3,386.41	3,314.70	71.71	47.226		
10,350.00	10,328.85	10,338.67	10,319.33	36.12	35.93	90.20	-96.55	3,234.75	3,386.40	3,314.40	72.00	47.036		
10,400.00	10,370.15	10,389.88	10,362.15	36.25	36.07	90.22	-68.50	3,234.53	3,386.39	3,314.11	72.28	46.854		
10,450.00	10,408.84	10,441.16	10,402.35	36.37	36.21	90.23	-36.68	3,234.29	3,386.38	3,313.83	72.55	46.679		
10,500.00	10,444.62	10,492.52	10,439.59	36.49	36.34	90.24	-1.35	3,234.02	3,386.36	3,313.55	72.81	46.510		
10,550.00	10,477.22	10,543.93	10,473.56	36.61	36.47	90.26	37.22	3,233.73	3,386.35	3,313.28	73.07	46.346		
10,600.00	10,506.40	10,595.40	10,503.97	36.73	36.60	90.27	78.72	3,233.41	3,386.33	3,313.01	73.32	46.186		
10,650.00	10,531.93	10,646.90	10,530.55	36.85	36.72	90.27	122.81	3,233.08	3,386.31	3,312.74	73.57	46.029		
10,700.00	10,553.61	10,698.43	10,553.07	36.97	36.85	90.28	169.13	3,232.72	3,386.29	3,312.47	73.82	45.873		
10,750.00	10,571.29	10,749.96	10,571.34	37.10	36.97	90.28	217.30	3,232.36	3,386.27	3,312.20	74.07	45.718		
10,800.00	10,584.83	10,801.50	10,585.21	37.22	37.10	90.28	266.92	3,231.98	3,386.25	3,311.93	74.32	45.563		
10,850.00	10,594.12	10,853.02	10,594.57	37.34	37.23	90.28	317.56	3,231.59	3,386.22	3,311.65	74.57	45.409		
10,900.00	10,599.10	10,904.51	10,599.34	37.47	37.35	90.28	368.82	3,231.20	3,386.20	3,311.37	74.82	45.256		
10,932.14	10,600.00	10,937.43	10,600.00	37.55	37.43	90.27	401.72	3,230.95	3,386.18	3,311.19	74.98	45.158		
11,000.00	10,600.00	11,005.30	10,600.00	37.73	37.62	90.27	469.59	3,230.44	3,386.15	3,310.80	75.35	44.940		
11,100.00	10,600.00	11,105.30	10,600.00	38.04	37.93	90.27	569.58	3,229.67	3,386.10	3,310.13	75.97	44.570		
11,200.00	10,600.00	11,205.30	10,600.00	38.41	38.29	90.27	669.58	3,228.91	3,386.05	3,309.35	76.70	44.144		
11,300.00	10,600.00	11,305.30	10,600.00	38.83	38.71	90.27	769.58	3,228.15	3,386.00	3,308.47	77.54	43.669		
11,400.00	10,600.00	11,405.30	10,600.00	39.30	39.17	90.27	869.57	3,227.39	3,385.96	3,307.49	78.47	43.149		
11,500.00	10,600.00	11,505.30	10,600.00	39.81	39.69	90.27	969.57	3,226.63	3,385.91	3,306.41	79.50	42.591		
11,600.00	10,600.00	11,605.30	10,600.00	40.37	40.25	90.27	1,069.57	3,225.87	3,385.86	3,305.24	80.62	41.998		
11,700.00	10,600.00	11,705.30	10,600.00	40.98	40.85	90.27	1,169.57	3,225.11	3,385.81	3,303.99	81.83	41.377		
11,800.00	10,600.00	11,805.30	10,600.00	41.62	41.50	90.27	1,269.56	3,224.35	3,385.77	3,302.64	83.12	40.732		
11,900.00	10,600.00	11,905.30	10,600.00	42.31	42.19	90.27	1,369.56	3,223.58	3,385.72	3,301.22	84.50	40.069		
12,000.00	10,600.00	12,005.30	10,600.00	43.04	42.91	90.27	1,469.56	3,222.82	3,385.67	3,299.72	85.95	39.392		
12,100.00	10,600.00	12,105.30	10,600.00	43.80	43.67	90.27	1,569.55	3,222.06	3,385.62	3,298.15	87.47	38.705		
12,200.00	10,600.00	12,205.30	10,600.00	44.60	44.47	90.27	1,669.55	3,221.30	3,385.58	3,296.51	89.06	38.012		
12,300.00	10,600.00	12,305.30	10,600.00	45.43	45.30	90.27	1,769.55	3,220.54	3,385.53	3,294.81	90.72	37.317		
12,400.00	10,600.00	12,405.30	10,600.00	46.29	46.16	90.27	1,869.55	3,219.78	3,385.48	3,293.04	92.44	36.622		
12,500.00	10,600.00	12,505.30	10,600.00	47.17	47.05	90.27	1,969.54	3,219.02	3,385.43	3,291.21	94.22	35.930		
12,600.00	10,600.00	12,605.30	10,600.00	48.09	47.97	90.27	2,069.54	3,218.26	3,385.39	3,289.33	96.06	35.243		
12,700.00	10,600.00	12,705.30	10,600.00	49.04	48.91	90.27	2,169.54	3,217.49	3,385.34	3,287.39	97.95	34.564		
12,800.00	10,600.00	12,805.30	10,600.00	50.00	49.88	90.27	2,269.53	3,216.73	3,385.29	3,285.41	99.88	33.893		
12,900.00	10,600.00	12,905.30	10,600.00	50.99	50.87	90.27	2,369.53	3,215.97	3,385.24	3,283.38	101.86	33.233		
13,000.00	10,600.00	13,005.30	10,600.00	52.01	51.89	90.27	2,469.53	3,215.21	3,385.20	3,281.31	103.89	32.584		
13,100.00	10,600.00	13,105.30	10,600.00	53.04	52.92	90.27	2,569.52	3,214.45	3,385.15	3,279.19	105.96	31.948		
13,200.00	10,600.00	13,205.30	10,600.00	54.09	53.98	90.27	2,669.52	3,213.69	3,385.10	3,277.04	108.07	31.325		
13,300.00	10,600.00	13,305.30	10,600.00	55.16	55.05	90.27	2,769.52	3,212.93	3,385.05	3,274.85	110.21	30.715		
13,400.00	10,600.00	13,405.30	10,600.00	56.25	56.14	90.27	2,869.52	3,212.17	3,385.01	3,272.62	112.39	30.119		
13,500.00	10,600.00	13,505.30	10,600.00	57.36	57.24	90.27	2,969.51	3,211.40	3,384.96	3,270.36	114.60	29.538		
13,600.00	10,600.00	13,605.30	10,600.00	58.48	58.36	90.27	3,069.51	3,210.64	3,384.91	3,268.07	116.84	28.971		
13,700.00	10,600.00	13,705.30	10,600.00	59.61	59.50	90.27	3,169.51	3,209.88	3,384.86	3,265.75	119.11	28.418		
13,800.00	10,600.00	13,805.30	10,600.00	60.76	60.65	90.27	3,269.50	3,209.12	3,384.82	3,263.41	121.41	27.880		
13,900.00	10,600.00	13,905.30	10,600.00	61.92	61.81	90.27	3,369.50	3,208.36	3,384.77	3,261.04	123.73	27.356		
14,000.00	10,600.00	14,005.30	10,600.00	63.10	62.99	90.27	3,469.50	3,207.60	3,384.72	3,258.64	126.08	26.846		
14,100.00	10,600.00	14,105.30	10,600.00	64.28	64.17	90.27	3,569.50	3,206.84	3,384.67	3,256.22	128.45	26.350		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	14,205.30	10,600.00	65.48	65.37	90.27	3,669.49	3,206.07	3,384.63	3,253.78	130.84	25.867	
14,300.00	10,600.00	14,305.30	10,600.00	66.68	66.58	90.27	3,769.49	3,205.31	3,384.58	3,251.32	133.26	25.399	
14,400.00	10,600.00	14,405.30	10,600.00	67.90	67.79	90.27	3,869.49	3,204.55	3,384.53	3,248.84	135.69	24.943	
14,500.00	10,600.00	14,505.30	10,600.00	69.13	69.02	90.27	3,969.48	3,203.79	3,384.48	3,246.34	138.14	24.500	
14,600.00	10,600.00	14,605.30	10,600.00	70.36	70.26	90.27	4,069.48	3,203.03	3,384.44	3,243.82	140.61	24.069	
14,700.00	10,600.00	14,705.30	10,600.00	71.60	71.50	90.27	4,169.48	3,202.27	3,384.39	3,241.29	143.10	23.650	
14,800.00	10,600.00	14,805.30	10,600.00	72.85	72.75	90.27	4,269.48	3,201.51	3,384.34	3,238.74	145.60	23.244	
14,900.00	10,600.00	14,905.30	10,600.00	74.11	74.01	90.27	4,369.47	3,200.75	3,384.29	3,236.17	148.12	22.848	
15,000.00	10,600.00	15,005.30	10,600.00	75.38	75.28	90.27	4,469.47	3,199.98	3,384.25	3,233.60	150.65	22.464	
15,100.00	10,600.00	15,105.30	10,600.00	76.65	76.55	90.27	4,569.47	3,199.22	3,384.20	3,231.00	153.20	22.091	
15,200.00	10,600.00	15,205.30	10,600.00	77.93	77.83	90.27	4,669.46	3,198.46	3,384.15	3,228.40	155.75	21.728	
15,300.00	10,600.00	15,305.30	10,600.00	79.21	79.11	90.27	4,769.46	3,197.70	3,384.10	3,225.78	158.32	21.375	
15,400.00	10,600.00	15,405.30	10,600.00	80.50	80.41	90.27	4,869.46	3,196.94	3,384.06	3,223.15	160.91	21.031	
15,500.00	10,600.00	15,505.30	10,600.00	81.80	81.70	90.27	4,969.46	3,196.18	3,384.01	3,220.51	163.50	20.698	
15,575.11	10,600.00	15,580.40	10,600.00	82.77	82.68	90.27	5,044.56	3,195.61	3,383.97	3,218.52	165.45	20.453 ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.06	54.80	3,356.36	3,356.85					
100.00	100.00	83.40	83.40	0.52	0.51	89.06	54.80	3,356.36	3,356.80	3,355.77	1.03	3,258.494		
200.00	200.00	183.40	183.40	0.70	0.66	89.06	54.80	3,356.36	3,356.80	3,355.44	1.36	2,461.380		
300.00	300.00	283.40	283.40	0.99	0.94	89.06	54.80	3,356.36	3,356.80	3,354.88	1.92	1,744.842		
400.00	400.00	383.40	383.40	1.31	1.25	89.06	54.80	3,356.36	3,356.80	3,354.24	2.56	1,309.517		
500.00	500.00	483.40	483.40	1.65	1.59	89.06	54.80	3,356.36	3,356.80	3,353.57	3.24	1,037.465		
600.00	600.00	583.40	583.40	1.99	1.93	89.06	54.80	3,356.36	3,356.80	3,352.88	3.92	855.528		
700.00	700.00	683.40	683.40	2.34	2.28	89.06	54.80	3,356.36	3,356.80	3,352.18	4.62	726.497		
800.00	800.00	783.40	783.40	2.69	2.63	89.06	54.80	3,356.36	3,356.80	3,351.48	5.32	630.653		
900.00	900.00	883.40	883.40	3.04	2.98	89.06	54.80	3,356.36	3,356.80	3,350.78	6.03	556.830		
1,000.00	1,000.00	983.40	983.40	3.40	3.34	89.06	54.80	3,356.36	3,356.80	3,350.07	6.74	498.303		
1,100.00	1,100.00	1,083.40	1,083.40	3.75	3.69	89.06	54.80	3,356.36	3,356.80	3,349.36	7.45	450.805		
1,200.00	1,200.00	1,183.40	1,183.40	4.11	4.05	89.06	54.80	3,356.36	3,356.80	3,348.65	8.16	411.512		
1,300.00	1,300.00	1,283.40	1,283.40	4.46	4.41	89.06	54.80	3,356.36	3,356.80	3,347.93	8.87	378.478		
1,400.00	1,400.00	1,383.40	1,383.40	4.82	4.76	89.06	54.80	3,356.36	3,356.80	3,347.22	9.58	350.326		
1,500.00	1,500.00	1,483.40	1,483.40	5.18	5.12	89.06	54.80	3,356.36	3,356.80	3,346.51	10.30	326.054		
1,600.00	1,600.00	1,583.40	1,583.40	5.53	5.47	89.06	54.80	3,356.36	3,356.80	3,345.80	11.01	304.914		
1,700.00	1,700.00	1,683.40	1,683.40	5.89	5.83	89.06	54.80	3,356.36	3,356.80	3,345.08	11.72	286.339		
1,800.00	1,800.00	1,783.40	1,783.40	6.25	6.19	89.06	54.80	3,356.36	3,356.80	3,344.37	12.44	269.891		
1,900.00	1,900.00	1,883.40	1,883.40	6.61	6.55	89.06	54.80	3,356.36	3,356.80	3,343.65	13.15	255.224		
2,000.00	2,000.00	1,983.40	1,983.40	6.96	6.90	89.06	54.80	3,356.36	3,356.80	3,342.94	13.87	242.065 CC		
2,100.00	2,100.00	2,053.11	2,053.11	7.32	7.15	89.07	54.75	3,356.60	3,357.18	3,342.71	14.47	232.043 ES		
2,200.00	2,200.00	2,116.78	2,116.77	7.68	7.37	89.07	54.55	3,357.52	3,358.62	3,343.58	15.04	223.272		
2,300.00	2,300.00	2,180.42	2,180.39	8.04	7.58	89.08	54.19	3,359.13	3,361.15	3,345.54	15.61	215.299		
2,400.00	2,400.00	2,244.01	2,243.94	8.39	7.80	89.08	53.69	3,361.43	3,364.75	3,348.57	16.18	207.967		
2,500.00	2,500.00	2,300.00	2,299.86	8.75	7.99	89.10	53.13	3,364.03	3,369.45	3,352.73	16.72	201.545		
2,600.00	2,600.00	2,371.00	2,370.74	9.11	8.23	89.11	52.24	3,368.09	3,375.20	3,357.89	17.31	194.983		
2,700.00	2,700.00	2,434.37	2,433.95	9.47	8.45	89.13	51.29	3,372.44	3,382.04	3,364.16	17.87	189.225		
2,800.00	2,800.00	2,500.00	2,499.37	9.83	8.68	89.15	50.15	3,377.66	3,389.95	3,371.51	18.44	183.806		
2,900.00	2,900.00	2,560.77	2,559.88	10.18	8.89	89.17	48.96	3,383.15	3,398.93	3,379.94	18.99	178.957		
3,000.00	3,000.00	2,623.77	2,622.54	10.54	9.11	89.20	47.57	3,389.50	3,408.99	3,389.44	19.55	174.376		
3,100.00	3,100.00	2,686.63	2,684.98	10.90	9.33	89.22	46.04	3,396.51	3,420.10	3,400.00	20.10	170.123		
3,200.00	3,200.00	2,749.31	2,747.18	11.26	9.56	89.25	44.37	3,404.16	3,432.28	3,411.63	20.66	166.169		
3,300.00	3,300.00	2,811.82	2,809.11	11.62	9.78	89.29	42.56	3,412.45	3,445.52	3,424.32	21.20	162.492		
3,400.00	3,400.00	2,874.13	2,870.75	11.97	10.01	89.32	40.62	3,421.38	3,459.81	3,438.06	21.75	159.070		
3,500.00	3,500.00	2,964.61	2,960.14	12.33	10.34	89.37	37.64	3,435.01	3,474.84	3,452.43	22.42	155.020		
3,600.00	3,600.00	3,063.34	3,057.69	12.67	10.71	-127.93	34.39	3,449.91	3,490.43	3,467.33	23.10	151.092		
3,700.00	3,699.96	3,161.94	3,155.10	13.00	11.08	-127.77	31.15	3,464.78	3,507.08	3,483.31	23.77	147.523		
3,737.73	3,737.66	3,200.91	3,191.81	13.13	11.22	-127.72	29.93	3,470.39	3,513.64	3,489.61	24.03	146.196		
3,800.00	3,799.88	3,260.39	3,252.38	13.33	11.45	-127.72	27.91	3,479.64	3,524.59	3,500.14	24.45	144.172		
3,900.00	3,899.79	3,358.84	3,349.64	13.66	11.82	-127.71	24.67	3,494.49	3,542.16	3,517.04	25.12	140.991		
4,000.00	3,999.71	3,457.28	3,446.90	13.99	12.20	-127.71	21.43	3,509.34	3,559.74	3,533.94	25.80	137.961		
4,100.00	4,099.62	3,555.72	3,544.16	14.32	12.58	-127.71	18.19	3,524.19	3,577.31	3,550.83	26.48	135.073		
4,200.00	4,199.53	3,654.17	3,641.43	14.66	12.96	-127.71	14.95	3,539.04	3,594.89	3,567.72	27.17	132.317		
4,300.00	4,299.45	3,752.61	3,738.69	15.00	13.34	-127.71	11.71	3,553.90	3,612.47	3,584.61	27.86	129.686		
4,400.00	4,399.36	3,851.05	3,835.95	15.33	13.73	-127.71	8.47	3,568.75	3,630.04	3,601.50	28.54	127.172		
4,500.00	4,499.28	3,949.50	3,933.21	15.67	14.12	-127.70	5.23	3,583.60	3,647.62	3,618.38	29.24	124.768		
4,600.00	4,599.19	4,047.94	4,030.48	16.01	14.50	-127.70	1.99	3,598.45	3,665.19	3,635.27	29.93	122.467		
4,700.00	4,699.10	4,146.38	4,127.74	16.35	14.89	-127.70	-1.25	3,613.30	3,682.77	3,652.15	30.62	120.263		
4,800.00	4,799.02	4,244.83	4,225.00	16.69	15.29	-127.70	-4.49	3,628.15	3,700.35	3,669.03	31.32	118.151		
4,900.00	4,898.93	4,343.27	4,322.26	17.04	15.68	-127.70	-7.73	3,643.01	3,717.92	3,685.91	32.02	116.126		
5,000.00	4,998.85	4,441.71	4,419.53	17.38	16.07	-127.69	-10.97	3,657.86	3,735.50	3,702.78	32.72	114.181		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	4,540.16	4,516.79	17.72	16.47	-127.69	-14.21	3,672.71	3,753.07	3,719.66	33.42	112.313		
5,200.00	5,198.67	4,638.60	4,614.05	18.07	16.86	-127.69	-17.45	3,687.56	3,770.65	3,736.53	34.12	110.518		
5,300.00	5,298.59	4,737.04	4,711.31	18.41	17.26	-127.69	-20.69	3,702.41	3,788.23	3,753.40	34.82	108.792		
5,400.00	5,398.50	4,835.49	4,808.58	18.76	17.65	-127.69	-23.92	3,717.26	3,805.80	3,770.28	35.53	107.130		
5,500.00	5,498.42	4,933.93	4,905.84	19.11	18.05	-127.69	-27.16	3,732.12	3,823.38	3,787.15	36.23	105.530		
5,600.00	5,598.33	5,032.37	5,003.10	19.45	18.45	-127.68	-30.40	3,746.97	3,840.95	3,804.02	36.94	103.988		
5,700.00	5,698.24	5,130.82	5,100.37	19.80	18.85	-127.68	-33.64	3,761.82	3,858.53	3,820.89	37.64	102.501		
5,800.00	5,798.16	5,229.26	5,197.63	20.15	19.25	-127.68	-36.88	3,776.67	3,876.11	3,837.75	38.35	101.067		
5,900.00	5,898.07	5,327.70	5,294.89	20.50	19.65	-127.68	-40.12	3,791.52	3,893.68	3,854.62	39.06	99.683		
6,000.00	5,997.98	5,426.15	5,392.15	20.85	20.05	-127.68	-43.36	3,806.37	3,911.26	3,871.49	39.77	98.346		
6,100.00	6,097.90	5,524.59	5,489.42	21.20	20.45	-127.68	-46.60	3,821.23	3,928.83	3,888.35	40.48	97.054		
6,200.00	6,197.81	5,623.03	5,586.68	21.55	20.85	-127.68	-49.84	3,836.08	3,946.41	3,905.22	41.19	95.804		
6,300.00	6,297.73	5,721.47	5,683.94	21.90	21.26	-127.67	-53.08	3,850.93	3,963.99	3,922.08	41.90	94.596		
6,400.00	6,397.64	5,819.92	5,781.20	22.25	21.66	-127.67	-56.32	3,865.78	3,981.56	3,938.94	42.62	93.426		
6,500.00	6,497.55	5,918.36	5,878.47	22.61	22.06	-127.67	-59.56	3,880.63	3,999.14	3,955.81	43.33	92.294		
6,600.00	6,597.47	6,016.80	5,975.73	22.96	22.47	-127.67	-62.80	3,895.49	4,016.71	3,972.67	44.04	91.197		
6,700.00	6,697.38	6,115.25	6,072.99	23.31	22.87	-127.67	-66.04	3,910.34	4,034.29	3,989.53	44.76	90.134		
6,800.00	6,797.30	6,213.69	6,170.25	23.66	23.28	-127.67	-69.28	3,925.19	4,051.87	4,006.39	45.47	89.103		
6,900.00	6,897.21	6,312.13	6,267.52	24.02	23.68	-127.66	-72.52	3,940.04	4,069.44	4,023.25	46.19	88.103		
7,000.00	6,997.12	6,410.58	6,364.78	24.37	24.09	-127.66	-75.76	3,954.89	4,087.02	4,040.11	46.91	87.132		
7,100.00	7,097.04	6,509.02	6,462.04	24.73	24.49	-127.66	-79.00	3,969.74	4,104.59	4,056.97	47.62	86.190		
7,200.00	7,196.95	6,607.46	6,559.30	25.08	24.90	-127.66	-82.24	3,984.60	4,122.17	4,073.83	48.34	85.275		
7,300.00	7,296.87	6,705.91	6,656.57	25.43	25.30	-127.66	-85.48	3,999.45	4,139.75	4,090.69	49.06	84.386		
7,400.00	7,396.78	6,804.35	6,753.83	25.79	25.71	-127.66	-88.72	4,014.30	4,157.32	4,107.55	49.78	83.521		
7,500.00	7,496.69	6,902.79	6,851.09	26.14	26.12	-127.66	-91.96	4,029.15	4,174.90	4,124.40	50.49	82.681		
7,600.00	7,596.61	7,001.24	6,948.35	26.50	26.52	-127.66	-95.20	4,044.00	4,192.47	4,141.26	51.21	81.864		
7,700.00	7,696.52	7,100.32	7,045.62	26.86	26.93	-127.65	-98.44	4,058.85	4,210.05	4,158.12	51.93	81.064		
7,800.00	7,796.44	7,201.88	7,142.88	27.21	27.35	-127.65	-101.68	4,073.71	4,227.63	4,174.96	52.67	80.273		
7,900.00	7,896.35	7,303.43	7,240.14	27.57	27.77	-127.65	-104.92	4,088.56	4,245.20	4,191.81	53.40	79.502		
8,000.00	7,996.26	7,395.01	7,337.40	27.92	28.15	-127.65	-108.15	4,103.41	4,262.78	4,208.69	54.09	78.806		
8,100.00	8,096.18	7,506.55	7,434.67	28.28	28.61	-127.65	-111.39	4,118.26	4,280.36	4,225.49	54.86	78.020		
8,200.00	8,196.09	7,608.10	7,531.93	28.64	29.03	-127.65	-114.63	4,133.11	4,297.93	4,242.34	55.59	77.308		
8,300.00	8,296.01	7,709.66	7,629.19	28.99	29.45	-127.65	-117.87	4,147.97	4,315.51	4,259.18	56.33	76.614		
8,400.00	8,395.92	7,788.78	7,726.45	29.35	29.78	-127.64	-121.11	4,162.82	4,333.08	4,276.11	56.98	76.049		
8,500.00	8,495.83	7,887.23	7,823.72	29.71	30.19	-127.64	-124.35	4,177.67	4,350.66	4,292.96	57.70	75.402		
8,600.00	8,595.75	7,985.67	7,920.98	30.06	30.60	-127.64	-127.59	4,192.52	4,368.24	4,309.81	58.42	74.771		
8,700.00	8,695.66	8,084.11	8,018.24	30.42	31.01	-127.64	-130.83	4,207.37	4,385.81	4,326.67	59.14	74.154		
8,800.00	8,795.58	8,182.56	8,115.50	30.78	31.42	-127.64	-134.07	4,222.22	4,403.39	4,343.52	59.87	73.552		
8,900.00	8,895.49	8,281.00	8,212.77	31.14	31.83	-127.64	-137.31	4,237.08	4,420.96	4,360.37	60.59	72.964		
9,000.00	8,995.40	8,379.44	8,310.03	31.50	32.24	-127.64	-140.55	4,251.93	4,438.54	4,377.23	61.31	72.390		
9,100.00	9,095.32	8,477.89	8,407.29	31.85	32.64	-127.64	-143.79	4,266.78	4,456.12	4,394.08	62.04	71.829		
9,200.00	9,195.23	8,576.33	8,504.55	32.21	33.05	-127.63	-147.03	4,281.63	4,473.69	4,410.93	62.76	71.280		
9,300.00	9,295.14	8,674.77	8,601.82	32.57	33.46	-127.63	-150.27	4,296.48	4,491.27	4,427.78	63.49	70.744		
9,400.00	9,395.06	8,773.22	8,699.08	32.93	33.87	-127.63	-153.51	4,311.33	4,508.84	4,444.63	64.21	70.220		
9,500.00	9,494.97	8,871.66	8,796.34	33.29	34.28	-127.63	-156.75	4,326.19	4,526.42	4,461.49	64.94	69.707		
9,523.61	9,518.56	8,905.10	8,819.30	33.37	34.42	-127.63	-157.51	4,329.69	4,530.57	4,465.43	65.14	69.546		
9,600.00	9,594.91	8,970.18	8,893.68	33.64	34.69	-127.78	-159.99	4,341.05	4,543.54	4,477.88	65.66	69.198		
9,682.09	9,677.00	9,051.22	8,973.75	33.93	35.03	89.56	-162.66	4,353.28	4,556.44	4,490.19	66.25	68.778		
9,700.00	9,694.91	9,068.91	8,991.23	33.99	35.10	89.57	-163.24	4,355.95	4,559.14	4,492.77	66.38	68.687		
9,800.00	9,794.91	9,859.52	9,778.31	34.33	38.01	89.74	-176.20	4,415.36	4,566.40	4,496.65	69.75	65.467		
9,900.00	9,894.91	9,959.52	9,878.31	34.68	38.33	89.74	-176.20	4,415.36	4,566.40	4,495.98	70.43	64.839		
10,000.00	9,994.91	10,059.52	9,978.31	35.02	38.64	89.74	-176.20	4,415.36	4,566.40	4,495.30	71.10	64.223		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	10,091.66	10,010.44	35.13	38.75	89.74	-176.20	4,415.36	4,566.40	4,495.08	71.32	64.027		
10,050.00	10,044.90	10,109.55	10,028.34	35.19	38.80	90.15	-176.20	4,415.36	4,566.40	4,494.96	71.44	63.919		
10,100.00	10,094.75	10,160.87	10,079.58	35.36	38.96	90.17	-173.79	4,415.34	4,566.41	4,494.63	71.78	63.620		
10,150.00	10,144.08	10,212.32	10,130.53	35.53	39.12	90.19	-166.78	4,415.29	4,566.41	4,494.31	72.10	63.332		
10,200.00	10,192.52	10,263.87	10,180.75	35.68	39.27	90.20	-155.20	4,415.20	4,566.41	4,493.99	72.42	63.056		
10,250.00	10,239.69	10,315.53	10,229.83	35.84	39.40	90.21	-139.11	4,415.07	4,566.40	4,493.68	72.72	62.792		
10,300.00	10,285.26	10,367.29	10,277.33	35.98	39.53	90.23	-118.64	4,414.92	4,566.40	4,493.38	73.01	62.541		
10,350.00	10,328.85	10,419.11	10,322.87	36.12	39.65	90.23	-93.93	4,414.73	4,566.39	4,493.09	73.29	62.302		
10,400.00	10,370.15	10,470.99	10,366.03	36.25	39.75	90.24	-65.16	4,414.51	4,566.38	4,492.81	73.56	62.073		
10,450.00	10,408.84	10,522.92	10,406.44	36.37	39.84	90.25	-32.59	4,414.26	4,566.36	4,492.54	73.82	61.854		
10,500.00	10,444.62	10,574.88	10,443.76	36.49	39.91	90.25	3.53	4,413.99	4,566.35	4,492.27	74.08	61.643		
10,550.00	10,477.22	10,626.84	10,477.67	36.61	39.97	90.26	42.89	4,413.69	4,566.33	4,492.01	74.32	61.439		
10,600.00	10,506.40	10,678.80	10,507.86	36.73	40.01	90.26	85.15	4,413.37	4,566.31	4,491.75	74.56	61.240		
10,650.00	10,531.93	10,730.74	10,534.09	36.85	40.04	90.25	129.95	4,413.03	4,566.29	4,491.49	74.80	61.045		
10,700.00	10,553.61	10,782.64	10,556.15	36.97	40.07	90.25	176.91	4,412.67	4,566.27	4,491.23	75.04	60.853		
10,750.00	10,571.29	10,834.48	10,573.85	37.10	40.08	90.24	225.62	4,412.30	4,566.24	4,490.97	75.27	60.662		
10,800.00	10,584.83	10,886.25	10,587.06	37.22	40.09	90.24	275.66	4,411.92	4,566.21	4,490.71	75.51	60.472		
10,850.00	10,594.12	10,937.94	10,595.69	37.34	40.09	90.23	326.60	4,411.53	4,566.19	4,490.44	75.75	60.283		
10,900.00	10,599.10	10,989.52	10,599.69	37.47	40.10	90.21	378.01	4,411.14	4,566.16	4,490.18	75.98	60.096		
10,932.14	10,600.00	11,022.21	10,600.00	37.55	40.11	90.21	410.69	4,410.89	4,566.14	4,490.01	76.13	59.975		
11,000.00	10,600.00	11,109.93	10,600.00	37.73	40.17	90.21	478.55	4,410.37	4,566.11	4,489.58	76.53	59.666		
11,100.00	10,600.00	11,209.93	10,600.00	38.04	40.30	90.21	578.55	4,409.61	4,566.06	4,488.93	77.13	59.197		
11,200.00	10,600.00	11,309.93	10,600.00	38.41	40.52	90.21	678.55	4,408.85	4,566.02	4,488.17	77.84	58.657		
11,300.00	10,600.00	11,390.07	10,600.00	38.83	40.75	90.21	778.55	4,408.09	4,565.97	4,487.40	78.57	58.112		
11,400.00	10,600.00	11,509.93	10,600.00	39.30	41.21	90.21	878.54	4,407.33	4,565.92	4,486.36	79.56	57.387		
11,500.00	10,600.00	11,609.93	10,600.00	39.81	41.66	90.21	978.54	4,406.57	4,565.87	4,485.31	80.57	56.671		
11,600.00	10,600.00	11,709.93	10,600.00	40.37	42.17	90.21	1,078.54	4,405.81	4,565.83	4,484.16	81.66	55.910		
11,700.00	10,600.00	11,809.93	10,600.00	40.98	42.73	90.21	1,178.53	4,405.05	4,565.78	4,482.93	82.85	55.111		
11,800.00	10,600.00	11,890.07	10,600.00	41.62	43.22	90.21	1,278.53	4,404.29	4,565.73	4,481.74	83.99	54.361		
11,900.00	10,600.00	12,009.93	10,600.00	42.31	44.00	90.21	1,378.53	4,403.53	4,565.69	4,480.22	85.46	53.422		
12,000.00	10,600.00	12,109.93	10,600.00	43.04	44.69	90.21	1,478.53	4,402.76	4,565.65	4,478.75	86.89	52.545		
12,100.00	10,600.00	12,209.93	10,600.00	43.80	45.42	90.21	1,578.52	4,402.00	4,565.59	4,477.20	88.39	51.654		
12,200.00	10,600.00	12,309.93	10,600.00	44.60	46.18	90.21	1,678.52	4,401.24	4,565.54	4,475.59	89.96	50.753		
12,300.00	10,600.00	12,409.93	10,600.00	45.43	46.98	90.21	1,778.52	4,400.48	4,565.50	4,473.91	91.59	49.848		
12,400.00	10,600.00	12,490.07	10,600.00	46.29	47.64	90.21	1,878.51	4,399.72	4,565.45	4,472.33	93.12	49.029		
12,500.00	10,600.00	12,609.93	10,600.00	47.17	48.67	90.21	1,978.51	4,398.96	4,565.40	4,470.36	95.04	48.037		
12,600.00	10,600.00	12,709.93	10,600.00	48.09	49.55	90.21	2,078.51	4,398.20	4,565.36	4,468.50	96.85	47.138		
12,700.00	10,600.00	12,809.93	10,600.00	49.04	50.46	90.21	2,178.50	4,397.44	4,565.31	4,466.59	98.71	46.248		
12,800.00	10,600.00	12,909.93	10,600.00	50.00	51.40	90.21	2,278.50	4,396.68	4,565.26	4,464.63	100.63	45.368		
12,900.00	10,600.00	13,009.93	10,600.00	50.99	52.36	90.21	2,378.50	4,395.92	4,565.21	4,462.63	102.59	44.501		
13,000.00	10,600.00	13,109.93	10,600.00	52.01	53.34	90.21	2,478.50	4,395.15	4,565.17	4,460.57	104.59	43.647		
13,100.00	10,600.00	13,209.93	10,600.00	53.04	54.35	90.21	2,578.49	4,394.39	4,565.12	4,458.48	106.64	42.809		
13,200.00	10,600.00	13,309.93	10,600.00	54.09	55.37	90.21	2,678.49	4,393.63	4,565.07	4,456.35	108.72	41.988		
13,300.00	10,600.00	13,409.93	10,600.00	55.16	56.41	90.21	2,778.49	4,392.87	4,565.03	4,454.18	110.85	41.183		
13,400.00	10,600.00	13,509.93	10,600.00	56.25	57.48	90.21	2,878.48	4,392.11	4,564.98	4,451.97	113.01	40.396		
13,500.00	10,600.00	13,590.07	10,600.00	57.36	58.34	90.21	2,978.48	4,391.35	4,564.93	4,449.95	114.98	39.702		
13,600.00	10,600.00	13,709.93	10,600.00	58.48	59.65	90.21	3,078.48	4,390.59	4,564.88	4,447.46	117.42	38.876		
13,700.00	10,600.00	13,809.93	10,600.00	59.61	60.75	90.21	3,178.48	4,389.83	4,564.84	4,445.16	119.67	38.144		
13,800.00	10,600.00	13,909.93	10,600.00	60.76	61.88	90.21	3,278.47	4,389.07	4,564.79	4,442.84	121.95	37.431		
13,900.00	10,600.00	14,009.93	10,600.00	61.92	63.01	90.21	3,378.47	4,388.31	4,564.74	4,440.48	124.26	36.735		
14,000.00	10,600.00	14,109.93	10,600.00	63.10	64.16	90.21	3,478.47	4,387.54	4,564.69	4,438.10	126.59	36.058		
14,100.00	10,600.00	14,190.07	10,600.00	64.28	65.09	90.21	3,578.46	4,386.78	4,564.65	4,435.93	128.71	35.463		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	14,309.93	10,600.00	65.48	66.50	90.21	3,678.46	4,386.02	4,564.60	4,433.27	131.33	34.758	
14,300.00	10,600.00	14,390.07	10,600.00	66.68	67.44	90.21	3,778.46	4,385.26	4,564.55	4,431.07	133.49	34.195	
14,400.00	10,600.00	14,509.93	10,600.00	67.90	68.87	90.21	3,878.46	4,384.50	4,564.51	4,428.36	136.14	33.527	
14,500.00	10,600.00	14,609.93	10,600.00	69.13	70.08	90.21	3,978.45	4,383.74	4,564.46	4,425.88	138.58	32.937	
14,600.00	10,600.00	14,709.93	10,600.00	70.36	71.29	90.21	4,078.45	4,382.98	4,564.41	4,423.37	141.04	32.363	
14,700.00	10,600.00	14,809.93	10,600.00	71.60	72.51	90.21	4,178.45	4,382.22	4,564.36	4,420.85	143.51	31.805	
14,800.00	10,600.00	14,890.07	10,600.00	72.85	73.50	90.21	4,278.44	4,381.46	4,564.32	4,418.56	145.75	31.315	
14,900.00	10,600.00	15,009.93	10,600.00	74.11	74.98	90.21	4,378.44	4,380.70	4,564.27	4,415.77	148.50	30.735	
15,000.00	10,600.00	15,109.93	10,600.00	75.38	76.23	90.21	4,478.44	4,379.94	4,564.22	4,413.20	151.02	30.222	
15,100.00	10,600.00	15,209.93	10,600.00	76.65	77.48	90.21	4,578.44	4,379.17	4,564.18	4,410.62	153.56	29.723	
15,200.00	10,600.00	15,309.93	10,600.00	77.93	78.74	90.21	4,678.43	4,378.41	4,564.13	4,408.02	156.10	29.238	
15,300.00	10,600.00	15,409.93	10,600.00	79.21	80.01	90.21	4,778.43	4,377.65	4,564.08	4,405.42	158.66	28.766	
15,400.00	10,600.00	15,509.93	10,600.00	80.50	81.28	90.21	4,878.43	4,376.89	4,564.03	4,402.80	161.23	28.307	
15,500.00	10,600.00	15,609.93	10,600.00	81.80	82.56	90.21	4,978.42	4,376.13	4,563.99	4,400.17	163.82	27.860	
15,575.11	10,600.00	15,665.18	10,600.00	82.77	83.27	90.21	5,053.53	4,375.56	4,563.95	4,398.44	165.51	27.576 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	17.94	424.78	137.53	446.65					
100.00	100.00	88.00	88.00	0.52	10.07	17.94	424.78	137.53	446.49	435.90	10.59	42.178		
200.00	200.00	188.00	188.00	0.70	10.35	17.94	424.78	137.53	446.49	435.44	11.05	40.401		
300.00	300.00	288.00	288.00	0.99	10.83	17.94	424.78	137.53	446.49	434.67	11.82	37.776		
400.00	400.00	388.00	388.00	1.31	11.49	17.94	424.78	137.53	446.49	433.69	12.80	34.881		
500.00	500.00	488.00	488.00	1.65	12.30	17.94	424.78	137.53	446.49	432.54	13.94	32.019		
600.00	600.00	588.00	588.00	1.99	13.23	17.94	424.78	137.53	446.49	431.27	15.22	29.341		
700.00	700.00	688.00	688.00	2.34	14.25	17.94	424.78	137.53	446.49	429.90	16.59	26.911		
800.00	800.00	788.00	788.00	2.69	15.35	17.94	424.78	137.53	446.49	428.44	18.05	24.742		
900.00	900.00	888.00	888.00	3.04	16.52	17.94	424.78	137.53	446.49	426.93	19.56	22.822		
1,000.00	1,000.00	988.00	988.00	3.40	17.74	17.94	424.78	137.53	446.49	425.36	21.13	21.127		
1,100.00	1,100.00	1,088.00	1,088.00	3.75	18.99	17.94	424.78	137.53	446.49	423.75	22.74	19.631		
1,200.00	1,200.00	1,188.00	1,188.00	4.11	20.28	17.94	424.78	137.53	446.49	422.10	24.39	18.308		
1,300.00	1,300.00	1,288.00	1,288.00	4.46	21.60	17.94	424.78	137.53	446.49	420.43	26.06	17.133		
1,400.00	1,400.00	1,388.00	1,388.00	4.82	22.93	17.94	424.78	137.53	446.49	418.74	27.75	16.087		
1,500.00	1,500.00	1,488.00	1,488.00	5.18	24.29	17.94	424.78	137.53	446.49	417.02	29.47	15.152		
1,600.00	1,600.00	1,588.00	1,588.00	5.53	25.66	17.94	424.78	137.53	446.49	415.29	31.20	14.312		
1,700.00	1,700.00	1,688.00	1,688.00	5.89	27.05	17.94	424.78	137.53	446.49	413.55	32.94	13.555		
1,800.00	1,800.00	1,788.00	1,788.00	6.25	28.45	17.94	424.78	137.53	446.49	411.80	34.69	12.870		
1,900.00	1,900.00	1,888.00	1,888.00	6.61	29.85	17.94	424.78	137.53	446.49	410.03	36.46	12.247		
2,000.00	2,000.00	1,988.00	1,988.00	6.96	31.27	17.94	424.78	137.53	446.49	408.26	38.23	11.679		
2,100.00	2,100.00	2,088.00	2,088.00	7.32	32.69	17.94	424.78	137.53	446.49	406.48	40.01	11.159		
2,200.00	2,200.00	2,188.00	2,188.00	7.68	34.12	17.94	424.78	137.53	446.49	404.69	41.80	10.682		
2,300.00	2,300.00	2,288.00	2,288.00	8.04	35.55	17.94	424.78	137.53	446.49	402.90	43.59	10.243		
2,400.00	2,400.00	2,388.00	2,388.00	8.39	36.99	17.94	424.78	137.53	446.49	401.10	45.39	9.837		
2,500.00	2,500.00	2,488.00	2,488.00	8.75	38.44	17.94	424.78	137.53	446.49	399.30	47.19	9.462		
2,600.00	2,600.00	2,588.00	2,588.00	9.11	39.89	17.94	424.78	137.53	446.49	397.49	48.99	9.113		
2,700.00	2,700.00	2,688.00	2,688.00	9.47	41.34	17.94	424.78	137.53	446.49	395.68	50.80	8.788		
2,800.00	2,800.00	2,788.00	2,788.00	9.83	42.79	17.94	424.78	137.53	446.49	393.87	52.62	8.486		
2,900.00	2,900.00	2,888.00	2,888.00	10.18	44.25	17.94	424.78	137.53	446.49	392.06	54.43	8.203		
3,000.00	3,000.00	2,988.00	2,988.00	10.54	45.71	17.94	424.78	137.53	446.49	390.24	56.25	7.937		
3,100.00	3,100.00	3,088.00	3,088.00	10.90	47.17	17.94	424.78	137.53	446.49	388.42	58.07	7.689		
3,200.00	3,200.00	3,188.00	3,188.00	11.26	48.64	17.94	424.78	137.53	446.49	386.59	59.89	7.455		
3,300.00	3,300.00	3,288.00	3,288.00	11.62	50.10	17.94	424.78	137.53	446.49	384.77	61.72	7.234		
3,400.00	3,400.00	3,388.00	3,388.00	11.97	51.57	17.94	424.78	137.53	446.49	382.94	63.55	7.026		
3,500.00	3,500.00	3,488.00	3,488.00	12.33	53.04	17.94	424.78	137.53	446.49	381.12	65.37	6.830 CC		
3,600.00	3,600.00	3,588.00	3,588.00	12.67	54.51	160.51	424.78	137.53	447.31	380.12	67.19	6.658 ES		
3,700.00	3,699.96	3,687.96	3,687.96	13.00	55.99	160.61	424.78	137.53	449.78	380.79	68.99	6.520		
3,737.73	3,737.66	3,725.66	3,725.66	13.13	56.54	160.66	424.78	137.53	451.14	381.47	69.67	6.476		
3,800.00	3,799.88	3,787.88	3,787.88	13.33	57.46	160.77	424.78	137.53	453.58	382.79	70.79	6.408		
3,900.00	3,899.79	3,887.79	3,887.79	13.66	58.93	160.94	424.78	137.53	457.50	384.90	72.59	6.302		
4,000.00	3,999.71	3,987.71	3,987.71	13.99	60.41	161.11	424.78	137.53	461.42	387.02	74.40	6.202		
4,100.00	4,099.62	4,087.62	4,087.62	14.32	61.88	161.28	424.78	137.53	465.35	389.14	76.21	6.106		
4,200.00	4,199.53	4,187.53	4,187.53	14.66	63.36	161.44	424.78	137.53	469.28	391.26	78.02	6.015		
4,300.00	4,299.45	4,287.45	4,287.45	15.00	64.84	161.60	424.78	137.53	473.21	393.38	79.83	5.928		
4,400.00	4,399.36	4,387.36	4,387.36	15.33	66.32	161.76	424.78	137.53	477.15	395.50	81.65	5.844		
4,500.00	4,499.28	4,487.28	4,487.28	15.67	67.80	161.91	424.78	137.53	481.09	397.63	83.46	5.764		
4,600.00	4,599.19	4,587.19	4,587.19	16.01	69.28	162.06	424.78	137.53	485.04	399.75	85.28	5.687		
4,700.00	4,699.10	4,687.10	4,687.10	16.35	70.76	162.21	424.78	137.53	488.98	401.88	87.10	5.614		
4,800.00	4,799.02	4,787.02	4,787.02	16.69	72.24	162.36	424.78	137.53	492.94	404.01	88.92	5.543		
4,900.00	4,898.93	4,886.93	4,886.93	17.04	73.72	162.51	424.78	137.53	496.89	406.14	90.75	5.476		
5,000.00	4,998.85	4,986.85	4,986.85	17.38	75.21	162.65	424.78	137.53	500.85	408.28	92.57	5.410		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	5,098.76	5,086.76	5,086.76	17.72	76.69	162.79	424.78	137.53	504.81	410.41	94.40	5.348		
5,200.00	5,198.67	5,186.67	5,186.67	18.07	78.17	162.93	424.78	137.53	508.77	412.55	96.22	5.287		
5,300.00	5,298.59	5,286.59	5,286.59	18.41	79.66	163.06	424.78	137.53	512.74	414.69	98.05	5.229		
5,400.00	5,398.50	5,386.50	5,386.50	18.76	81.14	163.20	424.78	137.53	516.71	416.83	99.88	5.173		
5,500.00	5,498.42	5,486.42	5,486.42	19.11	82.63	163.33	424.78	137.53	520.68	418.97	101.71	5.119		
5,600.00	5,598.33	5,586.33	5,586.33	19.45	84.11	163.46	424.78	137.53	524.66	421.12	103.54	5.067		
5,700.00	5,698.24	5,686.24	5,686.24	19.80	85.60	163.59	424.78	137.53	528.64	423.26	105.37	5.017		
5,800.00	5,798.16	5,786.16	5,786.16	20.15	87.09	163.71	424.78	137.53	532.62	425.41	107.21	4.968 Alert		
5,900.00	5,898.07	5,886.07	5,886.07	20.50	88.57	163.84	424.78	137.53	536.60	427.56	109.04	4.921 Alert		
6,000.00	5,997.98	5,985.98	5,985.98	20.85	90.06	163.96	424.78	137.53	540.59	429.71	110.87	4.876 Alert, SF		
6,100.00	6,097.90	5,487.00	5,485.89	21.20	82.64	163.33	424.78	137.53	810.29	737.80	72.49	11.178		
6,200.00	6,197.81	5,487.00	5,485.89	21.55	82.64	163.33	424.78	137.53	889.28	821.62	67.66	13.144		
6,300.00	6,297.73	5,487.00	5,485.89	21.90	82.64	163.33	424.78	137.53	972.14	908.65	63.49	15.312		
6,400.00	6,397.64	5,487.00	5,485.89	22.25	82.64	163.33	424.78	137.53	1,057.97	998.05	59.92	17.656		
6,500.00	6,497.55	5,487.00	5,485.89	22.61	82.64	163.33	424.78	137.53	1,146.10	1,089.22	56.88	20.150		
6,600.00	6,597.47	5,487.00	5,485.89	22.96	82.64	163.33	424.78	137.53	1,236.04	1,181.76	54.28	22.771		
6,700.00	6,697.38	5,487.00	5,485.89	23.31	82.64	163.33	424.78	137.53	1,327.42	1,275.35	52.06	25.496		
6,800.00	6,797.30	5,487.00	5,485.89	23.66	82.64	163.33	424.78	137.53	1,419.96	1,369.79	50.16	28.306		
6,900.00	6,897.21	5,487.00	5,485.89	24.02	82.64	163.33	424.78	137.53	1,513.45	1,464.91	48.54	31.182		
7,000.00	6,997.12	5,487.00	5,485.89	24.37	82.64	163.33	424.78	137.53	1,607.72	1,560.58	47.14	34.108		
7,100.00	7,097.04	5,487.00	5,485.89	24.73	82.64	163.33	424.78	137.53	1,702.65	1,656.72	45.93	37.070		
7,200.00	7,196.95	5,487.00	5,485.89	25.08	82.64	163.33	424.78	137.53	1,798.12	1,753.23	44.89	40.055		
7,300.00	7,296.87	5,487.00	5,485.89	25.43	82.64	163.33	424.78	137.53	1,894.07	1,850.07	43.99	43.053		
7,400.00	7,396.78	5,487.00	5,485.89	25.79	82.64	163.33	424.78	137.53	1,990.41	1,947.19	43.22	46.053		
7,500.00	7,496.69	5,487.00	5,485.89	26.14	82.64	163.33	424.78	137.53	2,087.10	2,044.55	42.55	49.047		
7,600.00	7,596.61	5,487.00	5,485.89	26.50	82.64	163.33	424.78	137.53	2,184.09	2,142.11	41.98	52.029		
7,700.00	7,696.52	5,487.00	5,485.89	26.86	82.64	163.33	424.78	137.53	2,281.33	2,239.85	41.49	54.991		
7,800.00	7,796.44	5,487.00	5,485.89	27.21	82.64	163.33	424.78	137.53	2,378.81	2,337.74	41.06	57.928		
7,900.00	7,896.35	5,487.00	5,485.89	27.57	82.64	163.33	424.78	137.53	2,476.48	2,435.77	40.71	60.837		
8,000.00	7,996.26	5,487.00	5,485.89	27.92	82.64	163.33	424.78	137.53	2,574.34	2,533.93	40.40	63.713		
8,100.00	8,096.18	5,487.00	5,485.89	28.28	82.64	163.33	424.78	137.53	2,672.35	2,632.20	40.15	66.554		
8,200.00	8,196.09	5,487.00	5,485.89	28.64	82.64	163.33	424.78	137.53	2,770.50	2,730.56	39.95	69.355		
8,300.00	8,296.01	5,487.00	5,485.89	28.99	82.64	163.33	424.78	137.53	2,868.79	2,829.01	39.78	72.117		
8,400.00	8,395.92	5,487.00	5,485.89	29.35	82.64	163.33	424.78	137.53	2,967.18	2,927.53	39.65	74.835		
8,500.00	8,495.83	5,487.00	5,485.89	29.71	82.64	163.33	424.78	137.53	3,065.68	3,026.13	39.55	77.510		
8,600.00	8,595.75	5,487.00	5,485.89	30.06	82.64	163.33	424.78	137.53	3,164.28	3,124.80	39.48	80.140		
8,700.00	8,695.66	5,487.00	5,485.89	30.42	82.64	163.33	424.78	137.53	3,262.96	3,223.52	39.44	82.724		
8,800.00	8,795.58	5,487.00	5,485.89	30.78	82.64	163.33	424.78	137.53	3,361.72	3,322.29	39.43	85.261		
8,900.00	8,895.49	5,487.00	5,485.89	31.14	82.64	163.33	424.78	137.53	3,460.55	3,421.11	39.44	87.752		
9,000.00	8,995.40	5,487.00	5,485.89	31.50	82.64	163.33	424.78	137.53	3,559.44	3,519.98	39.46	90.195		
9,100.00	9,095.32	5,487.00	5,485.89	31.85	82.64	163.33	424.78	137.53	3,658.40	3,618.89	39.51	92.590		
9,200.00	9,195.23	5,487.00	5,485.89	32.21	82.64	163.33	424.78	137.53	3,757.41	3,717.83	39.58	94.939		
9,300.00	9,295.14	5,487.00	5,485.89	32.57	82.64	163.33	424.78	137.53	3,856.47	3,816.81	39.66	97.239		
9,400.00	9,395.06	5,487.00	5,485.89	32.93	82.64	163.33	424.78	137.53	3,955.58	3,915.82	39.76	99.493		
9,500.00	9,494.97	5,487.00	5,485.89	33.29	82.64	163.33	424.78	137.53	4,054.73	4,014.86	39.87	101.700		
9,523.61	9,518.56	5,487.00	5,485.89	33.37	82.64	163.33	424.78	137.53	4,078.15	4,038.25	39.90	102.214		
9,600.00	9,594.91	5,487.00	5,485.89	33.64	82.64	165.57	424.78	137.53	4,153.83	4,113.84	39.99	103.883		
9,682.09	9,677.00	5,487.00	5,485.89	33.93	82.64	24.89	424.78	137.53	4,234.95	4,194.89	40.07	105.694		
9,700.00	9,694.91	5,487.00	5,485.89	33.99	82.64	24.89	424.78	137.53	4,252.63	4,212.54	40.08	106.091		
9,800.00	9,794.91	5,487.00	5,485.89	34.33	82.64	24.89	424.78	137.53	4,351.35	4,311.16	40.19	108.270		
9,900.00	9,894.91	5,487.00	5,485.89	34.68	82.64	24.89	424.78	137.53	4,450.13	4,409.82	40.31	110.400		
10,000.00	9,994.91	5,487.00	5,485.89	35.02	82.64	24.89	424.78	137.53	4,548.96	4,508.52	40.44	112.480		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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		
10,032.13	10,027.04	5,487.00	5,485.89	35.13	82.64	24.89	424.78	137.53	4,580.73	4,540.24	40.49	113.138		
10,050.00	10,044.90	5,487.00	5,485.89	35.19	82.64	21.06	424.78	137.53	4,598.36	4,557.84	40.51	113.510		
10,100.00	10,094.75	5,487.00	5,485.89	35.36	82.64	14.24	424.78	137.53	4,647.15	4,606.61	40.55	114.614		
10,150.00	10,144.08	5,487.00	5,485.89	35.53	82.64	10.74	424.78	137.53	4,694.90	4,654.36	40.54	115.802		
10,200.00	10,192.52	5,487.00	5,485.89	35.68	82.64	8.65	424.78	137.53	4,741.28	4,700.78	40.50	117.060		
10,250.00	10,239.69	5,487.00	5,485.89	35.84	82.64	7.27	424.78	137.53	4,785.97	4,745.54	40.43	118.375		
10,300.00	10,285.26	5,487.00	5,485.89	35.98	82.64	6.29	424.78	137.53	4,828.70	4,788.37	40.33	119.733		
10,350.00	10,328.85	5,487.00	5,485.89	36.12	82.64	5.58	424.78	137.53	4,869.18	4,828.98	40.20	121.115		
10,400.00	10,370.15	5,487.00	5,485.89	36.25	82.64	5.04	424.78	137.53	4,907.18	4,867.12	40.06	122.503		
10,450.00	10,408.84	5,487.00	5,485.89	36.37	82.64	4.62	424.78	137.53	4,942.46	4,902.56	39.90	123.876		
10,500.00	10,444.62	5,487.00	5,485.89	36.49	82.64	4.29	424.78	137.53	4,974.81	4,935.08	39.73	125.212		
10,550.00	10,477.22	5,487.00	5,485.89	36.61	82.64	4.03	424.78	137.53	5,004.05	4,964.49	39.56	126.484		
10,600.00	10,506.40	5,487.00	5,485.89	36.73	82.64	3.82	424.78	137.53	5,030.01	4,990.61	39.40	127.668		
10,650.00	10,531.93	5,487.00	5,485.89	36.85	82.64	3.66	424.78	137.53	5,052.55	5,013.30	39.25	128.736		
10,700.00	10,553.61	5,487.00	5,485.89	36.97	82.64	3.53	424.78	137.53	5,071.54	5,032.42	39.11	129.661		
10,750.00	10,571.29	5,487.00	5,485.89	37.10	82.64	3.43	424.78	137.53	5,086.87	5,047.87	39.00	130.417		
10,800.00	10,584.83	5,487.00	5,485.89	37.22	82.64	3.36	424.78	137.53	5,098.47	5,059.54	38.93	130.982		
10,850.00	10,594.12	5,487.00	5,485.89	37.34	82.64	3.31	424.78	137.53	5,106.27	5,067.39	38.88	131.335		
10,900.00	10,599.10	5,487.00	5,485.89	37.47	82.64	3.29	424.78	137.53	5,110.22	5,071.35	38.87	131.462		
10,932.14	10,600.00	5,487.00	5,485.89	37.55	82.64	3.29	424.78	137.53	5,110.73	5,071.84	38.89	131.419		
10,978.88	10,600.00	5,487.00	5,485.89	37.67	82.64	3.29	424.78	137.53	5,110.52	5,071.57	38.95	131.217		
11,000.00	10,600.00	5,487.00	5,485.89	37.73	82.64	3.29	424.78	137.53	5,110.56	5,071.57	38.99	131.090		
11,100.00	10,600.00	5,487.00	5,485.89	38.04	82.64	3.29	424.78	137.53	5,111.95	5,072.66	39.29	130.121		
11,200.00	10,600.00	5,487.00	5,485.89	38.41	82.64	3.29	424.78	137.53	5,115.30	5,075.52	39.77	128.616		
11,300.00	10,600.00	5,487.00	5,485.89	38.83	82.64	3.29	424.78	137.53	5,120.59	5,080.16	40.43	126.641		
11,400.00	10,600.00	5,487.00	5,485.89	39.30	82.64	3.29	424.78	137.53	5,127.84	5,086.58	41.26	124.280		
11,500.00	10,600.00	5,487.00	5,485.89	39.81	82.64	3.29	424.78	137.53	5,137.02	5,094.78	42.24	121.625		
11,600.00	10,600.00	5,487.00	5,485.89	40.37	82.64	3.29	424.78	137.53	5,148.12	5,104.77	43.35	118.764		
11,700.00	10,600.00	5,487.00	5,485.89	40.98	82.64	3.29	424.78	137.53	5,161.14	5,116.56	44.58	115.781		
11,800.00	10,600.00	5,487.00	5,485.89	41.62	82.64	3.29	424.78	137.53	5,176.06	5,130.15	45.91	112.746		
11,900.00	10,600.00	5,487.00	5,485.89	42.31	82.64	3.29	424.78	137.53	5,192.86	5,145.53	47.33	109.718		
12,000.00	10,600.00	5,487.00	5,485.89	43.04	82.64	3.29	424.78	137.53	5,211.53	5,162.71	48.82	106.743		
12,100.00	10,600.00	5,487.00	5,485.89	43.80	82.64	3.29	424.78	137.53	5,232.04	5,181.66	50.38	103.854		
12,200.00	10,600.00	5,487.00	5,485.89	44.60	82.64	3.29	424.78	137.53	5,254.38	5,202.40	51.98	101.077		
12,300.00	10,600.00	5,487.00	5,485.89	45.43	82.64	3.29	424.78	137.53	5,278.52	5,224.89	53.63	98.428		
12,400.00	10,600.00	5,487.00	5,485.89	46.29	82.64	3.29	424.78	137.53	5,304.43	5,249.13	55.30	95.917		
12,500.00	10,600.00	5,487.00	5,485.89	47.17	82.64	3.29	424.78	137.53	5,332.09	5,275.09	57.00	93.549		
12,600.00	10,600.00	5,487.00	5,485.89	48.09	82.64	3.29	424.78	137.53	5,361.47	5,302.77	58.71	91.325		
12,700.00	10,600.00	5,487.00	5,485.89	49.04	82.64	3.29	424.78	137.53	5,392.55	5,332.13	60.42	89.244		
12,800.00	10,600.00	5,487.00	5,485.89	50.00	82.64	3.29	424.78	137.53	5,425.30	5,363.15	62.14	87.302		
12,900.00	10,600.00	5,487.00	5,485.89	50.99	82.64	3.29	424.78	137.53	5,459.68	5,395.82	63.86	85.495		
13,000.00	10,600.00	5,487.00	5,485.89	52.01	82.64	3.29	424.78	137.53	5,495.66	5,430.09	65.57	83.816		
13,100.00	10,600.00	5,487.00	5,485.89	53.04	82.64	3.29	424.78	137.53	5,533.22	5,465.96	67.26	82.261		
13,200.00	10,600.00	5,487.00	5,485.89	54.09	82.64	3.29	424.78	137.53	5,572.32	5,503.37	68.95	80.821		
13,300.00	10,600.00	5,487.00	5,485.89	55.16	82.64	3.29	424.78	137.53	5,612.93	5,542.32	70.61	79.492		
13,400.00	10,600.00	5,487.00	5,485.89	56.25	82.64	3.29	424.78	137.53	5,655.01	5,582.76	72.25	78.267		
13,500.00	10,600.00	5,487.00	5,485.89	57.36	82.64	3.29	424.78	137.53	5,698.55	5,624.67	73.87	77.140		
13,600.00	10,600.00	5,487.00	5,485.89	58.48	82.64	3.29	424.78	137.53	5,743.49	5,668.02	75.47	76.104		
13,700.00	10,600.00	5,487.00	5,485.89	59.61	82.64	3.29	424.78	137.53	5,789.81	5,712.77	77.04	75.154		
13,800.00	10,600.00	5,487.00	5,485.89	60.76	82.64	3.29	424.78	137.53	5,837.47	5,758.89	78.58	74.286		
13,900.00	10,600.00	5,487.00	5,485.89	61.92	82.64	3.29	424.78	137.53	5,886.45	5,806.36	80.10	73.493		
14,000.00	10,600.00	5,487.00	5,485.89	63.10	82.64	3.29	424.78	137.53	5,936.71	5,855.13	81.58	72.772		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - State 35 1 (P&A'd) - 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	
14,100.00	10,600.00	5,487.00	5,485.89	64.28	82.64	3.29	424.78	137.53	5,988.22	5,905.18	83.03	72.117	
14,200.00	10,600.00	5,487.00	5,485.89	65.48	82.64	3.29	424.78	137.53	6,040.94	5,956.48	84.46	71.525	
14,300.00	10,600.00	5,487.00	5,485.89	66.68	82.64	3.29	424.78	137.53	6,094.85	6,009.00	85.85	70.992	
14,400.00	10,600.00	5,487.00	5,485.89	67.90	82.64	3.29	424.78	137.53	6,149.91	6,062.70	87.22	70.514	
14,500.00	10,600.00	5,487.00	5,485.89	69.13	82.64	3.29	424.78	137.53	6,206.10	6,117.55	88.55	70.088	
14,600.00	10,600.00	5,487.00	5,485.89	70.36	82.64	3.29	424.78	137.53	6,263.38	6,173.53	89.85	69.710	
14,700.00	10,600.00	5,487.00	5,485.89	71.60	82.64	3.29	424.78	137.53	6,321.72	6,230.60	91.12	69.379	
14,800.00	10,600.00	5,487.00	5,485.89	72.85	82.64	3.29	424.78	137.53	6,381.09	6,288.73	92.36	69.091	
14,900.00	10,600.00	5,487.00	5,485.89	74.11	82.64	3.29	424.78	137.53	6,441.47	6,347.90	93.57	68.843	
15,000.00	10,600.00	5,487.00	5,485.89	75.38	82.64	3.29	424.78	137.53	6,502.83	6,408.08	94.75	68.634	
15,100.00	10,600.00	5,487.00	5,485.89	76.65	82.64	3.29	424.78	137.53	6,565.14	6,469.24	95.90	68.461	
15,200.00	10,600.00	5,487.00	5,485.89	77.93	82.64	3.29	424.78	137.53	6,628.37	6,531.35	97.02	68.321	
15,300.00	10,600.00	5,487.00	5,485.89	79.21	82.64	3.29	424.78	137.53	6,692.49	6,594.38	98.11	68.215	
15,400.00	10,600.00	5,487.00	5,485.89	80.50	82.64	3.29	424.78	137.53	6,757.49	6,658.32	99.17	68.138	
15,500.00	10,600.00	5,487.00	5,485.89	81.80	82.64	3.29	424.78	137.53	6,823.33	6,723.12	100.21	68.090	
15,575.11	10,600.00	5,487.00	5,485.89	82.77	82.64	3.29	424.78	137.53	6,873.33	6,772.36	100.97	68.073	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	52.86	3,086.54	4,075.61	5,112.55					
100.00	100.00	71.20	71.20	0.52	1.04	52.86	3,086.54	4,075.61	5,112.47	5,110.91	1.56	3,273.568		
200.00	200.00	171.20	171.20	0.70	2.47	52.86	3,086.54	4,075.61	5,112.47	5,109.30	3.17	1,614.141		
300.00	300.00	271.20	271.20	0.99	3.94	52.86	3,086.54	4,075.61	5,112.47	5,107.54	4.93	1,036.883		
400.00	400.00	371.20	371.20	1.31	5.43	52.86	3,086.54	4,075.61	5,112.47	5,105.73	6.74	758.403		
500.00	500.00	471.20	471.20	1.65	6.92	52.86	3,086.54	4,075.61	5,112.47	5,103.90	8.57	596.512		
600.00	600.00	571.20	571.20	1.99	8.42	52.86	3,086.54	4,075.61	5,112.47	5,102.06	10.41	491.140		
700.00	700.00	671.20	671.20	2.34	9.91	52.86	3,086.54	4,075.61	5,112.47	5,100.22	12.25	417.230		
800.00	800.00	771.20	771.20	2.69	11.41	52.86	3,086.54	4,075.61	5,112.47	5,098.37	14.10	362.574		
900.00	900.00	871.20	871.20	3.04	12.91	52.86	3,086.54	4,075.61	5,112.47	5,096.52	15.95	320.538		
1,000.00	1,000.00	971.20	971.20	3.40	14.40	52.86	3,086.54	4,075.61	5,112.47	5,094.67	17.80	287.213		
1,100.00	1,100.00	1,071.20	1,071.20	3.75	15.90	52.86	3,086.54	4,075.61	5,112.47	5,092.82	19.65	260.152		
1,200.00	1,200.00	1,171.20	1,171.20	4.11	17.40	52.86	3,086.54	4,075.61	5,112.47	5,090.97	21.50	237.743		
1,300.00	1,300.00	1,271.20	1,271.20	4.46	18.89	52.86	3,086.54	4,075.61	5,112.47	5,089.11	23.36	218.882		
1,400.00	1,400.00	1,371.20	1,371.20	4.82	20.39	52.86	3,086.54	4,075.61	5,112.47	5,087.26	25.21	202.791		
1,500.00	1,500.00	1,471.20	1,471.20	5.18	21.89	52.86	3,086.54	4,075.61	5,112.47	5,085.41	27.06	188.901		
1,600.00	1,600.00	1,571.20	1,571.20	5.53	23.38	52.86	3,086.54	4,075.61	5,112.47	5,083.55	28.92	176.790		
1,700.00	1,700.00	1,671.20	1,671.20	5.89	24.88	52.86	3,086.54	4,075.61	5,112.47	5,081.70	30.77	166.137		
1,800.00	1,800.00	1,771.20	1,771.20	6.25	26.38	52.86	3,086.54	4,075.61	5,112.47	5,079.84	32.63	156.694		
1,900.00	1,900.00	1,871.20	1,871.20	6.61	27.88	52.86	3,086.54	4,075.61	5,112.47	5,077.99	34.48	148.266		
2,000.00	2,000.00	1,971.20	1,971.20	6.96	29.37	52.86	3,086.54	4,075.61	5,112.47	5,076.13	36.34	140.698		
2,100.00	2,100.00	2,071.20	2,071.20	7.32	30.87	52.86	3,086.54	4,075.61	5,112.47	5,074.28	38.19	133.865		
2,200.00	2,200.00	2,171.20	2,171.20	7.68	32.37	52.86	3,086.54	4,075.61	5,112.47	5,072.42	40.05	127.664		
2,300.00	2,300.00	2,271.20	2,271.20	8.04	33.87	52.86	3,086.54	4,075.61	5,112.47	5,070.57	41.90	122.012		
2,400.00	2,400.00	2,371.20	2,371.20	8.39	35.36	52.86	3,086.54	4,075.61	5,112.47	5,068.71	43.76	116.839		
2,500.00	2,500.00	2,471.20	2,471.20	8.75	36.86	52.86	3,086.54	4,075.61	5,112.47	5,066.86	45.61	112.087		
2,600.00	2,600.00	2,571.20	2,571.20	9.11	38.36	52.86	3,086.54	4,075.61	5,112.47	5,065.00	47.47	107.706		
2,700.00	2,700.00	2,671.20	2,671.20	9.47	39.86	52.86	3,086.54	4,075.61	5,112.47	5,063.15	49.32	103.654		
2,800.00	2,800.00	2,771.20	2,771.20	9.83	41.35	52.86	3,086.54	4,075.61	5,112.47	5,061.29	51.18	99.896		
2,900.00	2,900.00	2,871.20	2,871.20	10.18	42.85	52.86	3,086.54	4,075.61	5,112.47	5,059.44	53.03	96.401		
3,000.00	3,000.00	2,971.20	2,971.20	10.54	44.35	52.86	3,086.54	4,075.61	5,112.47	5,057.58	54.89	93.143		
3,100.00	3,100.00	3,071.20	3,071.20	10.90	45.84	52.86	3,086.54	4,075.61	5,112.47	5,055.73	56.74	90.097		
3,200.00	3,200.00	3,171.20	3,171.20	11.26	47.34	52.86	3,086.54	4,075.61	5,112.47	5,053.87	58.60	87.244		
3,300.00	3,300.00	3,271.20	3,271.20	11.62	48.84	52.86	3,086.54	4,075.61	5,112.47	5,052.02	60.46	84.566		
3,400.00	3,400.00	3,371.20	3,371.20	11.97	50.34	52.86	3,086.54	4,075.61	5,112.47	5,050.16	62.31	82.048		
3,500.00	3,500.00	3,471.20	3,471.20	12.33	51.83	52.86	3,086.54	4,075.61	5,112.47	5,048.30	64.17	79.675		
3,600.00	3,600.00	3,571.20	3,571.20	12.67	53.33	-164.61	3,086.54	4,075.61	5,113.31	5,047.31	66.01	77.468		
3,700.00	3,699.96	3,671.16	3,671.16	13.00	54.83	-164.61	3,086.54	4,075.61	5,115.84	5,048.01	67.83	75.423		
3,737.73	3,737.66	3,708.86	3,708.86	13.13	55.39	-164.61	3,086.54	4,075.61	5,117.23	5,048.71	68.52	74.686		
3,800.00	3,799.88	3,771.08	3,771.08	13.33	56.33	-164.62	3,086.54	4,075.61	5,119.72	5,050.06	69.65	73.504		
3,900.00	3,899.79	3,870.99	3,870.99	13.66	57.82	-164.63	3,086.54	4,075.61	5,123.72	5,052.24	71.48	71.682		
4,000.00	3,999.71	3,970.91	3,970.91	13.99	59.32	-164.64	3,086.54	4,075.61	5,127.72	5,054.41	73.30	69.951		
4,100.00	4,099.62	4,070.82	4,070.82	14.32	60.81	-164.65	3,086.54	4,075.61	5,131.72	5,056.58	75.13	68.302		
4,200.00	4,199.53	4,170.73	4,170.73	14.66	62.31	-164.67	3,086.54	4,075.61	5,135.72	5,058.75	76.96	66.730		
4,300.00	4,299.45	4,270.65	4,270.65	15.00	63.81	-164.68	3,086.54	4,075.61	5,139.72	5,060.92	78.79	65.230		
4,400.00	4,399.36	4,370.56	4,370.56	15.33	65.30	-164.69	3,086.54	4,075.61	5,143.72	5,063.09	80.63	63.798		
4,500.00	4,499.28	4,470.48	4,470.48	15.67	66.80	-164.70	3,086.54	4,075.61	5,147.72	5,065.26	82.46	62.428		
4,600.00	4,599.19	4,570.39	4,570.39	16.01	68.29	-164.72	3,086.54	4,075.61	5,151.72	5,067.43	84.29	61.117		
4,700.00	4,699.10	4,670.30	4,670.30	16.35	69.79	-164.73	3,086.54	4,075.61	5,155.72	5,069.59	86.13	59.861		
4,800.00	4,799.02	4,770.22	4,770.22	16.69	71.29	-164.74	3,086.54	4,075.61	5,159.72	5,071.76	87.96	58.658		
4,900.00	4,898.93	4,870.13	4,870.13	17.04	72.78	-164.75	3,086.54	4,075.61	5,163.73	5,073.92	89.80	57.502		
5,000.00	4,998.85	4,970.05	4,970.05	17.38	74.28	-164.76	3,086.54	4,075.61	5,167.73	5,076.09	91.64	56.393		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	5,098.76	5,069.96	5,069.96	17.72	75.78	-164.78	3,086.54	4,075.61	5,171.73	5,078.25	93.48	55.327		
5,200.00	5,198.67	5,169.87	5,169.87	18.07	77.27	-164.79	3,086.54	4,075.61	5,175.73	5,080.42	95.31	54.301		
5,300.00	5,298.59	5,269.79	5,269.79	18.41	78.77	-164.80	3,086.54	4,075.61	5,179.74	5,082.58	97.15	53.314		
5,400.00	5,398.50	5,369.70	5,369.70	18.76	80.26	-164.81	3,086.54	4,075.61	5,183.74	5,084.74	98.99	52.364		
5,500.00	5,498.42	5,469.62	5,469.62	19.11	81.76	-164.82	3,086.54	4,075.61	5,187.74	5,086.91	100.84	51.448		
5,600.00	5,598.33	5,569.53	5,569.53	19.45	83.26	-164.84	3,086.54	4,075.61	5,191.75	5,089.07	102.68	50.564		
5,700.00	5,698.24	5,669.44	5,669.44	19.80	84.75	-164.85	3,086.54	4,075.61	5,195.75	5,091.23	104.52	49.711		
5,800.00	5,798.16	5,769.36	5,769.36	20.15	86.25	-164.86	3,086.54	4,075.61	5,199.75	5,093.39	106.36	48.888		
5,900.00	5,898.07	5,869.27	5,869.27	20.50	87.75	-164.87	3,086.54	4,075.61	5,203.76	5,095.55	108.20	48.092		
6,000.00	5,997.98	5,969.18	5,969.18	20.85	89.24	-164.88	3,086.54	4,075.61	5,207.76	5,097.72	110.05	47.323		
6,100.00	6,097.90	6,069.10	6,069.10	21.20	90.74	-164.90	3,086.54	4,075.61	5,211.77	5,099.88	111.89	46.579		
6,200.00	6,197.81	6,169.01	6,169.01	21.55	92.23	-164.91	3,086.54	4,075.61	5,215.77	5,102.04	113.74	45.859		
6,300.00	6,297.73	6,268.93	6,268.93	21.90	93.73	-164.92	3,086.54	4,075.61	5,219.78	5,104.20	115.58	45.162		
6,400.00	6,397.64	6,368.84	6,368.84	22.25	95.23	-164.93	3,086.54	4,075.61	5,223.78	5,106.36	117.42	44.486		
6,500.00	6,497.55	6,468.75	6,468.75	22.61	96.72	-164.94	3,086.54	4,075.61	5,227.79	5,108.52	119.27	43.832		
6,600.00	6,597.47	6,568.67	6,568.67	22.96	98.22	-164.95	3,086.54	4,075.61	5,231.79	5,110.68	121.12	43.197		
6,700.00	6,697.38	6,668.58	6,668.58	23.31	99.72	-164.97	3,086.54	4,075.61	5,235.80	5,112.84	122.96	42.581		
6,800.00	6,797.30	6,768.50	6,768.50	23.66	101.21	-164.98	3,086.54	4,075.61	5,239.81	5,115.00	124.81	41.983		
6,900.00	6,897.21	6,868.41	6,868.41	24.02	102.71	-164.99	3,086.54	4,075.61	5,243.81	5,117.16	126.65	41.403		
7,000.00	6,997.12	6,968.32	6,968.32	24.37	104.20	-165.00	3,086.54	4,075.61	5,247.82	5,119.32	128.50	40.839		
7,100.00	7,097.04	7,068.24	7,068.24	24.73	105.70	-165.01	3,086.54	4,075.61	5,251.83	5,121.48	130.35	40.291		
7,200.00	7,196.95	7,168.15	7,168.15	25.08	107.20	-165.02	3,086.54	4,075.61	5,255.83	5,123.64	132.20	39.758		
7,300.00	7,296.87	7,268.07	7,268.07	25.43	108.69	-165.04	3,086.54	4,075.61	5,259.84	5,125.80	134.04	39.240		
7,400.00	7,396.78	7,367.98	7,367.98	25.79	110.19	-165.05	3,086.54	4,075.61	5,263.85	5,127.96	135.89	38.736		
7,500.00	7,496.69	7,467.89	7,467.89	26.14	111.68	-165.06	3,086.54	4,075.61	5,267.86	5,130.12	137.74	38.245		
7,600.00	7,596.61	7,567.81	7,567.81	26.50	113.18	-165.07	3,086.54	4,075.61	5,271.87	5,132.28	139.59	37.767		
7,700.00	7,696.52	7,667.72	7,667.72	26.86	114.68	-165.08	3,086.54	4,075.61	5,275.87	5,134.44	141.44	37.302		
7,800.00	7,796.44	7,767.64	7,767.64	27.21	116.17	-165.09	3,086.54	4,075.61	5,279.88	5,136.60	143.28	36.849		
7,900.00	7,896.35	7,867.55	7,867.55	27.57	117.67	-165.11	3,086.54	4,075.61	5,283.89	5,138.76	145.13	36.407		
8,000.00	7,996.26	7,967.46	7,967.46	27.92	119.17	-165.12	3,086.54	4,075.61	5,287.90	5,140.92	146.98	35.976		
8,100.00	8,096.18	8,067.38	8,067.38	28.28	120.66	-165.13	3,086.54	4,075.61	5,291.91	5,143.08	148.83	35.556		
8,200.00	8,196.09	8,167.29	8,167.29	28.64	122.16	-165.14	3,086.54	4,075.61	5,295.92	5,145.24	150.68	35.146		
8,300.00	8,296.01	8,267.21	8,267.21	28.99	123.65	-165.15	3,086.54	4,075.61	5,299.93	5,147.40	152.53	34.747		
8,400.00	8,395.92	8,367.12	8,367.12	29.35	125.15	-165.16	3,086.54	4,075.61	5,303.94	5,149.56	154.38	34.356		
8,500.00	8,495.83	8,467.03	8,467.03	29.71	126.65	-165.18	3,086.54	4,075.61	5,307.95	5,151.72	156.23	33.975		
8,600.00	8,595.75	8,566.95	8,566.95	30.06	128.14	-165.19	3,086.54	4,075.61	5,311.96	5,153.88	158.08	33.603		
8,700.00	8,695.66	8,666.86	8,666.86	30.42	129.64	-165.20	3,086.54	4,075.61	5,315.97	5,156.04	159.93	33.239		
8,800.00	8,795.58	8,766.78	8,766.78	30.78	131.14	-165.21	3,086.54	4,075.61	5,319.98	5,158.20	161.78	32.884		
8,900.00	8,895.49	8,866.69	8,866.69	31.14	132.63	-165.22	3,086.54	4,075.61	5,323.99	5,160.36	163.63	32.536		
9,000.00	8,995.40	8,966.60	8,966.60	31.50	134.13	-165.23	3,086.54	4,075.61	5,328.00	5,162.52	165.48	32.197		
9,100.00	9,095.32	9,066.52	9,066.52	31.85	135.62	-165.24	3,086.54	4,075.61	5,332.01	5,164.68	167.33	31.865		
9,200.00	9,195.23	9,166.43	9,166.43	32.21	137.12	-165.26	3,086.54	4,075.61	5,336.02	5,166.84	169.18	31.540		
9,300.00	9,295.14	9,266.34	9,266.34	32.57	138.62	-165.27	3,086.54	4,075.61	5,340.04	5,169.00	171.03	31.222		
9,400.00	9,395.06	9,366.26	9,366.26	32.93	140.11	-165.28	3,086.54	4,075.61	5,344.05	5,171.16	172.89	30.911		
9,500.00	9,494.97	9,466.17	9,466.17	33.29	141.61	-165.29	3,086.54	4,075.61	5,348.06	5,173.32	174.74	30.606		
9,523.61	9,518.56	10,508.21	9,489.76	33.37	167.40	-165.29	3,086.54	4,075.61	5,349.01	5,148.40	200.61	26.664		
9,600.00	9,594.91	10,431.86	9,566.11	33.64	164.72	-165.31	3,086.54	4,075.61	5,351.33	5,153.13	198.21	26.999		
9,682.09	9,677.00	10,349.77	9,648.20	33.93	161.85	52.16	3,086.54	4,075.61	5,352.19	5,156.57	195.62	27.360		
9,700.00	9,694.91	10,331.86	9,666.11	33.99	161.22	52.16	3,086.54	4,075.61	5,352.19	5,157.13	195.05	27.440		
9,800.00	9,794.91	10,231.86	9,766.11	34.33	157.72	52.16	3,086.54	4,075.61	5,352.19	5,160.29	191.90	27.891		
9,900.00	9,894.91	10,131.86	9,666.11	34.68	154.22	52.16	3,086.54	4,075.61	5,352.19	5,163.45	188.74	28.358		
10,000.00	9,994.91	10,031.86	9,966.11	35.02	150.72	52.16	3,086.54	4,075.61	5,352.19	5,166.60	185.58	28.840		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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		
10,032.13	10,027.04	10,000.27	9,998.24	35.13	149.61	52.16	3,086.54	4,075.61	5,352.19	5,167.60	184.59	28.995		
10,050.00	10,044.90	10,018.13	10,016.10	35.19	150.24	52.58	3,086.54	4,075.61	5,352.02	5,166.74	185.27	28.887		
10,100.00	10,094.75	10,067.98	10,065.95	35.36	151.98	52.79	3,086.54	4,075.61	5,349.75	5,162.56	187.19	28.579		
10,150.00	10,144.08	10,117.31	10,115.28	35.53	153.71	53.26	3,086.54	4,075.61	5,344.85	5,155.77	189.08	28.267		
10,200.00	10,192.52	10,165.74	10,163.72	35.68	155.41	53.97	3,086.54	4,075.61	5,337.38	5,146.44	190.94	27.953		
10,250.00	10,239.69	10,212.92	10,210.89	35.84	157.06	54.94	3,086.54	4,075.61	5,327.41	5,134.66	192.75	27.639		
10,300.00	10,285.26	10,258.48	10,256.46	35.98	158.65	56.16	3,086.54	4,075.61	5,315.04	5,120.55	194.49	27.328		
10,350.00	10,328.85	10,302.08	10,300.05	36.12	160.18	57.65	3,086.54	4,075.61	5,300.39	5,104.23	196.16	27.021		
10,400.00	10,370.15	10,343.38	10,341.35	36.25	161.62	59.39	3,086.54	4,075.61	5,283.61	5,085.87	197.74	26.720		
10,450.00	10,408.84	10,382.06	10,380.04	36.37	162.98	61.40	3,086.54	4,075.61	5,264.87	5,065.65	199.22	26.427		
10,500.00	10,444.62	10,417.85	10,415.82	36.49	164.23	63.66	3,086.54	4,075.61	5,244.35	5,043.75	200.60	26.144		
10,550.00	10,477.22	10,450.45	10,448.42	36.61	165.37	66.17	3,086.54	4,075.61	5,222.24	5,020.38	201.85	25.871		
10,600.00	10,506.40	10,479.63	10,477.60	36.73	166.39	68.90	3,086.54	4,075.61	5,198.76	4,995.77	202.99	25.611		
10,650.00	10,531.93	10,505.16	10,503.13	36.85	167.29	71.83	3,086.54	4,075.61	5,174.13	4,970.14	203.99	25.365		
10,700.00	10,553.61	10,526.84	10,524.81	36.97	168.05	74.92	3,086.54	4,075.61	5,148.57	4,943.72	204.86	25.133		
10,750.00	10,571.29	10,544.52	10,542.49	37.10	168.67	78.12	3,086.54	4,075.61	5,122.33	4,916.75	205.58	24.917		
10,800.00	10,584.83	10,558.06	10,556.03	37.22	169.14	81.40	3,086.54	4,075.61	5,095.63	4,889.47	206.16	24.717		
10,850.00	10,594.12	10,567.35	10,565.32	37.34	169.47	84.70	3,086.54	4,075.61	5,068.69	4,862.11	206.59	24.535		
10,900.00	10,599.10	10,572.33	10,570.30	37.47	169.64	87.95	3,086.54	4,075.61	5,041.76	4,834.90	206.87	24.372		
10,932.14	10,600.00	10,573.23	10,571.20	37.55	169.67	90.00	3,086.54	4,075.61	5,024.56	4,817.59	206.97	24.277		
11,000.00	10,600.00	10,573.23	10,571.20	37.73	169.67	90.00	3,086.54	4,075.61	4,988.69	4,781.56	207.12	24.086		
11,100.00	10,600.00	10,573.23	10,571.20	38.04	169.67	90.00	3,086.54	4,075.61	4,937.05	4,729.66	207.39	23.806		
11,200.00	10,600.00	10,573.23	10,571.20	38.41	169.67	90.00	3,086.54	4,075.61	4,886.92	4,679.21	207.71	23.528		
11,300.00	10,600.00	10,573.23	10,571.20	38.83	169.67	90.00	3,086.54	4,075.61	4,838.34	4,630.26	208.07	23.253		
11,400.00	10,600.00	10,573.23	10,571.20	39.30	169.67	90.00	3,086.54	4,075.61	4,791.35	4,582.85	208.49	22.981		
11,500.00	10,600.00	10,573.23	10,571.20	39.81	169.67	90.00	3,086.54	4,075.61	4,746.00	4,537.04	208.96	22.712		
11,600.00	10,600.00	10,573.23	10,571.20	40.37	169.67	90.00	3,086.54	4,075.61	4,702.34	4,492.86	209.49	22.447		
11,700.00	10,600.00	10,573.23	10,571.20	40.98	169.67	90.00	3,086.54	4,075.61	4,660.42	4,450.36	210.06	22.186		
11,800.00	10,600.00	10,573.23	10,571.20	41.62	169.67	90.00	3,086.54	4,075.61	4,620.28	4,409.60	210.68	21.930		
11,900.00	10,600.00	10,573.23	10,571.20	42.31	169.67	90.00	3,086.54	4,075.61	4,581.98	4,370.62	211.36	21.679		
12,000.00	10,600.00	10,573.23	10,571.20	43.04	169.67	90.00	3,086.54	4,075.61	4,545.55	4,333.47	212.08	21.433		
12,100.00	10,600.00	10,573.23	10,571.20	43.80	169.67	90.00	3,086.54	4,075.61	4,511.05	4,298.19	212.85	21.193		
12,200.00	10,600.00	10,573.23	10,571.20	44.60	169.67	90.00	3,086.54	4,075.61	4,478.51	4,264.84	213.67	20.960		
12,300.00	10,600.00	10,573.23	10,571.20	45.43	169.67	90.00	3,086.54	4,075.61	4,447.98	4,233.46	214.53	20.734		
12,400.00	10,600.00	10,573.23	10,571.20	46.29	169.67	90.00	3,086.54	4,075.61	4,419.51	4,204.08	215.43	20.515		
12,500.00	10,600.00	10,573.23	10,571.20	47.17	169.67	90.00	3,086.54	4,075.61	4,393.13	4,176.77	216.36	20.305		
12,600.00	10,600.00	10,573.23	10,571.20	48.09	169.67	90.00	3,086.54	4,075.61	4,368.88	4,151.54	217.33	20.102		
12,700.00	10,600.00	10,573.23	10,571.20	49.04	169.67	90.00	3,086.54	4,075.61	4,346.79	4,128.46	218.33	19.909		
12,800.00	10,600.00	10,573.23	10,571.20	50.00	169.67	90.00	3,086.54	4,075.61	4,326.90	4,107.54	219.36	19.725		
12,900.00	10,600.00	10,573.23	10,571.20	50.99	169.67	90.00	3,086.54	4,075.61	4,309.25	4,088.83	220.41	19.551		
13,000.00	10,600.00	10,573.23	10,571.20	52.01	169.67	90.00	3,086.54	4,075.61	4,293.85	4,072.36	221.49	19.387		
13,100.00	10,600.00	10,573.23	10,571.20	53.04	169.67	90.00	3,086.54	4,075.61	4,280.73	4,058.15	222.58	19.233		
13,200.00	10,600.00	10,573.23	10,571.20	54.09	169.67	90.00	3,086.54	4,075.61	4,269.91	4,046.23	223.68	19.090		
13,300.00	10,600.00	10,573.23	10,571.20	55.16	169.67	90.00	3,086.54	4,075.61	4,261.41	4,036.62	224.79	18.957		
13,400.00	10,600.00	10,573.23	10,571.20	56.25	169.67	90.00	3,086.54	4,075.61	4,255.25	4,029.34	225.91	18.836		
13,500.00	10,600.00	10,573.23	10,571.20	57.36	169.67	90.00	3,086.54	4,075.61	4,251.43	4,024.40	227.02	18.727		
13,600.00	10,600.00	10,573.23	10,571.20	58.48	169.67	90.00	3,086.54	4,075.61	4,249.96	4,021.82	228.14	18.629		
13,612.47	10,600.00	10,573.23	10,571.20	58.62	169.67	90.00	3,086.54	4,075.61	4,249.94	4,021.66	228.28	18.617 CC		
13,700.00	10,600.00	10,573.23	10,571.20	59.61	169.67	90.00	3,086.54	4,075.61	4,250.84	4,021.59	229.25	18.542 ES		
13,800.00	10,600.00	10,573.23	10,571.20	60.76	169.67	90.00	3,086.54	4,075.61	4,254.08	4,023.72	230.36	18.467		
13,900.00	10,600.00	10,573.23	10,571.20	61.92	169.67	90.00	3,086.54	4,075.61	4,259.66	4,028.21	231.45	18.404		
14,000.00	10,600.00	10,573.23	10,571.20	63.10	169.67	90.00	3,086.54	4,075.61	4,267.57	4,035.05	232.52	18.353		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Tophat AJQ 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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	10,600.00	10,573.23	10,571.20	64.28	169.67	90.00	3,086.54	4,075.61	4,277.81	4,044.23	233.59	18.314	
14,200.00	10,600.00	10,573.23	10,571.20	65.48	169.67	90.00	3,086.54	4,075.61	4,290.36	4,055.73	234.63	18.286	
14,300.00	10,600.00	10,573.23	10,571.20	66.68	169.67	90.00	3,086.54	4,075.61	4,305.19	4,069.55	235.65	18.270	
14,400.00	10,600.00	10,573.23	10,571.20	67.90	169.67	90.00	3,086.54	4,075.61	4,322.29	4,085.65	236.64	18.265 SF	
14,500.00	10,600.00	10,573.23	10,571.20	69.13	169.67	90.00	3,086.54	4,075.61	4,341.62	4,104.01	237.61	18.272	
14,600.00	10,600.00	10,573.23	10,571.20	70.36	169.67	90.00	3,086.54	4,075.61	4,363.17	4,124.61	238.55	18.290	
14,700.00	10,600.00	10,573.23	10,571.20	71.60	169.67	90.00	3,086.54	4,075.61	4,386.88	4,147.41	239.47	18.319	
14,800.00	10,600.00	10,573.23	10,571.20	72.85	169.67	90.00	3,086.54	4,075.61	4,412.73	4,172.38	240.35	18.359	
14,900.00	10,600.00	10,573.23	10,571.20	74.11	169.67	90.00	3,086.54	4,075.61	4,440.69	4,199.48	241.21	18.410	
15,000.00	10,600.00	10,573.23	10,571.20	75.38	169.67	90.00	3,086.54	4,075.61	4,470.71	4,228.68	242.03	18.472	
15,100.00	10,600.00	10,573.23	10,571.20	76.65	169.67	90.00	3,086.54	4,075.61	4,502.75	4,259.93	242.82	18.543	
15,200.00	10,600.00	10,573.23	10,571.20	77.93	169.67	90.00	3,086.54	4,075.61	4,536.77	4,293.18	243.58	18.625	
15,300.00	10,600.00	10,573.23	10,571.20	79.21	169.67	90.00	3,086.54	4,075.61	4,572.72	4,328.41	244.31	18.717	
15,400.00	10,600.00	10,573.23	10,571.20	80.50	169.67	90.00	3,086.54	4,075.61	4,610.56	4,365.55	245.01	18.818	
15,500.00	10,600.00	10,573.23	10,571.20	81.80	169.67	90.00	3,086.54	4,075.61	4,650.24	4,404.57	245.67	18.928	
15,575.11	10,600.00	10,573.23	10,571.20	82.77	169.67	90.00	3,086.54	4,075.61	4,681.23	4,435.08	246.15	19.017	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3682.80ft

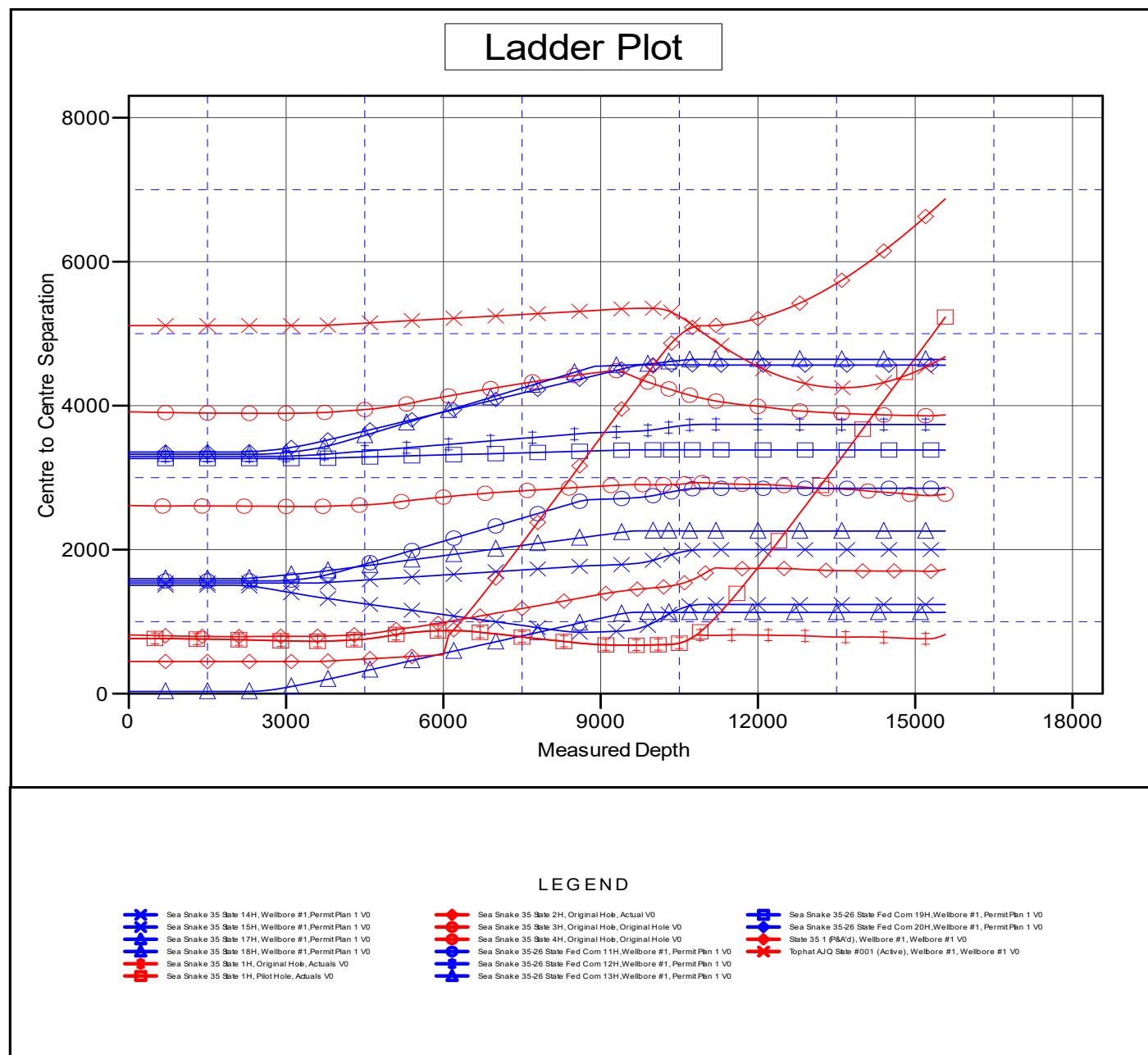
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 16H

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

Grid Convergence at Surface is: 0.42°



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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3682.80ft

Offset Depths are relative to Offset Datum

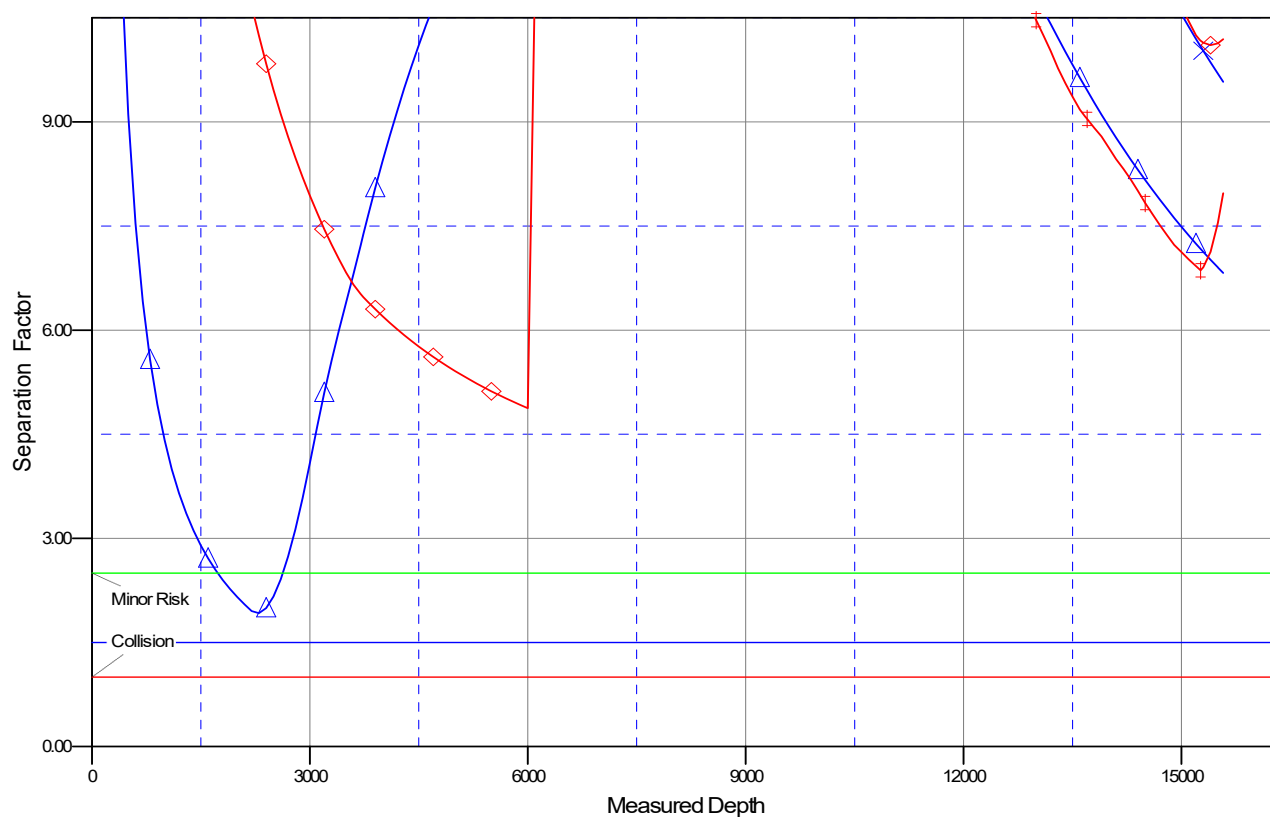
Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 16H

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

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

Sea Snake 35 State 14H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 2H, Original Hole, Actual V0	Sea Snake 35-26 State Fed Com 19H, Wellbore #1, Permit Plan 1 V0
Sea Snake 35 State 15H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 3H, Original Hole, Original Hole V0	Sea Snake 35-26 State Fed Com 20H, Wellbore #1, Permit Plan 1 V0
Sea Snake 35 State 17H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 4H, Original Hole, Original Hole V0	State 35-1 (P&A'd), Wellbore #1, Wellbore #1 V0
Sea Snake 35 State 18H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 11H, Wellbore #1, Permit Plan 1 V0	Tophat A/Q State #001 (Active), Wellbore #1, Wellbore #1 V0
Sea Snake 35 State 1H, Original Hole, Actual V0	Sea Snake 35-26 State Fed Com 12H, Wellbore #1, Permit Plan 1 V0	
Sea Snake 35 State 1H, Pilot Hole, Actual V0	Sea Snake 35-26 State Fed Com 13H, Wellbore #1, Permit Plan 1 V0	

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



**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

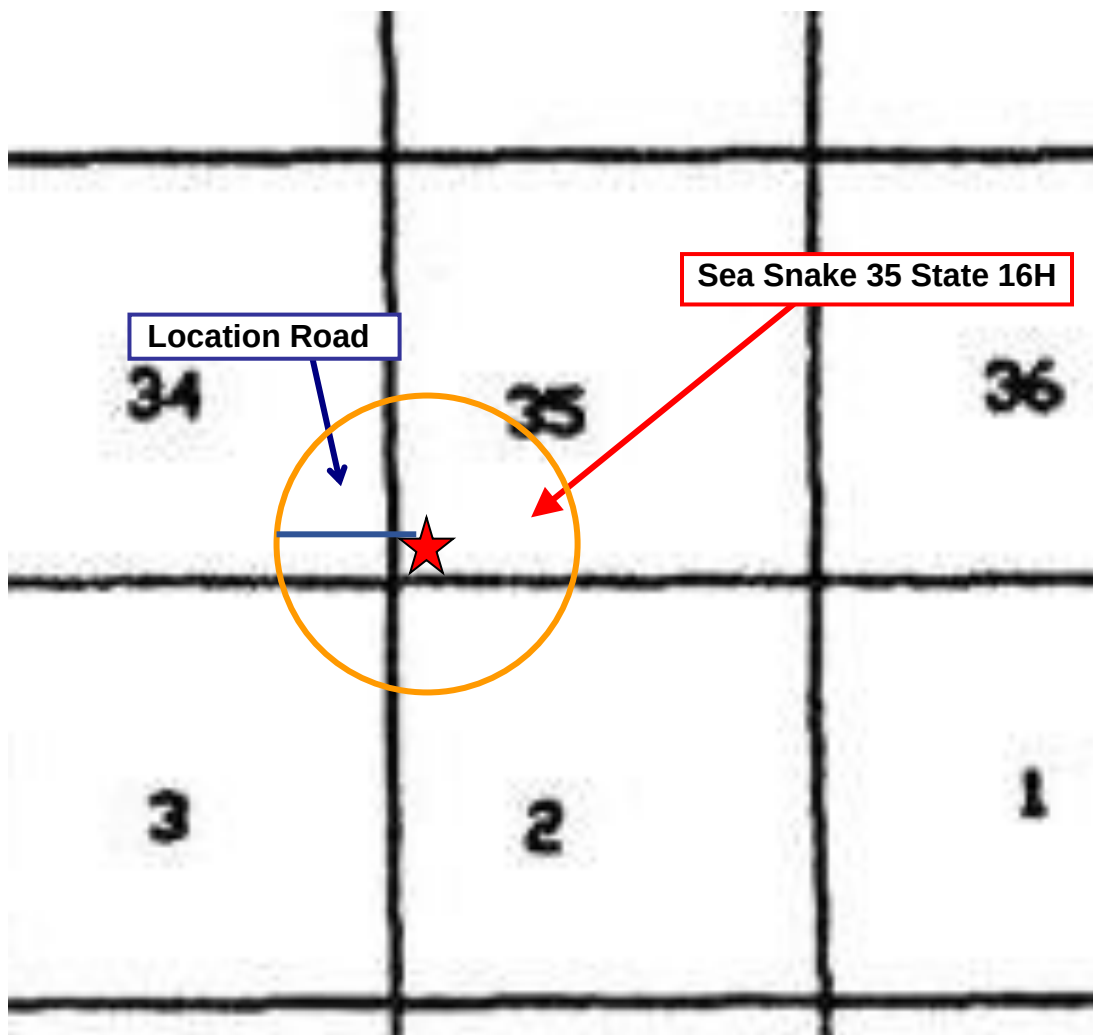
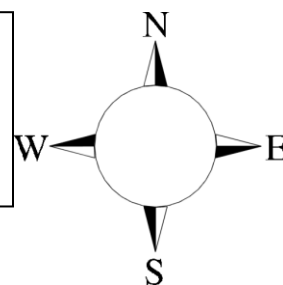
Sea Snake 35 State 16H

**Sec-35 T-23S R-33E
247' FSL & 531' FWL
LAT. = 32.254557' N (NAD83)
LONG = 103.549947' W**

Lea County NM

Sea Snake 35 State 16H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm **ROE = 3000'** (**Radius of Exposure**)
100 ppm H₂S 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 H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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 H₂S, 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 (SO₂). 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 H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 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 (H₂S) 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 (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S 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 H₂S 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 H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S 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 H₂S.

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. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S 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 H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S 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 H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

<u>Devon Energy Corp. Company Call List</u>		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	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
	Emergency Services	
	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
<u>Give GPS position:</u>	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
	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 - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small





Sea Snake 35 State 16H

1. Geologic Formations

TVD of target	10600	Pilot hole depth	N/A
MD at TD:	15575	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1333		
Salt	1869		
Base of Salt	5033		
Delaware	5283		
Bone Spring 1st	10099		
Bone Spring 2nd	10812		
Bone Spring 3rd	11712		
Wolfcamp	12162		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Sea Snake 35 State 16H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
	From	To							
17 1/2	0	1358 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	5258 TVD	9 5/8	40.0	J-55	BTC	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

Casing Program (Alternative Design)

Hole Size	Casing Interval		Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
	From	To							
17 1/2	0	1358 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	8,300' TVD	9 5/8	40.0	J-55	BTC	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

Sea Snake 35 State 16H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Sea Snake 35 State 16H

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	1021	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	580	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1 Two Stage w/ DV @ TVD of Delaware	570	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
	566	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	580	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	450	500' Tieback	9.0	3.3	Lead: Class H / C + additives
	1070	KOP	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

Sea Snake 35 State 16H

Cementing Program (3-String Alternative Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	1021	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	958	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1 Two Stage w/ DV @ TVD of Delaware	934	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
	412	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.4	Squeeze Lead: Class C Cement + additives
	580	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	234	500' Tieback	9.0	3.3	Lead: Class H / C + additives
	1070	KOP	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

Sea Snake 35 State 16H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned	Interval
	Resistivity
	Density
X	CBL
	Production casing

Sea Snake 35 State 16H

X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	4961
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H ₂ S is present
Y	H ₂ S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOC regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will

Sea Snake 35 State 16H

be monitored with a pressure gauge installed on the wellhead.

5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.

6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.

7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.

a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan

 Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 35-23S-33E

Sea Snake 35 State 16H

Wellbore #1

Permit Plan 1

Anticollision Report

07 January, 2020

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	1/7/2020		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	15,575.11	Permit Plan 1 (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM

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 35-23S-33E						
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	8,686.39	8,760.81	852.87	791.22	13.833	CC
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	8,700.00	8,771.98	852.89	791.16	13.815	ES
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	15,575.11	14,745.88	1,239.21	1,109.82	9.578	SF
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	3,500.00	3,507.80	1,536.80	1,512.11	62.236	CC, ES
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	15,575.11	14,706.28	2,000.83	1,847.95	13.088	SF
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	2,200.00	2,200.10	30.00	14.64	1.953	Minor Risk, CC, ES
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	2,300.00	2,299.58	30.85	14.79	1.921	Minor Risk, SF
Sea Snake 35 State 18H - Wellbore #1 - Permit Plan 1	2,000.00	2,006.20	1,596.78	1,582.83	114.473	CC, ES
Sea Snake 35 State 18H - Wellbore #1 - Permit Plan 1	15,571.61	15,490.34	2,258.02	2,092.70	13.659	SF
Sea Snake 35 State 1H - Original Hole - Actuals	9,455.45	9,497.05	673.69	616.95	11.874	CC
Sea Snake 35 State 1H - Original Hole - Actuals	9,800.00	9,818.77	674.83	616.14	11.500	ES
Sea Snake 35 State 1H - Original Hole - Actuals	15,262.98	15,983.69	762.20	651.13	6.862	SF
Sea Snake 35 State 1H - Pilot Hole - Actuals	9,455.53	9,496.99	672.35	615.64	11.856	CC
Sea Snake 35 State 1H - Pilot Hole - Actuals	9,800.00	9,818.69	673.48	614.82	11.480	ES
Sea Snake 35 State 1H - Pilot Hole - Actuals	10,350.00	10,342.46	684.56	622.80	11.083	SF
Sea Snake 35 State 2H - Original Hole - Actual	2,022.46	2,030.40	791.93	779.80	65.276	CC
Sea Snake 35 State 2H - Original Hole - Actual	3,600.00	3,608.43	798.01	776.47	37.040	ES
Sea Snake 35 State 2H - Original Hole - Actual	15,400.00	16,134.00	1,705.57	1,536.78	10.105	SF
Sea Snake 35 State 3H - Original Hole - Original Hole	3,486.63	3,476.25	2,600.26	2,575.82	106.382	CC
Sea Snake 35 State 3H - Original Hole - Original Hole	3,600.00	3,589.12	2,600.81	2,575.57	103.053	ES
Sea Snake 35 State 3H - Original Hole - Original Hole	15,500.00	15,725.00	2,763.60	2,585.58	15.524	SF
Sea Snake 35 State 4H - Original Hole - Original Hole	15,248.33	15,629.00	3,859.91	3,684.91	22.057	CC
Sea Snake 35 State 4H - Original Hole - Original Hole	15,300.00	15,629.00	3,860.25	3,684.72	21.992	ES
Sea Snake 35 State 4H - Original Hole - Original Hole	15,575.11	15,629.00	3,873.71	3,695.78	21.770	SF
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	2,700.00	2,707.10	1,566.79	1,547.83	82.631	CC, ES
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	15,575.11	14,801.25	2,852.57	2,692.18	17.785	SF
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	2,709.72	2,693.42	3,296.81	3,277.86	174.001	CC
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	2,800.00	2,775.05	3,296.85	3,277.29	168.566	ES
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	15,575.11	14,735.81	3,738.63	3,577.39	23.186	SF
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,309.87	2,293.37	3,326.81	3,310.72	206.835	CC
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,400.00	2,371.39	3,326.87	3,310.18	199.410	ES
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	15,575.11	14,819.30	4,643.04	4,479.96	28.470	SF
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	3,500.00	3,483.80	3,266.81	3,242.20	132.758	CC
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	15,575.11	15,580.40	3,383.97	3,218.52	20.453	ES, SF
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,000.00	1,983.40	3,356.80	3,342.94	242.065	CC
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,100.00	2,053.11	3,357.18	3,342.71	232.043	ES
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	15,575.11	15,665.18	4,563.95	4,398.44	27.576	SF

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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 35-23S-33E						
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	3,500.00	3,488.00	446.49	381.12	6.830	CC
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	3,600.00	3,588.00	447.31	380.12	6.658	ES
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	6,000.00	5,985.98	540.59	429.71	4.876	Alert, SF
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,612.47	10,573.23	4,249.94	4,021.66	18.617	CC
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,700.00	10,573.23	4,250.84	4,021.59	18.542	ES
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	14,400.00	10,573.23	4,322.29	4,085.65	18.265	SF

Offset Design Sec 35-23S-33E - Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.50 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis 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	8.50	8.50	0.50	0.50	91.45	-38.17	1,506.33	1,506.82					
100.00	100.00	108.50	108.50	0.52	0.53	91.45	-38.17	1,506.33	1,506.82	1,505.77	1.04	1,442.973		
200.00	200.00	208.50	208.50	0.70	0.72	91.45	-38.17	1,506.33	1,506.82	1,505.39	1.43	1,056.731		
300.00	300.00	308.50	308.50	0.99	1.01	91.45	-38.17	1,506.33	1,506.82	1,504.82	2.00	753.008		
400.00	400.00	408.50	408.50	1.31	1.34	91.45	-38.17	1,506.33	1,506.82	1,504.17	2.65	569.386		
500.00	500.00	508.50	508.50	1.65	1.68	91.45	-38.17	1,506.33	1,506.82	1,503.50	3.32	453.692		
600.00	600.00	608.50	608.50	1.99	2.02	91.45	-38.17	1,506.33	1,506.82	1,502.81	4.01	375.698		
700.00	700.00	708.50	708.50	2.34	2.37	91.45	-38.17	1,506.33	1,506.82	1,502.11	4.71	320.027		
800.00	800.00	808.50	808.50	2.69	2.72	91.45	-38.17	1,506.33	1,506.82	1,501.41	5.41	278.466		
900.00	900.00	908.50	908.50	3.04	3.07	91.45	-38.17	1,506.33	1,506.82	1,500.70	6.12	246.326		
1,000.00	1,000.00	1,008.50	1,008.50	3.40	3.43	91.45	-38.17	1,506.33	1,506.82	1,499.99	6.83	220.764		
1,100.00	1,100.00	1,108.50	1,108.50	3.75	3.78	91.45	-38.17	1,506.33	1,506.82	1,499.28	7.54	199.965		
1,200.00	1,200.00	1,208.50	1,208.50	4.11	4.14	91.45	-38.17	1,506.33	1,506.82	1,498.57	8.25	182.721		
1,300.00	1,300.00	1,308.50	1,308.50	4.46	4.49	91.45	-38.17	1,506.33	1,506.82	1,497.86	8.96	168.197		
1,400.00	1,400.00	1,408.50	1,408.50	4.82	4.85	91.45	-38.17	1,506.33	1,506.82	1,497.15	9.67	155.801		
1,500.00	1,500.00	1,508.50	1,508.50	5.18	5.21	91.45	-38.17	1,506.33	1,506.82	1,496.43	10.38	145.098		
1,600.00	1,600.00	1,608.50	1,608.50	5.53	5.56	91.45	-38.17	1,506.33	1,506.82	1,495.72	11.10	135.766		
1,700.00	1,700.00	1,708.50	1,708.50	5.89	5.92	91.45	-38.17	1,506.33	1,506.82	1,495.00	11.81	127.558		
1,800.00	1,800.00	1,808.50	1,808.50	6.25	6.28	91.45	-38.17	1,506.33	1,506.82	1,494.29	12.53	120.282		
1,900.00	1,900.00	1,908.50	1,908.50	6.61	6.64	91.45	-38.17	1,506.33	1,506.82	1,493.57	13.24	113.790		
2,000.00	2,000.00	2,011.44	2,011.44	6.96	7.00	91.45	-38.17	1,506.32	1,506.81	1,492.84	13.97	107.888		
2,100.00	2,100.00	2,146.00	2,145.99	7.32	7.47	91.47	-38.52	1,504.51	1,505.47	1,490.68	14.78	101.839		
2,200.00	2,200.00	2,280.40	2,280.29	7.68	7.92	91.51	-39.45	1,499.59	1,501.83	1,486.24	15.59	96.364		
2,300.00	2,300.00	2,414.50	2,414.14	8.04	8.38	91.57	-40.97	1,491.61	1,495.91	1,479.53	16.38	91.316		
2,400.00	2,400.00	2,548.14	2,547.30	8.39	8.85	91.67	-43.07	1,480.60	1,487.71	1,470.54	17.17	86.638		
2,500.00	2,500.00	2,681.18	2,679.58	8.75	9.32	91.79	-45.73	1,466.60	1,477.25	1,459.30	17.95	82.283		
2,600.00	2,600.00	2,793.44	2,790.95	9.11	9.72	91.91	-48.36	1,452.76	1,464.97	1,446.29	18.68	78.412		
2,700.00	2,700.00	2,907.38	2,889.32	9.47	10.13	92.02	-50.73	1,440.33	1,452.52	1,433.08	19.44	74.732		
2,800.00	2,800.00	3,008.20	2,987.69	9.83	10.50	92.13	-53.10	1,427.89	1,440.07	1,419.93	20.15	71.483		
2,900.00	2,900.00	3,109.01	3,086.06	10.18	10.87	92.24	-55.46	1,415.46	1,427.63	1,406.78	20.86	68.451		
3,000.00	3,000.00	3,209.83	3,184.43	10.54	11.24	92.36	-57.83	1,403.03	1,415.20	1,393.63	21.57	65.614		
3,100.00	3,100.00	3,289.35	3,282.81	10.90	11.54	92.48	-60.19	1,390.59	1,402.77	1,380.56	22.21	63.169		
3,200.00	3,200.00	3,388.53	3,381.18	11.26	11.91	92.60	-62.56	1,378.16	1,390.35	1,367.43	22.92	60.674		
3,300.00	3,300.00	3,487.72	3,479.55	11.62	12.28	92.72	-64.93	1,365.73	1,377.93	1,354.30	23.62	58.325		
3,400.00	3,400.00	3,586.90	3,577.92	11.97	12.65	92.85	-67.29	1,353.30	1,365.52	1,341.18	24.34	56.112		
3,500.00	3,500.00	3,686.08	3,676.29	12.33	13.03	92.97	-69.66	1,340.86	1,353.11	1,328.07	25.05	54.022		
3,600.00	3,600.00	3,785.34	3,774.74	12.67	13.40	-124.50	-72.03	1,328.42	1,341.21	1,315.46	25.74	52.099		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
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Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
3,700.00	3,699.96	3,884.74	3,873.33	13.00	13.78	-124.55	-74.40	1,315.96	1,330.28	1,303.86	26.43	50.341		
3,737.73	3,737.66	3,922.27	3,910.55	13.13	13.92	-124.58	-75.29	1,311.26	1,326.42	1,299.73	26.68	49.709		
3,800.00	3,799.88	3,984.22	3,972.00	13.33	14.16	-124.59	-76.77	1,303.49	1,320.15	1,293.04	27.11	48.696		
3,900.00	3,899.79	4,083.72	4,070.68	13.66	14.54	-124.61	-79.14	1,291.02	1,310.09	1,282.30	27.80	47.130		
4,000.00	3,999.71	4,183.21	4,169.36	13.99	14.92	-124.63	-81.52	1,278.55	1,300.03	1,271.55	28.49	45.636		
4,100.00	4,099.62	4,282.70	4,268.03	14.32	15.31	-124.64	-83.89	1,266.07	1,289.98	1,260.80	29.18	44.209		
4,200.00	4,199.53	4,382.19	4,366.71	14.66	15.69	-124.66	-86.26	1,253.60	1,279.92	1,250.04	29.87	42.846		
4,300.00	4,299.45	4,481.68	4,465.39	15.00	16.08	-124.68	-88.64	1,241.13	1,269.86	1,239.29	30.57	41.542		
4,400.00	4,399.36	4,581.18	4,564.07	15.33	16.46	-124.70	-91.01	1,228.66	1,259.80	1,228.53	31.27	40.294		
4,500.00	4,499.28	4,680.67	4,662.75	15.67	16.85	-124.72	-93.38	1,216.19	1,249.74	1,217.78	31.96	39.099		
4,600.00	4,599.19	4,780.16	4,761.43	16.01	17.23	-124.73	-95.76	1,203.71	1,239.68	1,207.02	32.66	37.953		
4,700.00	4,699.10	4,879.65	4,860.11	16.35	17.62	-124.75	-98.13	1,191.24	1,229.62	1,196.26	33.37	36.853		
4,800.00	4,799.02	4,979.14	4,958.78	16.69	18.01	-124.77	-100.50	1,178.77	1,219.56	1,185.50	34.07	35.798		
4,900.00	4,898.93	5,078.64	5,057.46	17.04	18.40	-124.79	-102.88	1,166.30	1,209.51	1,174.73	34.77	34.784		
5,000.00	4,998.85	5,178.13	5,156.14	17.38	18.78	-124.81	-105.25	1,153.83	1,199.45	1,163.97	35.48	33.809		
5,100.00	5,098.76	5,277.62	5,254.82	17.72	19.17	-124.83	-107.62	1,141.36	1,189.39	1,153.21	36.18	32.871		
5,200.00	5,198.67	5,377.11	5,353.50	18.07	19.56	-124.85	-110.00	1,128.88	1,179.33	1,142.44	36.89	31.969		
5,300.00	5,298.59	5,476.60	5,452.18	18.41	19.95	-124.87	-112.37	1,116.41	1,169.27	1,131.68	37.60	31.099		
5,400.00	5,398.50	5,576.10	5,550.86	18.76	20.34	-124.90	-114.74	1,103.94	1,159.22	1,120.91	38.31	30.261		
5,500.00	5,498.42	5,675.59	5,649.54	19.11	20.73	-124.92	-117.12	1,091.47	1,149.16	1,110.14	39.02	29.453		
5,600.00	5,598.33	5,775.08	5,748.21	19.45	21.12	-124.94	-119.49	1,079.00	1,139.10	1,099.37	39.73	28.673		
5,700.00	5,698.24	5,874.57	5,846.89	19.80	21.52	-124.96	-121.86	1,066.53	1,129.04	1,088.61	40.44	27.919		
5,800.00	5,798.16	5,974.06	5,945.57	20.15	21.91	-124.98	-124.24	1,054.05	1,118.99	1,077.84	41.15	27.192		
5,900.00	5,898.07	6,073.56	6,044.25	20.50	22.30	-125.01	-126.61	1,041.58	1,108.93	1,067.07	41.86	26.489		
6,000.00	5,997.98	6,173.05	6,142.93	20.85	22.69	-125.03	-128.98	1,029.11	1,098.87	1,056.30	42.58	25.809		
6,100.00	6,097.90	6,272.54	6,241.61	21.20	23.08	-125.06	-131.36	1,016.64	1,088.82	1,045.53	43.29	25.151		
6,200.00	6,197.81	6,372.03	6,340.29	21.55	23.48	-125.08	-133.73	1,004.17	1,078.76	1,034.76	44.01	24.514		
6,300.00	6,297.73	6,471.52	6,438.96	21.90	23.87	-125.10	-136.10	991.70	1,068.71	1,023.98	44.72	23.897		
6,400.00	6,397.64	6,571.02	6,537.64	22.25	24.26	-125.13	-138.48	979.22	1,058.65	1,013.21	45.44	23.299		
6,500.00	6,497.55	6,670.51	6,636.32	22.61	24.65	-125.16	-140.85	966.75	1,048.59	1,002.44	46.15	22.720		
6,600.00	6,597.47	6,770.00	6,735.00	22.96	25.05	-125.18	-143.22	954.28	1,038.54	991.67	46.87	22.158		
6,700.00	6,697.38	6,869.49	6,833.68	23.31	25.44	-125.21	-145.60	941.81	1,028.48	980.90	47.59	21.613		
6,800.00	6,797.30	6,968.98	6,932.36	23.66	25.84	-125.24	-147.97	929.34	1,018.43	970.12	48.30	21.083		
6,900.00	6,897.21	7,068.48	7,031.04	24.02	26.23	-125.27	-150.34	916.86	1,008.38	959.35	49.02	20.569		
7,000.00	6,997.12	7,167.97	7,129.72	24.37	26.62	-125.29	-152.72	904.39	998.32	948.58	49.74	20.070		
7,100.00	7,097.04	7,267.46	7,228.39	24.73	27.02	-125.32	-155.09	891.92	988.27	937.81	50.46	19.585		
7,200.00	7,196.95	7,366.95	7,327.07	25.08	27.41	-125.35	-157.46	879.45	978.21	927.03	51.18	19.114		
7,300.00	7,296.87	7,466.44	7,425.75	25.43	27.81	-125.38	-159.84	866.98	968.16	916.26	51.90	18.655		
7,400.00	7,396.78	7,565.94	7,524.43	25.79	28.20	-125.42	-162.21	854.51	958.11	905.49	52.62	18.209		
7,500.00	7,496.69	7,665.43	7,623.11	26.14	28.60	-125.45	-164.58	842.03	948.05	894.71	53.34	17.774		
7,600.00	7,596.61	7,764.92	7,721.79	26.50	28.99	-125.48	-166.96	829.56	938.00	883.94	54.06	17.351		
7,700.00	7,696.52	7,864.41	7,820.47	26.86	29.39	-125.51	-169.33	817.09	927.95	873.17	54.78	16.940		
7,800.00	7,796.44	7,963.90	7,919.15	27.21	29.78	-125.55	-171.70	804.62	917.90	862.40	55.50	16.539		
7,900.00	7,896.35	8,063.40	8,017.82	27.57	30.18	-125.58	-174.08	792.15	907.84	851.62	56.22	16.148		
8,000.00	7,996.26	8,162.89	8,116.50	27.92	30.57	-125.62	-176.45	779.68	897.79	840.85	56.94	15.766		
8,100.00	8,096.18	8,262.38	8,215.18	28.28	30.97	-125.65	-178.82	767.20	887.74	830.08	57.66	15.395		
8,200.00	8,196.09	8,361.87	8,313.86	28.64	31.36	-125.69	-181.20	754.73	877.69	819.30	58.39	15.032		
8,300.00	8,296.01	8,461.35	8,395.76	28.99	31.69	-125.73	-183.02	745.14	868.56	809.46	59.10	14.696		
8,400.00	8,395.92	8,560.84	8,477.06	29.35	32.00	-125.80	-184.50	737.36	861.50	801.71	59.79	14.408		
8,500.00	8,495.83	8,607.92	8,558.71	29.71	32.31	-125.90	-185.66	731.27	856.53	796.07	60.46	14.166		
8,600.00	8,595.75	8,689.93	8,640.59	30.06	32.60	-126.02	-186.49	726.90	853.66	792.55	61.11	13.969		
8,686.39	8,682.06	8,760.81	8,711.42	30.37	32.85	-126.14	-186.95	724.51	852.87	791.22	61.65	13.833 CC		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
8,700.00	8,695.66	8,771.98	8,722.59	30.42	32.89	-126.16	-187.00	724.25	852.89	791.16	61.74	13.815 ES		
8,800.00	8,795.58	8,859.32	8,804.08	30.78	33.18	-126.33	-187.17	723.33	854.24	791.88	62.35	13.700		
8,900.00	8,895.49	8,953.38	8,903.99	31.14	33.49	-126.56	-187.17	723.33	856.70	793.68	63.02	13.594		
9,000.00	8,995.40	9,053.30	9,003.90	31.50	33.82	-126.78	-187.17	723.33	859.18	795.47	63.71	13.485		
9,100.00	9,095.32	9,153.21	9,103.82	31.85	34.14	-127.00	-187.17	723.33	861.67	797.27	64.40	13.379		
9,200.00	9,195.23	9,253.82	9,204.37	32.21	34.47	-127.35	-185.21	723.32	864.15	799.06	65.09	13.275		
9,300.00	9,295.14	9,351.51	9,300.57	32.57	34.77	-128.64	-168.90	723.20	866.75	801.02	65.74	13.185		
9,400.00	9,395.06	9,440.37	9,384.53	32.93	35.02	-130.72	-140.07	722.99	870.53	804.25	66.28	13.134		
9,500.00	9,494.97	9,517.95	9,453.44	33.29	35.22	-133.18	-104.55	722.74	877.11	810.43	66.68	13.153		
9,523.61	9,518.56	9,534.56	9,467.52	33.37	35.25	-133.78	-95.76	722.67	879.25	812.50	66.75	13.172		
9,600.00	9,594.91	9,584.28	9,508.09	33.64	35.36	-135.79	-67.04	722.47	887.58	820.70	66.88	13.272		
9,682.09	9,677.00	9,631.55	9,544.21	33.93	35.45	79.59	-36.57	722.25	899.03	832.20	66.84	13.451		
9,700.00	9,694.91	9,641.07	9,551.17	33.99	35.46	79.18	-30.08	722.20	901.95	835.15	66.80	13.502		
9,800.00	9,794.91	9,689.14	9,584.64	34.33	35.54	77.01	4.42	721.95	922.21	855.81	66.40	13.888		
9,900.00	9,894.91	9,729.61	9,610.49	34.68	35.59	75.08	35.55	721.73	949.49	883.80	65.69	14.454		
10,000.00	9,994.91	9,763.84	9,630.59	35.02	35.63	73.39	63.24	721.53	983.88	919.18	64.70	15.206		
10,032.13	10,027.04	9,773.70	9,636.07	35.13	35.64	72.90	71.44	721.47	996.41	932.07	64.34	15.487		
10,050.00	10,044.90	9,779.09	9,639.01	35.19	35.65	72.29	75.96	721.44	1,003.61	939.48	64.13	15.651		
10,100.00	10,094.75	9,800.00	9,649.99	35.36	35.67	69.20	93.75	721.31	1,024.03	960.43	63.60	16.101		
10,150.00	10,144.08	9,810.93	9,655.47	35.53	35.68	66.65	103.20	721.24	1,044.55	981.66	62.89	16.610		
10,200.00	10,192.52	9,827.73	9,663.54	35.68	35.70	63.95	117.94	721.13	1,064.99	1,002.74	62.25	17.109		
10,250.00	10,239.69	9,850.00	9,673.57	35.84	35.72	61.21	137.82	720.99	1,085.10	1,023.43	61.67	17.594		
10,300.00	10,285.26	9,862.70	9,678.93	35.98	35.73	58.98	149.33	720.91	1,104.59	1,043.64	60.95	18.122		
10,350.00	10,328.85	9,880.75	9,686.12	36.12	35.75	56.75	165.89	720.79	1,123.34	1,063.01	60.32	18.622		
10,400.00	10,370.15	9,900.00	9,693.21	36.25	35.76	54.70	183.78	720.66	1,141.12	1,081.39	59.73	19.104		
10,450.00	10,408.84	9,917.74	9,699.21	36.37	35.78	52.89	200.48	720.54	1,157.79	1,098.65	59.14	19.576		
10,500.00	10,444.62	9,936.60	9,705.01	36.49	35.79	51.25	218.42	720.41	1,173.19	1,114.59	58.60	20.020		
10,550.00	10,477.22	9,950.00	9,708.78	36.61	35.81	49.90	231.28	720.32	1,187.25	1,129.21	58.04	20.456		
10,600.00	10,506.40	9,974.88	9,714.96	36.73	35.83	48.57	255.38	720.14	1,199.73	1,142.07	57.66	20.806		
10,650.00	10,531.93	10,000.00	9,720.14	36.85	35.85	47.45	279.95	719.96	1,210.70	1,153.36	57.34	21.116		
10,700.00	10,553.61	10,013.72	9,722.51	36.97	35.87	46.64	293.47	719.87	1,219.92	1,162.96	56.97	21.415		
10,750.00	10,571.29	10,033.30	9,725.34	37.10	35.89	45.95	312.84	719.73	1,227.44	1,170.72	56.72	21.639		
10,800.00	10,584.83	10,050.00	9,727.22	37.22	35.92	45.44	329.43	719.61	1,233.18	1,176.64	56.54	21.810		
10,850.00	10,594.12	10,072.63	9,729.00	37.34	35.95	45.08	351.99	719.44	1,237.07	1,180.60	56.48	21.904		
10,900.00	10,599.10	10,100.00	9,729.96	37.47	36.00	44.88	379.34	719.25	1,239.18	1,182.68	56.50	21.931		
10,932.14	10,600.00	10,109.96	9,730.00	37.55	36.02	44.86	382.25	719.23	1,239.45	1,182.91	56.54	21.923		
11,000.00	10,600.00	10,170.77	9,730.00	37.73	36.15	44.86	450.11	718.74	1,239.44	1,182.67	56.78	21.829		
11,100.00	10,600.00	10,270.77	9,730.00	38.04	36.44	44.86	550.11	718.02	1,239.44	1,182.22	57.22	21.659		
11,200.00	10,600.00	10,370.77	9,730.00	38.41	36.80	44.86	650.11	717.30	1,239.43	1,181.67	57.76	21.458		
11,300.00	10,600.00	10,470.77	9,730.00	38.83	37.23	44.86	750.10	716.57	1,239.43	1,181.04	58.38	21.229		
11,400.00	10,600.00	10,570.77	9,730.00	39.30	37.72	44.86	850.10	715.85	1,239.42	1,180.33	59.10	20.973		
11,500.00	10,600.00	10,670.77	9,730.00	39.81	38.26	44.86	950.10	715.13	1,239.42	1,179.53	59.89	20.695		
11,600.00	10,600.00	10,770.77	9,730.00	40.37	38.84	44.86	1,050.10	714.41	1,239.41	1,178.65	60.76	20.397		
11,700.00	10,600.00	10,870.77	9,730.00	40.98	39.47	44.86	1,150.09	713.69	1,239.41	1,177.69	61.72	20.083		
11,800.00	10,600.00	10,970.77	9,730.00	41.62	40.15	44.86	1,250.09	712.97	1,239.40	1,176.66	62.74	19.755		
11,900.00	10,600.00	11,070.77	9,730.00	42.31	40.86	44.86	1,350.09	712.25	1,239.40	1,175.57	63.83	19.416		
12,000.00	10,600.00	11,170.77	9,730.00	43.04	41.62	44.86	1,450.09	711.53	1,239.39	1,174.40	64.99	19.070		
12,100.00	10,600.00	11,270.77	9,730.00	43.80	42.41	44.86	1,550.08	710.81	1,239.39	1,173.17	66.21	18.718		
12,200.00	10,600.00	11,370.77	9,730.00	44.60	43.23	44.86	1,650.08	710.08	1,239.38	1,171.89	67.49	18.363		
12,300.00	10,600.00	11,470.77	9,730.00	45.43	44.09	44.86	1,750.08	709.36	1,239.38	1,170.55	68.83	18.006		
12,400.00	10,600.00	11,570.77	9,730.00	46.29	44.97	44.86	1,850.08	708.64	1,239.37	1,169.15	70.22	17.650		
12,500.00	10,600.00	11,670.77	9,730.00	47.17	45.89	44.86	1,950.07	707.92	1,239.37	1,167.71	71.66	17.296		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
12,600.00	10,600.00	11,770.77	9,730.00	48.09	46.83	44.86	2,050.07	707.20	1,239.36	1,166.22	73.14	16.945		
12,700.00	10,600.00	11,870.77	9,730.00	49.04	47.80	44.86	2,150.07	706.48	1,239.36	1,164.69	74.67	16.598		
12,800.00	10,600.00	11,970.77	9,730.00	50.00	48.79	44.86	2,250.07	705.76	1,239.35	1,163.11	76.24	16.256		
12,900.00	10,600.00	12,070.77	9,730.00	50.99	49.81	44.86	2,350.06	705.04	1,239.35	1,161.50	77.85	15.920		
13,000.00	10,600.00	12,170.77	9,730.00	52.01	50.84	44.86	2,450.06	704.32	1,239.34	1,159.85	79.49	15.591		
13,100.00	10,600.00	12,270.77	9,730.00	53.04	51.90	44.86	2,550.06	703.59	1,239.34	1,158.17	81.17	15.269		
13,200.00	10,600.00	12,370.77	9,730.00	54.09	52.98	44.86	2,650.06	702.87	1,239.33	1,156.45	82.88	14.954		
13,300.00	10,600.00	12,470.77	9,730.00	55.16	54.07	44.86	2,750.05	702.15	1,239.33	1,154.71	84.62	14.646		
13,400.00	10,600.00	12,570.77	9,730.00	56.25	55.18	44.86	2,850.05	701.43	1,239.32	1,152.93	86.39	14.346		
13,500.00	10,600.00	12,670.77	9,730.00	57.36	56.30	44.86	2,950.05	700.71	1,239.32	1,151.13	88.18	14.054		
13,600.00	10,600.00	12,770.77	9,730.00	58.48	57.44	44.86	3,050.04	699.99	1,239.31	1,149.31	90.00	13.770		
13,700.00	10,600.00	12,870.77	9,730.00	59.61	58.60	44.86	3,150.04	699.27	1,239.31	1,147.46	91.84	13.494		
13,800.00	10,600.00	12,970.77	9,730.00	60.76	59.76	44.86	3,250.04	698.55	1,239.30	1,145.59	93.71	13.225		
13,900.00	10,600.00	13,070.77	9,730.00	61.92	60.94	44.86	3,350.04	697.83	1,239.29	1,143.70	95.59	12.964		
14,000.00	10,600.00	13,170.77	9,730.00	63.10	62.13	44.86	3,450.03	697.10	1,239.29	1,141.79	97.50	12.711		
14,100.00	10,600.00	13,270.77	9,730.00	64.28	63.34	44.86	3,550.03	696.38	1,239.28	1,139.86	99.42	12.465		
14,200.00	10,600.00	13,370.77	9,730.00	65.48	64.55	44.86	3,650.03	695.66	1,239.28	1,137.92	101.36	12.226		
14,300.00	10,600.00	13,470.77	9,730.00	66.68	65.77	44.86	3,750.03	694.94	1,239.27	1,135.95	103.32	11.994		
14,400.00	10,600.00	13,570.77	9,730.00	67.90	67.00	44.86	3,850.02	694.22	1,239.27	1,133.97	105.29	11.770		
14,500.00	10,600.00	13,670.77	9,730.00	69.13	68.24	44.86	3,950.02	693.50	1,239.26	1,131.98	107.28	11.552		
14,600.00	10,600.00	13,770.77	9,730.00	70.36	69.49	44.86	4,050.02	692.78	1,239.26	1,129.98	109.28	11.340		
14,700.00	10,600.00	13,870.77	9,730.00	71.60	70.75	44.85	4,150.02	692.06	1,239.25	1,127.96	111.30	11.135		
14,800.00	10,600.00	13,970.77	9,730.00	72.85	72.01	44.85	4,250.01	691.34	1,239.25	1,125.92	113.32	10.935		
14,900.00	10,600.00	14,070.77	9,730.00	74.11	73.28	44.85	4,350.01	690.61	1,239.24	1,123.88	115.36	10.742		
15,000.00	10,600.00	14,170.77	9,730.00	75.38	74.56	44.85	4,450.01	689.89	1,239.24	1,121.83	117.41	10.555		
15,100.00	10,600.00	14,270.77	9,730.00	76.65	75.85	44.85	4,550.01	689.17	1,239.23	1,119.76	119.47	10.373		
15,200.00	10,600.00	14,370.77	9,730.00	77.93	77.14	44.85	4,650.00	688.45	1,239.23	1,117.69	121.54	10.196		
15,300.00	10,600.00	14,470.77	9,730.00	79.21	78.43	44.85	4,750.00	687.73	1,239.22	1,115.60	123.62	10.024		
15,400.00	10,600.00	14,570.77	9,730.00	80.50	79.74	44.85	4,850.00	687.01	1,239.22	1,113.51	125.71	9.858		
15,500.00	10,600.00	14,670.77	9,730.00	81.80	81.04	44.85	4,950.00	686.29	1,239.21	1,111.41	127.81	9.696		
15,575.11	10,600.00	14,745.88	9,730.00	82.77	82.03	44.85	5,025.10	685.75	1,239.21	1,109.82	129.39	9.578 SF		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	7.80	7.80	0.50	0.50	91.42	-37.98	1,536.33	1,536.80					
100.00	100.00	107.80	107.80	0.52	0.53	91.42	-37.98	1,536.33	1,536.80	1,535.76	1.04	1,472.789		
200.00	200.00	207.80	207.80	0.70	0.72	91.42	-37.98	1,536.33	1,536.80	1,535.38	1.42	1,079.131		
300.00	300.00	307.80	307.80	0.99	1.01	91.42	-37.98	1,536.33	1,536.80	1,534.80	2.00	768.832		
400.00	400.00	407.80	407.80	1.31	1.33	91.42	-37.98	1,536.33	1,536.80	1,534.16	2.64	581.227		
500.00	500.00	507.80	507.80	1.65	1.67	91.42	-37.98	1,536.33	1,536.80	1,533.48	3.32	463.054		
600.00	600.00	607.80	607.80	1.99	2.02	91.42	-37.98	1,536.33	1,536.80	1,532.79	4.01	383.407		
700.00	700.00	707.80	707.80	2.34	2.37	91.42	-37.98	1,536.33	1,536.80	1,532.10	4.71	326.566		
800.00	800.00	807.80	807.80	2.69	2.72	91.42	-37.98	1,536.33	1,536.80	1,531.39	5.41	284.137		
900.00	900.00	907.80	907.80	3.04	3.07	91.42	-37.98	1,536.33	1,536.80	1,530.69	6.11	251.330		
1,000.00	1,000.00	1,007.80	1,007.80	3.40	3.43	91.42	-37.98	1,536.33	1,536.80	1,529.98	6.82	225.239		
1,100.00	1,100.00	1,107.80	1,107.80	3.75	3.78	91.42	-37.98	1,536.33	1,536.80	1,529.27	7.53	204.012		
1,200.00	1,200.00	1,207.80	1,207.80	4.11	4.14	91.42	-37.98	1,536.33	1,536.80	1,528.56	8.24	186.413		
1,300.00	1,300.00	1,307.80	1,307.80	4.46	4.49	91.42	-37.98	1,536.33	1,536.80	1,527.85	8.96	171.592		
1,400.00	1,400.00	1,407.80	1,407.80	4.82	4.85	91.42	-37.98	1,536.33	1,536.80	1,527.13	9.67	158.942		
1,500.00	1,500.00	1,507.80	1,507.80	5.18	5.21	91.42	-37.98	1,536.33	1,536.80	1,526.42	10.38	148.022		
1,600.00	1,600.00	1,607.80	1,607.80	5.53	5.56	91.42	-37.98	1,536.33	1,536.80	1,525.71	11.10	138.499		
1,700.00	1,700.00	1,707.80	1,707.80	5.89	5.92	91.42	-37.98	1,536.33	1,536.80	1,524.99	11.81	130.124		
1,800.00	1,800.00	1,807.80	1,807.80	6.25	6.28	91.42	-37.98	1,536.33	1,536.80	1,524.28	12.52	122.700		
1,900.00	1,900.00	1,907.80	1,907.80	6.61	6.63	91.42	-37.98	1,536.33	1,536.80	1,523.56	13.24	116.076		
2,000.00	2,000.00	2,007.80	2,007.80	6.96	6.99	91.42	-37.98	1,536.33	1,536.80	1,522.85	13.95	110.129		
2,100.00	2,100.00	2,107.80	2,107.80	7.32	7.35	91.42	-37.98	1,536.33	1,536.80	1,522.13	14.67	104.760		
2,200.00	2,200.00	2,207.80	2,207.80	7.68	7.71	91.42	-37.98	1,536.33	1,536.80	1,521.42	15.39	99.889		
2,300.00	2,300.00	2,307.80	2,307.80	8.04	8.06	91.42	-37.98	1,536.33	1,536.80	1,520.70	16.10	95.450		
2,400.00	2,400.00	2,407.80	2,407.80	8.39	8.42	91.42	-37.98	1,536.33	1,536.80	1,519.99	16.82	91.388		
2,500.00	2,500.00	2,507.80	2,507.80	8.75	8.78	91.42	-37.98	1,536.33	1,536.80	1,519.27	17.53	87.657		
2,600.00	2,600.00	2,607.80	2,607.80	9.11	9.14	91.42	-37.98	1,536.33	1,536.80	1,518.55	18.25	84.218		
2,700.00	2,700.00	2,707.80	2,707.80	9.47	9.50	91.42	-37.98	1,536.33	1,536.80	1,517.84	18.96	81.039		
2,800.00	2,800.00	2,807.80	2,807.80	9.83	9.85	91.42	-37.98	1,536.33	1,536.80	1,517.12	19.68	78.091		
2,900.00	2,900.00	2,907.80	2,907.80	10.18	10.21	91.42	-37.98	1,536.33	1,536.80	1,516.41	20.40	75.349		
3,000.00	3,000.00	3,007.80	3,007.80	10.54	10.57	91.42	-37.98	1,536.33	1,536.80	1,515.69	21.11	72.793		
3,100.00	3,100.00	3,107.80	3,107.80	10.90	10.93	91.42	-37.98	1,536.33	1,536.80	1,514.97	21.83	70.405		
3,200.00	3,200.00	3,207.80	3,207.80	11.26	11.29	91.42	-37.98	1,536.33	1,536.80	1,514.26	22.54	68.168		
3,300.00	3,300.00	3,307.80	3,307.80	11.62	11.64	91.42	-37.98	1,536.33	1,536.80	1,513.54	23.26	66.069		
3,400.00	3,400.00	3,407.80	3,407.80	11.97	12.00	91.42	-37.98	1,536.33	1,536.80	1,512.83	23.98	64.095		
3,500.00	3,500.00	3,507.80	3,507.80	12.33	12.36	91.42	-37.98	1,536.33	1,536.80	1,512.11	24.69	62.236 CC, ES		
3,600.00	3,600.00	3,592.48	3,592.48	12.67	12.65	-126.05	-38.58	1,536.78	1,537.85	1,512.53	25.32	60.733		
3,700.00	3,699.96	3,678.22	3,678.22	13.00	12.93	-126.03	-40.20	1,537.99	1,540.85	1,514.93	25.93	59.434		
3,737.73	3,737.66	3,711.10	3,711.05	13.13	13.04	-126.02	-41.10	1,538.66	1,542.49	1,516.33	26.15	58.976		
3,800.00	3,799.88	3,773.30	3,773.21	13.33	13.24	-126.03	-42.90	1,540.00	1,545.40	1,518.83	26.56	58.180		
3,900.00	3,899.79	3,873.19	3,873.04	13.66	13.57	-126.05	-45.80	1,542.16	1,550.07	1,522.85	27.22	56.946		
4,000.00	3,999.71	3,973.08	3,972.86	13.99	13.90	-126.07	-48.70	1,544.32	1,554.74	1,526.86	27.88	55.764		
4,100.00	4,099.62	4,072.97	4,072.69	14.32	14.23	-126.09	-51.59	1,546.47	1,559.41	1,530.87	28.54	54.630		
4,200.00	4,199.53	4,172.86	4,172.51	14.66	14.57	-126.11	-54.49	1,548.63	1,564.08	1,534.87	29.21	53.544		
4,300.00	4,299.45	4,272.75	4,272.33	15.00	14.90	-126.13	-57.39	1,550.79	1,568.76	1,538.88	29.88	52.500		
4,400.00	4,399.36	4,372.64	4,372.16	15.33	15.24	-126.14	-60.28	1,552.95	1,573.43	1,542.88	30.55	51.499		
4,500.00	4,499.28	4,472.53	4,471.98	15.67	15.58	-126.16	-63.18	1,555.11	1,578.10	1,546.87	31.23	50.537		
4,600.00	4,599.19	4,572.42	4,571.81	16.01	15.92	-126.18	-66.08	1,557.26	1,582.77	1,550.87	31.90	49.612		
4,700.00	4,699.10	4,672.31	4,671.63	16.35	16.25	-126.20	-68.97	1,559.42	1,587.45	1,554.87	32.58	48.722		
4,800.00	4,799.02	4,772.20	4,771.46	16.69	16.60	-126.22	-71.87	1,561.58	1,592.12	1,558.86	33.26	47.866		
4,900.00	4,898.93	4,872.09	4,871.28	17.04	16.94	-126.23	-74.77	1,563.74	1,596.79	1,562.85	33.94	47.042		
5,000.00	4,998.85	4,971.98	4,971.10	17.38	17.28	-126.25	-77.66	1,565.90	1,601.47	1,566.84	34.63	46.248		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	5,071.87	5,070.93	17.72	17.62	-126.27	-80.56	1,568.06	1,606.14	1,570.83	35.31	45.482		
5,200.00	5,198.67	5,171.76	5,170.75	18.07	17.97	-126.29	-83.46	1,570.21	1,610.81	1,574.81	36.00	44.744		
5,300.00	5,298.59	5,271.65	5,270.58	18.41	18.31	-126.30	-86.36	1,572.37	1,615.49	1,578.80	36.69	44.032		
5,400.00	5,398.50	5,371.53	5,370.40	18.76	18.66	-126.32	-89.25	1,574.53	1,620.16	1,582.78	37.38	43.345		
5,500.00	5,498.42	5,471.42	5,470.22	19.11	19.00	-126.34	-92.15	1,576.69	1,624.84	1,586.77	38.07	42.681		
5,600.00	5,598.33	5,571.31	5,570.05	19.45	19.35	-126.36	-95.05	1,578.85	1,629.51	1,590.75	38.76	42.039		
5,700.00	5,698.24	5,671.20	5,669.87	19.80	19.69	-126.37	-97.94	1,581.00	1,634.18	1,594.73	39.46	41.419		
5,800.00	5,798.16	5,771.09	5,769.70	20.15	20.04	-126.39	-100.84	1,583.16	1,638.86	1,598.71	40.15	40.819		
5,900.00	5,898.07	5,870.98	5,869.52	20.50	20.39	-126.41	-103.74	1,585.32	1,643.53	1,602.69	40.85	40.238		
6,000.00	5,997.98	5,970.87	5,969.35	20.85	20.74	-126.42	-106.63	1,587.48	1,648.21	1,606.67	41.54	39.676		
6,100.00	6,097.90	6,070.76	6,069.17	21.20	21.09	-126.44	-109.53	1,589.64	1,652.88	1,610.65	42.24	39.132		
6,200.00	6,197.81	6,170.65	6,168.99	21.55	21.44	-126.45	-112.43	1,591.79	1,657.56	1,614.62	42.94	38.604		
6,300.00	6,297.73	6,270.54	6,268.82	21.90	21.79	-126.47	-115.33	1,593.95	1,662.23	1,618.60	43.64	38.093		
6,400.00	6,397.64	6,370.43	6,368.64	22.25	22.14	-126.49	-118.22	1,596.11	1,666.91	1,622.57	44.34	37.597		
6,500.00	6,497.55	6,470.32	6,468.47	22.61	22.49	-126.50	-121.12	1,598.27	1,671.59	1,626.55	45.04	37.116		
6,600.00	6,597.47	6,570.21	6,568.29	22.96	22.84	-126.52	-124.02	1,600.43	1,676.26	1,630.52	45.74	36.649		
6,700.00	6,697.38	6,670.10	6,668.12	23.31	23.19	-126.54	-126.91	1,602.59	1,680.94	1,634.50	46.44	36.196		
6,800.00	6,797.30	6,769.99	6,767.94	23.66	23.54	-126.55	-129.81	1,604.74	1,685.61	1,638.47	47.14	35.755		
6,900.00	6,897.21	6,869.88	6,867.76	24.02	23.89	-126.57	-132.71	1,606.90	1,690.29	1,642.44	47.85	35.327		
7,000.00	6,997.12	6,969.77	6,967.59	24.37	24.25	-126.58	-135.60	1,609.06	1,694.96	1,646.41	48.55	34.911		
7,100.00	7,097.04	7,069.66	7,067.41	24.73	24.60	-126.60	-138.50	1,611.22	1,699.64	1,650.39	49.26	34.507		
7,200.00	7,196.95	7,169.55	7,167.24	25.08	24.95	-126.61	-141.40	1,613.38	1,704.32	1,654.36	49.96	34.113		
7,300.00	7,296.87	7,269.44	7,267.06	25.43	25.30	-126.63	-144.30	1,615.53	1,708.99	1,658.33	50.67	33.731		
7,400.00	7,396.78	7,369.33	7,366.88	25.79	25.66	-126.64	-147.19	1,617.69	1,713.67	1,662.30	51.37	33.358		
7,500.00	7,496.69	7,469.21	7,466.71	26.14	26.01	-126.66	-150.09	1,619.85	1,718.35	1,666.27	52.08	32.995		
7,600.00	7,596.61	7,569.10	7,566.53	26.50	26.36	-126.68	-152.99	1,622.01	1,723.02	1,670.24	52.79	32.642		
7,700.00	7,696.52	7,668.99	7,666.36	26.86	26.72	-126.69	-155.88	1,624.17	1,727.70	1,674.21	53.49	32.297		
7,800.00	7,796.44	7,768.88	7,766.18	27.21	27.07	-126.71	-158.78	1,626.32	1,732.38	1,678.18	54.20	31.962		
7,900.00	7,896.35	7,868.77	7,866.01	27.57	27.43	-126.72	-161.68	1,628.48	1,737.06	1,682.15	54.91	31.635		
8,000.00	7,996.26	7,968.66	7,965.83	27.92	27.78	-126.74	-164.57	1,630.64	1,741.73	1,686.11	55.62	31.315		
8,100.00	8,096.18	8,068.55	8,065.65	28.28	28.14	-126.75	-167.47	1,632.80	1,746.41	1,690.08	56.33	31.004		
8,200.00	8,196.09	8,168.44	8,165.48	28.64	28.49	-126.76	-170.37	1,634.96	1,751.09	1,694.05	57.04	30.700		
8,300.00	8,296.01	8,268.33	8,265.30	28.99	28.85	-126.78	-173.26	1,637.12	1,755.77	1,698.02	57.75	30.404		
8,400.00	8,395.92	8,368.22	8,365.13	29.35	29.20	-126.79	-176.16	1,639.27	1,760.44	1,701.99	58.46	30.115		
8,500.00	8,495.83	8,468.11	8,464.95	29.71	29.56	-126.81	-179.06	1,641.43	1,765.12	1,705.95	59.17	29.832		
8,600.00	8,595.75	8,568.00	8,564.77	30.06	29.91	-126.82	-181.96	1,643.59	1,769.80	1,709.92	59.88	29.556		
8,700.00	8,695.66	8,667.89	8,664.60	30.42	30.27	-126.84	-184.85	1,645.75	1,774.48	1,713.89	60.59	29.286		
8,800.00	8,795.58	8,805.28	8,801.95	30.78	30.76	-126.92	-186.98	1,647.33	1,778.15	1,716.70	61.45	28.939		
8,900.00	8,895.49	8,906.61	8,903.29	31.14	31.11	-127.02	-186.98	1,647.33	1,780.65	1,718.49	62.15	28.650		
9,000.00	8,995.40	9,006.53	9,003.20	31.50	31.45	-127.13	-186.98	1,647.33	1,783.15	1,720.29	62.85	28.370		
9,100.00	9,095.32	9,106.44	9,103.12	31.85	31.80	-127.24	-186.98	1,647.33	1,785.66	1,722.10	63.55	28.096		
9,200.00	9,195.23	9,207.58	9,204.20	32.21	32.14	-127.41	-185.04	1,647.32	1,788.15	1,723.89	64.26	27.827		
9,300.00	9,295.14	9,306.37	9,301.47	32.57	32.47	-128.04	-168.48	1,647.20	1,790.65	1,725.71	64.94	27.572		
9,400.00	9,395.06	9,396.10	9,386.18	32.93	32.75	-129.06	-139.17	1,646.99	1,793.68	1,728.10	65.58	27.351		
9,500.00	9,494.97	9,474.25	9,455.46	33.29	32.98	-130.28	-103.13	1,646.73	1,798.03	1,731.88	66.15	27.181		
9,523.61	9,518.56	9,490.95	9,469.59	33.37	33.02	-130.58	-94.23	1,646.66	1,799.35	1,733.08	66.28	27.149		
9,600.00	9,594.91	9,540.91	9,510.22	33.64	33.16	-131.59	-65.19	1,646.46	1,804.07	1,737.42	66.65	27.069		
9,682.09	9,677.00	9,588.32	9,546.30	33.93	33.29	84.83	-34.45	1,646.23	1,809.88	1,742.89	66.98	27.020		
9,700.00	9,694.91	9,600.00	9,554.79	33.99	33.32	84.58	-26.43	1,646.18	1,811.30	1,744.25	67.06	27.012		
9,800.00	9,794.91	9,650.00	9,589.22	34.33	33.45	83.43	9.80	1,645.91	1,821.33	1,753.98	67.35	27.041		
9,900.00	9,894.91	9,686.41	9,612.23	34.68	33.55	82.55	38.01	1,645.71	1,835.15	1,767.64	67.51	27.183		
10,000.00	9,994.91	9,720.55	9,632.15	35.02	33.64	81.68	65.73	1,645.51	1,853.05	1,785.48	67.57	27.425		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	9,730.38	9,637.57	35.13	33.67	81.42	73.93	1,645.45	1,859.70	1,792.13	67.56	27.526		
10,050.00	10,044.90	9,735.76	9,640.48	35.19	33.68	81.30	78.45	1,645.42	1,863.54	1,795.99	67.55	27.586		
10,100.00	10,094.75	9,750.00	9,647.97	35.36	33.72	79.83	90.56	1,645.33	1,874.55	1,807.04	67.51	27.767		
10,150.00	10,144.08	9,767.51	9,656.77	35.53	33.76	78.28	105.70	1,645.22	1,885.82	1,818.36	67.46	27.954		
10,200.00	10,192.52	9,784.28	9,664.76	35.68	33.81	76.77	120.45	1,645.12	1,897.20	1,829.80	67.39	28.152		
10,250.00	10,239.69	9,800.00	9,671.85	35.84	33.85	75.31	134.47	1,645.02	1,908.54	1,841.24	67.30	28.360		
10,300.00	10,285.26	9,819.21	9,679.99	35.98	33.90	73.83	151.87	1,644.89	1,919.70	1,852.48	67.21	28.561		
10,350.00	10,328.85	9,837.24	9,687.10	36.12	33.95	72.45	168.45	1,644.77	1,930.55	1,863.44	67.11	28.765		
10,400.00	10,370.15	9,850.00	9,691.81	36.25	33.99	71.22	180.30	1,644.69	1,941.00	1,874.02	66.98	28.978		
10,450.00	10,408.84	9,874.21	9,700.02	36.37	34.05	69.91	203.07	1,644.52	1,950.86	1,883.94	66.92	29.154		
10,500.00	10,444.62	9,900.00	9,707.70	36.49	34.13	68.70	227.69	1,644.34	1,960.12	1,893.25	66.86	29.315		
10,550.00	10,477.22	9,900.00	9,707.70	36.61	34.13	67.90	227.69	1,644.34	1,968.65	1,901.96	66.69	29.520		
10,600.00	10,506.40	9,931.34	9,715.53	36.73	34.21	66.86	258.03	1,644.13	1,976.20	1,909.51	66.69	29.631		
10,650.00	10,531.93	9,950.00	9,719.40	36.85	34.27	66.08	276.28	1,643.99	1,982.93	1,916.27	66.66	29.749		
10,700.00	10,553.61	9,970.18	9,722.92	36.97	34.32	65.41	296.15	1,643.85	1,988.67	1,922.02	66.65	29.838		
10,750.00	10,571.29	10,000.00	9,726.82	37.10	34.41	64.81	325.71	1,643.64	1,993.44	1,926.73	66.71	29.883		
10,800.00	10,584.83	10,000.00	9,726.82	37.22	34.41	64.48	325.71	1,643.64	1,997.05	1,930.36	66.69	29.947		
10,850.00	10,594.12	10,029.10	9,729.15	37.34	34.49	64.17	354.72	1,643.43	1,999.50	1,932.69	66.81	29.928		
10,900.00	10,599.10	10,050.00	9,729.91	37.47	34.55	64.01	375.60	1,643.28	2,000.86	1,933.92	66.94	29.892		
10,932.14	10,600.00	10,063.31	9,730.00	37.55	34.59	63.98	388.90	1,643.18	2,001.12	1,934.08	67.04	29.851		
11,000.00	10,600.00	10,131.17	9,730.00	37.73	34.80	63.98	456.77	1,642.69	2,001.12	1,933.71	67.40	29.689		
11,100.00	10,600.00	10,231.17	9,730.00	38.04	35.16	63.98	556.77	1,641.97	2,001.11	1,933.09	68.02	29.419		
11,200.00	10,600.00	10,331.17	9,730.00	38.41	35.57	63.98	656.76	1,641.25	2,001.10	1,932.36	68.74	29.110		
11,300.00	10,600.00	10,431.17	9,730.00	38.83	36.03	63.98	756.76	1,640.53	2,001.10	1,931.54	69.56	28.768		
11,400.00	10,600.00	10,531.17	9,730.00	39.30	36.55	63.98	856.76	1,639.81	2,001.09	1,930.62	70.47	28.396		
11,500.00	10,600.00	10,631.17	9,730.00	39.81	37.12	63.98	956.75	1,639.09	2,001.09	1,929.61	71.47	27.997		
11,600.00	10,600.00	10,731.17	9,730.00	40.37	37.73	63.98	1,056.75	1,638.37	2,001.08	1,928.51	72.57	27.576		
11,700.00	10,600.00	10,831.17	9,730.00	40.98	38.39	63.98	1,156.75	1,637.65	2,001.07	1,927.33	73.74	27.137		
11,800.00	10,600.00	10,931.17	9,730.00	41.62	39.10	63.98	1,256.75	1,636.93	2,001.07	1,926.08	74.99	26.684		
11,900.00	10,600.00	11,031.17	9,730.00	42.31	39.84	63.98	1,356.74	1,636.21	2,001.06	1,924.74	76.32	26.219		
12,000.00	10,600.00	11,131.17	9,730.00	43.04	40.62	63.98	1,456.74	1,635.49	2,001.05	1,923.33	77.72	25.747		
12,100.00	10,600.00	11,231.17	9,730.00	43.80	41.44	63.98	1,556.74	1,634.77	2,001.05	1,921.86	79.19	25.270		
12,200.00	10,600.00	11,331.17	9,730.00	44.60	42.29	63.98	1,656.74	1,634.05	2,001.04	1,920.32	80.72	24.790		
12,300.00	10,600.00	11,431.17	9,730.00	45.43	43.18	63.98	1,756.73	1,633.32	2,001.04	1,918.72	82.31	24.311		
12,400.00	10,600.00	11,531.17	9,730.00	46.29	44.10	63.98	1,856.73	1,632.60	2,001.03	1,917.07	83.96	23.833		
12,500.00	10,600.00	11,631.17	9,730.00	47.17	45.04	63.98	1,956.73	1,631.88	2,001.02	1,915.36	85.66	23.359		
12,600.00	10,600.00	11,731.17	9,730.00	48.09	46.01	63.98	2,056.73	1,631.16	2,001.02	1,913.60	87.42	22.891		
12,700.00	10,600.00	11,831.17	9,730.00	49.04	47.01	63.98	2,156.72	1,630.44	2,001.01	1,911.79	89.22	22.428		
12,800.00	10,600.00	11,931.17	9,730.00	50.00	48.03	63.98	2,256.72	1,629.72	2,001.00	1,909.94	91.06	21.974		
12,900.00	10,600.00	12,031.17	9,730.00	50.99	49.07	63.98	2,356.72	1,629.00	2,001.00	1,908.05	92.95	21.527		
13,000.00	10,600.00	12,131.17	9,730.00	52.01	50.13	63.98	2,456.72	1,628.28	2,000.99	1,906.11	94.88	21.090		
13,100.00	10,600.00	12,231.17	9,730.00	53.04	51.21	63.98	2,556.71	1,627.56	2,000.99	1,904.14	96.84	20.662		
13,200.00	10,600.00	12,331.17	9,730.00	54.09	52.31	63.98	2,656.71	1,626.84	2,000.98	1,902.14	98.84	20.244		
13,300.00	10,600.00	12,431.17	9,730.00	55.16	53.43	63.98	2,756.71	1,626.12	2,000.97	1,900.10	100.88	19.836		
13,400.00	10,600.00	12,531.17	9,730.00	56.25	54.56	63.98	2,856.71	1,625.40	2,000.97	1,898.03	102.94	19.438		
13,500.00	10,600.00	12,631.17	9,730.00	57.36	55.71	63.98	2,956.70	1,624.68	2,000.96	1,895.93	105.04	19.050		
13,600.00	10,600.00	12,731.17	9,730.00	58.48	56.87	63.98	3,056.70	1,623.96	2,000.96	1,893.80	107.16	18.673		
13,700.00	10,600.00	12,831.17	9,730.00	59.61	58.05	63.98	3,156.70	1,623.23	2,000.95	1,891.65	109.30	18.307		
13,800.00	10,600.00	12,931.17	9,730.00	60.76	59.24	63.98	3,256.70	1,622.51	2,000.94	1,889.47	111.47	17.950		
13,900.00	10,600.00	13,031.17	9,730.00	61.92	60.44	63.98	3,356.69	1,621.79	2,000.94	1,887.27	113.67	17.603		
14,000.00	10,600.00	13,131.17	9,730.00	63.10	61.65	63.98	3,456.69	1,621.07	2,000.93	1,885.05	115.88	17.267		
14,100.00	10,600.00	13,231.17	9,730.00	64.28	62.87	63.98	3,556.69	1,620.35	2,000.92	1,882.81	118.12	16.940		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	13,331.17	9,730.00	65.48	64.10	63.98	3,656.68	1,619.63	2,000.92	1,880.54	120.37	16.623	
14,300.00	10,600.00	13,431.17	9,730.00	66.68	65.34	63.98	3,756.68	1,618.91	2,000.91	1,878.26	122.65	16.314	
14,400.00	10,600.00	13,531.17	9,730.00	67.90	66.59	63.98	3,856.68	1,618.19	2,000.91	1,875.97	124.94	16.015	
14,500.00	10,600.00	13,631.17	9,730.00	69.13	67.84	63.98	3,956.68	1,617.47	2,000.90	1,873.65	127.25	15.725	
14,600.00	10,600.00	13,731.17	9,730.00	70.36	69.11	63.98	4,056.67	1,616.75	2,000.89	1,871.32	129.57	15.443	
14,700.00	10,600.00	13,831.17	9,730.00	71.60	70.38	63.98	4,156.67	1,616.03	2,000.89	1,868.98	131.91	15.169	
14,800.00	10,600.00	13,931.17	9,730.00	72.85	71.66	63.98	4,256.67	1,615.31	2,000.88	1,866.62	134.26	14.903	
14,900.00	10,600.00	14,031.17	9,730.00	74.11	72.95	63.98	4,356.67	1,614.59	2,000.87	1,864.25	136.62	14.645	
15,000.00	10,600.00	14,131.17	9,730.00	75.38	74.24	63.98	4,456.66	1,613.87	2,000.87	1,861.87	139.00	14.395	
15,100.00	10,600.00	14,231.17	9,730.00	76.65	75.54	63.98	4,556.66	1,613.15	2,000.86	1,859.48	141.39	14.152	
15,200.00	10,600.00	14,331.17	9,730.00	77.93	76.84	63.98	4,656.66	1,612.42	2,000.86	1,857.07	143.79	13.915	
15,300.00	10,600.00	14,431.17	9,730.00	79.21	78.15	63.98	4,756.66	1,611.70	2,000.85	1,854.65	146.20	13.686	
15,400.00	10,600.00	14,531.17	9,730.00	80.50	79.47	63.98	4,856.65	1,610.98	2,000.84	1,852.23	148.62	13.463	
15,500.00	10,600.00	14,631.17	9,730.00	81.80	80.79	63.98	4,956.65	1,610.26	2,000.84	1,849.79	151.05	13.246	
15,575.11	10,600.00	14,706.28	9,730.00	82.77	81.78	63.98	5,031.76	1,609.72	2,000.83	1,847.95	152.88	13.088 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.10	0.10	0.50	0.50	89.64	0.19	30.00	30.00					
100.00	100.00	100.10	100.10	0.52	0.52	89.64	0.19	30.00	30.00	28.97	1.04	28.969		
200.00	200.00	200.10	200.10	0.70	0.70	89.64	0.19	30.00	30.00	28.60	1.40	21.361		
300.00	300.00	300.10	300.10	0.99	0.99	89.64	0.19	30.00	30.00	28.03	1.97	15.190		
400.00	400.00	400.10	400.10	1.31	1.31	89.64	0.19	30.00	30.00	27.38	2.62	11.457		
500.00	500.00	500.10	500.10	1.65	1.65	89.64	0.19	30.00	30.00	26.71	3.29	9.112		
600.00	600.00	600.10	600.10	1.99	1.99	89.64	0.19	30.00	30.00	26.02	3.98	7.535		
700.00	700.00	700.10	700.10	2.34	2.34	89.64	0.19	30.00	30.00	25.32	4.68	6.412		
800.00	800.00	800.10	800.10	2.69	2.69	89.64	0.19	30.00	30.00	24.62	5.38	5.575		
900.00	900.00	900.10	900.10	3.04	3.04	89.64	0.19	30.00	30.00	23.91	6.09	4.928 Alert		
1,000.00	1,000.00	1,000.10	1,000.10	3.40	3.40	89.64	0.19	30.00	30.00	23.20	6.80	4.415 Alert		
1,100.00	1,100.00	1,100.10	1,100.10	3.75	3.75	89.64	0.19	30.00	30.00	22.50	7.51	3.997 Alert		
1,200.00	1,200.00	1,200.10	1,200.10	4.11	4.11	89.64	0.19	30.00	30.00	21.78	8.22	3.651 Alert		
1,300.00	1,300.00	1,300.10	1,300.10	4.46	4.46	89.64	0.19	30.00	30.00	21.07	8.93	3.360 Alert		
1,400.00	1,400.00	1,400.10	1,400.10	4.82	4.82	89.64	0.19	30.00	30.00	20.36	9.64	3.112 Alert		
1,500.00	1,500.00	1,500.10	1,500.10	5.18	5.18	89.64	0.19	30.00	30.00	19.65	10.35	2.897 Alert		
1,600.00	1,600.00	1,600.10	1,600.10	5.53	5.53	89.64	0.19	30.00	30.00	18.93	11.07	2.710 Alert		
1,700.00	1,700.00	1,700.10	1,700.10	5.89	5.89	89.64	0.19	30.00	30.00	18.22	11.78	2.546 Alert		
1,800.00	1,800.00	1,800.10	1,800.10	6.25	6.25	89.64	0.19	30.00	30.00	17.50	12.50	2.401 Minor Risk		
1,900.00	1,900.00	1,900.10	1,900.10	6.61	6.61	89.64	0.19	30.00	30.00	16.79	13.21	2.271 Minor Risk		
2,000.00	2,000.00	2,000.10	2,000.10	6.96	6.96	89.64	0.19	30.00	30.00	16.07	13.93	2.154 Minor Risk		
2,100.00	2,100.00	2,100.10	2,100.10	7.32	7.32	89.64	0.19	30.00	30.00	15.36	14.64	2.049 Minor Risk		
2,200.00	2,200.00	2,200.10	2,200.10	7.68	7.68	89.64	0.19	30.00	30.00	14.64	15.36	1.953 Minor Risk, CC, ES		
2,300.00	2,300.00	2,299.58	2,299.58	8.04	8.02	89.97	0.01	30.85	30.85	14.79	16.06	1.921 Minor Risk, SF		
2,400.00	2,400.00	2,399.00	2,398.96	8.39	8.36	90.88	-0.51	33.38	33.41	16.66	16.75	1.995 Minor Risk		
2,500.00	2,500.00	2,498.30	2,498.17	8.75	8.70	92.11	-1.39	37.60	37.68	20.25	17.43	2.162 Minor Risk		
2,600.00	2,600.00	2,597.42	2,597.10	9.11	9.04	93.43	-2.61	43.49	43.67	25.56	18.11	2.412 Minor Risk		
2,700.00	2,700.00	2,696.31	2,696.69	9.47	9.38	94.68	-4.18	51.03	51.39	32.61	18.78	2.736 Alert		
2,800.00	2,800.00	2,794.90	2,793.83	9.83	9.72	95.77	-6.08	60.21	60.84	41.39	19.45	3.128 Alert		
2,900.00	2,900.00	2,893.13	2,891.44	10.18	10.07	96.68	-8.32	71.00	72.01	51.89	20.12	3.580 Alert		
3,000.00	3,000.00	2,990.96	2,988.45	10.54	10.42	97.44	-10.89	83.37	84.88	64.11	20.77	4.086 Alert		
3,100.00	3,100.00	3,089.66	3,086.17	10.90	10.78	98.05	-13.71	96.97	98.92	77.46	21.46	4.609 Alert		
3,200.00	3,200.00	3,188.66	3,184.18	11.26	11.14	98.51	-16.55	110.65	113.01	90.85	22.16	5.099		
3,300.00	3,300.00	3,287.66	3,282.19	11.62	11.50	98.86	-19.39	124.33	127.10	104.24	22.86	5.559		
3,400.00	3,400.00	3,386.66	3,380.20	11.97	11.87	99.15	-22.23	138.01	141.20	117.63	23.57	5.991		
3,500.00	3,500.00	3,485.66	3,478.20	12.33	12.24	99.38	-25.07	151.69	155.30	131.02	24.27	6.398		
3,600.00	3,600.00	3,584.60	3,576.15	12.67	12.61	-118.02	-27.91	165.36	169.80	144.84	24.96	6.803		
3,700.00	3,699.96	3,683.40	3,673.97	13.00	12.98	-118.43	-30.74	179.01	185.13	159.49	25.63	7.222		
3,737.73	3,737.66	3,720.64	3,710.83	13.13	13.12	-118.67	-31.81	184.15	191.13	165.24	25.89	7.382		
3,800.00	3,799.88	3,782.08	3,771.66	13.33	13.35	-119.18	-33.57	192.64	201.14	174.83	26.31	7.645		
3,900.00	3,899.79	3,880.74	3,869.33	13.66	13.73	-119.91	-36.40	206.27	217.25	190.26	26.99	8.049		
4,000.00	3,999.71	3,979.40	3,967.00	13.99	14.11	-120.53	-39.23	219.90	233.38	205.71	27.67	8.434		
4,100.00	4,099.62	4,078.06	4,064.67	14.32	14.49	-121.07	-42.06	233.54	249.55	221.19	28.35	8.801		
4,200.00	4,199.53	4,176.72	4,162.35	14.66	14.87	-121.54	-44.89	247.17	265.72	236.68	29.04	9.150		
4,300.00	4,299.45	4,275.38	4,260.02	15.00	15.25	-121.96	-47.72	260.80	281.92	252.19	29.73	9.483		
4,400.00	4,399.36	4,374.04	4,357.69	15.33	15.63	-122.34	-50.55	274.43	298.13	267.71	30.42	9.801		
4,500.00	4,499.28	4,472.70	4,455.36	15.67	16.01	-122.67	-53.38	288.06	314.35	283.24	31.11	10.104		
4,600.00	4,599.19	4,571.36	4,553.04	16.01	16.40	-122.98	-56.21	301.69	330.58	298.77	31.80	10.394		
4,700.00	4,699.10	4,670.02	4,650.71	16.35	16.79	-123.25	-59.04	315.32	346.81	314.31	32.50	10.672		
4,800.00	4,799.02	4,768.68	4,748.38	16.69	17.17	-123.50	-61.87	328.95	363.06	329.86	33.20	10.937		
4,900.00	4,898.93	4,867.34	4,846.06	17.04	17.56	-123.73	-64.70	342.59	379.31	345.42	33.89	11.191		
5,000.00	4,998.85	4,966.00	4,943.73	17.38	17.95	-123.94	-67.53	356.22	395.56	360.97	34.59	11.435		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	5,064.66	5,041.40	17.72	18.34	-124.13	-70.36	369.85	411.82	376.53	35.29	11.669		
5,200.00	5,198.67	5,163.32	5,139.07	18.07	18.73	-124.31	-73.19	383.48	428.09	392.10	35.99	11.893		
5,300.00	5,298.59	5,261.98	5,236.75	18.41	19.12	-124.48	-76.02	397.11	444.36	407.66	36.70	12.109		
5,400.00	5,398.50	5,360.64	5,334.42	18.76	19.51	-124.63	-78.85	410.74	460.63	423.23	37.40	12.316		
5,500.00	5,498.42	5,459.30	5,432.09	19.11	19.90	-124.78	-81.68	424.37	476.90	438.80	38.11	12.515		
5,600.00	5,598.33	5,557.96	5,529.76	19.45	20.29	-124.91	-84.51	438.01	493.18	454.37	38.81	12.707		
5,700.00	5,698.24	5,656.62	5,627.44	19.80	20.68	-125.04	-87.34	451.64	509.46	469.95	39.52	12.892		
5,800.00	5,798.16	5,755.28	5,725.11	20.15	21.08	-125.15	-90.17	465.27	525.74	485.52	40.22	13.070		
5,900.00	5,898.07	5,853.94	5,822.78	20.50	21.47	-125.26	-93.00	478.90	542.03	501.10	40.93	13.242		
6,000.00	5,997.98	5,952.60	5,920.46	20.85	21.86	-125.37	-95.83	492.53	558.32	516.67	41.64	13.408		
6,100.00	6,097.90	6,051.26	6,018.13	21.20	22.26	-125.47	-98.66	506.16	574.60	532.25	42.35	13.568		
6,200.00	6,197.81	6,149.92	6,115.80	21.55	22.65	-125.56	-101.48	519.79	590.89	547.83	43.06	13.722		
6,300.00	6,297.73	6,248.57	6,213.47	21.90	23.05	-125.65	-104.31	533.43	607.18	563.41	43.77	13.871		
6,400.00	6,397.64	6,347.23	6,311.15	22.25	23.44	-125.73	-107.14	547.06	623.48	578.99	44.48	14.016		
6,500.00	6,497.55	6,445.89	6,408.82	22.61	23.84	-125.81	-109.97	560.69	639.77	594.57	45.20	14.155		
6,600.00	6,597.47	6,544.55	6,506.49	22.96	24.23	-125.88	-112.80	574.32	656.06	610.15	45.91	14.290		
6,700.00	6,697.38	6,643.21	6,604.16	23.31	24.63	-125.95	-115.63	587.95	672.36	625.74	46.62	14.421		
6,800.00	6,797.30	6,741.87	6,701.84	23.66	25.03	-126.02	-118.46	601.58	688.66	641.32	47.34	14.548		
6,900.00	6,897.21	6,840.53	6,799.51	24.02	25.42	-126.09	-121.29	615.21	704.95	656.90	48.05	14.671		
7,000.00	6,997.12	6,939.19	6,897.18	24.37	25.82	-126.15	-124.12	628.85	721.25	672.49	48.77	14.790		
7,100.00	7,097.04	7,037.85	6,994.86	24.73	26.22	-126.21	-126.95	642.48	737.55	688.07	49.48	14.906		
7,200.00	7,196.95	7,136.51	7,092.53	25.08	26.62	-126.27	-129.78	656.11	753.85	703.65	50.20	15.018		
7,300.00	7,296.87	7,235.17	7,190.20	25.43	27.01	-126.32	-132.61	669.74	770.15	719.24	50.91	15.127		
7,400.00	7,396.78	7,333.83	7,287.87	25.79	27.41	-126.37	-135.44	683.37	786.45	734.82	51.63	15.232		
7,500.00	7,496.69	7,432.49	7,385.55	26.14	27.81	-126.42	-138.27	697.00	802.75	750.41	52.35	15.335		
7,600.00	7,596.61	7,531.15	7,483.22	26.50	28.21	-126.47	-141.10	710.63	819.06	765.99	53.06	15.435		
7,700.00	7,696.52	7,629.81	7,580.89	26.86	28.61	-126.52	-143.93	724.26	835.36	781.58	53.78	15.532		
7,800.00	7,796.44	7,728.47	7,678.56	27.21	29.00	-126.56	-146.76	737.90	851.66	797.16	54.50	15.627		
7,900.00	7,896.35	7,827.13	7,776.24	27.57	29.40	-126.60	-149.59	751.53	867.97	812.75	55.22	15.719		
8,000.00	7,996.26	7,925.79	7,873.91	27.92	29.80	-126.64	-152.42	765.16	884.27	828.33	55.94	15.808		
8,100.00	8,096.18	8,024.45	7,971.58	28.28	30.20	-126.68	-155.25	778.79	900.58	843.92	56.66	15.895		
8,200.00	8,196.09	8,123.11	8,069.26	28.64	30.60	-126.72	-158.08	792.42	916.88	859.50	57.38	15.980		
8,300.00	8,296.01	8,221.77	8,166.93	28.99	31.00	-126.76	-160.91	806.05	933.19	875.09	58.10	16.063		
8,400.00	8,395.92	8,320.43	8,264.60	29.35	31.40	-126.79	-163.74	819.68	949.49	890.67	58.82	16.143		
8,500.00	8,495.83	8,419.09	8,362.27	29.71	31.80	-126.83	-166.57	833.32	965.80	906.26	59.54	16.222		
8,600.00	8,595.75	8,517.75	8,459.95	30.06	32.20	-126.86	-169.40	846.95	982.10	921.85	60.26	16.298		
8,700.00	8,695.66	8,616.41	8,557.62	30.42	32.60	-126.89	-172.23	860.58	998.41	937.43	60.98	16.373		
8,800.00	8,795.58	8,715.07	8,655.29	30.78	33.00	-126.92	-175.06	874.21	1,014.72	953.02	61.70	16.446		
8,900.00	8,895.49	8,813.73	8,752.97	31.14	33.40	-126.96	-177.89	887.84	1,031.03	968.60	62.42	16.517		
9,000.00	8,995.40	8,912.39	8,850.64	31.50	33.80	-126.98	-180.72	901.47	1,047.33	984.19	63.14	16.586		
9,100.00	9,095.32	9,011.05	8,948.31	31.85	34.20	-127.01	-183.55	915.10	1,063.64	999.78	63.87	16.654		
9,200.00	9,195.23	9,109.71	9,045.98	32.21	34.60	-127.04	-186.38	928.74	1,079.95	1,015.36	64.59	16.721		
9,300.00	9,295.14	9,210.61	9,145.87	32.57	35.01	-127.07	-189.27	942.67	1,096.25	1,030.92	65.33	16.781		
9,400.00	9,395.06	9,348.65	9,282.89	32.93	35.55	-127.13	-192.67	959.04	1,110.61	1,044.29	66.32	16.745		
9,500.00	9,494.97	9,487.91	9,421.64	33.29	36.08	-127.25	-195.07	970.63	1,121.45	1,054.19	67.26	16.674		
9,523.61	9,518.56	9,520.93	9,454.59	33.37	36.20	-127.28	-195.49	972.65	1,123.48	1,056.02	67.47	16.652		
9,600.00	9,594.91	9,628.10	9,561.65	33.64	36.58	-127.43	-196.46	977.29	1,128.25	1,060.13	68.12	16.562		
9,682.09	9,677.00	9,743.61	9,677.14	33.93	36.96	89.99	-196.81	979.00	1,130.00	1,061.23	68.77	16.431		
9,688.39	9,683.29	9,752.47	9,686.00	33.95	36.99	89.99	-196.81	978.99	1,129.99	1,061.17	68.82	16.420		
9,700.00	9,694.91	9,761.47	9,695.01	33.99	37.02	89.99	-196.81	979.00	1,130.00	1,061.11	68.89	16.402		
9,800.00	9,794.91	9,861.47	9,795.01	34.33	37.34	89.99	-196.81	979.00	1,130.00	1,060.43	69.57	16.243		
9,900.00	9,894.91	9,961.47	9,895.01	34.68	37.67	89.99	-196.81	979.00	1,130.00	1,059.75	70.25	16.086		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,000.00	9,994.91	10,061.47	9,995.01	35.02	37.99	89.99	-196.81	979.00	1,130.00	1,059.07	70.93	15.932		
10,032.13	10,027.04	10,093.61	10,027.14	35.13	38.09	89.99	-196.81	979.00	1,130.00	1,058.85	71.15	15.883		
10,050.00	10,044.90	10,111.72	10,045.25	35.19	38.15	90.40	-196.52	979.00	1,130.00	1,058.73	71.27	15.856		
10,100.00	10,094.75	10,162.42	10,095.78	35.36	38.31	90.40	-192.67	978.97	1,130.00	1,058.40	71.60	15.782		
10,150.00	10,144.08	10,213.10	10,145.77	35.53	38.47	90.39	-184.37	978.91	1,130.00	1,058.07	71.93	15.710		
10,200.00	10,192.52	10,263.77	10,194.81	35.68	38.61	90.38	-171.70	978.82	1,130.00	1,057.76	72.24	15.642		
10,250.00	10,239.69	10,314.42	10,242.53	35.84	38.75	90.37	-154.75	978.70	1,130.00	1,057.45	72.54	15.577		
10,300.00	10,285.26	10,365.05	10,288.54	35.98	38.88	90.35	-133.66	978.55	1,129.99	1,057.16	72.84	15.514		
10,350.00	10,328.85	10,415.65	10,332.48	36.12	38.99	90.34	-108.61	978.37	1,129.99	1,056.88	73.12	15.455		
10,400.00	10,370.15	10,466.22	10,374.02	36.25	39.09	90.32	-79.80	978.17	1,129.99	1,056.60	73.39	15.398		
10,450.00	10,408.84	10,516.75	10,412.83	36.37	39.18	90.29	-47.47	977.93	1,129.99	1,056.34	73.65	15.343		
10,500.00	10,444.62	10,567.23	10,448.61	36.49	39.25	90.27	-11.88	977.68	1,129.99	1,056.08	73.90	15.290		
10,550.00	10,477.22	10,617.67	10,481.09	36.61	39.31	90.24	26.68	977.41	1,129.98	1,055.83	74.15	15.239		
10,600.00	10,506.40	10,668.06	10,510.03	36.73	39.36	90.21	67.92	977.11	1,129.98	1,055.59	74.40	15.189		
10,650.00	10,531.93	10,718.40	10,535.21	36.85	39.40	90.18	111.48	976.80	1,129.98	1,055.34	74.64	15.140		
10,700.00	10,553.61	10,768.68	10,556.45	36.97	39.42	90.15	157.04	976.48	1,129.98	1,055.10	74.88	15.091		
10,750.00	10,571.29	10,818.91	10,573.60	37.10	39.44	90.12	204.23	976.14	1,129.98	1,054.86	75.12	15.043		
10,800.00	10,584.83	10,869.08	10,586.54	37.22	39.46	90.08	252.69	975.79	1,129.98	1,054.62	75.36	14.995		
10,850.00	10,594.12	10,919.19	10,595.19	37.34	39.47	90.05	302.03	975.44	1,129.98	1,054.38	75.60	14.947		
10,890.34	10,598.48	10,959.58	10,598.99	37.44	39.49	90.02	342.23	975.16	1,129.98	1,054.19	75.79	14.909		
10,900.00	10,599.10	10,969.24	10,599.49	37.47	39.50	90.01	351.87	975.09	1,129.98	1,054.14	75.84	14.900		
10,932.14	10,600.00	11,001.38	10,600.00	37.55	39.52	89.99	384.00	974.86	1,129.98	1,053.99	75.99	14.870		
11,000.00	10,600.00	11,069.24	10,600.00	37.73	39.58	89.99	451.87	974.37	1,129.98	1,053.63	76.34	14.801		
11,100.00	10,600.00	11,169.24	10,600.00	38.04	39.75	89.99	551.86	973.66	1,129.98	1,053.03	76.95	14.685		
11,200.00	10,600.00	11,269.24	10,600.00	38.41	40.02	89.99	651.86	972.95	1,129.98	1,052.32	77.66	14.551		
11,300.00	10,600.00	11,369.24	10,600.00	38.83	40.36	89.99	751.86	972.23	1,129.98	1,051.51	78.47	14.400		
11,400.00	10,600.00	11,469.24	10,600.00	39.30	40.78	89.99	851.86	971.52	1,129.98	1,050.60	79.38	14.235		
11,500.00	10,600.00	11,569.24	10,600.00	39.81	41.26	89.99	951.85	970.81	1,129.98	1,049.60	80.38	14.058		
11,600.00	10,600.00	11,669.24	10,600.00	40.37	41.79	89.99	1,051.85	970.09	1,129.98	1,048.50	81.48	13.868		
11,700.00	10,600.00	11,769.24	10,600.00	40.98	42.36	89.99	1,151.85	969.38	1,129.98	1,047.32	82.66	13.670		
11,800.00	10,600.00	11,869.24	10,600.00	41.62	42.98	89.99	1,251.85	968.67	1,129.98	1,046.05	83.93	13.463		
11,900.00	10,600.00	11,969.24	10,600.00	42.31	43.64	89.99	1,351.84	967.95	1,129.98	1,044.70	85.28	13.250		
12,000.00	10,600.00	12,069.24	10,600.00	43.04	44.34	89.99	1,451.84	967.24	1,129.98	1,043.27	86.71	13.032		
12,100.00	10,600.00	12,169.24	10,600.00	43.80	45.07	89.99	1,551.84	966.53	1,129.98	1,041.78	88.21	12.811		
12,200.00	10,600.00	12,269.24	10,600.00	44.60	45.84	89.99	1,651.84	965.81	1,129.98	1,040.21	89.78	12.587		
12,300.00	10,600.00	12,369.24	10,600.00	45.43	46.64	89.99	1,751.83	965.10	1,129.98	1,038.57	91.41	12.362		
12,400.00	10,600.00	12,469.24	10,600.00	46.29	47.47	89.99	1,851.83	964.39	1,129.98	1,036.88	93.11	12.136		
12,500.00	10,600.00	12,569.24	10,600.00	47.17	48.33	89.99	1,951.83	963.67	1,129.98	1,035.12	94.86	11.912		
12,600.00	10,600.00	12,669.24	10,600.00	48.09	49.22	89.99	2,051.83	962.96	1,129.98	1,033.31	96.67	11.689		
12,700.00	10,600.00	12,769.24	10,600.00	49.04	50.14	89.99	2,151.82	962.25	1,129.98	1,031.45	98.54	11.467		
12,800.00	10,600.00	12,869.24	10,600.00	50.00	51.08	89.99	2,251.82	961.53	1,129.99	1,029.53	100.45	11.249		
12,900.00	10,600.00	12,969.24	10,600.00	50.99	52.04	89.99	2,351.82	960.82	1,129.99	1,027.57	102.42	11.033		
13,000.00	10,600.00	13,069.24	10,600.00	52.01	53.03	89.99	2,451.82	960.11	1,129.99	1,025.56	104.42	10.821		
13,100.00	10,600.00	13,169.24	10,600.00	53.04	54.03	89.99	2,551.81	959.39	1,129.99	1,023.52	106.47	10.613		
13,200.00	10,600.00	13,269.24	10,600.00	54.09	55.06	89.99	2,651.81	958.68	1,129.99	1,021.43	108.56	10.409		
13,300.00	10,600.00	13,369.24	10,600.00	55.16	56.11	89.99	2,751.81	957.97	1,129.99	1,019.31	110.68	10.209		
13,400.00	10,600.00	13,469.24	10,600.00	56.25	57.17	89.99	2,851.81	957.25	1,129.99	1,017.15	112.84	10.014		
13,500.00	10,600.00	13,569.24	10,600.00	57.36	58.25	89.99	2,951.80	956.54	1,129.99	1,014.95	115.03	9.823		
13,600.00	10,600.00	13,669.24	10,600.00	58.48	59.35	89.99	3,051.80	955.83	1,129.99	1,012.73	117.26	9.637		
13,700.00	10,600.00	13,769.24	10,600.00	59.61	60.46	89.99	3,151.80	955.11	1,129.99	1,010.48	119.51	9.455		
13,800.00	10,600.00	13,869.24	10,600.00	60.76	61.58	89.99	3,251.80	954.40	1,129.99	1,008.20	121.79	9.278		
13,900.00	10,600.00	13,969.24	10,600.00	61.92	62.72	89.99	3,351.79	953.69	1,129.99	1,005.89	124.10	9.105		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	14,069.24	10,600.00	63.10	63.87	89.99	3,451.79	952.98	1,129.99	1,003.56	126.44	8.937	
14,100.00	10,600.00	14,169.24	10,600.00	64.28	65.04	89.99	3,551.79	952.26	1,129.99	1,001.20	128.79	8.774	
14,200.00	10,600.00	14,269.24	10,600.00	65.48	66.21	89.99	3,651.79	951.55	1,129.99	998.82	131.17	8.615	
14,300.00	10,600.00	14,369.24	10,600.00	66.68	67.40	89.99	3,751.78	950.84	1,129.99	996.42	133.57	8.460	
14,400.00	10,600.00	14,469.24	10,600.00	67.90	68.60	89.99	3,851.78	950.12	1,129.99	994.00	135.99	8.309	
14,500.00	10,600.00	14,569.24	10,600.00	69.13	69.80	89.99	3,951.78	949.41	1,129.99	991.56	138.43	8.163	
14,600.00	10,600.00	14,669.24	10,600.00	70.36	71.02	89.99	4,051.78	948.70	1,129.99	989.11	140.89	8.021	
14,700.00	10,600.00	14,769.24	10,600.00	71.60	72.24	89.99	4,151.77	947.98	1,129.99	986.63	143.36	7.882	
14,800.00	10,600.00	14,869.24	10,600.00	72.85	73.48	89.99	4,251.77	947.27	1,130.00	984.14	145.85	7.748	
14,900.00	10,600.00	14,969.24	10,600.00	74.11	74.72	89.99	4,351.77	946.56	1,130.00	981.64	148.36	7.617	
15,000.00	10,600.00	15,069.24	10,600.00	75.38	75.97	89.99	4,451.77	945.84	1,130.00	979.12	150.88	7.489	
15,100.00	10,600.00	15,169.24	10,600.00	76.65	77.22	89.99	4,551.76	945.13	1,130.00	976.58	153.41	7.366	
15,200.00	10,600.00	15,269.24	10,600.00	77.93	78.48	89.99	4,651.76	944.42	1,130.00	974.04	155.96	7.245	
15,300.00	10,600.00	15,369.24	10,600.00	79.21	79.75	89.99	4,751.76	943.70	1,130.00	971.48	158.52	7.128	
15,400.00	10,600.00	15,469.24	10,600.00	80.50	81.03	89.99	4,851.76	942.99	1,130.00	968.91	161.09	7.015	
15,500.00	10,600.00	15,569.24	10,600.00	81.80	82.31	89.99	4,951.75	942.28	1,130.00	966.32	163.68	6.904	
15,506.72	10,600.00	15,575.96	10,600.00	81.89	82.40	89.99	4,958.47	942.23	1,130.00	966.15	163.85	6.897	
15,575.11	10,600.00	15,639.91	10,600.00	82.77	83.22	89.99	5,022.42	941.77	1,130.01	964.42	165.59	6.824	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	6.20	6.20	0.50	0.50	91.35	-37.58	1,596.33	1,596.78					
100.00	100.00	106.20	106.20	0.52	0.52	91.35	-37.58	1,596.33	1,596.78	1,595.73	1.04	1,532.825		
200.00	200.00	206.20	206.20	0.70	0.72	91.35	-37.58	1,596.33	1,596.78	1,595.36	1.42	1,124.503		
300.00	300.00	306.20	306.20	0.99	1.01	91.35	-37.58	1,596.33	1,596.78	1,594.78	1.99	800.831		
400.00	400.00	406.20	406.20	1.31	1.33	91.35	-37.58	1,596.33	1,596.78	1,594.14	2.64	605.126		
500.00	500.00	506.20	506.20	1.65	1.67	91.35	-37.58	1,596.33	1,596.78	1,593.46	3.31	481.920		
600.00	600.00	606.20	606.20	1.99	2.01	91.35	-37.58	1,596.33	1,596.78	1,592.77	4.00	398.922		
700.00	700.00	706.20	706.20	2.34	2.36	91.35	-37.58	1,596.33	1,596.78	1,592.08	4.70	339.714		
800.00	800.00	806.20	806.20	2.69	2.71	91.35	-37.58	1,596.33	1,596.78	1,591.37	5.40	295.533		
900.00	900.00	906.20	906.20	3.04	3.07	91.35	-37.58	1,596.33	1,596.78	1,590.67	6.11	261.380		
1,000.00	1,000.00	1,006.20	1,006.20	3.40	3.42	91.35	-37.58	1,596.33	1,596.78	1,589.96	6.82	234.224		
1,100.00	1,100.00	1,106.20	1,106.20	3.75	3.77	91.35	-37.58	1,596.33	1,596.78	1,589.25	7.53	212.133		
1,200.00	1,200.00	1,206.20	1,206.20	4.11	4.13	91.35	-37.58	1,596.33	1,596.78	1,588.54	8.24	193.822		
1,300.00	1,300.00	1,306.20	1,306.20	4.46	4.49	91.35	-37.58	1,596.33	1,596.78	1,587.83	8.95	178.402		
1,400.00	1,400.00	1,406.20	1,406.20	4.82	4.84	91.35	-37.58	1,596.33	1,596.78	1,587.11	9.66	165.243		
1,500.00	1,500.00	1,506.20	1,506.20	5.18	5.20	91.35	-37.58	1,596.33	1,596.78	1,586.40	10.38	153.883		
1,600.00	1,600.00	1,606.20	1,606.20	5.53	5.56	91.35	-37.58	1,596.33	1,596.78	1,585.69	11.09	143.978		
1,700.00	1,700.00	1,706.20	1,706.20	5.89	5.91	91.35	-37.58	1,596.33	1,596.78	1,584.97	11.80	135.267		
1,800.00	1,800.00	1,806.20	1,806.20	6.25	6.27	91.35	-37.58	1,596.33	1,596.78	1,584.26	12.52	127.547		
1,900.00	1,900.00	1,906.20	1,906.20	6.61	6.63	91.35	-37.58	1,596.33	1,596.78	1,583.54	13.23	120.658		
2,000.00	2,000.00	2,006.20	2,006.20	6.96	6.99	91.35	-37.58	1,596.33	1,596.78	1,582.83	13.95	114.473 CC, ES		
2,100.00	2,100.00	2,083.10	2,083.09	7.32	7.25	91.35	-37.64	1,596.93	1,597.54	1,582.97	14.57	109.631		
2,200.00	2,200.00	2,161.31	2,161.29	7.68	7.52	91.35	-37.80	1,598.59	1,599.67	1,584.48	15.19	105.292		
2,300.00	2,300.00	2,239.46	2,239.39	8.04	7.79	91.36	-38.06	1,601.31	1,603.16	1,587.35	15.81	101.402		
2,400.00	2,400.00	2,317.52	2,317.36	8.39	8.05	91.37	-38.42	1,605.09	1,608.00	1,591.58	16.43	97.900		
2,500.00	2,500.00	2,405.50	2,393.92	8.75	8.36	91.38	-38.87	1,609.83	1,614.20	1,597.13	17.07	94.558		
2,600.00	2,600.00	2,493.99	2,493.44	9.11	8.66	91.40	-39.54	1,616.75	1,621.16	1,603.43	17.73	91.424		
2,700.00	2,700.00	2,606.25	2,592.95	9.47	9.06	91.42	-40.20	1,623.68	1,628.12	1,609.64	18.48	88.117		
2,800.00	2,800.00	2,706.50	2,692.46	9.83	9.41	91.44	-40.87	1,630.60	1,635.07	1,615.89	19.18	85.243		
2,900.00	2,900.00	2,806.74	2,791.98	10.18	9.76	91.45	-41.53	1,637.52	1,642.03	1,622.14	19.89	82.568		
3,000.00	3,000.00	2,906.98	2,891.49	10.54	10.12	91.47	-42.19	1,644.45	1,648.98	1,628.39	20.59	80.072		
3,100.00	3,100.00	3,007.23	2,991.00	10.90	10.47	91.49	-42.86	1,651.37	1,655.94	1,634.64	21.30	77.738		
3,200.00	3,200.00	3,107.47	3,090.52	11.26	10.83	91.50	-43.52	1,658.30	1,662.90	1,640.89	22.01	75.552		
3,300.00	3,300.00	3,207.71	3,190.03	11.62	11.19	91.52	-44.19	1,665.22	1,669.85	1,647.14	22.72	73.499		
3,400.00	3,400.00	3,307.96	3,289.55	11.97	11.55	91.54	-44.85	1,672.15	1,676.81	1,653.38	23.43	71.569		
3,500.00	3,500.00	3,408.20	3,389.06	12.33	11.91	91.55	-45.51	1,679.07	1,683.77	1,659.63	24.14	69.750		
3,600.00	3,600.00	3,491.52	3,488.54	12.67	12.20	-125.86	-46.18	1,685.99	1,691.24	1,666.46	24.78	68.264		
3,700.00	3,699.96	3,608.86	3,587.92	13.00	12.63	-125.85	-46.84	1,692.91	1,699.72	1,674.21	25.52	66.616		
3,737.73	3,737.66	3,628.70	3,625.38	13.13	12.70	-125.86	-47.09	1,695.52	1,703.19	1,677.48	25.71	66.249		
3,800.00	3,799.88	3,709.33	3,687.20	13.33	12.99	-125.92	-47.50	1,699.82	1,709.03	1,682.84	26.20	65.236		
3,900.00	3,899.79	3,809.81	3,786.48	13.66	13.35	-126.01	-48.17	1,706.73	1,718.42	1,691.54	26.88	63.925		
4,000.00	3,999.71	3,889.70	3,885.75	13.99	13.64	-126.11	-48.83	1,713.63	1,727.82	1,700.32	27.50	62.841		
4,100.00	4,099.62	3,989.22	3,985.03	14.32	14.00	-126.20	-49.49	1,720.54	1,737.21	1,709.03	28.18	61.647		
4,200.00	4,199.53	4,088.74	4,084.30	14.66	14.36	-126.29	-50.15	1,727.45	1,746.62	1,717.75	28.87	60.507		
4,300.00	4,299.45	4,188.26	4,183.58	15.00	14.72	-126.38	-50.82	1,734.36	1,756.02	1,726.47	29.55	59.416		
4,400.00	4,399.36	4,287.77	4,282.85	15.33	15.09	-126.48	-51.48	1,741.27	1,765.44	1,735.19	30.24	58.372		
4,500.00	4,499.28	4,387.29	4,382.13	15.67	15.45	-126.56	-52.14	1,748.17	1,774.85	1,743.92	30.94	57.372		
4,600.00	4,599.19	4,486.81	4,481.40	16.01	15.81	-126.65	-52.80	1,755.08	1,784.27	1,752.64	31.63	56.414		
4,700.00	4,699.10	4,586.33	4,580.68	16.35	16.17	-126.74	-53.46	1,761.99	1,793.70	1,761.37	32.32	55.494		
4,800.00	4,799.02	4,685.84	4,679.96	16.69	16.54	-126.83	-54.13	1,768.90	1,803.12	1,770.11	33.02	54.612		
4,900.00	4,898.93	4,785.36	4,779.23	17.04	16.90	-126.91	-54.79	1,775.81	1,812.56	1,778.84	33.71	53.764		
5,000.00	4,998.85	4,884.88	4,878.51	17.38	17.26	-127.00	-55.45	1,782.71	1,821.99	1,787.58	34.41	52.948		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	4,984.40	4,977.78	17.72	17.63	-127.08	-56.11	1,789.62	1,831.43	1,796.32	35.11	52.164		
5,200.00	5,198.67	5,083.91	5,077.06	18.07	17.99	-127.17	-56.78	1,796.53	1,840.88	1,805.07	35.81	51.409		
5,300.00	5,298.59	5,183.43	5,176.33	18.41	18.36	-127.25	-57.44	1,803.44	1,850.32	1,813.82	36.51	50.682		
5,400.00	5,398.50	5,282.95	5,275.61	18.76	18.72	-127.33	-58.10	1,810.35	1,859.78	1,822.57	37.21	49.982		
5,500.00	5,498.42	5,382.47	5,374.88	19.11	19.08	-127.41	-58.76	1,817.25	1,869.23	1,831.32	37.91	49.306		
5,600.00	5,598.33	5,481.98	5,474.16	19.45	19.45	-127.49	-59.43	1,824.16	1,878.69	1,840.08	38.61	48.654		
5,700.00	5,698.24	5,581.50	5,573.43	19.80	19.81	-127.57	-60.09	1,831.07	1,888.15	1,848.84	39.32	48.024		
5,800.00	5,798.16	5,681.02	5,672.71	20.15	20.18	-127.65	-60.75	1,837.98	1,897.62	1,857.60	40.02	47.416		
5,900.00	5,898.07	5,780.54	5,771.98	20.50	20.54	-127.73	-61.41	1,844.89	1,907.09	1,866.37	40.72	46.828		
6,000.00	5,997.98	5,880.05	5,871.26	20.85	20.91	-127.80	-62.08	1,851.79	1,916.56	1,875.13	41.43	46.260		
6,100.00	6,097.90	5,979.57	5,970.53	21.20	21.28	-127.88	-62.74	1,858.70	1,926.04	1,883.90	42.14	45.710		
6,200.00	6,197.81	6,079.09	6,069.81	21.55	21.64	-127.96	-63.40	1,865.61	1,935.52	1,892.68	42.84	45.178		
6,300.00	6,297.73	6,178.61	6,169.08	21.90	22.01	-128.03	-64.06	1,872.52	1,945.00	1,901.45	43.55	44.662		
6,400.00	6,397.64	6,278.12	6,268.36	22.25	22.37	-128.10	-64.73	1,879.42	1,954.49	1,910.23	44.26	44.163		
6,500.00	6,497.55	6,377.64	6,367.63	22.61	22.74	-128.18	-65.39	1,886.33	1,963.98	1,919.02	44.96	43.679		
6,600.00	6,597.47	6,477.16	6,466.91	22.96	23.11	-128.25	-66.05	1,893.24	1,973.47	1,927.80	45.67	43.209		
6,700.00	6,697.38	6,576.68	6,566.18	23.31	23.47	-128.32	-66.71	1,900.15	1,982.97	1,936.59	46.38	42.754		
6,800.00	6,797.30	6,676.19	6,665.46	23.66	23.84	-128.39	-67.38	1,907.06	1,992.47	1,945.38	47.09	42.312		
6,900.00	6,897.21	6,775.71	6,764.73	24.02	24.20	-128.46	-68.04	1,913.96	2,001.97	1,954.17	47.80	41.883		
7,000.00	6,997.12	6,875.23	6,864.01	24.37	24.57	-128.53	-68.70	1,920.87	2,011.48	1,962.97	48.51	41.466		
7,100.00	7,097.04	6,974.75	6,963.28	24.73	24.94	-128.60	-69.36	1,927.78	2,020.98	1,971.76	49.22	41.060		
7,200.00	7,196.95	7,074.26	7,062.56	25.08	25.30	-128.67	-70.03	1,934.69	2,030.49	1,980.56	49.93	40.666		
7,300.00	7,296.87	7,173.78	7,161.84	25.43	25.67	-128.74	-70.69	1,941.60	2,040.01	1,989.37	50.64	40.283		
7,400.00	7,396.78	7,273.30	7,261.11	25.79	26.04	-128.81	-71.35	1,948.50	2,049.52	1,998.17	51.35	39.911		
7,500.00	7,496.69	7,372.82	7,360.39	26.14	26.40	-128.87	-72.01	1,955.41	2,059.04	2,006.98	52.06	39.548		
7,600.00	7,596.61	7,472.33	7,459.66	26.50	26.77	-128.94	-72.67	1,962.32	2,068.57	2,015.79	52.78	39.195		
7,700.00	7,696.52	7,571.85	7,558.94	26.86	27.14	-129.00	-73.34	1,969.23	2,078.09	2,024.60	53.49	38.851		
7,800.00	7,796.44	7,671.37	7,658.21	27.21	27.51	-129.07	-74.00	1,976.14	2,087.62	2,033.42	54.20	38.516		
7,900.00	7,896.35	7,770.89	7,757.49	27.57	27.87	-129.13	-74.66	1,983.04	2,097.15	2,042.23	54.91	38.190		
8,000.00	7,996.26	7,870.40	7,856.76	27.92	28.24	-129.20	-75.32	1,989.95	2,106.68	2,051.05	55.63	37.872		
8,100.00	8,096.18	7,969.92	7,956.04	28.28	28.61	-129.26	-75.99	1,996.86	2,116.22	2,059.88	56.34	37.562		
8,200.00	8,196.09	8,069.44	8,055.31	28.64	28.97	-129.32	-76.65	2,003.77	2,125.75	2,068.70	57.05	37.259		
8,300.00	8,296.01	8,168.96	8,154.59	28.99	29.34	-129.38	-77.31	2,010.68	2,135.29	2,077.53	57.77	36.964		
8,400.00	8,395.92	8,268.47	8,253.86	29.35	29.71	-129.45	-77.97	2,017.58	2,144.84	2,086.35	58.48	36.676		
8,500.00	8,495.83	8,367.99	8,353.14	29.71	30.08	-129.51	-78.64	2,024.49	2,154.38	2,095.19	59.20	36.394		
8,600.00	8,595.75	8,467.51	8,452.41	30.06	30.44	-129.57	-79.30	2,031.40	2,163.93	2,104.02	59.91	36.120		
8,700.00	8,695.66	8,567.03	8,551.69	30.42	30.81	-129.63	-79.96	2,038.31	2,173.48	2,112.85	60.62	35.852		
8,800.00	8,795.58	8,666.54	8,650.96	30.78	31.18	-129.69	-80.62	2,045.22	2,183.03	2,121.69	61.34	35.589		
8,900.00	8,895.49	8,766.06	8,750.24	31.14	31.55	-129.74	-81.29	2,052.12	2,192.58	2,130.53	62.05	35.333		
9,000.00	8,995.40	8,865.58	8,849.51	31.50	31.91	-129.80	-81.95	2,059.03	2,202.14	2,139.37	62.77	35.083		
9,100.00	9,095.32	8,965.10	8,948.79	31.85	32.28	-129.86	-82.61	2,065.94	2,211.70	2,148.22	63.48	34.838		
9,200.00	9,195.23	9,064.61	9,048.06	32.21	32.65	-129.92	-83.27	2,072.85	2,221.26	2,157.06	64.20	34.599		
9,300.00	9,295.14	9,164.13	9,147.34	32.57	33.02	-129.97	-83.94	2,079.76	2,230.82	2,165.91	64.92	34.365		
9,400.00	9,395.06	9,263.65	9,246.61	32.93	33.39	-130.03	-84.60	2,086.66	2,240.39	2,174.76	65.63	34.136		
9,500.00	9,494.97	9,363.17	9,345.89	33.29	33.75	-130.09	-85.26	2,093.57	2,249.96	2,183.61	66.35	33.911		
9,523.61	9,518.56	9,386.66	9,369.33	33.37	33.84	-130.10	-85.42	2,095.20	2,252.22	2,185.70	66.52	33.859		
9,600.00	9,594.91	9,511.64	9,494.06	33.64	34.30	-130.22	-86.16	2,102.97	2,258.66	2,191.38	67.28	33.570		
9,682.09	9,677.00	9,700.85	9,683.20	33.93	34.97	87.20	-86.58	2,107.33	2,261.03	2,192.78	68.25	33.129		
9,700.00	9,694.91	9,718.76	9,701.11	33.99	35.03	87.20	-86.58	2,107.33	2,261.03	2,192.66	68.37	33.069		
9,800.00	9,794.91	9,818.76	9,801.11	34.33	35.37	87.20	-86.58	2,107.33	2,261.03	2,191.97	69.06	32.741		
9,900.00	9,894.91	9,918.76	9,901.11	34.68	35.71	87.20	-86.58	2,107.33	2,261.03	2,191.29	69.75	32.418		
10,000.00	9,994.91	10,018.76	10,001.11	35.02	36.05	87.20	-86.58	2,107.33	2,261.03	2,190.60	70.43	32.102		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,002.80	9,997.70	10,021.55	10,003.90	35.03	36.06	87.20	-86.58	2,107.33	2,261.03	2,190.58	70.45	32.093		
10,032.13	10,027.04	10,050.02	10,032.37	35.13	36.16	87.20	-86.56	2,107.33	2,261.03	2,190.38	70.65	32.003		
10,050.00	10,044.90	10,065.37	10,047.71	35.19	36.21	87.61	-86.21	2,107.33	2,261.04	2,190.27	70.77	31.951		
10,100.00	10,094.75	10,108.32	10,090.54	35.36	36.35	87.61	-83.05	2,107.31	2,261.03	2,189.95	71.08	31.808		
10,150.00	10,144.08	10,151.29	10,133.03	35.53	36.50	87.63	-76.69	2,107.26	2,261.00	2,189.61	71.39	31.670		
10,200.00	10,192.52	10,194.32	10,174.97	35.68	36.63	87.66	-67.15	2,107.19	2,260.95	2,189.25	71.70	31.535		
10,250.00	10,239.69	10,237.43	10,216.16	35.84	36.77	87.71	-54.47	2,107.10	2,260.87	2,188.88	71.99	31.405		
10,300.00	10,285.26	10,280.66	10,256.40	35.98	36.90	87.77	-38.67	2,106.98	2,260.77	2,188.49	72.28	31.280		
10,350.00	10,328.85	10,324.05	10,295.46	36.12	37.02	87.85	-19.82	2,106.84	2,260.65	2,188.09	72.55	31.158		
10,400.00	10,370.15	10,367.62	10,333.14	36.25	37.13	87.95	2.04	2,106.68	2,260.51	2,187.68	72.82	31.040		
10,450.00	10,408.84	10,411.42	10,369.24	36.37	37.24	88.05	26.83	2,106.50	2,260.35	2,187.26	73.09	30.926		
10,500.00	10,444.62	10,455.48	10,403.53	36.49	37.33	88.18	54.48	2,106.30	2,260.19	2,186.84	73.35	30.814		
10,550.00	10,477.22	10,499.83	10,435.80	36.61	37.42	88.31	84.88	2,106.07	2,260.02	2,186.42	73.61	30.705		
10,600.00	10,506.40	10,544.52	10,465.84	36.73	37.50	88.46	117.95	2,105.83	2,259.85	2,186.00	73.86	30.597		
10,650.00	10,531.93	10,589.58	10,493.43	36.85	37.57	88.61	153.56	2,105.57	2,259.69	2,185.58	74.11	30.491		
10,700.00	10,553.61	10,635.05	10,518.35	36.97	37.64	88.78	191.58	2,105.29	2,259.53	2,185.17	74.36	30.385		
10,750.00	10,571.29	10,680.97	10,540.37	37.10	37.70	88.96	231.86	2,104.99	2,259.38	2,184.77	74.62	30.280		
10,800.00	10,584.83	10,727.38	10,559.28	37.22	37.79	89.14	274.23	2,104.68	2,259.25	2,184.38	74.87	30.175		
10,850.00	10,594.12	10,774.31	10,574.85	37.34	37.90	89.33	318.49	2,104.36	2,259.14	2,184.01	75.13	30.070		
10,900.00	10,599.10	10,821.82	10,586.87	37.47	38.03	89.53	364.43	2,104.02	2,259.05	2,183.66	75.39	29.966		
10,932.14	10,600.00	10,852.66	10,592.62	37.55	38.12	89.66	394.73	2,103.80	2,259.01	2,183.45	75.55	29.900		
11,000.00	10,600.00	10,919.02	10,599.42	37.73	38.31	89.83	460.70	2,103.31	2,258.96	2,183.04	75.92	29.755		
11,100.00	10,600.00	11,018.73	10,600.00	38.04	38.63	89.84	560.40	2,102.58	2,258.94	2,182.41	76.53	29.517		
11,200.00	10,600.00	11,118.73	10,600.00	38.41	38.99	89.84	660.39	2,101.85	2,258.92	2,181.68	77.24	29.244		
11,300.00	10,600.00	11,218.73	10,600.00	38.83	39.39	89.84	760.39	2,101.11	2,258.90	2,180.84	78.06	28.939		
11,400.00	10,600.00	11,318.73	10,600.00	39.30	39.85	89.84	860.39	2,100.38	2,258.88	2,179.91	78.97	28.605		
11,500.00	10,600.00	11,418.73	10,600.00	39.81	40.35	89.84	960.38	2,099.64	2,258.86	2,178.88	79.98	28.244		
11,600.00	10,600.00	11,518.73	10,600.00	40.37	40.90	89.84	1,060.38	2,098.91	2,258.84	2,177.76	81.08	27.860		
11,700.00	10,600.00	11,618.73	10,600.00	40.98	41.48	89.84	1,160.38	2,098.18	2,258.82	2,176.55	82.27	27.457		
11,800.00	10,600.00	11,718.73	10,600.00	41.62	42.11	89.84	1,260.38	2,097.44	2,258.79	2,175.25	83.54	27.038		
11,900.00	10,600.00	11,818.73	10,600.00	42.31	42.78	89.84	1,360.37	2,096.71	2,258.77	2,173.88	84.90	26.607		
12,000.00	10,600.00	11,918.73	10,600.00	43.04	43.49	89.84	1,460.37	2,095.97	2,258.75	2,172.43	86.33	26.165		
12,100.00	10,600.00	12,018.73	10,600.00	43.80	44.23	89.84	1,560.37	2,095.24	2,258.73	2,170.90	87.83	25.717		
12,200.00	10,600.00	12,118.73	10,600.00	44.60	45.01	89.84	1,660.37	2,094.50	2,258.71	2,169.31	89.41	25.264		
12,300.00	10,600.00	12,218.73	10,600.00	45.43	45.82	89.84	1,760.36	2,093.77	2,258.69	2,167.65	91.05	24.808		
12,400.00	10,600.00	12,318.73	10,600.00	46.29	46.66	89.84	1,860.36	2,093.03	2,258.67	2,165.92	92.75	24.353		
12,500.00	10,600.00	12,418.73	10,600.00	47.17	47.54	89.84	1,960.36	2,092.30	2,258.65	2,164.14	94.51	23.898		
12,600.00	10,600.00	12,518.73	10,600.00	48.09	48.43	89.84	2,060.35	2,091.57	2,258.63	2,162.30	96.33	23.447		
12,700.00	10,600.00	12,618.73	10,600.00	49.04	49.36	89.84	2,160.35	2,090.83	2,258.61	2,160.41	98.20	23.000		
12,800.00	10,600.00	12,718.73	10,600.00	50.00	50.31	89.84	2,260.35	2,090.10	2,258.59	2,158.47	100.12	22.559		
12,900.00	10,600.00	12,818.73	10,600.00	50.99	51.28	89.84	2,360.35	2,089.36	2,258.57	2,156.48	102.09	22.124		
13,000.00	10,600.00	12,918.73	10,600.00	52.01	52.28	89.84	2,460.34	2,088.63	2,258.55	2,154.45	104.10	21.696		
13,100.00	10,600.00	13,018.73	10,600.00	53.04	53.30	89.84	2,560.34	2,087.89	2,258.53	2,152.37	106.15	21.276		
13,200.00	10,600.00	13,118.73	10,600.00	54.09	54.34	89.84	2,660.34	2,087.16	2,258.51	2,150.26	108.24	20.865		
13,300.00	10,600.00	13,218.73	10,600.00	55.16	55.39	89.84	2,760.34	2,086.42	2,258.48	2,148.11	110.37	20.462		
13,400.00	10,600.00	13,318.73	10,600.00	56.25	56.47	89.84	2,860.33	2,085.69	2,258.46	2,145.93	112.54	20.068		
13,500.00	10,600.00	13,418.73	10,600.00	57.36	57.56	89.84	2,960.33	2,084.96	2,258.44	2,143.71	114.74	19.684		
13,600.00	10,600.00	13,518.73	10,600.00	58.48	58.66	89.84	3,060.33	2,084.22	2,258.42	2,141.46	116.97	19.308		
13,700.00	10,600.00	13,618.73	10,600.00	59.61	59.78	89.84	3,160.32	2,083.49	2,258.40	2,139.18	119.23	18.942		
13,800.00	10,600.00	13,718.73	10,600.00	60.76	60.92	89.84	3,260.32	2,082.75	2,258.38	2,136.87	121.51	18.586		
13,900.00	10,600.00	13,818.73	10,600.00	61.92	62.07	89.84	3,360.32	2,082.02	2,258.36	2,134.54	123.82	18.238		
14,000.00	10,600.00	13,918.73	10,600.00	63.10	63.23	89.84	3,460.32	2,081.28	2,258.34	2,132.18	126.16	17.900		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 18H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	14,018.73	10,600.00	64.28	64.40	89.84	3,560.31	2,080.55	2,258.32	2,129.80	128.52	17.571	
14,200.00	10,600.00	14,118.73	10,600.00	65.48	65.59	89.84	3,660.31	2,079.81	2,258.30	2,127.39	130.91	17.251	
14,300.00	10,600.00	14,218.73	10,600.00	66.68	66.78	89.84	3,760.31	2,079.08	2,258.28	2,124.97	133.31	16.940	
14,400.00	10,600.00	14,318.73	10,600.00	67.90	67.99	89.84	3,860.31	2,078.35	2,258.26	2,122.52	135.74	16.637	
14,500.00	10,600.00	14,418.73	10,600.00	69.13	69.20	89.84	3,960.30	2,077.61	2,258.24	2,120.06	138.18	16.343	
14,600.00	10,600.00	14,518.73	10,600.00	70.36	70.43	89.84	4,060.30	2,076.88	2,258.22	2,117.58	140.64	16.057	
14,700.00	10,600.00	14,618.73	10,600.00	71.60	71.66	89.84	4,160.30	2,076.14	2,258.20	2,115.08	143.12	15.779	
14,800.00	10,600.00	14,718.73	10,600.00	72.85	72.90	89.84	4,260.30	2,075.41	2,258.18	2,112.56	145.61	15.508	
14,900.00	10,600.00	14,818.73	10,600.00	74.11	74.15	89.84	4,360.29	2,074.67	2,258.15	2,110.03	148.12	15.245	
15,000.00	10,600.00	14,918.73	10,600.00	75.38	75.41	89.84	4,460.29	2,073.94	2,258.13	2,107.49	150.65	14.990	
15,100.00	10,600.00	15,018.73	10,600.00	76.65	76.67	89.84	4,560.29	2,073.20	2,258.11	2,104.93	153.18	14.741	
15,200.00	10,600.00	15,118.73	10,600.00	77.93	77.94	89.84	4,660.28	2,072.47	2,258.09	2,102.36	155.73	14.500	
15,300.00	10,600.00	15,218.73	10,600.00	79.21	79.22	89.84	4,760.28	2,071.74	2,258.07	2,099.78	158.30	14.265	
15,400.00	10,600.00	15,318.73	10,600.00	80.50	80.50	89.84	4,860.28	2,071.00	2,258.05	2,097.18	160.87	14.036	
15,500.00	10,600.00	15,418.73	10,600.00	81.80	81.79	89.84	4,960.28	2,070.27	2,258.03	2,094.57	163.46	13.814	
15,571.61	10,600.00	15,490.34	10,600.00	82.73	82.72	89.84	5,031.89	2,069.74	2,258.02	2,092.70	165.32	13.659 SF	
15,575.11	10,600.00	15,484.47	10,600.00	82.77	82.64	89.84	5,026.02	2,069.78	2,258.03	2,092.74	165.30	13.660	

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 1H - Original Hole - Actuals		Offset Site Error: 0.00 ft	
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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)					
0.00	0.00	7.23	7.23	0.50	0.01	93.17	-42.40	764.76	765.94							
100.00	100.00	107.60	107.60	0.52	0.15	93.15	-42.14	764.75	765.91	765.24	0.67	1,141.314				
126.51	126.51	134.21	134.21	0.55	0.19	93.14	-42.00	764.74	765.89	765.15	0.74	1,033.064				
200.00	200.00	204.73	204.73	0.70	0.47	93.10	-41.40	764.90	766.02	764.85	1.17	653.468				
300.00	300.00	305.51	305.50	0.99	0.83	93.00	-40.11	765.32	766.38	764.56	1.82	421.393				
400.00	400.00	407.70	407.68	1.31	1.20	92.87	-38.41	765.45	766.41	763.90	2.51	305.705				
497.54	497.54	504.78	504.74	1.64	1.55	92.75	-36.73	765.47	766.35	763.17	3.18	240.679				
500.00	500.00	507.14	507.09	1.65	1.55	92.74	-36.69	765.47	766.35	763.15	3.20	239.412				
600.00	600.00	605.18	605.14	1.99	1.91	92.68	-35.79	765.73	766.56	762.67	3.90	196.728				
700.00	700.00	712.69	712.65	2.34	2.28	92.66	-35.54	765.50	766.34	761.72	4.62	165.942				
800.00	800.00	815.84	815.78	2.69	2.63	92.69	-35.90	764.43	765.32	760.00	5.32	143.851				
900.00	900.00	917.74	917.67	3.04	2.98	92.73	-36.33	763.18	764.12	758.10	6.02	126.877				
1,000.00	1,000.00	1,017.36	1,017.29	3.40	3.33	92.76	-36.71	761.77	762.72	755.99	6.72	113.465				
1,100.00	1,100.00	1,118.15	1,118.07	3.75	3.68	92.80	-37.15	760.38	761.37	753.94	7.43	102.491				
1,200.00	1,200.00	1,211.84	1,211.75	4.11	4.01	92.81	-37.32	759.38	760.31	752.19	8.12	93.692				
1,300.00	1,300.00	1,311.38	1,311.29	4.46	4.36	92.81	-37.19	758.87	759.79	750.96	8.82	86.102				
1,400.00	1,400.00	1,410.65	1,410.56	4.82	4.71	92.82	-37.34	758.37	759.29	749.76	9.53	79.675				
1,500.00	1,500.00	1,511.44	1,511.34	5.18	5.07	92.83	-37.44	757.90	758.83	748.59	10.24	74.094				
1,600.00	1,600.00	1,619.55	1,619.44	5.53	5.45	92.75	-36.40	756.89	757.87	746.88	10.98	69.008				
1,700.00	1,700.00	1,721.13	1,720.99	5.89	5.81	92.63	-34.72	755.16	756.08	744.38	11.70	64.613				
1,800.00	1,800.00	1,820.98	1,820.82	6.25	6.17	92.54	-33.42	753.40	754.26	741.85	12.42	60.751				
1,900.00	1,900.00	1,917.39	1,917.22	6.61	6.52	92.49	-32.69	751.93	752.70	739.58	13.12	57.379				
2,000.00	2,000.00	2,017.84	2,017.66	6.96	6.88	92.48	-32.52	750.57	751.35	737.51	13.83	54.314				
2,100.00	2,100.00	2,119.33	2,119.14	7.32	7.24	92.49	-32.58	749.07	749.87	735.32	14.55	51.532				
2,200.00	2,200.00	2,221.55	2,221.34	7.68	7.60	92.48	-32.34	747.26	748.09	732.82	15.27	48.980				
2,300.00	2,300.00	2,321.10	2,320.87	8.04	7.96	92.45	-31.89	745.41	746.22	730.23	15.99	46.677				
2,400.00	2,400.00	2,419.86	2,419.61	8.39	8.31	92.44	-31.74	743.68	744.46	727.76	16.70	44.585				
2,500.00	2,500.00	2,519.58	2,519.33	8.75	8.67	92.45	-31.69	742.09	742.86	725.45	17.41	42.666				
2,600.00	2,600.00	2,620.96	2,620.69	9.11	9.03	92.44	-31.51	740.33	741.12	722.99	18.13	40.877				
2,700.00	2,700.00	2,721.78	2,721.49	9.47	9.40	92.41	-31.03	738.45	739.24	720.39	18.85	39.219				
2,800.00	2,800.00	2,821.30	2,820.99	9.83	9.75	92.35	-30.26	736.56	737.31	717.74	19.56	37.688				
2,900.00	2,900.00	2,920.27	2,919.93	10.18	10.11	92.28	-29.23	734.82	735.51	715.24	20.28	36.275				
3,000.00	3,000.00	3,019.43	3,019.07	10.54	10.46	92.20	-28.19	733.20	733.84	712.85	20.99	34.963				
3,100.00	3,100.00	3,118.60	3,118.23	10.90	10.82	92.10	-26.86	731.70	732.28	710.57	21.70	33.743				
3,200.00	3,200.00	3,216.69	3,216.30	11.26	11.17	91.97	-25.12	730.41	730.90	708.49	22.41	32.615				
3,300.00	3,300.00	3,314.82	3,314.40	11.62	11.52	91.81	-23.10	729.41	729.81	706.70	23.12	31.570				
3,400.00	3,400.00	3,415.06	3,414.61	11.97	11.88	91.63	-20.78	728.46	728.80	704.96	23.83	30.582				
3,500.00	3,500.00	3,515.17	3,514.69	12.33	12.23	91.45	-18.42	727.55	727.82	703.27	24.54	29.652				
3,594.10	3,594.10	3,608.88	3,608.36	12.65	12.56	-126.27	-15.94	726.55	727.22	702.02	25.20	28.858				
3,600.00	3,600.00	3,614.41	3,613.88	12.67	12.58	-126.28	-15.79	726.50	727.22	701.98	25.24	28.813				
3,700.00	3,699.96	3,710.33	3,709.76	13.00	12.92	-126.65	-13.02	726.04	728.24	702.33	25.91	28.111				
3,737.73	3,737.66	3,747.95	3,747.37	13.13	13.06	-126.82	-12.02	725.92	728.97	702.80	26.16	27.863				
3,800.00	3,799.88	3,809.01	3,808.41	13.33	13.27	-127.09	-10.54	725.75	730.34	703.76	26.58	27.475				
3,900.00	3,899.79	3,905.36	3,904.74	13.66	13.61	-127.52	-8.24	725.79	732.88	705.63	27.25	26.895				
4,000.00	3,999.71	4,000.73	4,000.07	13.99	13.94	-127.96	-5.70	726.37	736.05	708.14	27.91	26.370				
4,100.00	4,099.62	4,096.69	4,096.01	14.32	14.27	-128.32	-4.18	727.51	739.82	711.24	28.57	25.891				
4,200.00	4,199.53	4,192.95	4,192.24	14.66	14.60	-128.70	-2.43	729.12	744.11	714.87	29.24	25.451				
4,300.00	4,299.45	4,300.32	4,299.55	15.00	14.98	-129.19	0.57	730.98	748.55	718.60	29.95	24.992				
4,400.00	4,399.36	4,401.32	4,400.49	15.33	15.33	-129.70	4.08	731.35	751.68	721.03	30.64	24.529				
4,500.00	4,499.28	4,479.53	4,478.65	15.67	15.60	-130.06	6.38	732.70	756.27	725.04	31.23	24.214				
4,600.00	4,599.19	4,556.25	4,555.24	16.01	15.86	-130.24	6.43	736.96	764.42	732.63	31.78	24.050				
4,700.00	4,699.10	4,650.64	4,649.39	16.35	16.17	-130.36	5.46	743.67	774.14	741.71	32.42	23.876				

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

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design												Sec 35-23S-33E - Sea Snake 35 State 1H - Original Hole - Actuals		Offset Site Error: 0.00 ft	
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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			
4,800.00	4,799.02	4,742.66	4,741.13	16.69	16.48	-130.48	4.55	750.78	784.50	751.45	33.05	23.739			
4,900.00	4,898.93	4,828.41	4,826.48	17.04	16.76	-130.51	2.75	758.80	796.40	762.77	33.62	23.685			
5,000.00	4,998.85	4,921.15	4,918.64	17.38	17.08	-130.48	-0.15	768.75	809.61	775.36	34.25	23.640			
5,100.00	5,098.76	5,031.99	5,028.81	17.72	17.45	-130.41	-3.91	780.37	822.60	787.60	35.00	23.502			
5,200.00	5,198.67	5,145.73	5,142.10	18.07	17.84	-130.41	-7.07	789.83	833.39	797.62	35.77	23.299			
5,300.00	5,298.59	5,270.46	5,266.48	18.41	18.18	-130.45	-9.92	798.71	843.27	806.78	36.50	23.104			
5,400.00	5,398.50	5,371.75	5,367.62	18.76	18.17	-130.51	-12.01	803.71	850.78	813.95	36.84	23.096			
5,500.00	5,498.42	5,474.82	5,470.54	19.11	18.19	-130.50	-15.12	808.28	857.74	820.54	37.20	23.058			
5,600.00	5,598.33	5,585.52	5,581.06	19.45	18.21	-130.40	-19.97	812.40	863.93	826.35	37.58	22.987			
5,700.00	5,698.24	5,698.00	5,693.31	19.80	18.25	-130.20	-26.44	815.09	868.71	830.73	37.97	22.877			
5,800.00	5,798.16	5,809.31	5,804.36	20.15	18.29	-129.92	-34.10	816.28	872.14	833.77	38.37	22.732			
5,900.00	5,898.07	5,917.56	5,912.35	20.50	18.33	-129.66	-41.54	816.13	874.36	835.60	38.76	22.557			
6,000.00	5,997.98	6,025.06	6,019.62	20.85	18.39	-129.43	-48.50	815.09	875.81	836.64	39.17	22.362			
6,100.00	6,097.90	6,135.40	6,129.77	21.20	18.45	-129.28	-54.51	812.85	876.23	836.66	39.57	22.141			
6,200.00	6,197.81	6,239.84	6,234.07	21.55	18.52	-129.22	-58.84	809.77	875.77	835.78	39.99	21.900			
6,300.00	6,297.73	6,347.97	6,342.10	21.90	18.59	-129.27	-61.61	805.77	874.62	834.21	40.41	21.645			
6,400.00	6,397.64	6,459.31	6,453.30	22.25	18.67	-129.44	-62.80	800.43	872.43	831.61	40.83	21.369			
6,500.00	6,497.55	6,578.62	6,572.35	22.61	18.77	-129.64	-63.81	792.59	868.49	827.25	41.24	21.061			
6,600.00	6,597.47	6,703.50	6,696.69	22.96	18.88	-129.86	-64.95	781.15	861.94	820.32	41.63	20.707			
6,700.00	6,697.38	6,804.17	6,796.77	23.31	18.97	-130.03	-66.03	770.32	853.80	811.73	42.07	20.294			
6,800.00	6,797.30	6,900.31	6,892.36	23.66	19.07	-130.19	-67.27	760.19	845.87	803.33	42.54	19.885			
6,900.00	6,897.21	6,993.72	6,985.30	24.02	19.18	-130.34	-68.50	750.89	838.53	795.52	43.02	19.494			
7,000.00	6,997.12	7,089.81	7,080.96	24.37	19.30	-130.49	-69.75	741.92	831.82	788.32	43.49	19.126			
7,100.00	7,097.04	7,202.21	7,192.81	24.73	19.44	-130.67	-71.31	730.83	824.58	780.64	43.94	18.766			
7,200.00	7,196.95	7,311.85	7,301.70	25.08	19.59	-130.84	-73.05	718.17	815.64	771.24	44.40	18.372			
7,300.00	7,296.87	7,409.48	7,398.64	25.43	19.74	-130.99	-74.57	706.69	806.50	761.61	44.89	17.966			
7,400.00	7,396.78	7,506.99	7,495.48	25.79	19.89	-131.14	-76.27	695.44	797.59	752.20	45.39	17.571			
7,500.00	7,496.69	7,603.18	7,591.06	26.14	20.05	-131.30	-77.77	684.66	789.02	743.12	45.90	17.189			
7,600.00	7,596.61	7,698.08	7,685.40	26.50	20.20	-131.45	-79.30	674.52	780.98	734.56	46.42	16.824			
7,700.00	7,696.52	7,799.73	7,786.50	26.86	20.38	-131.61	-81.12	664.11	773.38	726.45	46.93	16.480			
7,800.00	7,796.44	7,901.59	7,887.73	27.21	20.57	-131.76	-83.08	652.99	765.10	717.65	47.44	16.127			
7,900.00	7,896.35	7,995.92	7,981.51	27.57	20.75	-131.88	-85.17	643.01	757.13	709.15	47.98	15.781			
8,000.00	7,996.26	8,099.53	8,084.55	27.92	20.95	-132.00	-87.51	632.48	749.59	701.10	48.50	15.456			
8,100.00	8,096.18	8,195.39	8,179.84	28.28	21.14	-132.10	-90.00	622.30	741.58	692.54	49.04	15.122			
8,200.00	8,196.09	8,298.28	8,282.15	28.64	21.35	-132.20	-92.76	611.85	734.01	684.44	49.57	14.807			
8,300.00	8,296.01	8,394.83	8,378.14	28.99	21.56	-132.29	-95.42	601.77	726.16	676.03	50.13	14.487			
8,400.00	8,395.92	8,500.41	8,483.10	29.35	21.79	-132.36	-98.72	590.78	718.31	667.65	50.66	14.179			
8,500.00	8,495.83	8,593.33	8,575.45	29.71	22.00	-132.40	-101.91	581.09	710.41	659.18	51.23	13.867			
8,600.00	8,595.75	8,689.92	8,671.53	30.06	22.22	-132.42	-105.36	571.73	703.23	651.44	51.80	13.577			
8,700.00	8,695.66	8,788.48	8,769.59	30.42	22.45	-132.44	-109.03	562.48	696.35	643.99	52.36	13.298			
8,800.00	8,795.58	8,879.68	8,860.38	30.78	22.66	-132.44	-112.49	554.59	690.20	637.25	52.94	13.036			
8,900.00	8,895.49	8,970.85	8,951.23	31.14	22.87	-132.43	-115.95	547.83	685.27	631.75	53.52	12.803			
9,000.00	8,995.40	9,062.06	9,042.20	31.50	23.09	-132.42	-119.38	542.22	681.62	627.52	54.10	12.599			
9,100.00	9,095.32	9,158.33	9,138.28	31.85	23.31	-132.41	-122.89	537.20	678.90	624.22	54.68	12.416			
9,200.00	9,195.23	9,256.50	9,236.27	32.21	23.54	-132.43	-126.07	532.42	676.57	621.31	55.26	12.244			
9,300.00	9,295.14	9,350.07	9,329.72	32.57	23.77	-132.48	-128.70	528.39	674.83	618.99	55.84	12.086			
9,400.00	9,395.06	9,446.08	9,425.64	32.93	23.99	-132.54	-131.18	524.98	673.87	617.46	56.42	11.945			
9,455.45	9,450.46	9,497.05	9,476.57	33.13	24.11	-132.58	-132.45	523.49	673.69	616.95	56.74	11.874 CC			
9,500.00	9,494.97	9,537.96	9,517.46	33.29	24.21	-132.61	-133.45	522.54	673.81	616.82	56.99	11.823			
9,523.61	9,518.56	9,559.73	9,539.21	33.37	24.26	-132.62	-134.00	522.12	673.97	616.84	57.13	11.798			
9,600.00	9,594.91	9,630.20	9,609.66	33.64	24.42	-132.61	-135.90	521.19	674.40	616.84	57.56	11.716			
9,682.09	9,677.00	9,705.78	9,685.20	33.93	24.60	84.98	-138.04	520.90	674.48	616.46	58.02	11.625			

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 1H - Original Hole - Actuals		Offset Site Error: 0.00 ft	
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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)					
9,694.63	9,689.54	9,717.31	9,696.74	33.97	24.62	85.01	-138.35	520.92	674.47	616.38	58.09	11.611	ES			
9,700.00	9,694.91	9,722.26	9,701.68	33.99	24.64	85.02	-138.49	520.93	674.47	616.36	58.12	11.605				
9,800.00	9,794.91	9,818.77	9,798.16	34.33	24.85	85.24	-141.00	521.49	674.83	616.14	58.68	11.500				
9,900.00	9,894.91	9,908.83	9,888.17	34.68	25.05	85.46	-143.54	522.86	676.12	616.90	59.22	11.417				
10,000.00	9,994.91	10,006.01	9,985.27	35.02	25.27	85.75	-146.78	525.39	678.46	618.67	59.79	11.348				
10,032.13	10,027.04	10,038.58	10,017.80	35.13	25.34	85.85	-147.88	526.27	679.25	619.28	59.97	11.326				
10,050.00	10,044.90	10,056.84	10,036.05	35.19	25.39	86.30	-148.46	526.75	679.66	619.58	60.08	11.313				
10,100.00	10,094.75	10,107.73	10,086.89	35.36	25.50	86.66	-149.96	528.02	680.57	620.20	60.37	11.273				
10,150.00	10,144.08	10,157.95	10,137.09	35.53	25.61	87.39	-151.33	529.17	681.24	620.57	60.67	11.229				
10,200.00	10,192.52	10,207.18	10,186.28	35.68	25.73	88.46	-152.64	530.22	681.82	620.87	60.95	11.186				
10,250.00	10,239.69	10,255.10	10,234.19	35.84	25.84	89.81	-153.85	531.16	682.58	621.34	61.24	11.147				
10,300.00	10,285.26	10,301.35	10,280.41	35.98	25.95	91.36	-154.93	531.99	683.81	622.30	61.51	11.117				
10,350.00	10,328.85	10,342.52	10,321.57	36.12	26.04	92.90	-155.90	532.75	685.98	624.21	61.77	11.106				
10,400.00	10,370.15	10,381.62	10,360.65	36.25	26.14	94.44	-156.89	533.55	689.55	627.53	62.02	11.119				
10,450.00	10,408.84	10,418.04	10,397.04	36.37	26.22	95.87	-157.86	534.37	694.90	632.64	62.26	11.162				
10,500.00	10,444.62	10,451.52	10,430.50	36.49	26.30	97.09	-158.78	535.19	702.40	639.91	62.49	11.241				
10,550.00	10,477.22	10,481.80	10,460.75	36.61	26.37	97.99	-159.64	535.97	712.36	649.66	62.70	11.361				
10,600.00	10,506.40	10,508.54	10,487.47	36.73	26.44	98.49	-160.42	536.71	725.05	662.15	62.90	11.527				
10,650.00	10,531.93	10,531.62	10,510.53	36.85	26.49	98.51	-161.12	537.38	740.62	677.54	63.08	11.740				
10,700.00	10,553.61	10,550.90	10,529.79	36.97	26.54	97.96	-161.73	537.95	759.13	695.89	63.24	12.003				
10,750.00	10,571.29	10,566.25	10,545.13	37.10	26.57	96.79	-162.22	538.43	780.55	717.16	63.38	12.315				
10,800.00	10,584.83	10,577.57	10,556.44	37.22	26.60	94.94	-162.59	538.79	804.70	741.21	63.50	12.673				
10,850.00	10,594.12	11,523.85	11,252.21	37.34	28.72	142.74	263.33	339.43	817.66	764.62	53.04	15.415				
10,900.00	10,599.10	11,598.97	11,265.01	37.47	29.19	143.90	335.96	325.33	815.20	762.19	53.01	15.378				
10,932.14	10,600.00	11,665.67	11,270.15	37.55	29.64	144.54	401.90	316.94	814.24	761.05	53.19	15.308				
11,000.00	10,600.00	11,737.69	11,271.73	37.73	30.17	144.97	473.57	310.09	811.99	758.52	53.47	15.187				
11,100.00	10,600.00	11,823.76	11,273.92	38.04	30.87	145.45	559.29	302.65	809.56	755.75	53.81	15.045				
11,177.53	10,600.00	11,889.23	11,275.97	38.33	31.44	145.76	624.59	298.30	808.96	754.83	54.13	14.944				
11,200.00	10,600.00	11,908.15	11,276.66	38.41	31.61	145.84	643.46	297.23	809.01	754.79	54.23	14.919				
11,300.00	10,600.00	11,994.27	11,280.35	38.83	32.41	146.19	729.41	293.22	810.36	755.62	54.74	14.804				
11,400.00	10,600.00	12,088.34	11,285.07	39.30	33.35	146.52	823.30	290.09	813.07	757.68	55.39	14.678				
11,500.00	10,600.00	12,195.41	11,288.96	39.81	34.49	146.71	930.29	288.58	815.74	759.41	56.32	14.483				
11,600.00	10,600.00	12,314.65	11,290.40	40.37	35.84	146.78	1,049.52	287.58	816.70	759.14	57.56	14.189				
11,628.22	10,600.00	12,340.34	11,290.37	40.54	36.15	146.78	1,075.21	287.38	816.66	758.83	57.83	14.121				
11,700.00	10,600.00	12,407.61	11,290.59	40.98	36.96	146.78	1,142.48	286.94	816.88	758.33	58.55	13.952				
11,800.00	10,600.00	12,522.28	11,289.88	41.62	38.41	146.77	1,257.14	285.91	816.22	756.28	59.94	13.617				
11,900.00	10,600.00	12,615.73	11,289.00	42.31	39.65	146.73	1,350.57	285.23	815.42	754.34	61.08	13.351				
12,000.00	10,600.00	12,714.00	11,288.78	43.04	40.99	146.74	1,448.84	284.36	815.14	752.82	62.33	13.078				
12,100.00	10,600.00	12,817.46	11,288.68	43.80	42.45	146.77	1,552.29	283.04	814.75	751.04	63.71	12.788				
12,200.00	10,600.00	12,924.51	11,288.41	44.60	44.02	146.85	1,659.31	280.64	813.70	748.52	65.18	12.484				
12,300.00	10,600.00	13,028.27	11,287.88	45.43	45.58	146.99	1,763.02	277.15	811.83	745.22	66.60	12.189				
12,400.00	10,600.00	13,126.54	11,287.56	46.29	47.10	147.16	1,861.22	273.47	809.91	741.97	67.94	11.921				
12,500.00	10,600.00	13,214.94	11,287.63	47.17	48.48	147.29	1,949.57	270.66	808.66	739.52	69.14	11.696				
12,516.00	10,600.00	13,228.27	11,287.84	47.32	48.69	147.32	1,962.89	270.20	808.64	739.32	69.31	11.666				
12,600.00	10,600.00	13,309.58	11,289.85	48.09	49.99	147.54	2,044.12	267.20	809.03	738.63	70.40	11.491				
12,700.00	10,600.00	13,424.09	11,291.92	49.04	51.85	147.87	2,158.50	262.26	808.66	736.62	72.04	11.225				
12,800.00	10,600.00	13,528.35	11,293.22	50.00	53.58	148.26	2,262.55	255.78	806.80	733.36	73.44	10.986				
12,900.00	10,600.00	13,648.02	11,293.14	50.99	55.59	148.68	2,381.97	248.06	803.76	728.60	75.15	10.695				
13,000.00	10,600.00	13,740.24	11,292.04	52.01	57.15	148.92	2,474.02	242.68	800.06	723.62	76.44	10.466				
13,100.00	10,600.00	13,834.79	11,291.35	53.04	58.77	149.17	2,568.43	237.52	797.00	719.21	77.78	10.246				
13,200.00	10,600.00	13,931.65	11,290.20	54.09	60.42	149.30	2,665.21	234.11	794.54	715.25	79.29	10.020				
13,300.00	10,600.00	14,034.84	11,288.24	55.16	62.19	149.36	2,768.35	231.33	791.89	710.86	81.03	9.773				

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 1H - Original Hole - Actuals													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-MWD+IGRF, 10819-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		
13,400.00	10,600.00	14,130.19	11,286.71	56.25	63.84	149.43	2,863.65	228.57	789.40	706.82	82.58	9.559		
13,500.00	10,600.00	14,225.48	11,286.00	57.36	65.49	149.53	2,958.89	225.81	787.64	703.52	84.12	9.363		
13,600.00	10,600.00	14,322.51	11,285.81	58.48	67.19	149.69	3,055.87	222.42	786.07	700.41	85.66	9.177		
13,672.26	10,600.00	14,385.54	11,286.72	59.30	68.30	149.87	3,118.82	219.67	785.65	699.11	86.54	9.079		
13,700.00	10,600.00	14,411.06	11,287.35	59.61	68.76	149.96	3,144.31	218.47	785.69	698.80	86.89	9.043		
13,800.00	10,600.00	14,504.45	11,289.89	60.76	70.41	150.25	3,237.59	214.77	786.43	698.22	88.21	8.915		
13,900.00	10,600.00	14,603.74	11,293.41	61.92	72.18	150.59	3,336.73	210.65	787.81	698.19	89.62	8.791		
14,000.00	10,600.00	14,718.02	11,296.32	63.10	74.23	150.96	3,450.86	205.53	788.20	696.85	91.35	8.628		
14,100.00	10,600.00	14,822.35	11,296.85	64.28	76.10	151.20	3,555.10	201.36	787.04	694.05	93.00	8.463		
14,200.00	10,600.00	14,917.99	11,297.56	65.48	77.82	151.41	3,650.68	197.77	786.23	691.78	94.46	8.324		
14,300.00	10,600.00	15,023.11	11,298.49	66.68	79.73	151.64	3,755.72	193.89	785.60	689.48	96.12	8.173		
14,400.00	10,600.00	15,133.16	11,298.23	67.90	81.72	151.88	3,865.67	189.31	783.76	685.85	97.91	8.005		
14,500.00	10,600.00	15,239.19	11,296.48	69.13	83.65	152.03	3,971.61	185.35	780.88	681.18	99.70	7.832		
14,600.00	10,600.00	15,338.28	11,294.48	70.36	85.46	152.15	4,070.61	181.68	777.70	676.34	101.36	7.673		
14,700.00	10,600.00	15,440.70	11,292.55	71.60	87.34	152.32	4,172.93	177.40	774.42	671.37	103.04	7.515		
14,800.00	10,600.00	15,541.71	11,290.70	72.85	89.20	152.52	4,273.81	172.58	770.91	666.27	104.64	7.367		
14,900.00	10,600.00	15,638.73	11,288.89	74.11	90.99	152.73	4,370.70	167.87	767.35	661.20	106.15	7.229		
15,000.00	10,600.00	15,725.54	11,288.45	75.38	92.60	152.93	4,457.41	163.89	765.11	657.73	107.38	7.125		
15,100.00	10,600.00	15,823.96	11,288.92	76.65	94.42	153.21	4,555.72	159.25	763.73	654.93	108.80	7.019		
15,200.00	10,600.00	15,920.77	11,289.73	77.93	96.22	153.50	4,652.42	154.75	762.72	652.55	110.17	6.923		
15,262.98	10,600.00	15,983.69	11,290.35	78.74	97.38	153.68	4,715.28	151.91	762.20	651.13	111.07	6.862 SF		
15,300.00	10,600.00	15,977.00	11,290.28	79.21	97.26	153.66	4,708.59	152.21	763.15	652.64	110.51	6.906		
15,400.00	10,600.00	15,977.00	11,290.28	80.50	97.26	153.66	4,708.59	152.21	774.54	665.89	108.65	7.129		
15,500.00	10,600.00	15,977.00	11,290.28	81.80	97.26	153.66	4,708.59	152.21	798.38	692.52	105.86	7.542		
15,575.11	10,600.00	15,977.00	11,290.28	82.77	97.26	153.66	4,708.59	152.21	823.85	720.51	103.34	7.972		

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 1H - Pilot Hole - Actuals		Offset Site Error: 0.00 ft	
Survey Program: 122-MWD+IGRF, 5261-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)					
0.00	0.00	7.23	7.23	0.50	0.01	93.17	-42.40	764.76	765.94							
100.00	100.00	107.60	107.60	0.52	0.15	93.15	-42.14	764.75	765.91	765.24	0.67	1,141.314				
126.51	126.51	134.21	134.21	0.55	0.19	93.14	-42.00	764.74	765.89	765.15	0.74	1,033.064				
200.00	200.00	204.73	204.73	0.70	0.47	93.10	-41.40	764.90	766.02	764.85	1.17	653.468				
300.00	300.00	305.51	305.50	0.99	0.83	93.00	-40.11	765.32	766.38	764.56	1.82	421.393				
400.00	400.00	407.70	407.68	1.31	1.20	92.87	-38.41	765.45	766.41	763.90	2.51	305.705				
497.54	497.54	504.78	504.74	1.64	1.55	92.75	-36.73	765.47	766.35	763.17	3.18	240.679				
500.00	500.00	507.14	507.09	1.65	1.55	92.74	-36.69	765.47	766.35	763.15	3.20	239.412				
600.00	600.00	605.18	605.14	1.99	1.91	92.68	-35.79	765.73	766.56	762.67	3.90	196.728				
700.00	700.00	712.69	712.65	2.34	2.28	92.66	-35.54	765.50	766.34	761.72	4.62	165.942				
800.00	800.00	815.84	815.78	2.69	2.63	92.69	-35.90	764.43	765.32	760.00	5.32	143.851				
900.00	900.00	917.74	917.67	3.04	2.98	92.73	-36.33	763.18	764.12	758.10	6.02	126.877				
1,000.00	1,000.00	1,017.36	1,017.29	3.40	3.33	92.76	-36.71	761.77	762.72	755.99	6.72	113.465				
1,100.00	1,100.00	1,118.15	1,118.07	3.75	3.68	92.80	-37.15	760.38	761.37	753.94	7.43	102.491				
1,200.00	1,200.00	1,211.84	1,211.75	4.11	4.01	92.81	-37.32	759.38	760.31	752.19	8.12	93.692				
1,300.00	1,300.00	1,311.38	1,311.29	4.46	4.36	92.81	-37.19	758.87	759.79	750.96	8.82	86.102				
1,400.00	1,400.00	1,410.65	1,410.56	4.82	4.71	92.82	-37.34	758.37	759.29	749.76	9.53	79.675				
1,500.00	1,500.00	1,511.44	1,511.34	5.18	5.07	92.83	-37.44	757.90	758.83	748.59	10.24	74.094				
1,600.00	1,600.00	1,619.55	1,619.44	5.53	5.45	92.75	-36.40	756.89	757.87	746.88	10.98	69.008				
1,700.00	1,700.00	1,721.13	1,720.99	5.89	5.81	92.63	-34.72	755.16	756.08	744.38	11.70	64.613				
1,800.00	1,800.00	1,820.98	1,820.82	6.25	6.17	92.54	-33.42	753.40	754.26	741.85	12.42	60.751				
1,900.00	1,900.00	1,917.39	1,917.22	6.61	6.52	92.49	-32.69	751.93	752.70	739.58	13.12	57.379				
2,000.00	2,000.00	2,017.84	2,017.66	6.96	6.88	92.48	-32.52	750.57	751.35	737.51	13.83	54.314				
2,100.00	2,100.00	2,119.33	2,119.14	7.32	7.24	92.49	-32.58	749.07	749.87	735.32	14.55	51.532				
2,200.00	2,200.00	2,221.55	2,221.34	7.68	7.60	92.48	-32.34	747.26	748.09	732.82	15.27	48.980				
2,300.00	2,300.00	2,321.10	2,320.87	8.04	7.96	92.45	-31.89	745.41	746.22	730.23	15.99	46.677				
2,400.00	2,400.00	2,419.86	2,419.61	8.39	8.31	92.44	-31.74	743.68	744.46	727.76	16.70	44.585				
2,500.00	2,500.00	2,519.58	2,519.33	8.75	8.67	92.45	-31.69	742.09	742.86	725.45	17.41	42.666				
2,600.00	2,600.00	2,620.96	2,620.69	9.11	9.03	92.44	-31.51	740.33	741.12	722.99	18.13	40.877				
2,700.00	2,700.00	2,721.78	2,721.49	9.47	9.40	92.41	-31.03	738.45	739.24	720.39	18.85	39.219				
2,800.00	2,800.00	2,821.30	2,820.99	9.83	9.75	92.35	-30.26	736.56	737.31	717.74	19.56	37.688				
2,900.00	2,900.00	2,920.27	2,919.93	10.18	10.11	92.28	-29.23	734.82	735.51	715.24	20.28	36.275				
3,000.00	3,000.00	3,019.43	3,019.07	10.54	10.46	92.20	-28.19	733.20	733.84	712.85	20.99	34.963				
3,100.00	3,100.00	3,118.60	3,118.23	10.90	10.82	92.10	-26.86	731.70	732.28	710.57	21.70	33.743				
3,200.00	3,200.00	3,216.69	3,216.30	11.26	11.17	91.97	-25.12	730.41	730.90	708.49	22.41	32.615				
3,300.00	3,300.00	3,314.82	3,314.40	11.62	11.52	91.81	-23.10	729.41	729.81	706.70	23.12	31.570				
3,400.00	3,400.00	3,415.06	3,414.61	11.97	11.88	91.63	-20.78	728.46	728.80	704.96	23.83	30.582				
3,500.00	3,500.00	3,515.17	3,514.69	12.33	12.23	91.45	-18.42	727.55	727.82	703.27	24.54	29.652				
3,594.10	3,594.10	3,608.88	3,608.36	12.65	12.56	-126.27	-15.94	726.55	727.22	702.02	25.20	28.858				
3,600.00	3,600.00	3,614.41	3,613.88	12.67	12.58	-126.28	-15.79	726.50	727.22	701.98	25.24	28.813				
3,700.00	3,699.96	3,710.33	3,709.76	13.00	12.92	-126.65	-13.02	726.04	728.24	702.33	25.91	28.111				
3,737.73	3,737.66	3,747.95	3,747.37	13.13	13.06	-126.82	-12.02	725.92	728.97	702.80	26.16	27.863				
3,800.00	3,799.88	3,809.01	3,808.41	13.33	13.27	-127.09	-10.54	725.75	730.34	703.76	26.58	27.475				
3,900.00	3,899.79	3,905.36	3,904.74	13.66	13.61	-127.52	-8.24	725.79	732.88	705.63	27.25	26.895				
4,000.00	3,999.71	4,000.73	4,000.07	13.99	13.94	-127.96	-5.70	726.37	736.05	708.14	27.91	26.370				
4,100.00	4,099.62	4,096.69	4,096.01	14.32	14.27	-128.32	-4.18	727.51	739.82	711.24	28.57	25.891				
4,200.00	4,199.53	4,192.95	4,192.24	14.66	14.60	-128.70	-2.43	729.12	744.11	714.87	29.24	25.451				
4,300.00	4,299.45	4,300.32	4,299.55	15.00	14.98	-129.19	0.57	730.98	748.55	718.60	29.95	24.992				
4,400.00	4,399.36	4,401.32	4,400.49	15.33	15.33	-129.70	4.08	731.35	751.68	721.03	30.64	24.529				
4,500.00	4,499.28	4,479.53	4,478.65	15.67	15.60	-130.06	6.38	732.70	756.27	725.04	31.23	24.214				
4,600.00	4,599.19	4,556.25	4,555.24	16.01	15.86	-130.24	6.43	736.96	764.42	732.63	31.78	24.050				
4,700.00	4,699.10	4,650.64	4,649.39	16.35	16.17	-130.36	5.46	743.67	774.14	741.71	32.42	23.876				

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

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 1H - Pilot Hole - Actuals		Offset Site Error: 0.00 ft	
Survey Program: 122-MWD+IGRF, 5261-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				
4,800.00	4,799.02	4,742.66	4,741.13	16.69	16.48	-130.48	4.55	750.78	784.50	751.45	33.05	23.739				
4,900.00	4,898.93	4,828.41	4,826.48	17.04	16.76	-130.51	2.75	758.80	796.40	762.77	33.62	23.685				
5,000.00	4,998.85	4,921.15	4,918.64	17.38	17.08	-130.48	-0.15	768.75	809.61	775.36	34.25	23.640				
5,100.00	5,098.76	5,031.99	5,028.81	17.72	17.45	-130.41	-3.91	780.37	822.60	787.60	35.00	23.502				
5,200.00	5,198.67	5,151.96	5,148.33	18.07	17.78	-130.42	-7.17	790.14	833.24	797.51	35.73	23.321				
5,300.00	5,298.59	5,266.92	5,263.05	18.41	17.99	-130.49	-9.38	797.15	841.92	805.62	36.30	23.192				
5,400.00	5,398.50	5,371.72	5,367.70	18.76	17.99	-130.55	-11.52	802.31	849.42	812.76	36.66	23.172				
5,500.00	5,498.42	5,474.79	5,470.62	19.11	18.01	-130.54	-14.63	806.88	856.38	819.35	37.02	23.130				
5,600.00	5,598.33	5,585.47	5,581.12	19.45	18.04	-130.44	-19.47	811.01	862.56	825.15	37.41	23.056				
5,700.00	5,698.24	5,697.94	5,693.36	19.80	18.08	-130.23	-25.95	813.70	867.34	829.53	37.81	22.941				
5,800.00	5,798.16	5,809.24	5,804.39	20.15	18.12	-129.96	-33.60	814.89	870.77	832.56	38.20	22.792				
5,900.00	5,898.07	5,917.47	5,912.37	20.50	18.18	-129.70	-41.04	814.74	872.99	834.39	38.61	22.613				
6,000.00	5,997.98	6,024.95	6,019.62	20.85	18.23	-129.47	-48.00	813.71	874.44	835.42	39.01	22.414				
6,100.00	6,097.90	6,135.27	6,129.75	21.20	18.30	-129.31	-54.01	811.46	874.86	835.43	39.43	22.189				
6,200.00	6,197.81	6,239.69	6,234.03	21.55	18.37	-129.25	-58.34	808.38	874.40	834.56	39.85	21.944				
6,300.00	6,297.73	6,347.80	6,342.03	21.90	18.45	-129.31	-61.12	804.39	873.25	832.98	40.27	21.685				
6,400.00	6,397.64	6,459.10	6,453.20	22.25	18.53	-129.48	-62.31	799.05	871.07	830.37	40.69	21.406				
6,500.00	6,497.55	6,578.36	6,572.20	22.61	18.63	-129.68	-63.31	791.22	867.13	826.02	41.11	21.094				
6,600.00	6,597.47	6,703.18	6,696.48	22.96	18.75	-129.90	-64.46	779.79	860.59	819.09	41.50	20.736				
6,700.00	6,697.38	6,803.92	6,796.63	23.31	18.85	-130.07	-65.53	768.96	852.45	810.50	41.95	20.320				
6,800.00	6,797.30	6,900.07	6,892.24	23.66	18.96	-130.22	-66.78	758.82	844.52	802.10	42.42	19.908				
6,900.00	6,897.21	6,993.50	6,985.19	24.02	19.07	-130.37	-68.00	749.52	837.18	794.28	42.90	19.514				
7,000.00	6,997.12	7,089.55	7,080.82	24.37	19.19	-130.53	-69.25	740.55	830.47	787.09	43.38	19.143				
7,100.00	7,097.04	7,201.92	7,192.63	24.73	19.34	-130.71	-70.81	729.47	823.24	779.40	43.84	18.780				
7,200.00	7,196.95	7,311.59	7,301.55	25.08	19.49	-130.88	-72.55	716.81	814.30	770.00	44.30	18.383				
7,300.00	7,296.87	7,409.22	7,398.49	25.43	19.64	-131.04	-74.08	705.32	805.16	760.37	44.79	17.975				
7,400.00	7,396.78	7,506.74	7,495.34	25.79	19.80	-131.18	-75.77	694.08	796.25	750.96	45.30	17.578				
7,500.00	7,496.69	7,602.94	7,590.92	26.14	19.96	-131.34	-77.28	683.29	787.68	741.87	45.81	17.194				
7,600.00	7,596.61	7,697.85	7,685.28	26.50	20.12	-131.50	-78.80	673.16	779.65	733.31	46.33	16.827				
7,700.00	7,696.52	7,799.46	7,786.34	26.86	20.30	-131.65	-80.63	662.74	772.04	725.20	46.85	16.480				
7,800.00	7,796.44	7,901.35	7,887.60	27.21	20.49	-131.80	-82.59	651.63	763.76	716.40	47.36	16.126				
7,900.00	7,896.35	7,995.70	7,981.40	27.57	20.67	-131.92	-84.67	641.64	755.80	707.89	47.90	15.778				
8,000.00	7,996.26	8,099.26	8,084.40	27.92	20.88	-132.05	-87.01	631.12	748.27	699.84	48.43	15.452				
8,100.00	8,096.18	8,195.17	8,179.73	28.28	21.07	-132.15	-89.51	620.93	740.25	691.27	48.97	15.115				
8,200.00	8,196.09	8,298.02	8,282.01	28.64	21.29	-132.25	-92.26	610.49	732.68	683.18	49.51	14.799				
8,300.00	8,296.01	8,394.61	8,378.03	28.99	21.50	-132.34	-94.93	600.40	724.83	674.77	50.06	14.478				
8,400.00	8,395.92	8,500.15	8,482.95	29.35	21.73	-132.41	-98.22	589.42	716.99	666.38	50.60	14.169				
8,500.00	8,495.83	8,593.11	8,575.35	29.71	21.95	-132.45	-101.41	579.72	709.09	657.91	51.18	13.856				
8,600.00	8,595.75	8,689.71	8,671.43	30.06	22.17	-132.47	-104.86	570.36	701.91	650.16	51.75	13.564				
8,700.00	8,695.66	8,788.27	8,769.48	30.42	22.40	-132.49	-108.53	561.11	695.02	642.71	52.32	13.285				
8,800.00	8,795.58	8,879.50	8,860.31	30.78	22.62	-132.49	-111.99	553.21	688.86	635.97	52.90	13.022				
8,900.00	8,895.49	8,970.68	8,951.17	31.14	22.84	-132.48	-115.45	546.45	683.94	630.46	53.48	12.788				
9,000.00	8,995.40	9,061.91	9,042.16	31.50	23.05	-132.47	-118.89	540.84	680.28	626.22	54.06	12.584				
9,100.00	9,095.32	9,158.18	9,138.23	31.85	23.28	-132.46	-122.40	535.82	677.56	622.92	54.64	12.401				
9,200.00	9,195.23	9,256.34	9,236.22	32.21	23.52	-132.48	-125.58	531.04	675.23	620.01	55.22	12.227				
9,300.00	9,295.14	9,349.93	9,329.69	32.57	23.74	-132.53	-128.21	527.00	673.49	617.69	55.80	12.069				
9,400.00	9,395.06	9,445.94	9,425.61	32.93	23.97	-132.60	-130.69	523.60	672.53	616.15	56.39	11.927				
9,455.53	9,450.54	9,496.99	9,476.63	33.13	24.09	-132.63	-131.95	522.10	672.35	615.64	56.71	11.856 CC				
9,500.00	9,494.97	9,537.85	9,517.45	33.29	24.19	-132.66	-132.96	521.15	672.47	615.50	56.96	11.805				
9,523.61	9,518.56	9,559.61	9,539.21	33.37	24.24	-132.68	-133.50	520.73	672.63	615.53	57.10	11.780				
9,600.00	9,594.91	9,630.10	9,609.67	33.64	24.41	-132.66	-135.41	519.80	673.07	615.53	57.54	11.698				
9,682.09	9,677.00	9,705.69	9,685.23	33.93	24.58	84.93	-137.54	519.51	673.14	615.14	58.00	11.606				

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 1H - Pilot Hole - Actuals													Offset Site Error:	0.00 ft
Survey Program: 122-MWD+IGRF, 5261-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)			
9,694.93	9,689.84	9,717.51	9,697.04	33.97	24.61	84.96	-137.87	519.53	673.13	615.06	58.07	11.592		
9,700.00	9,694.91	9,722.17	9,701.70	33.99	24.62	84.97	-137.99	519.54	673.13	615.03	58.10	11.586		
9,800.00	9,794.91	9,818.69	9,798.18	34.33	24.84	85.19	-140.51	520.09	673.48	614.82	58.66	11.480	ES	
9,900.00	9,894.91	9,908.78	9,888.22	34.68	25.05	85.41	-143.04	521.47	674.77	615.57	59.20	11.398		
10,000.00	9,994.91	10,005.96	9,985.32	35.02	25.26	85.70	-146.29	523.99	677.10	617.33	59.77	11.328		
10,032.13	10,027.04	10,038.52	10,017.85	35.13	25.34	85.80	-147.39	524.88	677.90	617.93	59.96	11.305		
10,050.00	10,044.90	10,056.78	10,036.10	35.19	25.38	86.25	-147.97	525.36	678.30	618.24	60.07	11.292		
10,100.00	10,094.75	10,107.66	10,086.94	35.36	25.50	86.61	-149.47	526.63	679.22	618.85	60.36	11.252		
10,150.00	10,144.08	10,157.89	10,137.13	35.53	25.61	87.34	-150.83	527.78	679.87	619.21	60.66	11.208		
10,200.00	10,192.52	10,207.11	10,186.32	35.68	25.73	88.42	-152.14	528.83	680.45	619.50	60.95	11.165		
10,250.00	10,239.69	10,255.03	10,234.22	35.84	25.84	89.77	-153.35	529.77	681.19	619.96	61.23	11.125		
10,300.00	10,285.26	10,301.27	10,280.44	35.98	25.95	91.33	-154.43	530.60	682.40	620.89	61.51	11.094		
10,350.00	10,328.85	10,342.46	10,321.61	36.12	26.05	92.87	-155.41	531.36	684.56	622.80	61.77	11.083	SF	
10,400.00	10,370.15	10,381.56	10,360.69	36.25	26.14	94.42	-156.40	532.16	688.11	626.10	62.02	11.096		
10,450.00	10,408.84	10,417.98	10,397.09	36.37	26.23	95.85	-157.37	532.98	693.45	631.19	62.26	11.138		
10,500.00	10,444.62	10,451.46	10,430.55	36.49	26.31	97.08	-158.29	533.80	700.93	638.45	62.49	11.217		
10,550.00	10,477.22	10,481.74	10,460.81	36.61	26.38	97.99	-159.15	534.58	710.89	648.19	62.70	11.337		
10,600.00	10,506.40	10,508.49	10,487.53	36.73	26.44	98.49	-159.93	535.32	723.57	660.67	62.90	11.503		
10,650.00	10,531.93	10,531.57	10,510.59	36.85	26.50	98.51	-160.63	535.98	739.14	676.06	63.09	11.716		
10,700.00	10,553.61	10,550.85	10,529.86	36.97	26.54	97.96	-161.23	536.56	757.66	694.41	63.25	11.979		
10,750.00	10,571.29	10,566.20	10,545.19	37.10	26.58	96.79	-161.73	537.04	779.08	715.69	63.39	12.291		
10,800.00	10,584.83	10,577.52	10,556.50	37.22	26.61	94.95	-162.10	537.39	803.25	739.75	63.50	12.649		
10,850.00	10,594.12	10,584.84	10,563.81	37.34	26.63	92.39	-162.34	537.63	829.93	766.34	63.60	13.050		
10,900.00	10,599.10	10,588.02	10,566.99	37.47	26.63	89.12	-162.44	537.73	858.80	795.14	63.66	13.490		
10,932.14	10,600.00	10,587.85	10,566.82	37.55	26.63	86.65	-162.44	537.73	878.34	814.64	63.70	13.790		
11,000.00	10,600.00	10,585.67	10,564.64	37.73	26.63	86.46	-162.37	537.66	921.86	858.11	63.75	14.460		
11,100.00	10,600.00	10,582.47	10,561.44	38.04	26.62	86.20	-162.26	537.55	990.98	927.15	63.83	15.526		
11,200.00	10,600.00	10,579.30	10,558.28	38.41	26.61	85.94	-162.15	537.45	1,065.00	1,001.11	63.89	16.669		
11,300.00	10,600.00	10,576.22	10,555.20	38.83	26.61	85.68	-162.05	537.35	1,142.98	1,079.03	63.95	17.873		
11,400.00	10,600.00	10,573.16	10,552.14	39.30	26.60	85.43	-161.95	537.26	1,224.15	1,160.15	64.00	19.127		
11,500.00	10,600.00	10,570.13	10,549.11	39.81	26.59	85.18	-161.85	537.16	1,307.93	1,243.88	64.04	20.422		
11,600.00	10,600.00	10,567.12	10,546.11	40.37	26.58	84.93	-161.76	537.06	1,393.84	1,329.75	64.08	21.750		
11,700.00	10,600.00	10,564.14	10,543.13	40.98	26.58	84.68	-161.66	536.97	1,481.51	1,417.39	64.12	23.106		
11,800.00	10,600.00	10,561.18	10,540.17	41.62	26.57	84.44	-161.56	536.88	1,570.65	1,506.50	64.15	24.484		
11,900.00	10,600.00	10,558.24	10,537.24	42.31	26.56	84.19	-161.47	536.79	1,661.02	1,596.84	64.18	25.880		
12,000.00	10,600.00	10,555.33	10,534.33	43.04	26.55	83.95	-161.38	536.70	1,752.43	1,688.22	64.21	27.292		
12,100.00	10,600.00	10,552.45	10,531.45	43.80	26.55	83.72	-161.28	536.61	1,844.73	1,780.49	64.24	28.718		
12,200.00	10,600.00	10,549.58	10,528.59	44.60	26.54	83.48	-161.19	536.52	1,937.79	1,873.53	64.26	30.154		
12,300.00	10,600.00	10,546.74	10,525.75	45.43	26.53	83.25	-161.10	536.44	2,031.50	1,967.21	64.29	31.600		
12,400.00	10,600.00	10,543.93	10,522.94	46.29	26.53	83.01	-161.01	536.35	2,125.78	2,061.47	64.31	33.053		
12,500.00	10,600.00	10,541.13	10,520.15	47.17	26.52	82.78	-160.93	536.27	2,220.56	2,156.22	64.34	34.513		
12,600.00	10,600.00	10,538.36	10,517.38	48.09	26.51	82.56	-160.84	536.19	2,315.78	2,251.41	64.36	35.979		
12,700.00	10,600.00	10,535.61	10,514.63	49.04	26.51	82.33	-160.75	536.10	2,411.37	2,346.98	64.39	37.449		
12,800.00	10,600.00	10,532.89	10,511.91	50.00	26.50	82.11	-160.67	536.02	2,507.31	2,442.90	64.42	38.924		
12,900.00	10,600.00	10,530.18	10,509.20	50.99	26.49	81.88	-160.59	535.94	2,603.55	2,539.11	64.44	40.401		
13,000.00	10,600.00	10,527.50	10,506.52	52.01	26.49	81.66	-160.50	535.86	2,700.06	2,635.59	64.47	41.881		
13,100.00	10,600.00	10,524.83	10,503.86	53.04	26.48	81.45	-160.42	535.79	2,796.82	2,732.32	64.50	43.364		
13,200.00	10,600.00	10,522.19	10,501.22	54.09	26.48	81.23	-160.34	535.71	2,893.79	2,829.26	64.52	44.848		
13,300.00	10,600.00	10,519.57	10,498.60	55.16	26.47	81.02	-160.26	535.63	2,990.95	2,926.40	64.55	46.333		
13,400.00	10,600.00	10,516.97	10,496.00	56.25	26.46	80.80	-160.18	535.56	3,088.30	3,023.72	64.58	47.819		
13,500.00	10,600.00	10,514.39	10,493.43	57.36	26.46	80.59	-160.10	535.49	3,185.81	3,121.19	64.61	49.306		
13,600.00	10,600.00	10,511.83	10,490.87	58.48	26.45	80.38	-160.03	535.41	3,283.46	3,218.82	64.64	50.793		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design												Sec 35-23S-33E - Sea Snake 35 State 1H - Pilot Hole - Actuals		Offset Site Error:		0.00 ft	
Survey Program:												122-MWD+IGRF, 5261-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)						
13,700.00	10,600.00	10,509.29	10,488.33	59.61	26.44	80.18	-159.95	535.34	3,381.25	3,316.58	64.68	52.280					
13,800.00	10,600.00	10,506.76	10,485.81	60.76	26.44	79.97	-159.88	535.27	3,479.17	3,414.46	64.71	53.767					
13,900.00	10,600.00	10,504.26	10,483.31	61.92	26.43	79.77	-159.80	535.20	3,577.19	3,512.45	64.74	55.254					
14,000.00	10,600.00	10,501.78	10,480.83	63.10	26.43	79.57	-159.73	535.13	3,675.32	3,610.55	64.78	56.740					
14,100.00	10,600.00	10,499.31	10,478.36	64.28	26.42	79.37	-159.66	535.06	3,773.55	3,708.74	64.81	58.224					
14,200.00	10,600.00	10,496.87	10,475.92	65.48	26.41	79.17	-159.58	534.99	3,871.87	3,807.02	64.85	59.708					
14,300.00	10,600.00	10,494.44	10,473.49	66.68	26.41	78.97	-159.51	534.93	3,970.27	3,905.38	64.88	61.191					
14,400.00	10,600.00	10,492.03	10,471.09	67.90	26.40	78.78	-159.44	534.86	4,068.74	4,003.82	64.92	62.672					
14,500.00	10,600.00	10,489.64	10,468.70	69.13	26.40	78.59	-159.37	534.80	4,167.29	4,102.33	64.96	64.152					
14,600.00	10,600.00	10,487.26	10,466.32	70.36	26.39	78.39	-159.30	534.73	4,265.90	4,200.90	65.00	65.630					
14,700.00	10,600.00	10,484.90	10,463.96	71.60	26.39	78.20	-159.24	534.67	4,364.57	4,299.53	65.04	67.107					
14,800.00	10,600.00	10,482.38	10,461.44	72.85	26.38	78.00	-159.16	534.60	4,463.30	4,398.22	65.08	68.581					
14,900.00	10,600.00	10,479.87	10,458.94	74.11	26.37	77.80	-159.09	534.53	4,562.09	4,496.96	65.12	70.054					
15,000.00	10,600.00	10,477.38	10,456.44	75.38	26.37	77.60	-159.02	534.47	4,660.92	4,595.76	65.17	71.525					
15,100.00	10,600.00	10,474.89	10,453.96	76.65	26.36	77.40	-158.95	534.40	4,759.80	4,694.60	65.21	72.993					
15,200.00	10,600.00	10,472.41	10,451.48	77.93	26.36	77.20	-158.88	534.33	4,858.73	4,793.48	65.25	74.459					
15,300.00	10,600.00	10,469.95	10,449.02	79.21	26.35	77.01	-158.81	534.27	4,957.70	4,892.40	65.30	75.923					
15,400.00	10,600.00	10,467.50	10,446.57	80.50	26.34	76.81	-158.74	534.21	5,056.71	4,991.36	65.35	77.384					
15,500.00	10,600.00	10,465.05	10,444.13	81.80	26.34	76.62	-158.67	534.14	5,155.75	5,090.36	65.39	78.843					
15,575.11	10,600.00	10,463.23	10,442.30	82.77	26.33	76.47	-158.62	534.10	5,230.16	5,164.73	65.43	79.936					

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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	8.33	8.33	0.50	0.01	92.95	-42.04	814.72	815.80					
100.00	100.00	116.55	116.54	0.52	0.19	92.94	-41.86	814.10	815.22	814.52	0.70	1,164.018		
200.00	200.00	224.73	224.72	0.70	0.37	92.91	-41.36	812.40	813.63	812.58	1.05	772.009		
300.00	300.00	326.23	326.19	0.99	0.75	92.85	-40.39	810.26	811.48	809.77	1.71	473.991		
400.00	400.00	426.53	426.45	1.31	1.10	92.78	-39.20	808.00	809.17	806.79	2.39	339.064		
500.00	500.00	523.70	523.60	1.65	1.45	92.71	-38.20	805.91	806.98	803.91	3.07	263.163		
600.00	600.00	619.71	619.58	1.99	1.79	92.63	-36.90	804.32	805.25	801.50	3.75	214.721		
700.00	700.00	716.70	716.55	2.34	2.13	92.51	-35.26	803.19	804.02	799.57	4.44	181.038		
800.00	800.00	818.38	818.21	2.69	2.48	92.42	-33.87	802.03	802.81	797.66	5.15	155.936		
900.00	900.00	920.47	920.29	3.04	2.84	92.37	-33.09	800.60	801.38	795.53	5.86	136.795		
1,000.00	1,000.00	1,019.89	1,019.69	3.40	3.18	92.31	-32.27	799.01	799.75	793.19	6.56	121.921		
1,100.00	1,100.00	1,117.92	1,117.72	3.75	3.52	92.28	-31.83	797.72	798.42	791.16	7.26	110.019		
1,200.00	1,200.00	1,215.73	1,215.52	4.11	3.86	92.28	-31.78	796.59	797.26	789.31	7.95	100.228		
1,300.00	1,300.00	1,309.41	1,309.20	4.46	4.18	92.28	-31.76	795.97	796.61	787.97	8.64	92.233		
1,318.38	1,318.38	1,326.29	1,326.08	4.53	4.24	92.29	-31.81	795.95	796.59	787.83	8.76	90.925		
1,400.00	1,400.00	1,409.61	1,409.39	4.82	4.42	92.31	-32.13	795.96	796.61	787.38	9.23	86.275		
1,500.00	1,500.00	1,515.08	1,514.87	5.18	4.61	92.31	-32.12	795.37	796.05	786.27	9.78	81.395		
1,600.00	1,600.00	1,617.54	1,617.32	5.53	4.70	92.29	-31.74	794.25	794.94	784.72	10.22	77.779		
1,700.00	1,700.00	1,717.16	1,716.93	5.89	4.76	92.27	-31.41	793.04	793.71	783.08	10.64	74.611		
1,800.00	1,800.00	1,812.51	1,812.28	6.25	4.84	92.29	-31.74	792.21	792.86	781.78	11.08	71.585		
1,900.00	1,900.00	1,910.61	1,910.37	6.61	4.94	92.35	-32.46	791.79	792.46	780.92	11.54	68.685		
2,000.00	2,000.00	2,010.33	2,010.09	6.96	5.07	92.41	-33.31	791.26	791.97	779.94	12.02	65.869		
2,022.46	2,022.46	2,030.40	2,030.16	7.04	5.10	92.42	-33.47	791.23	791.93	779.80	12.13	65.276 CC		
2,100.00	2,100.00	2,101.65	2,101.41	7.32	5.20	92.46	-33.96	791.56	792.31	779.80	12.51	63.321		
2,200.00	2,200.00	2,201.42	2,201.17	7.68	5.36	92.49	-34.43	792.40	793.17	780.14	13.03	60.869		
2,300.00	2,300.00	2,303.53	2,303.28	8.04	5.55	92.53	-35.01	793.04	793.83	780.25	13.57	58.485		
2,400.00	2,400.00	2,403.07	2,402.82	8.39	5.74	92.58	-35.76	793.56	794.38	780.25	14.13	56.227		
2,500.00	2,500.00	2,503.02	2,502.76	8.75	5.95	92.62	-36.29	794.22	795.06	780.36	14.70	54.093		
2,600.00	2,600.00	2,604.41	2,604.14	9.11	6.18	92.65	-36.82	794.70	795.56	780.28	15.28	52.049		
2,700.00	2,700.00	2,704.54	2,704.27	9.47	6.42	92.66	-36.98	795.13	796.00	780.12	15.88	50.129		
2,800.00	2,800.00	2,804.67	2,804.40	9.83	6.66	92.66	-36.94	795.56	796.42	779.94	16.48	48.321		
2,900.00	2,900.00	2,907.09	2,906.82	10.18	6.92	92.63	-36.63	795.89	796.73	779.63	17.10	46.600		
3,000.00	3,000.00	3,007.39	3,007.12	10.54	7.18	92.60	-36.17	795.95	796.77	779.06	17.71	44.979		
3,100.00	3,100.00	3,107.67	3,107.40	10.90	7.45	92.57	-35.79	796.03	796.84	778.50	18.34	43.450		
3,200.00	3,200.00	3,204.54	3,204.26	11.26	7.71	92.54	-35.39	796.25	797.04	778.08	18.96	42.032		
3,300.00	3,300.00	3,304.89	3,304.61	11.62	7.99	92.51	-34.97	796.71	797.48	777.88	19.60	40.680		
3,400.00	3,400.00	3,409.03	3,408.75	11.97	8.29	92.48	-34.47	796.87	797.62	777.36	20.26	39.369		
3,500.00	3,500.00	3,508.03	3,507.76	12.33	8.58	92.45	-34.07	796.85	797.58	776.67	20.91	38.150		
3,500.79	3,500.79	3,508.83	3,508.55	12.34	8.58	-125.02	-34.06	796.85	797.58	776.67	20.91	38.141		
3,600.00	3,600.00	3,608.43	3,608.16	12.67	8.88	-125.10	-33.70	796.80	798.01	776.47	21.54	37.040 ES		
3,700.00	3,699.96	3,706.66	3,706.38	13.00	9.17	-125.27	-33.27	796.92	799.63	777.46	22.17	36.074		
3,737.73	3,737.66	3,745.42	3,745.14	13.13	9.29	-125.36	-33.11	796.96	800.49	778.09	22.41	35.725		
3,800.00	3,799.88	3,808.65	3,808.37	13.33	9.48	-125.52	-32.92	796.93	801.95	779.15	22.80	35.167		
3,900.00	3,899.79	3,907.29	3,907.01	13.66	9.79	-125.79	-32.47	796.87	804.30	780.86	23.44	34.318		
4,000.00	3,999.71	4,004.35	4,004.07	13.99	10.09	-126.07	-31.81	797.16	807.02	782.95	24.07	33.529		
4,100.00	4,099.62	4,103.79	4,103.51	14.32	10.40	-126.35	-31.17	797.62	809.92	785.20	24.71	32.770		
4,200.00	4,199.53	4,202.82	4,202.53	14.66	10.72	-126.63	-30.57	798.13	812.89	787.52	25.36	32.050		
4,300.00	4,299.45	4,296.35	4,296.06	15.00	11.01	-126.89	-29.93	798.89	816.19	790.19	26.00	31.397		
4,400.00	4,399.36	4,383.16	4,382.84	15.33	11.29	-127.14	-29.37	800.71	820.79	794.19	26.60	30.854		
4,500.00	4,499.28	4,468.33	4,467.95	15.67	11.57	-127.35	-29.08	804.01	827.17	799.97	27.20	30.412		
4,600.00	4,599.19	4,554.68	4,554.17	16.01	11.85	-127.54	-29.14	808.75	835.18	807.39	27.80	30.047		
4,700.00	4,699.10	4,640.43	4,639.69	16.35	12.13	-127.72	-29.38	814.93	844.91	816.52	28.39	29.765		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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		
4,800.00	4,799.02	4,740.00	4,738.95	16.69	12.46	-127.88	-30.23	822.76	855.30	826.25	29.05	29.442		
4,900.00	4,898.93	4,830.15	4,828.75	17.04	12.76	-127.95	-32.07	830.43	866.32	836.66	29.66	29.204		
5,000.00	4,998.85	4,924.83	4,922.99	17.38	13.08	-127.97	-34.69	839.23	878.14	847.83	30.30	28.977		
5,100.00	5,098.76	5,024.90	5,022.56	17.72	13.42	-128.00	-37.51	848.83	890.24	859.26	30.98	28.736		
5,200.00	5,198.67	5,139.51	5,136.70	18.07	13.82	-128.05	-40.33	858.75	901.42	869.68	31.74	28.400		
5,300.00	5,298.59	5,248.79	5,245.68	18.41	14.19	-128.14	-42.43	866.57	911.10	878.63	32.47	28.060		
5,400.00	5,398.50	5,348.69	5,345.36	18.76	14.54	-128.22	-44.29	873.02	920.09	886.94	33.15	27.755		
5,500.00	5,498.42	5,436.69	5,433.10	19.11	14.84	-128.25	-46.57	879.30	929.76	895.99	33.77	27.532		
5,600.00	5,598.33	5,524.47	5,520.50	19.45	15.15	-128.24	-49.42	886.92	940.94	906.55	34.39	27.365		
5,700.00	5,698.24	5,620.28	5,615.83	19.80	15.49	-128.23	-52.54	895.90	952.82	917.77	35.05	27.186		
5,800.00	5,798.16	5,717.74	5,712.81	20.15	15.84	-128.23	-55.60	905.24	964.91	929.19	35.72	27.011		
5,900.00	5,898.07	5,814.42	5,808.97	20.50	16.19	-128.23	-58.60	914.73	977.24	940.85	36.39	26.852		
6,000.00	5,997.98	5,910.63	5,904.64	20.85	16.55	-128.24	-61.53	924.44	989.85	952.78	37.06	26.706		
6,100.00	6,097.90	6,007.56	6,001.00	21.20	16.90	-128.24	-64.43	934.53	1,002.75	965.01	37.74	26.570		
6,200.00	6,197.81	6,108.53	6,101.38	21.55	17.27	-128.25	-67.40	945.08	1,015.72	977.27	38.44	26.421		
6,300.00	6,297.73	6,212.38	6,204.65	21.90	17.66	-128.28	-70.18	955.54	1,028.31	989.14	39.17	26.255		
6,400.00	6,397.64	6,313.08	6,304.85	22.25	18.03	-128.31	-72.62	965.34	1,040.55	1,000.68	39.87	26.099		
6,500.00	6,497.55	6,412.88	6,404.16	22.61	18.40	-128.36	-74.80	974.99	1,052.75	1,012.18	40.57	25.950		
6,600.00	6,597.47	6,506.09	6,496.89	22.96	18.75	-128.40	-76.97	984.19	1,065.14	1,023.91	41.23	25.836		
6,700.00	6,697.38	6,598.68	6,588.91	23.31	19.10	-128.38	-80.10	993.95	1,078.19	1,036.30	41.88	25.742		
6,800.00	6,797.30	6,695.69	6,685.24	23.66	19.47	-128.31	-84.40	1,004.62	1,091.67	1,049.10	42.57	25.644		
6,900.00	6,897.21	6,795.92	6,784.76	24.02	19.86	-128.25	-88.78	1,015.65	1,105.17	1,061.89	43.28	25.536		
7,000.00	6,997.12	6,897.24	6,885.39	24.37	20.24	-128.19	-93.02	1,026.63	1,118.50	1,074.50	43.99	25.424		
7,100.00	7,097.04	7,000.10	6,987.59	24.73	20.64	-128.14	-97.07	1,037.51	1,131.57	1,086.85	44.72	25.303		
7,200.00	7,196.95	7,097.96	7,084.85	25.08	21.02	-128.11	-100.78	1,047.77	1,144.55	1,099.13	45.42	25.201		
7,300.00	7,296.87	7,200.44	7,186.67	25.43	21.41	-128.04	-105.36	1,058.38	1,157.40	1,111.26	46.14	25.083		
7,400.00	7,396.78	7,299.16	7,284.74	25.79	21.80	-127.95	-110.32	1,068.52	1,170.16	1,123.31	46.85	24.978		
7,500.00	7,496.69	7,398.54	7,383.47	26.14	22.18	-127.85	-115.42	1,078.72	1,182.92	1,135.36	47.56	24.874		
7,600.00	7,596.61	7,496.85	7,481.12	26.50	22.56	-127.76	-120.53	1,088.83	1,195.70	1,147.44	48.26	24.777		
7,700.00	7,696.52	7,593.72	7,577.34	26.86	22.94	-127.67	-125.52	1,098.94	1,208.63	1,159.68	48.95	24.689		
7,800.00	7,796.44	7,691.89	7,674.83	27.21	23.33	-127.59	-130.41	1,109.32	1,221.72	1,172.06	49.66	24.603		
7,900.00	7,896.35	7,791.80	7,774.07	27.57	23.72	-127.52	-135.14	1,119.89	1,234.79	1,184.42	50.37	24.513		
8,000.00	7,996.26	7,889.63	7,871.25	27.92	24.11	-127.46	-139.65	1,130.20	1,247.83	1,196.76	51.08	24.431		
8,100.00	8,096.18	7,986.26	7,967.21	28.28	24.49	-127.39	-144.22	1,140.61	1,261.12	1,209.35	51.77	24.360		
8,200.00	8,196.09	8,085.20	8,065.46	28.64	24.88	-127.33	-148.78	1,151.34	1,274.47	1,221.99	52.48	24.284		
8,300.00	8,296.01	8,183.99	8,163.55	28.99	25.28	-127.27	-153.34	1,162.07	1,287.84	1,234.65	53.19	24.210		
8,400.00	8,395.92	8,285.25	8,264.12	29.35	25.68	-127.22	-157.97	1,173.04	1,301.19	1,247.26	53.92	24.131		
8,500.00	8,495.83	8,385.74	8,363.92	29.71	26.08	-127.15	-162.75	1,183.71	1,314.32	1,259.67	54.64	24.052		
8,600.00	8,595.75	8,483.60	8,461.12	30.06	26.47	-127.09	-167.46	1,194.12	1,327.47	1,272.12	55.35	23.983		
8,700.00	8,695.66	8,581.27	8,558.11	30.42	26.86	-127.04	-172.01	1,204.62	1,340.74	1,284.68	56.06	23.917		
8,800.00	8,795.58	8,680.38	8,656.53	30.78	27.26	-126.98	-176.63	1,215.34	1,354.07	1,297.30	56.77	23.851		
8,900.00	8,895.49	8,780.50	8,755.96	31.14	27.66	-126.92	-181.36	1,226.13	1,367.36	1,309.87	57.50	23.782		
9,000.00	8,995.40	8,879.96	8,854.73	31.50	28.06	-126.87	-186.03	1,236.78	1,380.60	1,322.38	58.21	23.716		
9,100.00	9,095.32	8,981.60	8,956.67	31.85	28.51	-126.83	-190.78	1,248.31	1,393.45	1,334.44	59.01	23.614		
9,200.00	9,195.23	9,118.73	9,092.23	32.21	29.00	-126.84	-194.98	1,259.52	1,404.77	1,344.88	59.88	23.458		
9,300.00	9,295.14	9,228.66	9,201.83	32.57	29.42	-126.86	-198.05	1,267.52	1,414.54	1,353.88	60.66	23.321		
9,400.00	9,395.06	9,327.01	9,299.88	32.93	29.80	-126.88	-200.87	1,274.56	1,424.20	1,362.83	61.36	23.209		
9,500.00	9,494.97	9,427.61	9,400.18	33.29	30.18	-126.91	-203.63	1,281.79	1,433.90	1,371.81	62.09	23.095		
9,523.61	9,518.56	9,451.68	9,424.18	33.37	30.27	-126.91	-204.35	1,283.50	1,436.17	1,373.91	62.26	23.068		
9,600.00	9,594.91	9,523.95	9,496.23	33.64	30.55	-126.98	-206.67	1,288.71	1,443.14	1,380.36	62.78	22.986		
9,682.09	9,677.00	9,606.98	9,578.98	33.93	30.86	90.50	-209.64	1,294.82	1,449.74	1,386.37	63.37	22.877		
9,700.00	9,694.91	9,625.67	9,597.61	33.99	30.94	90.53	-210.38	1,296.17	1,451.04	1,387.54	63.50	22.850		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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		
9,800.00	9,794.91	9,743.27	9,714.81	34.33	31.38	90.75	-216.09	1,303.97	1,457.74	1,393.45	64.29	22.673		
9,900.00	9,894.91	9,848.26	9,819.42	34.68	31.78	91.01	-222.73	1,309.95	1,463.54	1,398.52	65.02	22.508		
10,000.00	9,994.91	9,941.57	9,912.32	35.02	32.13	91.28	-229.67	1,315.33	1,469.47	1,403.78	65.70	22.368		
10,032.13	10,027.04	9,972.83	9,943.41	35.13	32.25	91.37	-232.21	1,317.20	1,471.46	1,405.54	65.92	22.322		
10,050.00	10,044.90	9,990.17	9,960.67	35.19	32.32	91.74	-233.66	1,318.24	1,472.58	1,406.54	66.04	22.298		
10,100.00	10,094.75	10,038.12	10,008.34	35.36	32.50	91.71	-237.85	1,321.14	1,475.85	1,409.47	66.38	22.234		
10,150.00	10,144.08	10,084.85	10,054.80	35.53	32.68	91.80	-242.02	1,324.01	1,479.38	1,412.67	66.70	22.178		
10,200.00	10,192.52	10,129.17	10,098.85	35.68	32.85	91.98	-246.01	1,326.78	1,483.24	1,416.23	67.01	22.134		
10,250.00	10,239.69	10,169.53	10,138.96	35.84	33.01	92.18	-249.64	1,329.41	1,487.62	1,420.33	67.29	22.107		
10,300.00	10,285.26	10,208.14	10,177.32	35.98	33.16	92.41	-253.08	1,332.07	1,492.65	1,425.09	67.56	22.095		
10,350.00	10,328.85	10,247.89	10,216.81	36.12	33.31	92.68	-256.57	1,334.89	1,498.40	1,430.58	67.82	22.094		
10,400.00	10,370.15	10,285.46	10,254.15	36.25	33.46	92.93	-259.80	1,337.60	1,504.97	1,436.90	68.07	22.109		
10,450.00	10,408.84	10,321.65	10,290.12	36.37	33.60	93.13	-262.86	1,340.23	1,512.49	1,444.17	68.31	22.141		
10,500.00	10,444.62	10,356.34	10,324.60	36.49	33.74	93.26	-265.72	1,342.72	1,521.03	1,452.49	68.55	22.190		
10,550.00	10,477.22	10,387.56	10,355.64	36.61	33.86	93.23	-268.24	1,344.93	1,530.74	1,461.98	68.76	22.262		
10,600.00	10,506.40	10,414.79	10,382.71	36.73	33.97	92.98	-270.40	1,346.84	1,541.71	1,472.76	68.96	22.358		
10,650.00	10,531.93	10,437.85	10,405.65	36.85	34.06	92.50	-272.21	1,348.44	1,554.05	1,484.92	69.13	22.479		
10,700.00	10,553.61	10,456.78	10,424.48	36.97	34.13	91.74	-273.69	1,349.74	1,567.80	1,498.51	69.29	22.626		
10,750.00	10,571.29	10,471.43	10,439.05	37.10	34.19	90.68	-274.83	1,350.74	1,582.96	1,513.53	69.43	22.799		
10,800.00	10,584.83	10,481.67	10,449.23	37.22	34.23	89.31	-275.62	1,351.44	1,599.49	1,529.94	69.55	22.998		
10,850.00	10,594.12	10,487.39	10,454.92	37.34	34.25	87.62	-276.06	1,351.83	1,617.31	1,547.66	69.65	23.220		
10,900.00	10,599.10	10,488.54	10,456.07	37.47	34.26	85.62	-276.15	1,351.90	1,636.29	1,566.56	69.73	23.466		
10,932.14	10,600.00	10,486.86	10,454.39	37.55	34.25	84.17	-276.02	1,351.79	1,649.02	1,579.24	69.77	23.634		
11,000.00	10,600.00	10,481.28	10,448.84	37.73	34.23	83.96	-275.59	1,351.41	1,677.43	1,607.57	69.86	24.012		
11,100.00	10,600.00	10,473.03	10,440.64	38.04	34.20	83.65	-274.95	1,350.85	1,723.29	1,653.28	70.01	24.615		
11,200.00	10,600.00	12,169.04	11,238.63	38.41	39.96	111.17	750.72	1,471.52	1,749.74	1,676.60	73.14	23.924		
11,300.00	10,600.00	12,253.12	11,238.70	38.83	40.61	111.23	834.64	1,466.27	1,744.63	1,670.47	74.16	23.524		
11,400.00	10,600.00	12,322.00	11,238.74	39.30	41.19	111.26	903.44	1,462.96	1,740.88	1,665.68	75.20	23.150		
11,500.00	10,600.00	12,395.94	11,239.14	39.81	41.86	111.30	977.33	1,460.57	1,738.77	1,662.40	76.36	22.770		
11,600.00	10,600.00	12,481.06	11,240.26	40.37	42.68	111.34	1,062.43	1,458.89	1,738.06	1,660.37	77.68	22.374		
11,659.19	10,600.00	12,533.17	11,240.72	40.73	43.20	111.36	1,114.53	1,458.21	1,737.92	1,659.39	78.52	22.132		
11,700.00	10,600.00	12,567.29	11,241.18	40.98	43.55	111.38	1,148.65	1,457.86	1,737.99	1,658.89	79.10	21.971		
11,800.00	10,600.00	12,653.73	11,243.01	41.62	44.48	111.43	1,235.07	1,457.28	1,738.81	1,658.21	80.60	21.573		
11,900.00	10,600.00	12,745.69	11,245.40	42.31	45.51	111.50	1,326.99	1,457.12	1,740.25	1,658.03	82.22	21.166		
12,000.00	10,600.00	12,850.86	11,248.22	43.04	46.75	111.58	1,432.13	1,457.09	1,741.88	1,657.85	84.03	20.728		
12,100.00	10,600.00	12,962.25	11,251.99	43.80	48.11	111.70	1,543.45	1,455.95	1,742.84	1,656.87	85.97	20.272		
12,200.00	10,600.00	13,080.94	11,254.40	44.60	49.62	111.78	1,662.10	1,454.40	1,743.05	1,654.98	88.07	19.792		
12,300.00	10,600.00	13,191.21	11,254.64	45.43	51.08	111.80	1,772.36	1,452.75	1,742.41	1,652.21	90.20	19.318		
12,400.00	10,600.00	13,300.13	11,254.66	46.29	52.56	111.82	1,881.25	1,450.33	1,741.00	1,648.62	92.38	18.847		
12,500.00	10,600.00	13,399.87	11,253.36	47.17	53.95	111.79	1,980.97	1,448.72	1,739.68	1,645.13	94.55	18.399		
12,600.00	10,600.00	13,528.30	11,251.02	48.09	55.79	111.74	2,109.34	1,445.73	1,737.54	1,640.46	97.08	17.897		
12,700.00	10,600.00	13,638.23	11,249.40	49.04	57.40	111.74	2,219.18	1,441.43	1,734.01	1,634.53	99.47	17.432		
12,800.00	10,600.00	13,756.48	11,247.51	50.00	59.16	111.73	2,337.28	1,436.00	1,729.82	1,627.83	101.99	16.961		
12,900.00	10,600.00	13,850.36	11,245.48	50.99	60.59	111.72	2,431.04	1,431.54	1,725.27	1,620.94	104.33	16.537		
13,000.00	10,600.00	13,934.23	11,244.93	52.01	61.89	111.74	2,514.81	1,427.62	1,721.34	1,614.77	106.57	16.152		
13,100.00	10,600.00	14,019.67	11,245.40	53.04	63.22	111.79	2,600.18	1,424.03	1,718.30	1,609.45	108.85	15.786		
13,200.00	10,600.00	14,125.74	11,246.31	54.09	64.89	111.86	2,706.15	1,419.74	1,715.53	1,604.16	111.37	15.404		
13,300.00	10,600.00	14,222.32	11,247.57	55.16	66.43	111.95	2,802.63	1,415.51	1,712.62	1,598.80	113.82	15.047		
13,400.00	10,600.00	14,303.58	11,248.13	56.25	67.74	111.99	2,883.84	1,412.75	1,710.39	1,594.25	116.14	14.727		
13,500.00	10,600.00	14,380.15	11,247.89	57.36	68.99	111.99	2,960.40	1,411.47	1,709.39	1,590.95	118.44	14.433		
13,522.62	10,600.00	14,397.43	11,247.77	57.61	69.27	111.99	2,977.68	1,411.37	1,709.35	1,590.39	118.96	14.369		
13,600.00	10,600.00	14,475.79	11,246.71	58.48	70.55	111.95	3,056.03	1,411.25	1,709.36	1,588.35	121.02	14.125		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 2H - Original Hole - Actual													Offset Site Error:	0.00 ft
Survey Program: 217-GYRO-NS, 1546-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		
13,700.00	10,600.00	14,585.48	11,244.53	59.61	72.36	111.88	3,165.70	1,410.98	1,709.06	1,585.25	123.81	13.803		
13,800.00	10,600.00	14,705.75	11,242.52	60.76	74.37	111.83	3,285.93	1,409.12	1,707.63	1,580.88	126.75	13.472		
13,900.00	10,600.00	14,794.47	11,242.24	61.92	75.86	111.83	3,374.63	1,407.25	1,706.21	1,576.90	129.30	13.195		
14,000.00	10,600.00	14,892.72	11,242.54	63.10	77.52	111.86	3,472.86	1,405.17	1,705.02	1,573.04	131.97	12.919		
14,100.00	10,600.00	14,977.90	11,243.28	64.28	78.96	111.89	3,558.02	1,403.76	1,704.46	1,569.96	134.49	12.673		
14,200.00	10,600.00	15,085.73	11,244.24	65.48	80.80	111.93	3,665.84	1,402.17	1,704.09	1,566.78	137.31	12.410		
14,300.00	10,600.00	15,185.52	11,244.56	66.68	82.52	111.96	3,765.61	1,400.37	1,703.19	1,563.14	140.06	12.161		
14,342.95	10,600.00	15,217.86	11,244.71	67.21	83.07	111.96	3,797.95	1,399.97	1,703.06	1,561.95	141.11	12.069		
14,400.00	10,600.00	15,266.85	11,245.08	67.90	83.92	111.98	3,846.94	1,399.68	1,703.28	1,560.70	142.58	11.946		
14,492.59	10,600.00	15,367.51	11,246.04	69.04	85.66	112.01	3,947.58	1,398.49	1,703.18	1,557.94	145.25	11.726		
14,500.00	10,600.00	15,372.66	11,246.10	69.13	85.75	112.01	3,952.74	1,398.43	1,703.19	1,557.76	145.42	11.712		
14,600.00	10,600.00	15,442.99	11,247.18	70.36	86.97	112.04	4,023.05	1,398.28	1,704.21	1,556.41	147.80	11.531		
14,700.00	10,600.00	15,552.13	11,248.56	71.60	88.88	112.07	4,132.19	1,398.85	1,705.83	1,555.11	150.73	11.317		
14,800.00	10,600.00	15,669.04	11,249.69	72.85	90.93	112.10	4,249.09	1,398.71	1,706.76	1,552.98	153.77	11.099		
14,900.00	10,600.00	15,784.85	11,249.92	74.11	92.96	112.11	4,364.89	1,397.50	1,706.51	1,549.68	156.82	10.882		
15,000.00	10,600.00	15,899.22	11,249.70	75.38	94.99	112.11	4,479.25	1,395.60	1,705.57	1,545.70	159.86	10.669		
15,100.00	10,600.00	16,021.43	11,248.74	76.65	97.16	112.11	4,601.41	1,392.40	1,703.51	1,540.50	163.01	10.450		
15,200.00	10,600.00	16,123.39	11,247.04	77.93	98.98	112.09	4,703.31	1,389.29	1,700.71	1,534.76	165.95	10.248		
15,258.96	10,600.00	16,134.00	11,246.86	78.68	99.17	112.09	4,713.91	1,388.96	1,699.72	1,532.66	167.06	10.174		
15,300.00	10,600.00	16,134.00	11,246.86	79.21	99.17	112.09	4,713.91	1,388.96	1,700.22	1,532.56	167.66	10.141		
15,400.00	10,600.00	16,134.00	11,246.86	80.50	99.17	112.09	4,713.91	1,388.96	1,705.57	1,536.78	168.78	10.105 SF		
15,500.00	10,600.00	16,134.00	11,246.86	81.80	99.17	112.09	4,713.91	1,388.96	1,716.73	1,547.29	169.44	10.132		
15,575.11	10,600.00	16,134.00	11,246.86	82.77	99.17	112.09	4,713.91	1,388.96	1,728.87	1,559.24	169.63	10.192		

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 3H - Original Hole - Original Hole		Offset Site Error: 0.00 ft	
Survey Program: 124-MWD+IGRF, 10589-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	0.00	90.67	-30.34	2,613.83	2,614.02							
100.00	100.00	126.79	126.79	0.52	0.18	90.66	-29.93	2,612.92	2,613.36	2,612.66	0.70	3,731.988				
200.00	200.00	233.34	233.32	0.70	0.57	90.64	-29.11	2,611.45	2,611.99	2,610.72	1.27	2,052.316				
300.00	300.00	337.56	337.52	0.99	0.95	90.62	-28.10	2,609.47	2,610.07	2,608.14	1.93	1,351.196				
400.00	400.00	422.86	422.80	1.31	1.25	90.60	-27.14	2,608.12	2,608.48	2,605.92	2.56	1,019.483				
500.00	500.00	504.60	504.53	1.65	1.55	90.58	-26.30	2,607.36	2,607.54	2,604.35	3.19	818.021				
600.00	600.00	593.51	593.44	1.99	1.86	90.56	-25.49	2,607.05	2,607.17	2,603.33	3.85	677.593				
647.36	647.36	636.64	636.56	2.16	2.01	90.55	-25.11	2,607.02	2,607.14	2,602.98	4.16	626.063				
700.00	700.00	685.50	685.43	2.34	2.18	90.54	-24.72	2,607.06	2,607.18	2,602.66	4.52	576.913				
800.00	800.00	778.33	778.26	2.69	2.51	90.53	-24.12	2,607.33	2,607.46	2,602.26	5.20	501.909				
900.00	900.00	873.48	873.40	3.04	2.84	90.52	-23.46	2,607.82	2,607.98	2,602.10	5.88	443.536				
1,000.00	1,000.00	979.45	979.37	3.40	3.21	90.50	-22.72	2,608.38	2,608.50	2,601.90	6.61	394.863				
1,100.00	1,100.00	1,094.70	1,094.61	3.75	3.62	90.49	-22.14	2,608.40	2,608.50	2,601.13	7.37	353.905				
1,200.00	1,200.00	1,194.00	1,193.92	4.11	3.98	90.48	-21.77	2,608.20	2,608.29	2,600.21	8.08	322.760				
1,300.00	1,300.00	1,294.39	1,294.30	4.46	4.33	90.47	-21.30	2,608.05	2,608.14	2,599.34	8.80	296.509				
1,400.00	1,400.00	1,395.68	1,395.59	4.82	4.70	90.46	-20.93	2,607.81	2,607.90	2,598.39	9.51	274.090				
1,500.00	1,500.00	1,495.81	1,495.72	5.18	5.06	90.45	-20.40	2,607.57	2,607.65	2,597.42	10.23	254.914				
1,600.00	1,600.00	1,600.55	1,600.46	5.53	5.43	90.43	-19.57	2,607.23	2,607.33	2,596.36	10.96	237.860				
1,700.00	1,700.00	1,698.77	1,698.66	5.89	5.78	90.40	-18.35	2,606.84	2,606.92	2,595.25	11.67	223.374				
1,800.00	1,800.00	1,796.93	1,796.82	6.25	6.13	90.37	-16.76	2,606.53	2,606.60	2,594.22	12.38	210.552				
1,900.00	1,900.00	1,893.15	1,893.02	6.61	6.48	90.33	-15.20	2,606.34	2,606.38	2,593.30	13.08	199.235				
2,000.00	2,000.00	1,992.90	1,992.77	6.96	6.84	90.30	-13.86	2,606.20	2,606.24	2,592.44	13.80	188.902				
2,100.00	2,100.00	2,093.08	2,092.94	7.32	7.20	90.28	-12.73	2,606.07	2,606.11	2,591.59	14.51	179.568				
2,200.00	2,200.00	2,194.40	2,194.24	7.68	7.56	90.25	-11.55	2,605.89	2,605.92	2,590.69	15.23	171.060				
2,300.00	2,300.00	2,293.05	2,292.90	8.04	7.91	90.23	-10.45	2,605.75	2,605.77	2,589.83	15.95	163.420				
2,400.00	2,400.00	2,395.99	2,395.83	8.39	8.28	90.20	-9.24	2,605.56	2,605.58	2,588.91	16.67	156.284				
2,500.00	2,500.00	2,499.56	2,499.39	8.75	8.65	90.17	-7.94	2,605.23	2,605.26	2,587.86	17.40	149.717				
2,600.00	2,600.00	2,602.86	2,602.68	9.11	9.02	90.14	-6.57	2,604.76	2,604.80	2,586.67	18.13	143.676				
2,700.00	2,700.00	2,705.84	2,705.64	9.47	9.39	90.11	-5.07	2,604.17	2,604.23	2,585.37	18.86	138.104				
2,800.00	2,800.00	2,810.43	2,810.22	9.83	9.77	90.07	-3.19	2,603.43	2,603.52	2,583.93	19.59	132.898				
2,900.00	2,900.00	2,909.46	2,909.22	10.18	10.12	90.02	-0.91	2,602.63	2,602.70	2,582.40	20.30	128.186				
3,000.00	3,000.00	3,009.07	3,008.79	10.54	10.48	89.97	1.48	2,601.88	2,601.95	2,580.93	21.02	123.782				
3,100.00	3,100.00	3,106.14	3,105.83	10.90	10.83	89.92	3.85	2,601.19	2,601.25	2,579.52	21.73	119.721				
3,200.00	3,200.00	3,200.28	3,199.94	11.26	11.17	89.87	6.11	2,600.69	2,600.72	2,578.29	22.42	115.977				
3,300.00	3,300.00	3,294.77	3,294.40	11.62	11.51	89.81	8.41	2,600.39	2,600.41	2,577.29	23.12	112.464				
3,400.00	3,400.00	3,391.21	3,390.81	11.97	11.86	89.76	10.78	2,600.26	2,600.28	2,576.46	23.83	109.133				
3,486.63	3,486.63	3,476.25	3,475.83	12.28	12.16	89.72	12.87	2,600.23	2,600.26	2,575.82	24.44	106.382	CC			
3,500.00	3,500.00	3,489.39	3,488.97	12.33	12.21	89.71	13.20	2,600.23	2,600.26	2,575.72	24.54	105.970				
3,600.00	3,600.00	3,589.12	3,588.66	12.67	12.57	-127.83	15.65	2,600.23	2,600.81	2,575.57	25.24	103.053	ES			
3,700.00	3,699.96	3,688.05	3,687.56	13.00	12.92	-127.91	18.08	2,600.25	2,602.46	2,576.54	25.92	100.407				
3,737.73	3,737.66	3,725.28	3,724.78	13.13	13.06	-127.95	18.98	2,600.27	2,603.37	2,577.19	26.18	99.456				
3,800.00	3,799.88	3,787.29	3,786.77	13.33	13.28	-128.02	20.43	2,600.31	2,605.02	2,578.42	26.60	97.922				
3,900.00	3,899.79	3,890.80	3,890.26	13.66	13.65	-128.14	22.43	2,600.32	2,607.61	2,580.30	27.30	95.503				
4,000.00	3,999.71	3,994.12	3,993.57	13.99	14.02	-128.25	23.81	2,600.15	2,610.03	2,582.02	28.01	93.198				
4,100.00	4,099.62	4,092.19	4,091.64	14.32	14.37	-128.34	24.78	2,600.00	2,612.46	2,583.77	28.69	91.061				
4,200.00	4,199.53	4,191.41	4,190.86	14.66	14.73	-128.43	25.50	2,599.91	2,614.95	2,585.57	29.38	89.009				
4,300.00	4,299.45	4,294.51	4,293.96	15.00	15.10	-128.51	25.95	2,599.77	2,617.41	2,587.33	30.08	87.008				
4,400.00	4,399.36	4,395.61	4,395.06	15.33	15.46	-128.59	26.37	2,599.49	2,619.73	2,588.95	30.78	85.112				
4,500.00	4,499.28	4,477.17	4,476.62	15.67	15.74	-128.65	26.56	2,599.44	2,622.29	2,590.89	31.40	83.508				
4,600.00	4,599.19	4,546.25	4,545.69	16.01	15.98	-128.69	26.22	2,600.17	2,625.93	2,593.95	31.97	82.132				
4,700.00	4,699.10	4,627.01	4,626.42	16.35	16.25	-128.73	25.15	2,602.06	2,630.77	2,598.19	32.58	80.740				
4,800.00	4,799.02	4,701.34	4,700.70	16.69	16.50	-128.74	23.65	2,604.44	2,636.44	2,603.28	33.16	79.511				

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

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 3H - Original Hole - Original Hole		Offset Site Error: 0.00 ft	
Survey Program: 124-MWD+IGRF, 10589-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	4,898.93	4,773.99	4,773.28	17.04	16.73	-128.75	21.78	2,607.19	2,642.79	2,609.07	33.72	78.363				
5,000.00	4,998.85	4,840.62	4,839.78	17.38	16.95	-128.75	19.57	2,610.55	2,650.35	2,616.09	34.27	77.347				
5,100.00	5,098.76	4,911.01	4,909.97	17.72	17.18	-128.74	16.81	2,615.03	2,659.18	2,624.36	34.82	76.374				
5,200.00	5,198.67	5,001.86	5,000.53	18.07	17.49	-128.72	13.24	2,621.45	2,668.74	2,633.28	35.45	75.272				
5,300.00	5,298.59	5,099.04	5,097.40	18.41	17.81	-128.71	9.97	2,628.40	2,678.39	2,642.27	36.12	74.157				
5,400.00	5,398.50	5,233.95	5,231.98	18.76	18.27	-128.73	6.35	2,637.11	2,687.36	2,650.42	36.94	72.746				
5,500.00	5,498.42	5,355.37	5,353.19	19.11	18.69	-128.75	3.69	2,643.72	2,695.35	2,657.64	37.71	71.476				
5,600.00	5,598.33	5,461.39	5,459.06	19.45	19.05	-128.78	1.57	2,648.94	2,702.81	2,664.39	38.42	70.352				
5,700.00	5,698.24	5,564.78	5,562.31	19.80	19.40	-128.80	-0.41	2,653.83	2,710.09	2,670.98	39.12	69.280				
5,800.00	5,798.16	5,669.26	5,666.67	20.15	19.76	-128.83	-2.30	2,658.62	2,717.23	2,677.41	39.82	68.232				
5,900.00	5,898.07	5,769.89	5,767.19	20.50	20.11	-128.86	-4.04	2,663.06	2,724.20	2,683.69	40.52	67.239				
6,000.00	5,997.98	5,865.65	5,862.84	20.85	20.44	-128.89	-5.70	2,667.42	2,731.31	2,690.12	41.19	66.312				
6,100.00	6,097.90	5,967.12	5,964.18	21.20	20.79	-128.92	-7.36	2,672.08	2,738.46	2,696.57	41.89	65.378				
6,200.00	6,197.81	6,071.86	6,068.81	21.55	21.16	-128.95	-8.96	2,676.73	2,745.46	2,702.87	42.60	64.450				
6,300.00	6,297.73	6,178.32	6,175.16	21.90	21.53	-128.99	-10.43	2,681.24	2,752.27	2,708.95	43.32	63.536				
6,400.00	6,397.64	6,284.17	6,280.92	22.25	21.90	-129.04	-11.66	2,685.45	2,758.82	2,714.79	44.04	62.647				
6,500.00	6,497.55	6,389.19	6,385.86	22.61	22.27	-129.08	-12.77	2,689.42	2,765.18	2,720.43	44.75	61.787				
6,600.00	6,597.47	6,489.90	6,486.49	22.96	22.62	-129.12	-13.88	2,693.12	2,771.44	2,725.98	45.45	60.973				
6,700.00	6,697.38	6,597.21	6,593.73	23.31	22.99	-129.17	-14.92	2,696.88	2,777.53	2,731.35	46.18	60.145				
6,800.00	6,797.30	6,704.83	6,701.29	23.66	23.37	-129.22	-15.80	2,700.37	2,783.37	2,736.46	46.91	59.334				
6,900.00	6,897.21	6,810.21	6,806.62	24.02	23.74	-129.27	-16.62	2,703.47	2,788.91	2,741.28	47.63	58.553				
7,000.00	6,997.12	6,916.67	6,913.03	24.37	24.11	-129.32	-17.42	2,706.49	2,794.34	2,745.99	48.36	57.787				
7,100.00	7,097.04	7,021.51	7,017.84	24.73	24.48	-129.37	-18.25	2,709.11	2,799.45	2,750.38	49.08	57.044				
7,200.00	7,196.95	7,129.36	7,125.66	25.08	24.86	-129.42	-19.13	2,711.66	2,804.42	2,754.62	49.81	56.307				
7,300.00	7,296.87	7,238.15	7,234.42	25.43	25.24	-129.48	-20.07	2,713.87	2,809.05	2,758.51	50.54	55.580				
7,400.00	7,396.78	7,339.23	7,335.48	25.79	25.59	-129.52	-21.17	2,715.75	2,813.51	2,762.27	51.24	54.904				
7,500.00	7,496.69	7,440.87	7,437.09	26.14	25.94	-129.55	-22.70	2,717.60	2,817.92	2,765.97	51.95	54.242				
7,600.00	7,596.61	7,544.65	7,540.83	26.50	26.30	-129.58	-24.53	2,719.38	2,822.21	2,769.54	52.66	53.589				
7,700.00	7,696.52	7,641.85	7,638.00	26.86	26.64	-129.60	-26.49	2,721.05	2,826.49	2,773.14	53.35	52.977				
7,800.00	7,796.44	7,738.86	7,734.98	27.21	26.98	-129.62	-28.69	2,722.82	2,830.88	2,776.83	54.04	52.383				
7,900.00	7,896.35	7,835.91	7,831.98	27.57	27.31	-129.63	-31.06	2,724.70	2,835.37	2,780.64	54.73	51.805				
8,000.00	7,996.26	7,934.06	7,930.06	27.92	27.65	-129.64	-33.79	2,726.69	2,839.93	2,784.51	55.43	51.238				
8,100.00	8,096.18	8,033.82	8,029.76	28.28	28.00	-129.64	-36.77	2,728.78	2,844.56	2,788.43	56.13	50.681				
8,200.00	8,196.09	8,140.33	8,136.20	28.64	28.37	-129.64	-40.09	2,730.89	2,849.07	2,792.22	56.85	50.113				
8,300.00	8,296.01	8,241.86	8,237.65	28.99	28.72	-129.64	-43.60	2,732.70	2,853.36	2,795.80	57.56	49.572				
8,400.00	8,395.92	8,339.17	8,334.87	29.35	29.06	-129.62	-47.29	2,734.51	2,857.72	2,799.47	58.25	49.058				
8,500.00	8,495.83	8,437.95	8,433.57	29.71	29.40	-129.61	-51.11	2,736.42	2,862.15	2,803.20	58.95	48.551				
8,600.00	8,595.75	8,537.56	8,533.08	30.06	29.75	-129.59	-54.88	2,738.36	2,866.60	2,806.95	59.65	48.054				
8,700.00	8,695.66	8,639.34	8,634.77	30.42	30.11	-129.58	-58.81	2,740.33	2,871.03	2,810.67	60.36	47.562				
8,800.00	8,795.58	8,740.92	8,736.25	30.78	30.46	-129.57	-62.67	2,742.22	2,875.39	2,814.32	61.08	47.080				
8,900.00	8,895.49	8,841.87	8,837.12	31.14	30.82	-129.56	-66.34	2,744.04	2,879.70	2,817.92	61.78	46.609				
9,000.00	8,995.40	8,949.53	8,944.72	31.50	31.19	-129.56	-69.75	2,745.81	2,883.87	2,821.35	62.52	46.128				
9,100.00	9,095.32	9,057.58	9,052.70	31.85	31.57	-129.56	-73.00	2,747.27	2,887.76	2,824.50	63.25	45.653				
9,200.00	9,195.23	9,173.90	9,168.96	32.21	31.97	-129.55	-76.92	2,748.46	2,891.31	2,827.29	64.02	45.163				
9,300.00	9,295.14	9,284.28	9,279.28	32.57	32.36	-129.55	-80.50	2,748.85	2,894.18	2,829.41	64.76	44.690				
9,400.00	9,395.06	9,378.02	9,372.95	32.93	32.68	-129.55	-83.82	2,749.21	2,897.07	2,831.63	65.44	44.268				
9,500.00	9,494.97	9,469.66	9,464.52	33.29	33.00	-129.53	-87.59	2,749.84	2,900.25	2,834.13	66.12	43.863				
9,523.61	9,518.56	9,491.31	9,486.14	33.37	33.08	-129.52	-88.68	2,750.04	2,901.04	2,834.76	66.28	43.769				
9,600.00	9,594.91	9,560.76	9,555.48	33.64	33.32	-129.50	-92.47	2,750.77	2,903.23	2,836.44	66.79	43.465				
9,682.09	9,677.00	9,667.29	9,661.84	33.93	33.69	88.05	-98.34	2,751.83	2,904.51	2,837.05	67.46	43.057				
9,700.00	9,694.91	9,699.24	9,693.74	33.99	33.81	88.09	-100.17	2,751.87	2,904.50	2,836.86	67.63	42.946				
9,800.00	9,794.91	9,830.73	9,825.00	34.33	34.26	88.24	-107.86	2,750.64	2,903.30	2,834.87	68.43	42.427				

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 124-MWD+IGRF, 10589-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		
9,900.00	9,894.91	9,920.30	9,914.44	34.68	34.57	88.33	-112.54	2,749.69	2,902.07	2,832.98	69.09	42.005		
10,000.00	9,994.91	9,997.96	9,992.01	35.02	34.84	88.40	-116.02	2,749.14	2,901.28	2,831.58	69.71	41.622		
10,017.95	10,012.85	10,008.01	10,002.05	35.08	34.88	88.41	-116.45	2,749.14	2,901.26	2,831.45	69.80	41.564		
10,032.13	10,027.04	10,015.95	10,009.99	35.13	34.91	88.42	-116.78	2,749.16	2,901.27	2,831.39	69.88	41.518		
10,050.00	10,044.90	10,025.95	10,019.98	35.19	34.94	88.83	-117.19	2,749.20	2,901.33	2,831.35	69.97	41.462		
10,100.00	10,094.75	10,053.77	10,047.78	35.36	35.04	88.86	-118.33	2,749.47	2,901.69	2,831.45	70.24	41.312		
10,150.00	10,144.08	10,093.05	10,087.02	35.53	35.18	88.96	-119.87	2,750.13	2,902.32	2,831.78	70.54	41.145		
10,200.00	10,192.52	10,151.24	10,145.18	35.68	35.38	89.22	-121.83	2,751.00	2,902.85	2,831.94	70.91	40.940		
10,250.00	10,239.69	10,198.77	10,192.67	35.84	35.55	89.51	-123.22	2,751.60	2,903.30	2,832.08	71.23	40.761		
10,300.00	10,285.26	10,241.70	10,235.59	35.98	35.70	89.82	-124.44	2,752.16	2,903.88	2,832.36	71.53	40.599		
10,350.00	10,328.85	10,278.98	10,272.85	36.12	35.83	90.12	-125.49	2,752.69	2,904.69	2,832.89	71.80	40.456		
10,400.00	10,370.15	10,311.61	10,305.46	36.25	35.95	90.38	-126.41	2,753.24	2,905.88	2,833.83	72.05	40.332		
10,450.00	10,408.84	10,342.07	10,335.90	36.37	36.06	90.61	-127.26	2,753.83	2,907.53	2,835.24	72.29	40.222		
10,500.00	10,444.62	10,373.24	10,367.06	36.49	36.17	90.83	-128.13	2,754.50	2,909.70	2,837.18	72.52	40.120		
10,550.00	10,477.22	10,403.34	10,397.13	36.61	36.28	91.01	-128.95	2,755.16	2,912.44	2,839.68	72.76	40.030		
10,600.00	10,506.40	10,430.13	10,423.91	36.73	36.37	91.11	-129.68	2,755.77	2,915.82	2,842.84	72.97	39.957		
10,650.00	10,531.93	10,453.40	10,447.17	36.85	36.45	91.10	-130.30	2,756.31	2,919.91	2,846.73	73.18	39.903		
10,700.00	10,553.61	10,472.98	10,466.73	36.97	36.52	90.97	-130.81	2,756.77	2,924.76	2,851.40	73.36	39.867		
10,750.00	10,571.29	10,493.01	10,486.75	37.10	36.56	90.77	-131.29	2,757.23	2,930.41	2,856.89	73.52	39.859		
10,800.00	10,584.83	11,211.43	11,054.45	37.22	37.02	99.41	215.93	2,737.15	2,931.09	2,857.53	73.56	39.844		
10,850.00	10,594.12	11,246.62	11,066.82	37.34	37.11	99.58	248.82	2,735.50	2,930.53	2,856.75	73.77	39.724		
10,853.87	10,594.66	11,250.00	11,067.89	37.35	37.12	99.60	252.02	2,735.38	2,930.52	2,856.73	73.79	39.715		
10,900.00	10,599.10	11,345.77	11,089.99	37.47	37.44	99.86	345.05	2,732.42	2,930.55	2,856.38	74.17	39.511		
10,932.14	10,600.00	11,404.03	11,095.89	37.55	37.67	99.96	402.98	2,731.09	2,930.44	2,855.97	74.47	39.350		
11,000.00	10,600.00	11,538.22	11,102.51	37.73	38.35	100.10	536.93	2,726.92	2,929.32	2,854.03	75.29	38.906		
11,100.00	10,600.00	11,652.68	11,107.75	38.04	39.04	100.21	651.17	2,721.95	2,926.55	2,850.27	76.27	38.369		
11,200.00	10,600.00	11,770.83	11,112.42	38.41	39.88	100.32	769.08	2,716.28	2,923.22	2,845.77	77.45	37.743		
11,300.00	10,600.00	11,869.45	11,115.91	38.83	40.67	100.40	867.52	2,711.43	2,919.71	2,841.08	78.63	37.133		
11,400.00	10,600.00	11,973.96	11,120.57	39.30	41.58	100.51	971.78	2,705.87	2,915.98	2,836.00	79.98	36.461		
11,500.00	10,600.00	12,055.58	11,123.08	39.81	42.35	100.57	1,053.27	2,701.97	2,912.56	2,831.32	81.23	35.855		
11,600.00	10,600.00	12,131.00	11,124.70	40.37	43.09	100.61	1,128.62	2,699.21	2,910.02	2,827.50	82.52	35.266		
11,700.00	10,600.00	12,202.60	11,126.00	40.98	43.83	100.64	1,200.18	2,697.29	2,908.38	2,824.54	83.85	34.687		
11,800.00	10,600.00	12,289.33	11,127.44	41.62	44.77	100.67	1,286.88	2,695.56	2,907.42	2,822.02	85.40	34.043		
11,900.00	10,600.00	12,383.64	11,129.37	42.31	45.83	100.71	1,381.16	2,693.88	2,906.76	2,819.63	87.12	33.364		
12,000.00	10,600.00	12,491.39	11,131.53	43.04	47.10	100.76	1,488.86	2,691.98	2,906.10	2,817.02	89.08	32.623		
12,100.00	10,600.00	12,617.19	11,130.13	43.80	48.65	100.73	1,614.63	2,689.74	2,904.85	2,813.49	91.37	31.793		
12,200.00	10,600.00	12,745.70	11,125.51	44.60	50.31	100.65	1,743.02	2,686.72	2,902.56	2,808.76	93.80	30.943		
12,300.00	10,600.00	12,876.81	11,121.57	45.43	52.08	100.59	1,873.99	2,682.26	2,899.38	2,803.02	96.36	30.089		
12,400.00	10,600.00	12,988.04	11,120.80	46.29	53.62	100.59	1,985.09	2,677.08	2,895.38	2,796.64	98.73	29.325		
12,500.00	10,600.00	13,099.39	11,121.08	47.17	55.22	100.61	2,096.29	2,671.21	2,890.94	2,789.77	101.17	28.574		
12,600.00	10,600.00	13,214.21	11,121.54	48.09	56.91	100.64	2,210.93	2,664.86	2,886.30	2,782.58	103.72	27.827		
12,700.00	10,600.00	13,334.99	11,121.83	49.04	58.72	100.67	2,331.46	2,657.07	2,880.68	2,774.26	106.42	27.069		
12,800.00	10,600.00	13,439.81	11,122.38	50.00	60.32	100.71	2,436.04	2,649.92	2,874.77	2,765.83	108.94	26.388		
12,900.00	10,600.00	13,535.09	11,122.92	50.99	61.81	100.74	2,531.09	2,643.39	2,868.84	2,757.46	111.38	25.757		
13,000.00	10,600.00	13,646.74	11,123.66	52.01	63.57	100.78	2,642.46	2,635.63	2,862.84	2,748.75	114.09	25.092		
13,100.00	10,600.00	13,716.65	11,123.92	53.04	64.68	100.80	2,712.22	2,631.06	2,857.16	2,740.93	116.24	24.581		
13,200.00	10,600.00	13,779.97	11,123.80	54.09	65.70	100.81	2,775.45	2,627.65	2,852.57	2,734.27	118.30	24.113		
13,300.00	10,600.00	13,844.13	11,123.70	55.16	66.73	100.82	2,839.56	2,625.12	2,849.33	2,728.94	120.39	23.668		
13,400.00	10,600.00	13,926.49	11,123.42	56.25	68.07	100.82	2,921.88	2,622.61	2,846.98	2,724.20	122.78	23.188		
13,500.00	10,600.00	14,006.97	11,123.25	57.36	69.38	100.82	3,002.34	2,620.68	2,845.28	2,720.11	125.16	22.733		
13,600.00	10,600.00	14,161.89	11,122.17	58.48	71.93	100.81	3,157.19	2,616.20	2,843.04	2,714.27	128.78	22.077		
13,700.00	10,600.00	14,291.39	11,119.41	59.61	74.10	100.77	3,286.54	2,610.68	2,839.13	2,707.11	132.02	21.505		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 3H - Original Hole - Original Hole													Offset Site Error:	0.00 ft
Survey Program: 124-MWD+IGRF, 10589-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		
13,800.00	10,600.00	14,402.08	11,115.38	60.76	75.97	100.71	3,397.04	2,605.57	2,834.61	2,699.61	135.01	20.996		
13,900.00	10,600.00	14,538.39	11,109.47	61.92	78.30	100.62	3,533.02	2,598.38	2,829.35	2,690.92	138.43	20.438		
14,000.00	10,600.00	14,660.77	11,103.28	63.10	80.41	100.52	3,655.00	2,590.56	2,822.81	2,681.14	141.66	19.926		
14,100.00	10,600.00	14,778.49	11,097.56	64.28	82.45	100.43	3,772.28	2,582.31	2,815.73	2,670.89	144.85	19.440		
14,200.00	10,600.00	14,842.22	11,095.54	65.48	83.57	100.40	3,835.83	2,577.88	2,808.99	2,661.79	147.20	19.083		
14,300.00	10,600.00	14,910.37	11,094.13	66.68	84.76	100.39	3,903.84	2,573.80	2,803.43	2,653.81	149.62	18.737		
14,400.00	10,600.00	14,995.76	11,093.34	67.90	86.26	100.39	3,989.12	2,569.43	2,798.89	2,646.58	152.31	18.376		
14,500.00	10,600.00	15,123.52	11,091.80	69.13	88.51	100.38	4,116.66	2,562.27	2,793.85	2,638.14	155.71	17.942		
14,600.00	10,600.00	15,222.64	11,090.77	70.36	90.27	100.38	4,215.59	2,556.13	2,788.28	2,629.61	158.67	17.573		
14,700.00	10,600.00	15,335.33	11,090.20	71.60	92.28	100.39	4,328.05	2,549.01	2,782.68	2,620.83	161.85	17.193		
14,800.00	10,600.00	15,453.55	11,089.55	72.85	94.40	100.41	4,445.98	2,540.71	2,776.37	2,611.24	165.13	16.813		
14,900.00	10,600.00	15,554.24	11,089.05	74.11	96.21	100.42	4,546.39	2,533.33	2,769.77	2,601.61	168.15	16.472		
15,000.00	10,600.00	15,648.71	11,089.21	75.38	97.92	100.45	4,640.60	2,526.28	2,763.17	2,592.08	171.09	16.151		
15,100.00	10,600.00	15,725.00	11,089.77	76.65	99.30	100.48	4,716.69	2,520.69	2,756.88	2,583.14	173.74	15.868		
15,200.00	10,600.00	15,725.00	11,089.77	77.93	99.30	100.48	4,716.69	2,520.69	2,753.12	2,578.04	175.08	15.725		
15,253.67	10,600.00	15,725.00	11,089.77	78.62	99.30	100.48	4,716.69	2,520.69	2,752.60	2,576.87	175.73	15.664		
15,300.00	10,600.00	15,725.00	11,089.77	79.21	99.30	100.48	4,716.69	2,520.69	2,752.99	2,576.74	176.25	15.620		
15,400.00	10,600.00	15,725.00	11,089.77	80.50	99.30	100.48	4,716.69	2,520.69	2,756.48	2,579.26	177.23	15.553		
15,500.00	10,600.00	15,725.00	11,089.77	81.80	99.30	100.48	4,716.69	2,520.69	2,763.60	2,585.58	178.02	15.524 SF		
15,575.11	10,600.00	15,725.00	11,089.77	82.77	99.30	100.48	4,716.69	2,520.69	2,771.30	2,592.81	178.49	15.526		

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 4H - Original Hole - Original Hole		Offset Site Error: 0.00 ft	
Survey Program: 130-MWD+IGRF, 9674-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)					
0.00	0.00	0.00	0.00	0.50	0.00	88.14	127.07	3,912.47	3,914.56							
100.00	100.00	110.78	110.78	0.52	0.16	88.15	126.62	3,912.11	3,914.24	3,913.57	0.68	5,767.186				
200.00	200.00	259.73	259.70	0.70	0.66	88.17	124.73	3,910.26	3,912.97	3,911.61	1.36	2,879.851				
300.00	300.00	348.23	348.18	0.99	0.98	88.20	123.16	3,908.76	3,911.23	3,909.26	1.96	1,993.172				
400.00	400.00	437.99	437.91	1.31	1.30	88.22	121.44	3,907.46	3,909.72	3,907.11	2.61	1,499.482				
500.00	500.00	527.21	527.11	1.65	1.62	88.24	119.74	3,906.41	3,908.48	3,905.21	3.27	1,196.796				
600.00	600.00	637.87	637.74	1.99	2.02	88.27	117.84	3,905.13	3,907.28	3,903.27	4.01	974.650				
700.00	700.00	732.30	732.15	2.34	2.36	88.29	116.39	3,903.95	3,905.98	3,901.28	4.70	831.488				
800.00	800.00	834.57	834.41	2.69	2.73	88.31	115.16	3,902.70	3,904.72	3,899.31	5.41	721.178				
900.00	900.00	936.91	936.74	3.04	3.10	88.32	114.55	3,901.37	3,903.40	3,897.27	6.13	636.440				
1,000.00	1,000.00	1,028.02	1,027.84	3.40	3.42	88.32	114.33	3,900.28	3,902.20	3,895.39	6.81	573.022				
1,100.00	1,100.00	1,117.42	1,117.23	3.75	3.73	88.32	114.29	3,899.39	3,901.20	3,893.73	7.48	521.642				
1,200.00	1,200.00	1,205.96	1,205.78	4.11	4.04	88.32	114.41	3,898.77	3,900.50	3,892.36	8.14	478.923				
1,300.00	1,300.00	1,307.13	1,306.95	4.46	4.40	88.31	114.80	3,898.24	3,899.99	3,891.14	8.85	440.598				
1,400.00	1,400.00	1,415.12	1,414.92	4.82	4.77	88.30	115.67	3,897.47	3,899.31	3,889.73	9.58	406.966				
1,500.00	1,500.00	1,513.79	1,513.59	5.18	5.11	88.28	116.96	3,896.66	3,898.52	3,888.25	10.28	379.315				
1,600.00	1,600.00	1,611.31	1,611.08	5.53	5.45	88.25	118.77	3,895.90	3,897.80	3,886.83	10.97	355.309				
1,700.00	1,700.00	1,702.09	1,701.84	5.89	5.76	88.23	120.66	3,895.32	3,897.23	3,885.59	11.64	334.830				
1,800.00	1,800.00	1,804.43	1,804.16	6.25	6.11	88.19	122.83	3,894.77	3,896.76	3,884.41	12.35	315.533				
1,900.00	1,900.00	1,888.44	1,888.15	6.61	6.40	88.17	124.64	3,894.46	3,896.45	3,883.46	13.00	299.788				
2,000.00	2,000.00	1,988.62	1,988.30	6.96	6.75	88.13	126.82	3,894.30	3,896.37	3,882.67	13.70	284.377				
2,100.00	2,100.00	2,103.34	2,102.99	7.32	7.15	88.10	129.42	3,893.88	3,896.08	3,881.62	14.46	269.467				
2,200.00	2,200.00	2,200.05	2,199.68	7.68	7.48	88.06	131.79	3,893.38	3,895.64	3,880.49	15.15	257.054				
2,300.00	2,300.00	2,290.63	2,290.23	8.04	7.80	88.03	133.94	3,893.07	3,895.38	3,879.55	15.83	246.076				
2,400.00	2,400.00	2,389.44	2,389.02	8.39	8.15	88.00	136.21	3,892.87	3,895.25	3,878.72	16.53	235.586				
2,500.00	2,500.00	2,490.29	2,489.83	8.75	8.50	87.96	138.84	3,892.61	3,895.09	3,877.84	17.25	225.846				
2,600.00	2,600.00	2,588.33	2,587.84	9.11	8.84	87.92	141.41	3,892.44	3,895.01	3,877.06	17.95	216.994				
2,700.00	2,700.00	2,689.44	2,688.91	9.47	9.20	87.88	143.91	3,892.18	3,894.84	3,876.18	18.66	208.675				
2,743.74	2,743.74	2,728.48	2,727.94	9.62	9.34	87.87	144.87	3,892.12	3,894.82	3,875.86	18.96	205.434				
2,800.00	2,800.00	2,781.12	2,780.57	9.83	9.52	87.85	146.18	3,892.10	3,894.85	3,875.50	19.35	201.324				
2,900.00	2,900.00	2,875.06	2,874.47	10.18	9.85	87.81	148.73	3,892.15	3,895.00	3,874.97	20.04	194.402				
3,000.00	3,000.00	2,965.67	2,965.04	10.54	10.17	87.77	151.39	3,892.39	3,895.38	3,874.66	20.71	188.058				
3,100.00	3,100.00	3,057.01	3,056.34	10.90	10.50	87.73	154.19	3,892.83	3,895.98	3,874.58	21.39	182.105				
3,200.00	3,200.00	3,150.27	3,149.54	11.26	10.83	87.69	157.17	3,893.47	3,896.80	3,874.72	22.08	176.473				
3,300.00	3,300.00	3,245.71	3,244.93	11.62	11.16	87.64	160.51	3,894.22	3,897.72	3,874.94	22.78	171.123				
3,400.00	3,400.00	3,337.09	3,336.24	11.97	11.49	87.59	163.76	3,895.13	3,898.86	3,875.41	23.46	166.202				
3,500.00	3,500.00	3,434.35	3,433.43	12.33	11.83	87.54	167.42	3,896.19	3,900.12	3,875.95	24.16	161.417				
3,600.00	3,600.00	3,528.53	3,527.52	12.67	12.17	-129.98	171.17	3,897.33	3,902.06	3,877.22	24.84	157.103				
3,700.00	3,699.96	3,619.77	3,618.69	13.00	12.49	-130.03	174.67	3,898.56	3,905.27	3,879.78	25.49	153.225				
3,737.73	3,737.66	3,650.29	3,649.18	13.13	12.60	-130.05	175.86	3,899.05	3,906.86	3,881.14	25.72	151.910				
3,800.00	3,799.88	3,701.94	3,700.78	13.33	12.78	-130.10	177.95	3,899.99	3,909.78	3,883.67	26.10	149.774				
3,900.00	3,899.79	3,792.87	3,791.62	13.66	13.11	-130.20	181.61	3,901.86	3,914.70	3,887.94	26.76	146.315				
4,000.00	3,999.71	3,885.18	3,883.84	13.99	13.43	-130.29	185.16	3,903.95	3,919.84	3,892.42	27.41	142.995				
4,100.00	4,099.62	3,977.89	3,976.46	14.32	13.76	-130.38	188.53	3,906.23	3,925.17	3,897.10	28.07	139.824				
4,200.00	4,199.53	4,079.91	4,078.38	14.66	14.12	-130.48	192.16	3,908.80	3,930.56	3,901.79	28.77	136.630				
4,300.00	4,299.45	4,177.37	4,175.76	15.00	14.47	-130.57	195.38	3,911.27	3,935.97	3,906.52	29.45	133.659				
4,400.00	4,399.36	4,289.30	4,287.60	15.33	14.87	-130.67	198.82	3,913.94	3,941.22	3,911.04	30.18	130.577				
4,500.00	4,499.28	4,372.67	4,370.91	15.67	15.16	-130.74	201.42	3,915.84	3,946.42	3,915.60	30.81	128.077				
4,600.00	4,599.19	4,427.35	4,425.54	16.01	15.36	-130.79	203.05	3,917.62	3,952.55	3,921.22	31.33	126.144				
4,700.00	4,699.10	4,476.84	4,474.96	16.35	15.53	-130.83	204.35	3,919.81	3,959.87	3,928.04	31.83	124.408				
4,800.00	4,799.02	4,537.00	4,535.00	16.69	15.74	-130.87	205.29	3,923.44	3,968.55	3,936.18	32.36	122.627				
4,900.00	4,898.93	4,582.01	4,579.89	17.04	15.90	-130.89	205.64	3,926.70	3,978.35	3,945.52	32.83	121.177				

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 130-MWD+IGRF, 9674-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		
5,000.00	4,998.85	4,649.64	4,647.30	17.38	16.13	-130.92	205.91	3,932.17	3,989.13	3,955.75	33.39	119.486		
5,100.00	5,098.76	4,729.00	4,726.37	17.72	16.41	-130.95	205.99	3,938.98	4,000.43	3,966.44	33.99	117.705		
5,200.00	5,198.67	4,789.36	4,786.46	18.07	16.62	-130.97	205.66	3,944.62	4,012.48	3,977.97	34.51	116.276		
5,300.00	5,298.59	4,846.12	4,842.90	18.41	16.82	-130.98	204.80	3,950.60	4,025.59	3,990.58	35.01	114.979		
5,400.00	5,398.50	4,918.00	4,914.26	18.76	17.07	-130.98	203.08	3,959.02	4,039.77	4,004.19	35.58	113.555		
5,500.00	5,498.42	4,968.40	4,964.24	19.11	17.24	-130.97	201.69	3,965.41	4,054.80	4,018.76	36.05	112.492		
5,600.00	5,598.33	5,079.12	5,073.95	19.45	17.64	-130.97	198.87	3,979.98	4,070.52	4,033.74	36.78	110.683		
5,700.00	5,698.24	5,268.05	5,261.59	19.80	18.31	-130.97	194.46	4,001.56	4,084.34	4,046.49	37.84	107.923		
5,800.00	5,798.16	5,389.70	5,382.59	20.15	18.75	-130.98	191.74	4,013.84	4,096.96	4,058.33	38.63	106.067		
5,900.00	5,898.07	5,477.63	5,470.06	20.50	19.07	-130.98	189.85	4,022.65	4,109.53	4,070.26	39.27	104.654		
6,000.00	5,997.98	5,559.14	5,551.10	20.85	19.36	-130.98	187.90	4,031.16	4,122.50	4,082.62	39.88	103.365		
6,100.00	6,097.90	5,662.79	5,654.14	21.20	19.74	-130.98	185.51	4,042.14	4,135.64	4,095.05	40.59	101.881		
6,200.00	6,197.81	5,770.11	5,760.85	21.55	20.13	-130.99	183.00	4,053.23	4,148.51	4,107.18	41.32	100.398		
6,300.00	6,297.73	5,860.95	5,851.18	21.90	20.47	-130.99	180.93	4,062.75	4,161.52	4,119.54	41.98	99.134		
6,400.00	6,397.64	5,962.81	5,952.43	22.25	20.85	-130.98	178.09	4,073.39	4,174.48	4,131.80	42.68	97.798		
6,500.00	6,497.55	6,050.89	6,039.97	22.61	21.17	-130.98	175.35	4,082.77	4,187.62	4,144.29	43.33	96.640		
6,600.00	6,597.47	6,189.99	6,178.23	22.96	21.69	-130.97	171.46	4,097.48	4,200.83	4,156.62	44.20	95.041		
6,700.00	6,697.38	6,306.04	6,293.71	23.31	22.12	-130.96	167.85	4,108.49	4,212.78	4,167.81	44.97	93.681		
6,800.00	6,797.30	6,393.65	6,380.87	23.66	22.45	-130.95	165.03	4,116.86	4,224.84	4,179.22	45.62	92.611		
6,900.00	6,897.21	6,486.95	6,473.69	24.02	22.80	-130.95	162.30	4,125.97	4,237.10	4,190.81	46.29	91.526		
7,000.00	6,997.12	6,606.14	6,592.28	24.37	23.24	-130.95	159.24	4,137.37	4,249.19	4,202.11	47.08	90.254		
7,100.00	7,097.04	6,703.82	6,689.49	24.73	23.61	-130.94	156.13	4,146.50	4,261.04	4,213.26	47.78	89.188		
7,200.00	7,196.95	6,793.27	6,778.48	25.08	23.95	-130.93	153.20	4,155.09	4,273.12	4,224.69	48.44	88.221		
7,300.00	7,296.87	6,907.17	6,891.83	25.43	24.38	-130.92	149.71	4,165.70	4,284.91	4,235.71	49.20	87.087		
7,400.00	7,396.78	7,003.86	6,988.04	25.79	24.74	-130.91	146.60	4,174.84	4,296.85	4,246.95	49.90	86.116		
7,500.00	7,496.69	7,126.45	7,110.04	26.14	25.20	-130.90	142.39	4,186.00	4,308.43	4,257.73	50.70	84.978		
7,600.00	7,596.61	7,215.35	7,198.54	26.50	25.54	-130.89	139.31	4,193.87	4,319.78	4,268.42	51.36	84.105		
7,700.00	7,696.52	7,313.41	7,296.14	26.86	25.91	-130.88	136.25	4,202.84	4,331.43	4,279.36	52.06	83.195		
7,800.00	7,796.44	7,417.27	7,399.52	27.21	26.30	-130.87	132.94	4,212.22	4,342.95	4,290.16	52.79	82.268		
7,900.00	7,896.35	7,548.67	7,530.35	27.57	26.80	-130.86	128.53	4,223.61	4,354.12	4,300.49	53.63	81.182		
8,000.00	7,996.26	7,634.84	7,616.16	27.92	27.13	-130.85	125.56	4,230.96	4,365.12	4,310.83	54.29	80.408		
8,100.00	8,096.18	7,744.57	7,725.42	28.28	27.54	-130.83	121.27	4,240.19	4,375.98	4,320.94	55.04	79.505		
8,200.00	8,196.09	7,835.76	7,816.21	28.64	27.89	-130.82	117.74	4,247.97	4,386.96	4,331.25	55.72	78.739		
8,300.00	8,296.01	7,945.00	7,924.97	28.99	28.30	-130.79	113.03	4,257.03	4,397.68	4,341.21	56.47	77.880		
8,400.00	8,395.92	8,053.14	8,032.58	29.35	28.71	-130.76	107.80	4,266.30	4,408.68	4,351.46	57.22	77.054		
8,500.00	8,495.83	8,174.05	8,152.97	29.71	29.17	-130.72	101.53	4,275.60	4,418.70	4,360.68	58.02	76.162		
8,600.00	8,595.75	8,279.15	8,257.59	30.06	29.56	-130.68	95.71	4,283.71	4,428.79	4,370.04	58.75	75.380		
8,700.00	8,695.66	8,381.77	8,359.78	30.42	29.95	-130.65	90.29	4,291.45	4,438.72	4,379.24	59.48	74.627		
8,800.00	8,795.58	8,502.75	8,480.32	30.78	30.40	-130.62	84.69	4,300.09	4,448.27	4,387.99	60.28	73.792		
8,900.00	8,895.49	8,587.65	8,564.90	31.14	30.72	-130.60	80.87	4,306.25	4,457.95	4,397.01	60.93	73.160		
9,000.00	8,995.40	8,733.27	8,710.06	31.50	31.27	-130.57	74.20	4,315.78	4,466.80	4,404.96	61.84	72.234		
9,100.00	9,095.32	8,881.54	8,857.98	31.85	31.82	-130.55	68.83	4,324.44	4,475.20	4,412.45	62.75	71.322		
9,200.00	9,195.23	9,030.32	9,006.58	32.21	32.36	-130.57	65.49	4,330.93	4,482.04	4,418.39	63.65	70.417		
9,300.00	9,295.14	9,162.70	9,138.85	32.57	32.83	-130.59	63.21	4,335.61	4,488.16	4,423.67	64.49	69.600		
9,400.00	9,395.06	11,565.00	10,986.66	32.93	36.89	-139.96	672.99	3,942.06	4,476.64	4,410.35	66.29	67.527		
9,500.00	9,494.97	11,565.00	10,986.66	33.29	36.89	-139.96	672.99	3,942.06	4,444.71	4,377.72	66.99	66.344		
9,523.61	9,518.56	11,565.00	10,986.66	33.37	36.89	-139.96	672.99	3,942.06	4,437.47	4,370.31	67.16	66.075		
9,600.00	9,594.91	11,565.00	10,986.66	33.64	36.89	-139.72	672.99	3,942.06	4,414.25	4,346.57	67.68	65.221		
9,682.09	9,677.00	11,565.00	10,986.66	33.93	36.89	78.00	672.99	3,942.06	4,389.41	4,321.18	68.23	64.334		
9,700.00	9,694.91	11,565.00	10,986.66	33.99	36.89	78.00	672.99	3,942.06	4,384.03	4,315.69	68.35	64.145		
9,800.00	9,794.91	11,565.00	10,986.66	34.33	36.89	78.00	672.99	3,942.06	4,355.25	4,286.27	68.99	63.130		
9,900.00	9,894.91	11,565.00	10,986.66	34.68	36.89	78.00	672.99	3,942.06	4,328.59	4,258.98	69.62	62.178		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Sea Snake 35 State 4H - Original Hole - Original Hole		Offset Site Error: 0.00 ft	
Survey Program: 130-MWD+IGRF, 9674-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)					
10,000.00	9,994.91	11,565.00	10,986.66	35.02	36.89	78.00	672.99	3,942.06	4,304.09	4,233.87	70.23	61.288				
10,032.13	10,027.04	11,565.00	10,986.66	35.13	36.89	78.00	672.99	3,942.06	4,296.68	4,226.26	70.42	61.015				
10,050.00	10,044.90	11,565.00	10,986.66	35.19	36.89	78.82	672.99	3,942.06	4,292.61	4,222.08	70.53	60.866				
10,100.00	10,094.75	11,565.00	10,986.66	35.36	36.89	79.99	672.99	3,942.06	4,281.04	4,210.22	70.82	60.453				
10,150.00	10,144.08	11,565.00	10,986.66	35.53	36.89	81.18	672.99	3,942.06	4,269.28	4,198.18	71.09	60.052				
10,200.00	10,192.52	11,565.00	10,986.66	35.68	36.89	82.39	672.99	3,942.06	4,257.42	4,186.06	71.36	59.663				
10,250.00	10,239.69	11,565.00	10,986.66	35.84	36.89	83.60	672.99	3,942.06	4,245.55	4,173.95	71.61	59.290				
10,300.00	10,285.26	11,565.00	10,986.66	35.98	36.89	84.81	672.99	3,942.06	4,233.77	4,161.93	71.84	58.932				
10,350.00	10,328.85	11,581.34	10,987.16	36.12	37.01	85.81	689.00	3,938.82	4,222.11	4,149.92	72.19	58.484				
10,400.00	10,370.15	11,597.38	10,987.62	36.25	37.13	86.81	704.73	3,935.70	4,210.60	4,138.07	72.53	58.055				
10,450.00	10,408.84	11,615.22	10,988.09	36.37	37.26	87.78	722.23	3,932.28	4,199.29	4,126.43	72.86	57.632				
10,500.00	10,444.62	11,634.72	10,988.56	36.49	37.41	88.73	741.38	3,928.62	4,188.24	4,115.04	73.20	57.216				
10,550.00	10,477.22	11,659.00	10,989.07	36.61	37.60	89.61	765.24	3,924.18	4,177.48	4,103.92	73.57	56.786				
10,600.00	10,506.40	11,690.05	10,989.63	36.73	37.85	90.44	795.78	3,918.60	4,167.01	4,093.01	74.00	56.312				
10,650.00	10,531.93	11,728.28	10,990.18	36.85	38.17	91.23	833.39	3,911.77	4,156.78	4,082.29	74.49	55.805				
10,700.00	10,553.61	11,772.04	10,990.64	36.97	38.56	91.99	876.46	3,904.02	4,146.80	4,071.76	75.03	55.266				
10,750.00	10,571.29	11,824.72	10,991.15	37.10	39.04	92.74	928.29	3,894.64	4,137.00	4,061.32	75.68	54.666				
10,800.00	10,584.83	11,865.59	10,991.56	37.22	39.44	93.57	968.50	3,887.33	4,127.43	4,051.21	76.22	54.154				
10,850.00	10,594.12	11,897.10	10,991.92	37.34	39.75	94.42	999.52	3,881.81	4,118.32	4,041.65	76.67	53.717				
10,900.00	10,599.10	11,929.03	10,992.34	37.47	40.07	95.26	1,030.98	3,876.34	4,109.75	4,032.63	77.12	53.292				
10,932.14	10,600.00	11,942.00	10,992.53	37.55	40.20	95.78	1,043.76	3,874.15	4,104.57	4,027.25	77.32	53.083				
11,000.00	10,600.00	11,996.05	10,993.19	37.73	40.78	95.80	1,097.07	3,865.26	4,094.03	4,015.95	78.08	52.432				
11,100.00	10,600.00	12,037.00	10,993.52	38.04	41.21	95.82	1,137.50	3,858.75	4,079.28	4,000.47	78.82	51.758				
11,200.00	10,600.00	12,096.39	10,993.93	38.41	41.87	95.83	1,196.25	3,850.03	4,065.63	3,985.80	79.83	50.928				
11,300.00	10,600.00	12,131.00	10,994.21	38.83	42.26	95.84	1,230.55	3,845.47	4,053.45	3,972.85	80.61	50.286				
11,400.00	10,600.00	12,192.74	10,995.23	39.30	42.97	95.87	1,291.84	3,838.05	4,042.47	3,960.70	81.77	49.437				
11,500.00	10,600.00	12,261.23	10,997.24	39.81	43.77	95.91	1,359.89	3,830.61	4,032.60	3,949.52	83.08	48.541				
11,600.00	10,600.00	12,352.34	10,999.14	40.37	44.88	95.95	1,450.47	3,821.03	4,023.06	3,938.32	84.74	47.473				
11,700.00	10,600.00	12,414.00	11,000.60	40.98	45.65	95.98	1,511.79	3,814.70	4,013.93	3,927.83	86.10	46.622				
11,800.00	10,600.00	12,483.90	11,002.29	41.62	46.54	96.01	1,581.35	3,808.11	4,005.60	3,917.98	87.62	45.715				
11,900.00	10,600.00	12,592.29	11,003.66	42.31	47.96	96.04	1,689.35	3,798.96	3,998.06	3,908.32	89.74	44.552				
12,000.00	10,600.00	12,664.88	11,003.66	43.04	48.94	96.05	1,761.68	3,792.83	3,990.40	3,898.97	91.43	43.643				
12,100.00	10,600.00	12,807.73	11,004.86	43.80	50.94	96.08	1,904.00	3,780.68	3,982.80	3,888.59	94.21	42.274				
12,200.00	10,600.00	12,868.61	11,006.45	44.60	51.81	96.11	1,964.62	3,775.28	3,974.95	3,879.09	95.86	41.467				
12,300.00	10,600.00	13,017.12	11,012.12	45.43	54.00	96.22	2,112.39	3,761.68	3,966.94	3,868.05	98.89	40.113				
12,400.00	10,600.00	12,400.00	11,016.50	46.29	44.53	96.30	2,240.41	3,748.71	3,958.00	3,867.77	90.23	43.868				
12,500.00	10,600.00	13,240.85	11,019.75	47.17	57.45	96.36	2,334.79	3,738.49	3,948.40	3,844.33	104.07	37.940				
12,600.00	10,600.00	13,289.17	11,021.67	48.09	58.21	96.40	2,382.83	3,733.71	3,939.78	3,834.07	105.71	37.271				
12,700.00	10,600.00	13,328.90	11,023.02	49.04	58.83	96.42	2,422.40	3,730.43	3,932.64	3,825.42	107.22	36.677				
12,800.00	10,600.00	13,374.03	11,024.24	50.00	59.54	96.44	2,467.41	3,727.44	3,927.01	3,818.16	108.84	36.079				
12,900.00	10,600.00	13,433.65	11,025.74	50.99	60.47	96.47	2,526.92	3,724.16	3,922.53	3,811.82	110.72	35.428				
13,000.00	10,600.00	13,554.70	11,027.89	52.01	62.38	96.51	2,647.80	3,718.16	3,918.56	3,804.90	113.65	34.478				
13,100.00	10,600.00	13,673.41	11,029.62	53.04	64.29	96.54	2,766.30	3,711.27	3,913.64	3,797.03	116.61	33.562				
13,200.00	10,600.00	13,751.95	11,031.74	54.09	65.57	96.58	2,844.68	3,706.72	3,908.90	3,790.00	118.91	32.874				
13,300.00	10,600.00	13,820.10	11,034.86	55.16	66.68	96.63	2,912.66	3,703.12	3,904.88	3,783.84	121.04	32.261				
13,400.00	10,600.00	13,929.98	11,040.91	56.25	68.49	96.73	3,022.23	3,697.58	3,901.22	3,777.30	123.92	31.481				
13,500.00	10,600.00	13,993.62	11,043.71	57.36	69.54	96.77	3,085.75	3,694.64	3,897.85	3,771.82	126.02	30.929				
13,600.00	10,600.00	14,139.93	11,047.20	58.48	71.98	96.83	3,231.86	3,688.09	3,894.42	3,764.80	129.62	30.044				
13,700.00	10,600.00	14,215.81	11,048.37	59.61	73.26	96.86	3,307.64	3,684.49	3,890.61	3,758.61	132.00	29.474				
13,800.00	10,600.00	14,292.67	11,049.14	60.76	74.56	96.87	3,384.43	3,681.37	3,887.40	3,752.99	134.41	28.922				
13,900.00	10,600.00	14,402.81	11,048.84	61.92	76.43	96.87	3,494.50	3,677.30	3,884.41	3,746.97	137.44	28.262				
14,000.00	10,600.00	14,461.27	11,048.76	63.10	77.43	96.88	3,552.93	3,675.38	3,881.81	3,742.26	139.55	27.817				

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35 State 4H - Original Hole - Original Hole												Offset Site Error:	0.00 ft
Survey Program: 130-MWD+IGRF, 9674-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	
14,100.00	10,600.00	14,571.98	11,050.25	64.28	79.32	96.90	3,663.58	3,672.23	3,879.89	3,737.26	142.63	27.203	
14,200.00	10,600.00	14,639.97	11,051.81	65.48	80.48	96.93	3,731.52	3,670.10	3,877.81	3,732.88	144.93	26.757	
14,300.00	10,600.00	14,736.60	11,054.60	66.68	82.15	96.97	3,828.09	3,667.94	3,876.64	3,728.87	147.78	26.233	
14,400.00	10,600.00	14,897.77	11,059.95	67.90	84.95	97.06	3,989.05	3,661.97	3,873.88	3,722.03	151.85	25.511	
14,500.00	10,600.00	14,965.00	11,062.18	69.13	86.13	97.09	4,056.20	3,659.53	3,871.36	3,717.16	154.19	25.107	
14,600.00	10,600.00	15,084.81	11,066.12	70.36	88.24	97.16	4,175.85	3,654.83	3,868.51	3,710.98	157.54	24.556	
14,700.00	10,600.00	15,131.12	11,067.65	71.60	89.06	97.18	4,222.11	3,653.37	3,866.50	3,707.00	159.50	24.242	
14,800.00	10,600.00	15,196.92	11,070.22	72.85	90.21	97.22	4,287.84	3,652.12	3,865.75	3,703.93	161.82	23.890	
14,900.00	10,600.00	15,294.07	11,075.24	74.11	91.92	97.30	4,384.86	3,650.50	3,865.45	3,700.71	164.74	23.464	
15,000.00	10,600.00	15,469.45	11,083.64	75.38	95.02	97.43	4,559.96	3,645.70	3,864.00	3,694.81	169.19	22.838	
15,100.00	10,600.00	15,551.74	11,086.60	76.65	96.49	97.48	4,642.15	3,643.07	3,861.99	3,690.11	171.88	22.469	
15,200.00	10,600.00	15,629.00	11,089.05	77.93	97.88	97.52	4,719.34	3,640.75	3,860.21	3,685.73	174.48	22.124	
15,248.33	10,600.00	15,629.00	11,089.05	78.55	97.88	97.52	4,719.34	3,640.75	3,859.91	3,684.91	175.00	22.057 CC	
15,300.00	10,600.00	15,629.00	11,089.05	79.21	97.88	97.52	4,719.34	3,640.75	3,860.25	3,684.72	175.53	21.992 ES	
15,400.00	10,600.00	15,629.00	11,089.05	80.50	97.88	97.52	4,719.34	3,640.75	3,862.88	3,686.40	176.49	21.888	
15,500.00	10,600.00	15,629.00	11,089.05	81.80	97.88	97.52	4,719.34	3,640.75	3,868.10	3,690.75	177.35	21.810	
15,575.11	10,600.00	15,629.00	11,089.05	82.77	97.88	97.52	4,719.34	3,640.75	3,873.71	3,695.78	177.94	21.770 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	7.10	7.10	0.50	0.50	91.38	-37.78	1,566.33	1,566.79					
100.00	100.00	107.10	107.10	0.52	0.52	91.38	-37.78	1,566.33	1,566.79	1,565.75	1.04	1,502.634		
200.00	200.00	207.10	207.10	0.70	0.72	91.38	-37.78	1,566.33	1,566.79	1,565.37	1.42	1,101.586		
300.00	300.00	307.10	307.10	0.99	1.01	91.38	-37.78	1,566.33	1,566.79	1,564.79	2.00	784.689		
400.00	400.00	407.10	407.10	1.31	1.33	91.38	-37.78	1,566.33	1,566.79	1,564.15	2.64	593.090		
500.00	500.00	507.10	507.10	1.65	1.67	91.38	-37.78	1,566.33	1,566.79	1,563.47	3.32	472.430		
600.00	600.00	607.10	607.10	1.99	2.02	91.38	-37.78	1,566.33	1,566.79	1,562.78	4.01	391.125		
700.00	700.00	707.10	707.10	2.34	2.36	91.38	-37.78	1,566.33	1,566.79	1,562.09	4.70	333.111		
800.00	800.00	807.10	807.10	2.69	2.72	91.38	-37.78	1,566.33	1,566.79	1,561.38	5.41	289.813		
900.00	900.00	907.10	907.10	3.04	3.07	91.38	-37.78	1,566.33	1,566.79	1,560.68	6.11	256.338		
1,000.00	1,000.00	1,007.10	1,007.10	3.40	3.42	91.38	-37.78	1,566.33	1,566.79	1,559.97	6.82	229.718		
1,100.00	1,100.00	1,107.10	1,107.10	3.75	3.78	91.38	-37.78	1,566.33	1,566.79	1,559.26	7.53	208.061		
1,200.00	1,200.00	1,207.10	1,207.10	4.11	4.13	91.38	-37.78	1,566.33	1,566.79	1,558.55	8.24	190.108		
1,300.00	1,300.00	1,307.10	1,307.10	4.46	4.49	91.38	-37.78	1,566.33	1,566.79	1,557.84	8.95	174.989		
1,400.00	1,400.00	1,407.10	1,407.10	4.82	4.85	91.38	-37.78	1,566.33	1,566.79	1,557.12	9.67	162.086		
1,500.00	1,500.00	1,507.10	1,507.10	5.18	5.20	91.38	-37.78	1,566.33	1,566.79	1,556.41	10.38	150.946		
1,600.00	1,600.00	1,607.10	1,607.10	5.53	5.56	91.38	-37.78	1,566.33	1,566.79	1,555.70	11.09	141.233		
1,700.00	1,700.00	1,707.10	1,707.10	5.89	5.92	91.38	-37.78	1,566.33	1,566.79	1,554.98	11.81	132.691		
1,800.00	1,800.00	1,807.10	1,807.10	6.25	6.27	91.38	-37.78	1,566.33	1,566.79	1,554.27	12.52	125.120		
1,900.00	1,900.00	1,907.10	1,907.10	6.61	6.63	91.38	-37.78	1,566.33	1,566.79	1,553.55	13.24	118.363		
2,000.00	2,000.00	2,007.10	2,007.10	6.96	6.99	91.38	-37.78	1,566.33	1,566.79	1,552.84	13.95	112.298		
2,100.00	2,100.00	2,107.10	2,107.10	7.32	7.35	91.38	-37.78	1,566.33	1,566.79	1,552.12	14.67	106.822		
2,200.00	2,200.00	2,207.10	2,207.10	7.68	7.70	91.38	-37.78	1,566.33	1,566.79	1,551.41	15.38	101.854		
2,300.00	2,300.00	2,307.10	2,307.10	8.04	8.06	91.38	-37.78	1,566.33	1,566.79	1,550.69	16.10	97.327		
2,400.00	2,400.00	2,407.10	2,407.10	8.39	8.42	91.38	-37.78	1,566.33	1,566.79	1,549.97	16.81	93.185		
2,500.00	2,500.00	2,507.10	2,507.10	8.75	8.78	91.38	-37.78	1,566.33	1,566.79	1,549.26	17.53	89.380		
2,600.00	2,600.00	2,607.10	2,607.10	9.11	9.14	91.38	-37.78	1,566.33	1,566.79	1,548.54	18.25	85.874		
2,700.00	2,700.00	2,707.10	2,707.10	9.47	9.49	91.38	-37.78	1,566.33	1,566.79	1,547.83	18.96	82.631 CC, ES		
2,800.00	2,800.00	2,784.23	2,784.23	9.83	9.76	91.38	-37.87	1,566.95	1,567.57	1,547.99	19.58	80.040		
2,900.00	2,900.00	2,862.85	2,862.83	10.18	10.03	91.39	-38.12	1,568.62	1,569.71	1,549.50	20.21	77.689		
3,000.00	3,000.00	2,941.41	2,941.34	10.54	10.30	91.40	-38.53	1,571.36	1,573.21	1,552.39	20.82	75.559		
3,100.00	3,100.00	3,019.88	3,019.71	10.90	10.56	91.42	-39.10	1,575.16	1,578.07	1,556.64	21.43	73.627		
3,200.00	3,200.00	3,100.00	3,099.68	11.26	10.84	91.44	-39.84	1,580.14	1,584.29	1,562.24	22.05	71.850		
3,300.00	3,300.00	3,176.42	3,175.87	11.62	11.10	91.47	-40.70	1,585.91	1,591.85	1,569.21	22.65	70.288		
3,400.00	3,400.00	3,254.44	3,253.58	11.97	11.37	91.50	-41.74	1,592.84	1,600.77	1,577.52	23.25	68.854		
3,500.00	3,500.00	3,332.26	3,330.97	12.33	11.65	91.54	-42.93	1,600.80	1,611.03	1,587.19	23.85	67.562		
3,600.00	3,600.00	3,409.79	3,407.98	12.67	11.92	-125.82	-44.26	1,609.76	1,623.14	1,598.72	24.42	66.465		
3,700.00	3,699.96	3,486.95	3,484.47	13.00	12.19	-125.71	-45.75	1,619.70	1,637.59	1,612.61	24.98	65.567		
3,737.73	3,737.66	3,515.94	3,513.18	13.13	12.30	-125.68	-46.34	1,623.70	1,643.65	1,618.46	25.18	65.264		
3,800.00	3,799.88	3,563.67	3,560.41	13.33	12.47	-125.70	-47.37	1,630.59	1,654.17	1,628.64	25.53	64.801		
3,900.00	3,899.79	3,640.04	3,635.82	13.66	12.74	-125.74	-49.14	1,642.43	1,672.13	1,646.05	26.07	64.132		
4,000.00	3,999.71	3,716.02	3,710.70	13.99	13.02	-125.78	-51.05	1,655.20	1,691.38	1,664.76	26.62	63.547		
4,100.00	4,099.62	3,791.61	3,785.01	14.32	13.30	-125.81	-53.09	1,668.87	1,711.92	1,684.77	27.15	63.043		
4,200.00	4,199.53	3,866.54	3,878.20	14.66	13.66	-125.84	-55.76	1,686.79	1,733.25	1,705.44	27.81	62.328		
4,300.00	4,299.45	3,984.23	3,974.09	15.00	14.03	-125.87	-58.52	1,705.24	1,754.59	1,726.11	28.48	61.604		
4,400.00	4,399.36	4,081.92	4,069.98	15.33	14.41	-125.91	-61.27	1,723.69	1,775.93	1,746.78	29.16	60.907		
4,500.00	4,499.28	4,179.61	4,165.88	15.67	14.79	-125.94	-64.03	1,742.15	1,797.28	1,767.44	29.84	60.237		
4,600.00	4,599.19	4,277.30	4,261.77	16.01	15.17	-125.97	-66.78	1,760.60	1,818.62	1,788.10	30.52	59.591		
4,700.00	4,699.10	4,374.99	4,357.67	16.35	15.56	-126.00	-69.54	1,779.05	1,839.96	1,808.76	31.20	58.969		
4,800.00	4,799.02	4,472.68	4,453.56	16.69	15.95	-126.03	-72.29	1,797.50	1,861.30	1,829.42	31.89	58.369		
4,900.00	4,898.93	4,570.38	4,549.45	17.04	16.34	-126.06	-75.05	1,815.95	1,882.65	1,850.07	32.58	57.792		
5,000.00	4,998.85	4,668.07	4,645.35	17.38	16.73	-126.08	-77.80	1,834.40	1,903.99	1,870.73	33.27	57.234		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	4,765.76	4,741.24	17.72	17.13	-126.11	-80.56	1,852.85	1,925.34	1,891.38	33.96	56.697		
5,200.00	5,198.67	4,863.45	4,837.13	18.07	17.53	-126.14	-83.31	1,871.30	1,946.68	1,912.03	34.65	56.177		
5,300.00	5,298.59	4,961.14	4,933.03	18.41	17.93	-126.17	-86.07	1,889.76	1,968.03	1,932.68	35.35	55.676		
5,400.00	5,398.50	5,058.83	5,028.92	18.76	18.33	-126.19	-88.82	1,908.21	1,989.37	1,953.33	36.04	55.192		
5,500.00	5,498.42	5,156.52	5,124.81	19.11	18.74	-126.22	-91.58	1,926.66	2,010.72	1,973.98	36.74	54.724		
5,600.00	5,598.33	5,254.21	5,220.71	19.45	19.14	-126.24	-94.33	1,945.11	2,032.06	1,994.62	37.44	54.271		
5,700.00	5,698.24	5,351.91	5,316.60	19.80	19.55	-126.26	-97.09	1,963.56	2,053.41	2,015.27	38.14	53.833		
5,800.00	5,798.16	5,449.60	5,412.49	20.15	19.96	-126.29	-99.84	1,982.01	2,074.76	2,035.91	38.85	53.409		
5,900.00	5,898.07	5,547.29	5,508.39	20.50	20.37	-126.31	-102.60	2,000.46	2,096.11	2,056.56	39.55	52.999		
6,000.00	5,997.98	5,644.98	5,604.28	20.85	20.78	-126.33	-105.35	2,018.91	2,117.45	2,077.20	40.25	52.601		
6,100.00	6,097.90	5,742.67	5,700.18	21.20	21.20	-126.36	-108.10	2,037.37	2,138.80	2,097.84	40.96	52.216		
6,200.00	6,197.81	5,840.36	5,796.07	21.55	21.61	-126.38	-110.86	2,055.82	2,160.15	2,118.48	41.67	51.843		
6,300.00	6,297.73	5,938.05	5,891.96	21.90	22.03	-126.40	-113.61	2,074.27	2,181.50	2,139.12	42.38	51.481		
6,400.00	6,397.64	6,035.75	5,987.86	22.25	22.44	-126.42	-116.37	2,092.72	2,202.85	2,159.76	43.08	51.129		
6,500.00	6,497.55	6,133.44	6,083.75	22.61	22.86	-126.44	-119.12	2,111.17	2,224.20	2,180.40	43.79	50.788		
6,600.00	6,597.47	6,231.13	6,179.64	22.96	23.28	-126.46	-121.88	2,129.62	2,245.55	2,201.04	44.50	50.457		
6,700.00	6,697.38	6,328.82	6,275.54	23.31	23.70	-126.48	-124.63	2,148.07	2,266.90	2,221.68	45.22	50.136		
6,800.00	6,797.30	6,426.51	6,371.43	23.66	24.12	-126.50	-127.39	2,166.52	2,288.25	2,242.32	45.93	49.823		
6,900.00	6,897.21	6,524.20	6,467.32	24.02	24.54	-126.52	-130.14	2,184.98	2,309.60	2,262.96	46.64	49.520		
7,000.00	6,997.12	6,621.89	6,563.22	24.37	24.96	-126.54	-132.90	2,203.43	2,330.95	2,283.59	47.35	49.224		
7,100.00	7,097.04	6,719.59	6,659.11	24.73	25.39	-126.56	-135.65	2,221.88	2,352.30	2,304.23	48.07	48.937		
7,200.00	7,196.95	6,817.28	6,755.00	25.08	25.81	-126.57	-138.41	2,240.33	2,373.65	2,324.87	48.78	48.658		
7,300.00	7,296.87	6,914.97	6,850.90	25.43	26.23	-126.59	-141.16	2,258.78	2,395.00	2,345.50	49.50	48.386		
7,400.00	7,396.78	7,012.66	6,946.79	25.79	26.66	-126.61	-143.92	2,277.23	2,416.35	2,366.14	50.21	48.121		
7,500.00	7,496.69	7,110.35	7,042.69	26.14	27.08	-126.63	-146.67	2,295.68	2,437.70	2,386.77	50.93	47.863		
7,600.00	7,596.61	7,208.04	7,138.58	26.50	27.51	-126.64	-149.43	2,314.13	2,459.05	2,407.41	51.65	47.611		
7,700.00	7,696.52	7,305.73	7,234.47	26.86	27.93	-126.66	-152.18	2,332.59	2,480.41	2,428.04	52.37	47.366		
7,800.00	7,796.44	7,403.43	7,330.37	27.21	28.36	-126.68	-154.94	2,351.04	2,501.76	2,448.67	53.08	47.128		
7,900.00	7,896.35	7,501.12	7,426.26	27.57	28.79	-126.69	-157.69	2,369.49	2,523.11	2,469.31	53.80	46.895		
8,000.00	7,996.26	7,601.19	7,522.15	27.92	29.23	-126.71	-160.44	2,387.94	2,544.46	2,489.93	54.53	46.660		
8,100.00	8,096.18	7,703.50	7,618.05	28.28	29.67	-126.72	-163.20	2,406.39	2,565.82	2,510.55	55.27	46.424		
8,200.00	8,196.09	7,805.81	7,713.94	28.64	30.12	-126.74	-165.95	2,424.84	2,587.17	2,531.16	56.01	46.193		
8,300.00	8,296.01	7,908.12	7,809.83	28.99	30.57	-126.75	-168.71	2,443.29	2,608.52	2,551.78	56.75	45.968		
8,400.00	8,395.92	7,989.57	7,905.73	29.35	30.93	-126.77	-171.46	2,461.74	2,629.88	2,572.47	57.41	45.812		
8,500.00	8,495.83	8,087.27	8,001.62	29.71	31.36	-126.78	-174.22	2,480.20	2,651.23	2,593.10	58.13	45.610		
8,600.00	8,595.75	8,230.79	8,142.61	30.06	31.99	-126.80	-178.18	2,506.75	2,672.41	2,613.28	59.12	45.201		
8,700.00	8,695.66	8,554.43	8,463.31	30.42	33.29	-126.91	-184.49	2,549.01	2,687.97	2,626.99	60.98	44.083		
8,800.00	8,795.58	8,884.23	8,792.66	30.78	34.43	-127.09	-186.78	2,564.31	2,695.11	2,632.64	62.47	43.141		
8,900.00	8,895.49	9,005.83	8,902.59	31.14	34.82	-127.17	-186.78	2,564.33	2,697.63	2,634.40	63.23	42.663		
9,000.00	8,995.40	9,105.92	9,002.50	31.50	35.14	-127.24	-186.78	2,564.33	2,700.14	2,636.21	63.93	42.239		
9,100.00	9,095.32	9,193.99	9,102.42	31.85	35.41	-127.31	-186.78	2,564.33	2,702.65	2,638.07	64.58	41.850		
9,200.00	9,195.23	9,295.68	9,204.05	32.21	35.74	-127.42	-184.85	2,564.32	2,705.15	2,639.88	65.28	41.441		
9,300.00	9,295.14	9,395.64	9,302.46	32.57	36.04	-127.85	-168.02	2,564.20	2,707.62	2,641.66	65.96	41.047		
9,400.00	9,395.06	9,486.27	9,387.94	32.93	36.29	-128.54	-138.20	2,563.98	2,710.40	2,643.78	66.61	40.688		
9,500.00	9,494.97	9,565.03	9,457.62	33.29	36.47	-129.36	-101.61	2,563.71	2,714.04	2,646.81	67.23	40.372		
9,523.61	9,518.56	9,581.84	9,471.79	33.37	36.51	-129.56	-92.59	2,563.64	2,715.09	2,647.72	67.36	40.305		
9,600.00	9,594.91	9,632.03	9,512.47	33.64	36.61	-130.24	-63.21	2,563.43	2,718.63	2,650.84	67.79	40.103		
9,682.09	9,677.00	9,679.58	9,548.50	33.93	36.70	86.53	-32.20	2,563.20	2,722.58	2,654.36	68.21	39.912		
9,700.00	9,694.91	9,689.14	9,555.43	33.99	36.71	86.39	-25.61	2,563.15	2,723.51	2,655.21	68.30	39.875		
9,800.00	9,794.91	9,737.28	9,588.58	34.33	36.78	85.65	9.27	2,562.90	2,730.08	2,661.33	68.75	39.709		
9,900.00	9,894.91	9,777.67	9,614.06	34.68	36.83	85.00	40.60	2,562.67	2,739.23	2,670.08	69.15	39.615		
10,000.00	9,994.91	9,811.72	9,633.77	35.02	36.87	84.41	68.36	2,562.47	2,751.16	2,681.69	69.48	39.598		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	9,821.52	9,639.14	35.13	36.88	84.24	76.55	2,562.41	2,755.62	2,686.05	69.57	39.608		
10,050.00	10,044.90	9,826.88	9,642.01	35.19	36.88	84.30	81.08	2,562.37	2,758.20	2,688.58	69.62	39.617		
10,100.00	10,094.75	9,850.00	9,653.93	35.36	36.91	83.16	100.89	2,562.23	2,765.64	2,695.86	69.78	39.635		
10,150.00	10,144.08	9,850.00	9,653.93	35.53	36.91	82.40	100.89	2,562.23	2,773.27	2,703.43	69.84	39.711		
10,200.00	10,192.52	9,875.28	9,666.03	35.68	36.93	81.24	123.09	2,562.06	2,780.97	2,711.00	69.97	39.744		
10,250.00	10,239.69	9,900.00	9,676.90	35.84	36.95	80.11	145.28	2,561.90	2,788.73	2,718.64	70.09	39.786		
10,300.00	10,285.26	9,900.00	9,676.90	35.98	36.95	79.35	145.28	2,561.90	2,796.40	2,726.29	70.11	39.886		
10,350.00	10,328.85	9,928.18	9,688.11	36.12	36.96	78.25	171.13	2,561.71	2,803.83	2,733.61	70.22	39.929		
10,400.00	10,370.15	9,950.00	9,695.92	36.25	36.98	77.29	191.50	2,561.56	2,811.04	2,740.73	70.31	39.982		
10,450.00	10,408.84	9,965.12	9,700.86	36.37	36.98	76.46	205.79	2,561.46	2,817.89	2,747.52	70.36	40.047		
10,500.00	10,444.62	9,983.96	9,706.50	36.49	36.99	75.66	223.77	2,561.33	2,824.31	2,753.88	70.43	40.100		
10,550.00	10,477.22	10,000.00	9,710.83	36.61	37.00	74.94	239.21	2,561.21	2,830.24	2,759.75	70.49	40.150		
10,600.00	10,506.40	10,022.22	9,716.11	36.73	37.01	74.26	260.79	2,561.06	2,835.59	2,765.01	70.58	40.175		
10,650.00	10,531.93	10,050.00	9,721.53	36.85	37.03	73.63	288.03	2,560.86	2,840.36	2,769.66	70.70	40.177		
10,700.00	10,553.61	10,050.00	9,721.53	36.97	37.03	73.24	288.03	2,560.86	2,844.44	2,773.72	70.73	40.216		
10,750.00	10,571.29	10,080.64	9,725.97	37.10	37.04	72.78	318.35	2,560.64	2,847.74	2,776.86	70.88	40.177		
10,800.00	10,584.83	10,100.00	9,727.94	37.22	37.06	72.47	337.60	2,560.49	2,850.33	2,779.32	71.01	40.142		
10,850.00	10,594.12	10,120.00	9,729.28	37.34	37.07	72.25	357.56	2,560.35	2,852.15	2,780.99	71.15	40.085		
10,900.00	10,599.10	10,148.62	9,730.00	37.47	37.09	72.12	386.16	2,560.14	2,853.20	2,781.86	71.34	39.994		
10,932.14	10,600.00	10,158.28	9,730.00	37.55	37.10	72.10	395.82	2,560.07	2,853.38	2,781.93	71.45	39.937		
11,000.00	10,600.00	10,226.14	9,730.00	37.73	37.18	72.10	463.68	2,559.57	2,853.37	2,781.53	71.84	39.979		
11,100.00	10,600.00	10,326.14	9,730.00	38.04	37.35	72.10	563.68	2,558.84	2,853.35	2,780.85	72.50	39.356		
11,200.00	10,600.00	10,426.14	9,730.00	38.41	37.61	72.10	663.68	2,558.11	2,853.33	2,780.07	73.26	38.946		
11,300.00	10,600.00	10,526.14	9,730.00	38.83	37.95	72.10	763.68	2,557.38	2,853.32	2,779.19	74.12	38.493		
11,400.00	10,600.00	10,626.14	9,730.00	39.30	38.37	72.10	863.67	2,556.64	2,853.30	2,778.22	75.08	38.003		
11,500.00	10,600.00	10,726.14	9,730.00	39.81	38.86	72.10	963.67	2,555.91	2,853.28	2,777.15	76.13	37.479		
11,600.00	10,600.00	10,826.14	9,730.00	40.37	39.42	72.10	1,063.67	2,555.18	2,853.26	2,776.00	77.27	36.927		
11,700.00	10,600.00	10,926.14	9,730.00	40.98	40.02	72.10	1,163.67	2,554.45	2,853.25	2,774.76	78.49	36.352		
11,800.00	10,600.00	11,026.14	9,730.00	41.62	40.68	72.10	1,263.66	2,553.72	2,853.23	2,773.44	79.79	35.758		
11,900.00	10,600.00	11,126.14	9,730.00	42.31	41.38	72.10	1,363.66	2,552.98	2,853.21	2,772.04	81.17	35.151		
12,000.00	10,600.00	11,226.14	9,730.00	43.04	42.12	72.10	1,463.66	2,552.25	2,853.20	2,770.57	82.62	34.533		
12,100.00	10,600.00	11,326.14	9,730.00	43.80	42.90	72.10	1,563.65	2,551.52	2,853.18	2,769.03	84.14	33.909		
12,200.00	10,600.00	11,426.14	9,730.00	44.60	43.72	72.10	1,663.65	2,550.79	2,853.16	2,767.43	85.73	33.281		
12,300.00	10,600.00	11,526.14	9,730.00	45.43	44.57	72.10	1,763.65	2,550.05	2,853.14	2,765.77	87.38	32.653		
12,400.00	10,600.00	11,626.14	9,730.00	46.29	45.45	72.10	1,863.65	2,549.32	2,853.13	2,764.04	89.08	32.028		
12,500.00	10,600.00	11,726.14	9,730.00	47.17	46.35	72.10	1,963.64	2,548.59	2,853.11	2,762.26	90.84	31.407		
12,600.00	10,600.00	11,826.14	9,730.00	48.09	47.29	72.10	2,063.64	2,547.86	2,853.09	2,760.43	92.66	30.792		
12,700.00	10,600.00	11,926.14	9,730.00	49.04	48.25	72.10	2,163.64	2,547.13	2,853.07	2,758.55	94.52	30.185		
12,800.00	10,600.00	12,026.14	9,730.00	50.00	49.24	72.10	2,263.64	2,546.39	2,853.06	2,756.63	96.43	29.587		
12,900.00	10,600.00	12,126.14	9,730.00	50.99	50.25	72.10	2,363.63	2,545.66	2,853.04	2,754.66	98.38	29.000		
13,000.00	10,600.00	12,226.14	9,730.00	52.01	51.28	72.10	2,463.63	2,544.93	2,853.02	2,752.65	100.37	28.424		
13,100.00	10,600.00	12,326.14	9,730.00	53.04	52.33	72.10	2,563.63	2,544.20	2,853.00	2,750.60	102.40	27.860		
13,200.00	10,600.00	12,426.14	9,730.00	54.09	53.40	72.10	2,663.62	2,543.47	2,852.99	2,748.52	104.47	27.309		
13,300.00	10,600.00	12,526.14	9,730.00	55.16	54.49	72.10	2,763.62	2,542.73	2,852.97	2,746.40	106.57	26.770		
13,400.00	10,600.00	12,626.14	9,730.00	56.25	55.60	72.10	2,863.62	2,542.00	2,852.95	2,744.25	108.71	26.245		
13,500.00	10,600.00	12,726.14	9,730.00	57.36	56.72	72.10	2,963.62	2,541.27	2,852.93	2,742.06	110.87	25.732		
13,600.00	10,600.00	12,826.14	9,730.00	58.48	57.85	72.09	3,063.61	2,540.54	2,852.92	2,739.85	113.06	25.233		
13,700.00	10,600.00	12,926.14	9,730.00	59.61	59.00	72.09	3,163.61	2,539.81	2,852.90	2,737.62	115.28	24.747		
13,800.00	10,600.00	13,026.14	9,730.00	60.76	60.17	72.09	3,263.61	2,539.07	2,852.88	2,735.35	117.53	24.274		
13,900.00	10,600.00	13,126.14	9,730.00	61.92	61.34	72.09	3,363.61	2,538.34	2,852.87	2,733.07	119.80	23.814		
14,000.00	10,600.00	13,226.14	9,730.00	63.10	62.53	72.09	3,463.60	2,537.61	2,852.85	2,730.76	122.09	23.367		
14,100.00	10,600.00	13,326.14	9,730.00	64.28	63.73	72.09	3,563.60	2,536.88	2,852.83	2,728.43	124.40	22.932		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	13,426.14	9,730.00	65.48	64.93	72.09	3,663.60	2,536.15	2,852.81	2,726.08	126.74	22.510	
14,300.00	10,600.00	13,526.14	9,730.00	66.68	66.15	72.09	3,763.60	2,535.41	2,852.80	2,723.71	129.09	22.099	
14,400.00	10,600.00	13,626.14	9,730.00	67.90	67.38	72.09	3,863.59	2,534.68	2,852.78	2,721.32	131.46	21.701	
14,500.00	10,600.00	13,726.14	9,730.00	69.13	68.62	72.09	3,963.59	2,533.95	2,852.76	2,718.91	133.85	21.314	
14,600.00	10,600.00	13,826.14	9,730.00	70.36	69.86	72.09	4,063.59	2,533.22	2,852.74	2,716.49	136.25	20.937	
14,700.00	10,600.00	13,926.14	9,730.00	71.60	71.12	72.09	4,163.58	2,532.49	2,852.73	2,714.06	138.67	20.572	
14,800.00	10,600.00	14,026.14	9,730.00	72.85	72.38	72.09	4,263.58	2,531.75	2,852.71	2,711.60	141.11	20.217	
14,900.00	10,600.00	14,126.14	9,730.00	74.11	73.64	72.09	4,363.58	2,531.02	2,852.69	2,709.14	143.55	19.872	
15,000.00	10,600.00	14,226.14	9,730.00	75.38	74.92	72.09	4,463.58	2,530.29	2,852.67	2,706.66	146.01	19.537	
15,100.00	10,600.00	14,326.14	9,730.00	76.65	76.20	72.09	4,563.57	2,529.56	2,852.66	2,704.17	148.49	19.211	
15,200.00	10,600.00	14,426.14	9,730.00	77.93	77.49	72.09	4,663.57	2,528.83	2,852.64	2,701.67	150.97	18.895	
15,300.00	10,600.00	14,526.14	9,730.00	79.21	78.78	72.09	4,763.57	2,528.09	2,852.62	2,699.15	153.47	18.587	
15,400.00	10,600.00	14,626.14	9,730.00	80.50	80.08	72.09	4,863.57	2,527.36	2,852.60	2,696.63	155.98	18.288	
15,500.00	10,600.00	14,726.14	9,730.00	81.80	81.38	72.09	4,963.56	2,526.63	2,852.59	2,694.09	158.50	17.998	
15,575.11	10,600.00	14,801.25	9,730.00	82.77	82.37	72.09	5,038.67	2,526.08	2,852.57	2,692.18	160.39	17.785 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.05	54.46	3,296.36	3,296.85					
100.00	100.00	83.70	83.70	0.52	0.51	89.05	54.46	3,296.36	3,296.81	3,295.78	1.03	3,199.979		
200.00	200.00	183.70	183.70	0.70	0.66	89.05	54.46	3,296.36	3,296.81	3,295.44	1.36	2,416.138		
300.00	300.00	283.70	283.70	0.99	0.94	89.05	54.46	3,296.36	3,296.81	3,294.88	1.92	1,712.846		
400.00	400.00	383.70	383.70	1.31	1.26	89.05	54.46	3,296.36	3,296.81	3,294.24	2.56	1,285.617		
500.00	500.00	483.70	483.70	1.65	1.59	89.05	54.46	3,296.36	3,296.81	3,293.57	3.24	1,018.600		
600.00	600.00	583.70	583.70	1.99	1.93	89.05	54.46	3,296.36	3,296.81	3,292.88	3.92	840.014		
700.00	700.00	683.70	683.70	2.34	2.28	89.05	54.46	3,296.36	3,296.81	3,292.18	4.62	713.350		
800.00	800.00	783.70	783.70	2.69	2.63	89.05	54.46	3,296.36	3,296.81	3,291.48	5.32	619.258		
900.00	900.00	883.70	883.70	3.04	2.99	89.05	54.46	3,296.36	3,296.81	3,290.78	6.03	546.781		
1,000.00	1,000.00	983.70	983.70	3.40	3.34	89.05	54.46	3,296.36	3,296.81	3,290.07	6.74	489.319		
1,100.00	1,100.00	1,083.70	1,083.70	3.75	3.69	89.05	54.46	3,296.36	3,296.81	3,289.36	7.45	442.685		
1,200.00	1,200.00	1,183.70	1,183.70	4.11	4.05	89.05	54.46	3,296.36	3,296.81	3,288.65	8.16	404.104		
1,300.00	1,300.00	1,283.70	1,283.70	4.46	4.41	89.05	54.46	3,296.36	3,296.81	3,287.94	8.87	371.668		
1,400.00	1,400.00	1,383.70	1,383.70	4.82	4.76	89.05	54.46	3,296.36	3,296.81	3,287.22	9.58	344.026		
1,500.00	1,500.00	1,483.70	1,483.70	5.18	5.12	89.05	54.46	3,296.36	3,296.81	3,286.51	10.30	320.193		
1,600.00	1,600.00	1,583.70	1,583.70	5.53	5.48	89.05	54.46	3,296.36	3,296.81	3,285.80	11.01	299.435		
1,700.00	1,700.00	1,683.70	1,683.70	5.89	5.83	89.05	54.46	3,296.36	3,296.81	3,285.08	11.72	281.196		
1,800.00	1,800.00	1,783.70	1,783.70	6.25	6.19	89.05	54.46	3,296.36	3,296.81	3,284.37	12.44	265.044		
1,900.00	1,900.00	1,883.70	1,883.70	6.61	6.55	89.05	54.46	3,296.36	3,296.81	3,283.65	13.15	250.642		
2,000.00	2,000.00	1,983.70	1,983.70	6.96	6.91	89.05	54.46	3,296.36	3,296.81	3,282.94	13.87	237.720		
2,100.00	2,100.00	2,083.70	2,083.70	7.32	7.26	89.05	54.46	3,296.36	3,296.81	3,282.22	14.58	226.062		
2,200.00	2,200.00	2,183.70	2,183.70	7.68	7.62	89.05	54.46	3,296.36	3,296.81	3,281.51	15.30	215.492		
2,300.00	2,300.00	2,283.70	2,283.70	8.04	7.98	89.05	54.46	3,296.36	3,296.81	3,280.79	16.01	205.865		
2,400.00	2,400.00	2,383.70	2,383.70	8.39	8.34	89.05	54.46	3,296.36	3,296.81	3,280.08	16.73	197.059		
2,500.00	2,500.00	2,483.70	2,483.70	8.75	8.69	89.05	54.46	3,296.36	3,296.81	3,279.36	17.45	188.975		
2,600.00	2,600.00	2,583.70	2,583.70	9.11	9.05	89.05	54.46	3,296.36	3,296.81	3,278.64	18.16	181.527		
2,700.00	2,700.00	2,683.70	2,683.70	9.47	9.41	89.05	54.46	3,296.36	3,296.81	3,277.93	18.88	174.643		
2,709.72	2,709.72	2,693.42	2,693.42	9.50	9.44	89.05	54.46	3,296.36	3,296.81	3,277.86	18.95	174.001 CC		
2,800.00	2,800.00	2,775.05	2,775.05	9.83	9.73	89.05	54.42	3,296.39	3,296.85	3,277.29	19.56	168.566 ES		
2,900.00	2,900.00	2,849.36	2,849.36	10.18	9.98	89.07	53.78	3,296.89	3,297.50	3,277.34	20.16	163.553		
3,000.00	3,000.00	2,923.64	2,923.62	10.54	10.22	89.09	52.38	3,297.97	3,298.93	3,278.17	20.76	158.904		
3,100.00	3,100.00	3,000.00	2,999.92	10.90	10.47	89.13	50.15	3,299.70	3,301.15	3,279.78	21.37	154.503		
3,200.00	3,200.00	3,074.81	3,074.64	11.26	10.72	89.18	47.20	3,302.00	3,304.14	3,282.17	21.97	150.414		
3,300.00	3,300.00	3,174.66	3,174.34	11.62	11.05	89.26	42.88	3,305.35	3,307.44	3,284.78	22.66	145.985		
3,400.00	3,400.00	3,274.51	3,274.04	11.97	11.39	89.33	38.56	3,308.71	3,310.75	3,287.40	23.35	141.805		
3,500.00	3,500.00	3,374.36	3,373.74	12.33	11.72	89.41	34.25	3,312.06	3,314.06	3,290.02	24.04	137.855		
3,600.00	3,600.00	3,474.22	3,473.45	12.67	12.06	-127.97	29.93	3,315.42	3,317.92	3,293.20	24.72	134.229		
3,700.00	3,699.96	3,574.07	3,573.15	13.00	12.40	-127.89	25.61	3,318.77	3,322.85	3,297.47	25.38	130.911		
3,737.73	3,737.66	3,611.73	3,610.76	13.13	12.53	-127.86	23.98	3,320.04	3,324.99	3,299.36	25.63	129.710		
3,800.00	3,799.88	3,673.90	3,672.82	13.33	12.74	-127.85	21.29	3,322.12	3,328.65	3,302.60	26.05	127.781		
3,900.00	3,899.79	3,773.72	3,772.49	13.66	13.08	-127.83	16.97	3,325.48	3,334.52	3,307.80	26.72	124.797		
4,000.00	3,999.71	3,873.54	3,872.17	13.99	13.43	-127.82	12.66	3,328.83	3,340.40	3,313.01	27.39	121.947		
4,100.00	4,099.62	3,973.36	3,971.84	14.32	13.77	-127.80	8.34	3,332.19	3,346.27	3,318.20	28.07	119.221		
4,200.00	4,199.53	4,073.18	4,071.51	14.66	14.12	-127.78	4.02	3,335.54	3,352.15	3,323.40	28.75	116.614		
4,300.00	4,299.45	4,173.00	4,171.18	15.00	14.46	-127.76	-0.29	3,338.89	3,358.02	3,328.60	29.43	114.117		
4,400.00	4,399.36	4,272.82	4,270.85	15.33	14.81	-127.74	-4.61	3,342.25	3,363.90	3,333.79	30.11	111.726		
4,500.00	4,499.28	4,372.65	4,370.53	15.67	15.16	-127.73	-8.93	3,345.60	3,369.77	3,338.98	30.79	109.433		
4,600.00	4,599.19	4,472.47	4,470.20	16.01	15.51	-127.71	-13.24	3,348.95	3,375.65	3,344.17	31.48	107.233		
4,700.00	4,699.10	4,572.29	4,569.87	16.35	15.86	-127.69	-17.56	3,352.31	3,381.52	3,349.36	32.17	105.122		
4,800.00	4,799.02	4,672.11	4,669.54	16.69	16.21	-127.67	-21.88	3,355.66	3,387.40	3,354.54	32.86	103.094		
4,900.00	4,898.93	4,771.93	4,769.21	17.04	16.56	-127.65	-26.19	3,359.02	3,393.28	3,359.73	33.55	101.144		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	4,998.85	4,871.75	4,868.88	17.38	16.92	-127.64	-30.51	3,362.37	3,399.16	3,364.91	34.24	99.269		
5,100.00	5,098.76	4,971.58	4,968.56	17.72	17.27	-127.62	-34.83	3,365.72	3,405.03	3,370.10	34.94	97.464		
5,200.00	5,198.67	5,071.40	5,068.23	18.07	17.62	-127.60	-39.14	3,369.08	3,410.91	3,375.28	35.63	95.727		
5,300.00	5,298.59	5,171.22	5,167.90	18.41	17.98	-127.58	-43.46	3,372.43	3,416.79	3,380.46	36.33	94.052		
5,400.00	5,398.50	5,271.04	5,267.57	18.76	18.33	-127.56	-47.78	3,375.78	3,422.67	3,385.64	37.03	92.438		
5,500.00	5,498.42	5,370.86	5,367.24	19.11	18.69	-127.55	-52.09	3,379.14	3,428.55	3,390.82	37.73	90.881		
5,600.00	5,598.33	5,470.68	5,466.92	19.45	19.04	-127.53	-56.41	3,382.49	3,434.43	3,396.00	38.43	89.378		
5,700.00	5,698.24	5,570.51	5,566.59	19.80	19.40	-127.51	-60.73	3,385.85	3,440.30	3,401.18	39.13	87.927		
5,800.00	5,798.16	5,670.33	5,666.26	20.15	19.75	-127.50	-65.05	3,389.20	3,446.18	3,406.36	39.83	86.525		
5,900.00	5,898.07	5,770.15	5,765.93	20.50	20.11	-127.48	-69.36	3,392.55	3,452.06	3,411.53	40.53	85.169		
6,000.00	5,997.98	5,869.97	5,865.60	20.85	20.47	-127.46	-73.68	3,395.91	3,457.94	3,416.71	41.24	83.858		
6,100.00	6,097.90	5,969.79	5,965.27	21.20	20.83	-127.44	-78.00	3,399.26	3,463.83	3,421.89	41.94	82.590		
6,200.00	6,197.81	6,069.61	6,064.95	21.55	21.18	-127.43	-82.31	3,402.61	3,469.71	3,427.06	42.65	81.362		
6,300.00	6,297.73	6,169.44	6,164.62	21.90	21.54	-127.41	-86.63	3,405.97	3,475.59	3,432.24	43.35	80.172		
6,400.00	6,397.64	6,269.26	6,264.29	22.25	21.90	-127.39	-90.95	3,409.32	3,481.47	3,437.41	44.06	79.020		
6,500.00	6,497.55	6,369.08	6,363.96	22.61	22.26	-127.38	-95.26	3,412.68	3,487.35	3,442.59	44.77	77.903		
6,600.00	6,597.47	6,468.90	6,463.63	22.96	22.62	-127.36	-99.58	3,416.03	3,493.23	3,447.76	45.47	76.819		
6,700.00	6,697.38	6,568.72	6,563.31	23.31	22.98	-127.34	-103.90	3,419.38	3,499.12	3,452.93	46.18	75.768		
6,800.00	6,797.30	6,668.54	6,662.98	23.66	23.34	-127.33	-108.21	3,422.74	3,505.00	3,458.11	46.89	74.747		
6,900.00	6,897.21	6,768.36	6,762.65	24.02	23.70	-127.31	-112.53	3,426.09	3,510.88	3,463.28	47.60	73.757		
7,000.00	6,997.12	6,868.19	6,862.32	24.37	24.06	-127.29	-116.85	3,429.44	3,516.77	3,468.45	48.31	72.794		
7,100.00	7,097.04	6,968.01	6,961.99	24.73	24.42	-127.28	-121.16	3,432.80	3,522.65	3,473.63	49.02	71.859		
7,200.00	7,196.95	7,067.83	7,061.66	25.08	24.78	-127.26	-125.48	3,436.15	3,528.53	3,478.80	49.73	70.950		
7,300.00	7,296.87	7,167.65	7,161.34	25.43	25.14	-127.24	-129.80	3,439.51	3,534.42	3,483.97	50.44	70.065		
7,400.00	7,396.78	7,267.47	7,261.01	25.79	25.50	-127.23	-134.12	3,442.86	3,540.30	3,489.15	51.16	69.205		
7,500.00	7,496.69	7,367.29	7,360.68	26.14	25.86	-127.21	-138.43	3,446.21	3,546.19	3,494.32	51.87	68.368		
7,600.00	7,596.61	7,467.12	7,460.35	26.50	26.22	-127.19	-142.75	3,449.57	3,552.07	3,499.49	52.58	67.553		
7,700.00	7,696.52	7,566.94	7,560.02	26.86	26.58	-127.18	-147.07	3,452.92	3,557.96	3,504.66	53.30	66.759		
7,800.00	7,796.44	7,666.76	7,659.69	27.21	26.94	-127.16	-151.38	3,456.27	3,563.84	3,509.83	54.01	65.986		
7,900.00	7,896.35	7,766.58	7,759.37	27.57	27.30	-127.15	-155.70	3,459.63	3,569.73	3,515.01	54.72	65.233		
8,000.00	7,996.26	7,866.40	7,859.04	27.92	27.66	-127.13	-160.02	3,462.98	3,575.62	3,520.18	55.44	64.498		
8,100.00	8,096.18	7,966.22	7,958.71	28.28	28.02	-127.11	-164.33	3,466.34	3,581.50	3,525.35	56.15	63.782		
8,200.00	8,196.09	8,066.05	8,058.38	28.64	28.39	-127.10	-168.65	3,469.69	3,587.39	3,530.52	56.87	63.084		
8,300.00	8,296.01	8,165.87	8,158.05	28.99	28.75	-127.08	-172.97	3,473.04	3,593.28	3,535.69	57.58	62.402		
8,400.00	8,395.92	8,265.69	8,257.73	29.35	29.11	-127.07	-177.28	3,476.40	3,599.16	3,540.87	58.30	61.737		
8,500.00	8,495.83	8,365.51	8,357.40	29.71	29.47	-127.05	-181.60	3,479.75	3,605.05	3,546.04	59.01	61.088		
8,600.00	8,595.75	8,465.33	8,457.07	30.06	29.84	-127.03	-185.92	3,483.10	3,610.94	3,551.21	59.73	60.454		
8,700.00	8,695.66	8,565.15	8,556.74	30.42	30.20	-127.02	-190.23	3,486.46	3,616.83	3,556.38	60.45	59.835		
8,800.00	8,795.58	8,748.43	8,739.86	30.78	30.86	-127.02	-196.07	3,490.99	3,622.04	3,560.56	61.48	58.914		
8,900.00	8,895.49	8,887.77	8,879.19	31.14	31.34	-127.09	-196.54	3,491.36	3,624.69	3,562.37	62.32	58.163		
9,000.00	8,995.40	8,987.68	8,979.10	31.50	31.68	-127.14	-196.54	3,491.36	3,627.20	3,564.18	63.01	57.561		
9,100.00	9,095.32	9,087.60	9,079.02	31.85	32.02	-127.19	-196.54	3,491.36	3,629.70	3,565.99	63.71	56.971		
9,200.00	9,195.23	9,189.16	9,180.57	32.21	32.36	-127.25	-196.06	3,491.35	3,632.21	3,567.80	64.41	56.390		
9,300.00	9,295.14	9,293.69	9,284.04	32.57	32.70	-127.52	-182.29	3,491.25	3,634.61	3,569.50	65.11	55.823		
9,400.00	9,395.06	9,389.18	9,374.97	32.93	32.98	-128.02	-153.48	3,491.03	3,637.10	3,571.34	65.76	55.312		
9,500.00	9,494.97	9,472.30	9,449.29	33.29	33.21	-128.65	-116.41	3,490.75	3,640.09	3,573.74	66.35	54.865		
9,523.61	9,518.56	9,490.01	9,464.38	33.37	33.25	-128.80	-107.14	3,490.68	3,640.92	3,574.44	66.48	54.769		
9,600.00	9,594.91	9,542.82	9,507.58	33.64	33.38	-129.32	-76.80	3,490.45	3,643.56	3,576.68	66.88	54.476		
9,682.09	9,677.00	9,592.65	9,545.62	33.93	33.50	87.60	-44.64	3,490.20	3,646.21	3,578.92	67.28	54.191		
9,700.00	9,694.91	9,602.64	9,552.90	33.99	33.52	87.50	-37.80	3,490.15	3,646.80	3,579.43	67.37	54.134		
9,800.00	9,794.91	9,650.00	9,585.75	34.33	33.62	86.96	-3.70	3,489.89	3,651.12	3,583.33	67.79	53.860		
9,900.00	9,894.91	9,700.00	9,617.25	34.68	33.73	86.35	35.11	3,489.60	3,657.34	3,589.14	68.20	53.628		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,000.00	9,994.91	9,729.67	9,634.30	35.02	33.80	85.97	59.38	3,489.41	3,665.64	3,597.11	68.52	53.494		
10,032.13	10,027.04	9,739.72	9,639.79	35.13	33.82	85.84	67.81	3,489.35	3,668.77	3,600.14	68.63	53.461		
10,050.00	10,044.90	9,750.00	9,645.24	35.19	33.84	85.93	76.51	3,489.28	3,670.60	3,601.90	68.69	53.433		
10,100.00	10,094.75	9,761.09	9,650.96	35.36	33.87	85.26	86.02	3,489.21	3,675.86	3,607.03	68.83	53.407		
10,150.00	10,144.08	9,777.62	9,659.13	35.53	33.90	84.52	100.39	3,489.10	3,681.30	3,612.34	68.97	53.379		
10,200.00	10,192.52	9,800.00	9,669.52	35.68	33.95	83.71	120.20	3,488.95	3,686.86	3,617.75	69.11	53.345		
10,250.00	10,239.69	9,812.29	9,674.90	35.84	33.98	83.01	131.25	3,488.87	3,692.45	3,623.23	69.22	53.344		
10,300.00	10,285.26	9,830.28	9,682.34	35.98	34.02	82.28	147.63	3,488.74	3,698.00	3,628.67	69.33	53.336		
10,350.00	10,328.85	9,850.00	9,689.90	36.12	34.07	81.55	165.84	3,488.60	3,703.45	3,634.00	69.45	53.326		
10,400.00	10,370.15	9,867.29	9,696.01	36.25	34.11	80.87	182.02	3,488.48	3,708.73	3,639.18	69.55	53.325		
10,450.00	10,408.84	9,886.22	9,702.14	36.37	34.15	80.22	199.93	3,488.34	3,713.78	3,644.12	69.65	53.318		
10,500.00	10,444.62	9,900.00	9,706.23	36.49	34.19	79.64	213.08	3,488.24	3,718.54	3,648.80	69.74	53.322		
10,550.00	10,477.22	9,924.74	9,712.77	36.61	34.24	79.04	236.94	3,488.06	3,722.94	3,653.08	69.86	53.293		
10,600.00	10,506.40	9,950.00	9,718.37	36.73	34.30	78.50	261.57	3,487.88	3,726.96	3,656.98	69.98	53.256		
10,650.00	10,531.93	9,963.94	9,721.00	36.85	34.34	78.09	275.26	3,487.77	3,730.52	3,660.44	70.08	53.234		
10,700.00	10,553.61	9,983.73	9,724.16	36.97	34.39	77.70	294.80	3,487.62	3,733.60	3,663.40	70.20	53.188		
10,750.00	10,571.29	10,000.00	9,726.25	37.10	34.43	77.39	310.93	3,487.50	3,736.17	3,665.86	70.31	53.135		
10,800.00	10,584.83	10,023.58	9,728.46	37.22	34.49	77.13	334.40	3,487.32	3,738.19	3,667.73	70.46	53.053		
10,850.00	10,594.12	10,050.00	9,729.79	37.34	34.55	76.94	360.78	3,487.12	3,739.66	3,669.03	70.63	52.950		
10,900.00	10,599.10	10,065.62	9,730.00	37.47	34.59	76.84	376.40	3,487.00	3,740.52	3,669.75	70.77	52.852		
10,932.14	10,600.00	10,107.17	9,730.00	37.55	34.70	76.81	403.61	3,486.80	3,740.71	3,669.75	70.96	52.716		
11,000.00	10,600.00	10,160.70	9,730.00	37.73	34.86	76.81	471.48	3,486.28	3,740.68	3,669.38	71.30	52.466		
11,100.00	10,600.00	10,260.70	9,730.00	38.04	35.20	76.81	571.47	3,485.52	3,740.63	3,668.70	71.94	51.999		
11,200.00	10,600.00	10,360.70	9,730.00	38.41	35.59	76.81	671.47	3,484.76	3,740.59	3,667.91	72.68	51.465		
11,300.00	10,600.00	10,460.70	9,730.00	38.83	36.04	76.81	771.47	3,484.00	3,740.54	3,667.01	73.53	50.870		
11,400.00	10,600.00	10,560.70	9,730.00	39.30	36.54	76.81	871.47	3,483.24	3,740.50	3,666.02	74.48	50.221		
11,500.00	10,600.00	10,660.70	9,730.00	39.81	37.09	76.81	971.46	3,482.48	3,740.46	3,664.93	75.53	49.524		
11,600.00	10,600.00	10,760.70	9,730.00	40.37	37.69	76.81	1,071.46	3,481.72	3,740.41	3,663.74	76.67	48.788		
11,700.00	10,600.00	10,860.70	9,730.00	40.98	38.34	76.81	1,171.46	3,480.96	3,740.37	3,662.47	77.89	48.019		
11,800.00	10,600.00	10,960.70	9,730.00	41.62	39.03	76.81	1,271.45	3,480.20	3,740.32	3,661.12	79.20	47.224		
11,900.00	10,600.00	11,060.70	9,730.00	42.31	39.76	76.81	1,371.45	3,479.44	3,740.28	3,659.68	80.60	46.408		
12,000.00	10,600.00	11,160.70	9,730.00	43.04	40.53	76.81	1,471.45	3,478.68	3,740.23	3,658.17	82.06	45.578		
12,100.00	10,600.00	11,260.70	9,730.00	43.80	41.33	76.81	1,571.45	3,477.92	3,740.19	3,656.58	83.60	44.738		
12,200.00	10,600.00	11,360.70	9,730.00	44.60	42.17	76.81	1,671.44	3,477.16	3,740.14	3,654.93	85.21	43.894		
12,300.00	10,600.00	11,460.70	9,730.00	45.43	43.05	76.81	1,771.44	3,476.40	3,740.10	3,653.22	86.88	43.049		
12,400.00	10,600.00	11,560.70	9,730.00	46.29	43.95	76.81	1,871.44	3,475.64	3,740.05	3,651.44	88.61	42.207		
12,500.00	10,600.00	11,660.70	9,730.00	47.17	44.89	76.81	1,971.43	3,474.88	3,740.01	3,649.61	90.40	41.371		
12,600.00	10,600.00	11,760.70	9,730.00	48.09	45.85	76.81	2,071.43	3,474.12	3,739.96	3,647.72	92.25	40.544		
12,700.00	10,600.00	11,860.70	9,730.00	49.04	46.83	76.80	2,171.43	3,473.37	3,739.92	3,645.78	94.14	39.727		
12,800.00	10,600.00	11,960.70	9,730.00	50.00	47.84	76.80	2,271.43	3,472.61	3,739.87	3,643.79	96.08	38.924		
12,900.00	10,600.00	12,060.70	9,730.00	50.99	48.88	76.80	2,371.42	3,471.85	3,739.83	3,641.76	98.07	38.135		
13,000.00	10,600.00	12,160.70	9,730.00	52.01	49.93	76.80	2,471.42	3,471.09	3,739.78	3,639.69	100.10	37.362		
13,100.00	10,600.00	12,260.70	9,730.00	53.04	51.00	76.80	2,571.42	3,470.33	3,739.74	3,637.57	102.16	36.605		
13,200.00	10,600.00	12,360.70	9,730.00	54.09	52.10	76.80	2,671.41	3,469.57	3,739.69	3,635.42	104.27	35.865		
13,300.00	10,600.00	12,460.70	9,730.00	55.16	53.21	76.80	2,771.41	3,468.81	3,739.65	3,633.24	106.41	35.143		
13,400.00	10,600.00	12,560.70	9,730.00	56.25	54.33	76.80	2,871.41	3,468.05	3,739.60	3,631.02	108.59	34.439		
13,500.00	10,600.00	12,660.70	9,730.00	57.36	55.47	76.80	2,971.41	3,467.29	3,739.56	3,628.77	110.79	33.754		
13,600.00	10,600.00	12,760.70	9,730.00	58.48	56.63	76.80	3,071.40	3,466.53	3,739.51	3,626.49	113.02	33.086		
13,700.00	10,600.00	12,860.70	9,730.00	59.61	57.80	76.80	3,171.40	3,465.77	3,739.47	3,624.18	115.29	32.436		
13,800.00	10,600.00	12,960.70	9,730.00	60.76	58.98	76.80	3,271.40	3,465.01	3,739.43	3,621.85	117.57	31.805		
13,900.00	10,600.00	13,060.70	9,730.00	61.92	60.18	76.80	3,371.39	3,464.25	3,739.38	3,619.49	119.89	31.191		
14,000.00	10,600.00	13,160.70	9,730.00	63.10	61.38	76.80	3,471.39	3,463.49	3,739.34	3,617.11	122.22	30.595		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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
14,100.00	10,600.00	13,260.70	9,730.00	64.28	62.60	76.80	3,571.39	3,462.73	3,739.29	3,614.71	124.58	30.016	
14,200.00	10,600.00	13,360.70	9,730.00	65.48	63.82	76.80	3,671.39	3,461.97	3,739.25	3,612.29	126.96	29.453	
14,300.00	10,600.00	13,460.70	9,730.00	66.68	65.06	76.80	3,771.38	3,461.21	3,739.20	3,609.85	129.35	28.907	
14,400.00	10,600.00	13,560.70	9,730.00	67.90	66.30	76.80	3,871.38	3,460.45	3,739.16	3,607.39	131.77	28.377	
14,500.00	10,600.00	13,660.70	9,730.00	69.13	67.56	76.80	3,971.38	3,459.69	3,739.11	3,604.91	134.20	27.862	
14,600.00	10,600.00	13,760.70	9,730.00	70.36	68.82	76.80	4,071.37	3,458.93	3,739.07	3,602.42	136.65	27.362	
14,700.00	10,600.00	13,860.70	9,730.00	71.60	70.09	76.80	4,171.37	3,458.17	3,739.02	3,599.91	139.12	26.877	
14,800.00	10,600.00	13,960.70	9,730.00	72.85	71.36	76.80	4,271.37	3,457.41	3,738.98	3,597.38	141.60	26.406	
14,900.00	10,600.00	14,060.70	9,730.00	74.11	72.65	76.80	4,371.37	3,456.65	3,738.93	3,594.84	144.09	25.949	
15,000.00	10,600.00	14,160.70	9,730.00	75.38	73.94	76.80	4,471.36	3,455.89	3,738.89	3,592.29	146.60	25.505	
15,100.00	10,600.00	14,260.70	9,730.00	76.65	75.23	76.80	4,571.36	3,455.13	3,738.84	3,589.73	149.12	25.073	
15,200.00	10,600.00	14,360.70	9,730.00	77.93	76.53	76.80	4,671.36	3,454.37	3,738.80	3,587.15	151.65	24.654	
15,300.00	10,600.00	14,460.70	9,730.00	79.21	77.84	76.80	4,771.35	3,453.61	3,738.75	3,584.56	154.19	24.247	
15,400.00	10,600.00	14,560.70	9,730.00	80.50	79.15	76.80	4,871.35	3,452.85	3,738.71	3,581.96	156.75	23.852	
15,500.00	10,600.00	14,660.70	9,730.00	81.80	80.47	76.80	4,971.35	3,452.09	3,738.66	3,579.35	159.31	23.468	
15,575.11	10,600.00	14,735.81	9,730.00	82.77	81.46	76.80	5,046.45	3,451.52	3,738.63	3,577.39	161.24	23.186 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.06	54.63	3,326.36	3,326.85					
100.00	100.00	83.50	83.50	0.52	0.51	89.06	54.63	3,326.36	3,326.81	3,325.78	1.03	3,229.281		
200.00	200.00	183.50	183.50	0.70	0.66	89.06	54.63	3,326.36	3,326.81	3,325.44	1.36	2,438.963		
300.00	300.00	283.50	283.50	0.99	0.94	89.06	54.63	3,326.36	3,326.81	3,324.88	1.92	1,728.977		
400.00	400.00	383.50	383.50	1.31	1.25	89.06	54.63	3,326.36	3,326.81	3,324.24	2.56	1,297.648		
500.00	500.00	483.50	483.50	1.65	1.59	89.06	54.63	3,326.36	3,326.81	3,323.57	3.24	1,028.085		
600.00	600.00	583.50	583.50	1.99	1.93	89.06	54.63	3,326.36	3,326.81	3,322.88	3.92	847.807		
700.00	700.00	683.50	683.50	2.34	2.28	89.06	54.63	3,326.36	3,326.81	3,322.18	4.62	719.950		
800.00	800.00	783.50	783.50	2.69	2.63	89.06	54.63	3,326.36	3,326.81	3,321.48	5.32	624.976		
900.00	900.00	883.50	883.50	3.04	2.99	89.06	54.63	3,326.36	3,326.81	3,320.78	6.03	551.821		
1,000.00	1,000.00	983.50	983.50	3.40	3.34	89.06	54.63	3,326.36	3,326.81	3,320.07	6.74	493.823		
1,100.00	1,100.00	1,083.50	1,083.50	3.75	3.69	89.06	54.63	3,326.36	3,326.81	3,319.36	7.45	446.755		
1,200.00	1,200.00	1,183.50	1,183.50	4.11	4.05	89.06	54.63	3,326.36	3,326.81	3,318.65	8.16	407.816		
1,300.00	1,300.00	1,283.50	1,283.50	4.46	4.41	89.06	54.63	3,326.36	3,326.81	3,317.94	8.87	375.080		
1,400.00	1,400.00	1,383.50	1,383.50	4.82	4.76	89.06	54.63	3,326.36	3,326.81	3,317.22	9.58	347.183		
1,500.00	1,500.00	1,483.50	1,483.50	5.18	5.12	89.06	54.63	3,326.36	3,326.81	3,316.51	10.30	323.129		
1,600.00	1,600.00	1,583.50	1,583.50	5.53	5.48	89.06	54.63	3,326.36	3,326.81	3,315.80	11.01	302.180		
1,700.00	1,700.00	1,683.50	1,683.50	5.89	5.83	89.06	54.63	3,326.36	3,326.81	3,315.08	11.72	283.772		
1,800.00	1,800.00	1,783.50	1,783.50	6.25	6.19	89.06	54.63	3,326.36	3,326.81	3,314.37	12.44	267.471		
1,900.00	1,900.00	1,883.50	1,883.50	6.61	6.55	89.06	54.63	3,326.36	3,326.81	3,313.65	13.15	252.936		
2,000.00	2,000.00	1,983.50	1,983.50	6.96	6.90	89.06	54.63	3,326.36	3,326.81	3,312.94	13.87	239.895		
2,100.00	2,100.00	2,083.50	2,083.50	7.32	7.26	89.06	54.63	3,326.36	3,326.81	3,312.22	14.58	228.131		
2,200.00	2,200.00	2,183.50	2,183.50	7.68	7.62	89.06	54.63	3,326.36	3,326.81	3,311.51	15.30	217.463		
2,300.00	2,300.00	2,283.50	2,283.50	8.04	7.98	89.06	54.63	3,326.36	3,326.81	3,310.79	16.01	207.747		
2,309.87	2,309.87	2,293.37	2,293.37	8.07	8.01	89.06	54.63	3,326.36	3,326.81	3,310.72	16.08	206.835 CC		
2,400.00	2,400.00	2,371.39	2,371.39	8.39	8.29	89.06	54.62	3,326.40	3,326.87	3,310.18	16.68	199.410 ES		
2,500.00	2,500.00	2,435.25	2,435.24	8.75	8.51	89.06	54.50	3,326.98	3,327.77	3,310.52	17.26	192.826		
2,600.00	2,600.00	2,500.00	2,499.98	9.11	8.73	89.07	54.22	3,328.28	3,329.77	3,311.94	17.83	186.743		
2,700.00	2,700.00	2,562.87	2,562.82	9.47	8.94	89.07	53.81	3,330.22	3,332.84	3,314.45	18.40	181.171		
2,800.00	2,800.00	2,626.61	2,626.51	9.83	9.16	89.08	53.24	3,332.89	3,337.01	3,318.04	18.96	175.975		
2,900.00	2,900.00	2,700.00	2,699.78	10.18	9.41	89.10	52.41	3,336.81	3,342.28	3,322.71	19.56	170.844		
3,000.00	3,000.00	2,753.88	2,753.54	10.54	9.59	89.11	51.68	3,340.28	3,348.58	3,328.49	20.09	166.674		
3,100.00	3,100.00	2,817.37	2,816.85	10.90	9.81	89.13	50.68	3,344.99	3,355.99	3,335.34	20.65	162.508		
3,200.00	3,200.00	2,880.74	2,879.99	11.26	10.03	89.15	49.53	3,350.39	3,364.47	3,343.26	21.21	158.631		
3,300.00	3,300.00	2,943.99	2,942.93	11.62	10.25	89.18	48.25	3,356.45	3,374.03	3,352.26	21.77	155.020		
3,400.00	3,400.00	3,000.00	2,998.61	11.97	10.45	89.20	46.99	3,362.39	3,384.67	3,362.38	22.29	151.852		
3,500.00	3,500.00	3,070.03	3,068.14	12.33	10.70	89.23	45.25	3,370.56	3,396.35	3,373.49	22.87	148.519		
3,600.00	3,600.00	3,132.76	3,130.33	12.67	10.92	-128.11	43.55	3,378.58	3,409.65	3,386.25	23.40	145.719		
3,700.00	3,699.96	3,200.00	3,196.89	13.00	11.16	-127.98	41.57	3,387.92	3,425.07	3,401.14	23.93	143.122		
3,737.73	3,737.66	3,218.69	3,215.36	13.13	11.23	-127.92	40.99	3,390.65	3,431.43	3,407.33	24.10	142.363		
3,800.00	3,799.88	3,257.35	3,253.57	13.33	11.37	-127.92	39.75	3,396.49	3,442.39	3,417.97	24.42	140.964		
3,900.00	3,899.79	3,319.25	3,314.63	13.66	11.60	-127.92	37.66	3,406.36	3,460.82	3,435.89	24.93	138.835		
4,000.00	3,999.71	3,380.89	3,375.34	13.99	11.83	-127.92	35.44	3,416.84	3,480.29	3,454.85	25.43	136.842		
4,100.00	4,099.62	3,442.27	3,435.67	14.32	12.06	-127.91	33.09	3,427.90	3,500.78	3,474.84	25.94	134.976		
4,200.00	4,199.53	3,508.90	3,501.01	14.66	12.31	-127.90	30.40	3,440.60	3,522.28	3,495.82	26.46	133.100		
4,300.00	4,299.45	3,606.47	3,596.65	15.00	12.68	-127.88	26.38	3,459.53	3,544.15	3,517.01	27.14	130.597		
4,400.00	4,399.36	3,704.04	3,692.28	15.33	13.06	-127.86	22.36	3,478.47	3,566.02	3,538.20	27.82	128.201		
4,500.00	4,499.28	3,801.62	3,787.92	15.67	13.45	-127.85	18.35	3,497.40	3,587.89	3,559.39	28.50	125.905		
4,600.00	4,599.19	3,900.81	3,883.55	16.01	13.84	-127.83	14.33	3,516.34	3,609.75	3,580.57	29.19	123.681		
4,700.00	4,699.10	4,003.23	3,979.19	16.35	14.25	-127.81	10.31	3,535.27	3,631.62	3,601.73	29.89	121.500		
4,800.00	4,799.02	4,105.66	4,074.82	16.69	14.67	-127.80	6.30	3,554.21	3,653.49	3,622.90	30.60	119.409		
4,900.00	4,898.93	4,208.08	4,170.46	17.04	15.09	-127.78	2.28	3,573.14	3,675.36	3,644.06	31.31	117.404		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	4,998.85	4,289.49	4,266.10	17.38	15.42	-127.77	-1.73	3,592.08	3,697.23	3,665.29	31.94	115.759		
5,100.00	5,098.76	4,387.06	4,361.73	17.72	15.83	-127.75	-5.75	3,611.01	3,719.10	3,686.47	32.63	113.963		
5,200.00	5,198.67	4,484.64	4,457.37	18.07	16.23	-127.73	-9.77	3,629.95	3,740.97	3,707.64	33.33	112.237		
5,300.00	5,298.59	4,582.21	4,553.00	18.41	16.64	-127.72	-13.78	3,648.88	3,762.85	3,728.82	34.03	110.575		
5,400.00	5,398.50	4,679.79	4,648.64	18.76	17.05	-127.70	-17.80	3,667.81	3,784.72	3,749.99	34.73	108.976		
5,500.00	5,498.42	4,777.36	4,744.27	19.11	17.46	-127.69	-21.82	3,686.75	3,806.59	3,771.16	35.43	107.435		
5,600.00	5,598.33	4,874.94	4,839.91	19.45	17.88	-127.68	-25.83	3,705.68	3,828.46	3,792.32	36.13	105.949		
5,700.00	5,698.24	4,972.51	4,935.54	19.80	18.29	-127.66	-29.85	3,724.62	3,850.33	3,813.49	36.84	104.516		
5,800.00	5,798.16	5,070.08	5,031.18	20.15	18.71	-127.65	-33.87	3,743.55	3,872.20	3,834.66	37.55	103.134		
5,900.00	5,898.07	5,167.66	5,126.81	20.50	19.13	-127.63	-37.88	3,762.49	3,894.08	3,855.82	38.25	101.799		
6,000.00	5,997.98	5,265.23	5,222.45	20.85	19.55	-127.62	-41.90	3,781.42	3,915.95	3,876.99	38.96	100.510		
6,100.00	6,097.90	5,362.81	5,318.08	21.20	19.97	-127.60	-45.92	3,800.36	3,937.82	3,898.15	39.67	99.264		
6,200.00	6,197.81	5,460.38	5,413.72	21.55	20.39	-127.59	-49.93	3,819.29	3,959.69	3,919.31	40.38	98.059		
6,300.00	6,297.73	5,557.95	5,509.35	21.90	20.82	-127.58	-53.95	3,838.23	3,981.57	3,940.48	41.09	96.893		
6,400.00	6,397.64	5,655.53	5,604.99	22.25	21.24	-127.56	-57.96	3,857.16	4,003.44	3,961.64	41.80	95.765		
6,500.00	6,497.55	5,753.10	5,700.62	22.61	21.67	-127.55	-61.98	3,876.09	4,025.31	3,982.80	42.52	94.673		
6,600.00	6,597.47	5,850.68	5,796.26	22.96	22.10	-127.54	-66.00	3,895.03	4,047.19	4,003.96	43.23	93.615		
6,700.00	6,697.38	5,948.25	5,891.89	23.31	22.52	-127.52	-70.01	3,913.96	4,069.06	4,025.12	43.95	92.590		
6,800.00	6,797.30	6,045.83	5,987.53	23.66	22.95	-127.51	-74.03	3,932.90	4,090.94	4,046.27	44.66	91.596		
6,900.00	6,897.21	6,143.40	6,083.16	24.02	23.38	-127.50	-78.05	3,951.83	4,112.81	4,067.43	45.38	90.632		
7,000.00	6,997.12	6,240.97	6,178.80	24.37	23.81	-127.49	-82.06	3,970.77	4,134.69	4,088.59	46.10	89.696		
7,100.00	7,097.04	6,338.55	6,274.43	24.73	24.24	-127.47	-86.08	3,989.70	4,156.56	4,109.75	46.81	88.788		
7,200.00	7,196.95	6,436.12	6,370.07	25.08	24.67	-127.46	-90.10	4,008.64	4,178.44	4,130.90	47.53	87.906		
7,300.00	7,296.87	6,533.70	6,465.70	25.43	25.11	-127.45	-94.11	4,027.57	4,200.31	4,152.06	48.25	87.049		
7,400.00	7,396.78	6,631.27	6,561.34	25.79	25.54	-127.44	-98.13	4,046.51	4,222.19	4,173.21	48.97	86.216		
7,500.00	7,496.69	6,728.84	6,656.97	26.14	25.97	-127.43	-102.15	4,065.44	4,244.06	4,194.37	49.69	85.406		
7,600.00	7,596.61	6,826.42	6,752.61	26.50	26.41	-127.41	-106.16	4,084.37	4,265.94	4,215.52	50.41	84.619		
7,700.00	7,696.52	6,923.99	6,848.24	26.86	26.84	-127.40	-110.18	4,103.31	4,287.81	4,236.68	51.14	83.852		
7,800.00	7,796.44	7,021.57	6,943.88	27.21	27.28	-127.39	-114.19	4,122.24	4,309.69	4,257.83	51.86	83.107		
7,900.00	7,896.35	7,119.14	7,039.51	27.57	27.71	-127.38	-118.21	4,141.18	4,331.57	4,278.99	52.58	82.381		
8,000.00	7,996.26	7,216.72	7,135.15	27.92	28.15	-127.37	-122.23	4,160.11	4,353.44	4,300.14	53.30	81.674		
8,100.00	8,096.18	7,314.29	7,230.78	28.28	28.58	-127.36	-126.24	4,179.05	4,375.32	4,321.29	54.03	80.985		
8,200.00	8,196.09	7,411.86	7,326.42	28.64	29.02	-127.35	-130.26	4,197.98	4,397.19	4,342.44	54.75	80.313		
8,300.00	8,296.01	7,509.44	7,422.05	28.99	29.46	-127.33	-134.28	4,216.92	4,419.07	4,363.60	55.47	79.659		
8,400.00	8,395.92	7,607.01	7,517.69	29.35	29.89	-127.32	-138.29	4,235.85	4,440.95	4,384.75	56.20	79.021		
8,500.00	8,495.83	7,704.59	7,613.32	29.71	30.33	-127.31	-142.31	4,254.79	4,462.83	4,405.90	56.93	78.398		
8,600.00	8,595.75	7,802.16	7,708.96	30.06	30.77	-127.30	-146.33	4,273.72	4,484.70	4,427.05	57.65	77.791		
8,700.00	8,695.66	7,900.27	7,804.59	30.42	31.21	-127.29	-150.34	4,292.66	4,506.58	4,448.20	58.38	77.195		
8,800.00	8,795.58	7,997.31	7,900.23	30.78	31.65	-127.28	-154.36	4,311.59	4,528.46	4,469.35	59.10	76.619		
8,900.00	8,895.49	8,984.15	8,878.99	31.14	35.45	-127.41	-176.37	4,415.36	4,548.62	4,485.21	63.41	71.732		
9,000.00	8,995.40	9,084.06	8,978.90	31.50	35.76	-127.46	-176.37	4,415.36	4,551.14	4,487.04	64.10	71.001		
9,100.00	9,095.32	9,183.98	9,078.82	31.85	36.07	-127.50	-176.37	4,415.36	4,553.67	4,488.88	64.79	70.285		
9,200.00	9,195.23	9,284.97	9,179.80	32.21	36.38	-127.55	-175.92	4,415.35	4,556.19	4,490.71	65.48	69.581		
9,300.00	9,295.14	9,387.11	9,280.96	32.57	36.69	-127.75	-162.81	4,415.25	4,558.68	4,492.51	66.16	68.899		
9,400.00	9,395.06	9,480.79	9,370.36	32.93	36.93	-128.14	-135.18	4,415.04	4,561.27	4,494.45	66.81	68.272		
9,500.00	9,494.97	9,562.77	9,444.01	33.29	37.12	-128.62	-99.33	4,414.77	4,564.28	4,496.87	67.41	67.706		
9,523.61	9,518.56	9,580.30	9,459.05	33.37	37.16	-128.73	-90.32	4,414.70	4,565.09	4,497.54	67.55	67.582		
9,600.00	9,594.91	9,632.71	9,502.26	33.64	37.26	-129.15	-60.69	4,414.48	4,567.59	4,499.61	67.98	67.195		
9,682.09	9,677.00	9,682.36	9,540.54	33.93	37.33	87.89	-29.10	4,414.24	4,569.90	4,501.49	68.40	66.807		
9,700.00	9,694.91	9,692.33	9,547.89	33.99	37.35	87.81	-22.36	4,414.18	4,570.39	4,501.89	68.49	66.727		
9,800.00	9,794.91	9,742.53	9,583.05	34.33	37.41	87.36	13.44	4,413.91	4,573.93	4,504.96	68.97	66.313		
9,900.00	9,894.91	9,784.56	9,609.98	34.68	37.46	86.96	45.69	4,413.67	4,578.99	4,509.56	69.42	65.957		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,000.00	9,994.91	9,819.90	9,630.75	35.02	37.49	86.60	74.28	4,413.45	4,585.70	4,515.86	69.84	65.658		
10,032.13	10,027.04	9,830.05	9,636.39	35.13	37.50	86.49	82.72	4,413.39	4,588.23	4,518.26	69.97	65.574		
10,050.00	10,044.90	9,835.60	9,639.40	35.19	37.50	86.70	87.38	4,413.35	4,589.70	4,519.66	70.04	65.529		
10,100.00	10,094.75	9,850.00	9,647.02	35.36	37.51	86.13	99.60	4,413.26	4,593.94	4,523.71	70.23	65.414		
10,150.00	10,144.08	9,868.25	9,656.23	35.53	37.52	85.51	115.36	4,413.14	4,598.31	4,527.89	70.42	65.302		
10,200.00	10,192.52	9,885.45	9,664.45	35.68	37.53	84.91	130.46	4,413.02	4,602.76	4,532.17	70.59	65.202		
10,250.00	10,239.69	9,900.00	9,671.04	35.84	37.54	84.34	143.43	4,412.92	4,607.24	4,536.48	70.75	65.117		
10,300.00	10,285.26	9,921.18	9,680.05	35.98	37.54	83.72	162.60	4,412.78	4,611.67	4,540.75	70.92	65.025		
10,350.00	10,328.85	9,950.00	9,691.15	36.12	37.55	83.07	189.19	4,412.57	4,616.04	4,544.94	71.10	64.920		
10,400.00	10,370.15	9,950.00	9,691.15	36.25	37.55	82.66	189.19	4,412.57	4,620.24	4,549.04	71.20	64.889		
10,450.00	10,408.84	9,977.30	9,700.42	36.37	37.56	82.08	214.86	4,412.38	4,624.23	4,552.86	71.37	64.793		
10,500.00	10,444.62	10,000.00	9,707.19	36.49	37.56	81.58	236.53	4,412.21	4,628.00	4,556.48	71.52	64.709		
10,550.00	10,477.22	10,015.90	9,711.42	36.61	37.56	81.15	251.86	4,412.10	4,631.48	4,559.83	71.65	64.639		
10,600.00	10,506.40	10,035.47	9,716.04	36.73	37.57	80.75	270.87	4,411.95	4,634.64	4,562.85	71.79	64.556		
10,650.00	10,531.93	10,050.00	9,719.05	36.85	37.57	80.41	285.09	4,411.85	4,637.44	4,565.52	71.92	64.479		
10,700.00	10,553.61	10,074.99	9,723.37	36.97	37.57	80.09	309.69	4,411.66	4,639.84	4,567.76	72.08	64.370		
10,750.00	10,571.29	10,100.00	9,726.63	37.10	37.57	79.83	334.49	4,411.47	4,641.83	4,569.58	72.25	64.250		
10,800.00	10,584.83	10,114.87	9,728.05	37.22	37.58	79.64	349.30	4,411.36	4,643.37	4,570.98	72.39	64.143		
10,850.00	10,594.12	10,134.91	9,729.35	37.34	37.58	79.51	369.28	4,411.20	4,644.45	4,571.90	72.55	64.015		
10,900.00	10,599.10	10,154.97	9,729.95	37.47	37.58	79.43	389.34	4,411.05	4,645.07	4,572.34	72.72	63.875		
10,932.14	10,600.00	10,176.32	9,730.00	37.55	37.59	79.41	410.69	4,410.89	4,645.19	4,572.34	72.86	63.759		
11,000.00	10,600.00	10,244.19	9,730.00	37.73	37.62	79.41	478.55	4,410.37	4,645.16	4,571.93	73.23	63.432		
11,100.00	10,600.00	10,344.19	9,730.00	38.04	37.71	79.41	578.55	4,409.61	4,645.12	4,571.25	73.87	62.885		
11,200.00	10,600.00	10,444.19	9,730.00	38.41	37.88	79.41	678.55	4,408.85	4,645.07	4,570.46	74.61	62.259		
11,300.00	10,600.00	10,544.19	9,730.00	38.83	38.14	79.41	778.54	4,408.09	4,645.02	4,569.57	75.45	61.562		
11,400.00	10,600.00	10,644.19	9,730.00	39.30	38.49	79.41	878.54	4,407.33	4,644.98	4,568.58	76.40	60.802		
11,500.00	10,600.00	10,744.19	9,730.00	39.81	38.92	79.41	978.54	4,406.57	4,644.93	4,567.50	77.43	59.986		
11,600.00	10,600.00	10,844.19	9,730.00	40.37	39.43	79.41	1,078.54	4,405.81	4,644.88	4,566.32	78.56	59.122		
11,700.00	10,600.00	10,944.19	9,730.00	40.98	40.01	79.41	1,178.53	4,405.05	4,644.84	4,565.06	79.78	58.218		
11,800.00	10,600.00	11,044.19	9,730.00	41.62	40.63	79.41	1,278.53	4,404.29	4,644.79	4,563.71	81.08	57.283		
11,900.00	10,600.00	11,144.19	9,730.00	42.31	41.31	79.41	1,378.53	4,403.52	4,644.75	4,562.28	82.47	56.322		
12,000.00	10,600.00	11,244.19	9,730.00	43.04	42.03	79.41	1,478.52	4,402.76	4,644.70	4,560.77	83.92	55.343		
12,100.00	10,600.00	11,344.19	9,730.00	43.80	42.79	79.41	1,578.52	4,402.00	4,644.65	4,559.20	85.45	54.352		
12,200.00	10,600.00	11,444.19	9,730.00	44.60	43.58	79.41	1,678.52	4,401.24	4,644.61	4,557.55	87.05	53.354		
12,300.00	10,600.00	11,544.19	9,730.00	45.43	44.41	79.41	1,778.52	4,400.48	4,644.56	4,555.84	88.72	52.353		
12,400.00	10,600.00	11,644.19	9,730.00	46.29	45.28	79.41	1,878.51	4,399.72	4,644.51	4,554.07	90.44	51.355		
12,500.00	10,600.00	11,744.19	9,730.00	47.17	46.17	79.41	1,978.51	4,398.96	4,644.47	4,552.25	92.22	50.362		
12,600.00	10,600.00	11,844.19	9,730.00	48.09	47.09	79.41	2,078.51	4,398.20	4,644.42	4,550.36	94.06	49.379		
12,700.00	10,600.00	11,944.19	9,730.00	49.04	48.04	79.41	2,178.50	4,397.44	4,644.37	4,548.43	95.94	48.407		
12,800.00	10,600.00	12,044.19	9,730.00	50.00	49.02	79.41	2,278.50	4,396.68	4,644.33	4,546.45	97.88	47.450		
12,900.00	10,600.00	12,144.19	9,730.00	50.99	50.01	79.41	2,378.50	4,395.91	4,644.28	4,544.42	99.86	46.508		
13,000.00	10,600.00	12,244.19	9,730.00	52.01	51.03	79.41	2,478.50	4,395.15	4,644.24	4,542.35	101.88	45.584		
13,100.00	10,600.00	12,344.19	9,730.00	53.04	52.07	79.41	2,578.49	4,394.39	4,644.19	4,540.24	103.95	44.678		
13,200.00	10,600.00	12,444.19	9,730.00	54.09	53.13	79.41	2,678.49	4,393.63	4,644.14	4,538.09	106.05	43.793		
13,300.00	10,600.00	12,544.19	9,730.00	55.16	54.21	79.41	2,778.49	4,392.87	4,644.10	4,535.91	108.19	42.927		
13,400.00	10,600.00	12,644.19	9,730.00	56.25	55.30	79.41	2,878.48	4,392.11	4,644.05	4,533.69	110.36	42.082		
13,500.00	10,600.00	12,744.19	9,730.00	57.36	56.41	79.41	2,978.48	4,391.35	4,644.00	4,531.44	112.56	41.258		
13,600.00	10,600.00	12,844.19	9,730.00	58.48	57.54	79.41	3,078.48	4,390.59	4,643.96	4,529.17	114.79	40.455		
13,700.00	10,600.00	12,944.19	9,730.00	59.61	58.68	79.41	3,178.48	4,389.83	4,643.91	4,526.86	117.05	39.674		
13,800.00	10,600.00	13,044.19	9,730.00	60.76	59.84	79.41	3,278.47	4,389.07	4,643.86	4,524.52	119.34	38.913		
13,900.00	10,600.00	13,144.19	9,730.00	61.92	61.00	79.41	3,378.47	4,388.31	4,643.82	4,522.17	121.65	38.173		
14,000.00	10,600.00	13,244.19	9,730.00	63.10	62.18	79.41	3,478.47	4,387.54	4,643.77	4,519.78	123.99	37.453		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	10,600.00	13,344.19	9,730.00	64.28	63.37	79.41	3,578.46	4,386.78	4,643.73	4,517.38	126.35	36.754	
14,200.00	10,600.00	13,444.19	9,730.00	65.48	64.57	79.41	3,678.46	4,386.02	4,643.68	4,514.95	128.73	36.074	
14,300.00	10,600.00	13,544.19	9,730.00	66.68	65.79	79.41	3,778.46	4,385.26	4,643.63	4,512.51	131.13	35.413	
14,400.00	10,600.00	13,644.19	9,730.00	67.90	67.01	79.41	3,878.45	4,384.50	4,643.59	4,510.04	133.54	34.772	
14,500.00	10,600.00	13,744.19	9,730.00	69.13	68.24	79.41	3,978.45	4,383.74	4,643.54	4,507.56	135.98	34.149	
14,600.00	10,600.00	13,844.19	9,730.00	70.36	69.48	79.41	4,078.45	4,382.98	4,643.49	4,505.06	138.43	33.543	
14,700.00	10,600.00	13,944.19	9,730.00	71.60	70.72	79.41	4,178.45	4,382.22	4,643.45	4,502.54	140.90	32.955	
14,800.00	10,600.00	14,044.19	9,730.00	72.85	71.98	79.41	4,278.44	4,381.46	4,643.40	4,500.01	143.39	32.384	
14,900.00	10,600.00	14,144.19	9,730.00	74.11	73.24	79.41	4,378.44	4,380.70	4,643.35	4,497.47	145.89	31.828	
15,000.00	10,600.00	14,244.19	9,730.00	75.38	74.51	79.41	4,478.44	4,379.93	4,643.31	4,494.91	148.40	31.289	
15,100.00	10,600.00	14,344.19	9,730.00	76.65	75.79	79.41	4,578.43	4,379.17	4,643.26	4,492.34	150.93	30.765	
15,200.00	10,600.00	14,444.19	9,730.00	77.93	77.07	79.41	4,678.43	4,378.41	4,643.22	4,489.75	153.46	30.256	
15,300.00	10,600.00	14,544.19	9,730.00	79.21	78.36	79.41	4,778.43	4,377.65	4,643.17	4,487.16	156.01	29.761	
15,400.00	10,600.00	14,644.19	9,730.00	80.50	79.65	79.41	4,878.43	4,376.89	4,643.12	4,484.55	158.57	29.280	
15,500.00	10,600.00	14,744.19	9,730.00	81.80	80.95	79.41	4,978.42	4,376.13	4,643.08	4,481.93	161.15	28.813	
15,575.11	10,600.00	14,819.30	9,730.00	82.77	81.93	79.41	5,053.53	4,375.56	4,643.04	4,479.96	163.08	28.470 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.05	54.29	3,266.36	3,266.85					
100.00	100.00	83.80	83.80	0.52	0.51	89.05	54.29	3,266.36	3,266.81	3,265.78	1.03	3,170.770		
200.00	200.00	183.80	183.80	0.70	0.66	89.05	54.29	3,266.36	3,266.81	3,265.44	1.36	2,393.740		
300.00	300.00	283.80	283.80	0.99	0.94	89.05	54.29	3,266.36	3,266.81	3,264.88	1.93	1,696.993		
400.00	400.00	383.80	383.80	1.31	1.26	89.05	54.29	3,266.36	3,266.81	3,264.24	2.56	1,273.755		
500.00	500.00	483.80	483.80	1.65	1.59	89.05	54.29	3,266.36	3,266.81	3,263.57	3.24	1,009.225		
600.00	600.00	583.80	583.80	1.99	1.93	89.05	54.29	3,266.36	3,266.81	3,262.88	3.93	832.297		
700.00	700.00	683.80	683.80	2.34	2.28	89.05	54.29	3,266.36	3,266.81	3,262.19	4.62	706.805		
800.00	800.00	783.80	783.80	2.69	2.63	89.05	54.29	3,266.36	3,266.81	3,261.48	5.32	613.583		
900.00	900.00	883.80	883.80	3.04	2.99	89.05	54.29	3,266.36	3,266.81	3,260.78	6.03	541.774		
1,000.00	1,000.00	983.80	983.80	3.40	3.34	89.05	54.29	3,266.36	3,266.81	3,260.07	6.74	484.841		
1,100.00	1,100.00	1,083.80	1,083.80	3.75	3.70	89.05	54.29	3,266.36	3,266.81	3,259.36	7.45	438.636		
1,200.00	1,200.00	1,183.80	1,183.80	4.11	4.05	89.05	54.29	3,266.36	3,266.81	3,258.65	8.16	400.409		
1,300.00	1,300.00	1,283.80	1,283.80	4.46	4.41	89.05	54.29	3,266.36	3,266.81	3,257.94	8.87	368.272		
1,400.00	1,400.00	1,383.80	1,383.80	4.82	4.76	89.05	54.29	3,266.36	3,266.81	3,257.22	9.58	340.883		
1,500.00	1,500.00	1,483.80	1,483.80	5.18	5.12	89.05	54.29	3,266.36	3,266.81	3,256.51	10.30	317.269		
1,600.00	1,600.00	1,583.80	1,583.80	5.53	5.48	89.05	54.29	3,266.36	3,266.81	3,255.80	11.01	296.701		
1,700.00	1,700.00	1,683.80	1,683.80	5.89	5.83	89.05	54.29	3,266.36	3,266.81	3,255.08	11.72	278.629		
1,800.00	1,800.00	1,783.80	1,783.80	6.25	6.19	89.05	54.29	3,266.36	3,266.81	3,254.37	12.44	262.625		
1,900.00	1,900.00	1,883.80	1,883.80	6.61	6.55	89.05	54.29	3,266.36	3,266.81	3,253.65	13.15	248.354		
2,000.00	2,000.00	1,983.80	1,983.80	6.96	6.91	89.05	54.29	3,266.36	3,266.81	3,252.94	13.87	235.551		
2,100.00	2,100.00	2,083.80	2,083.80	7.32	7.26	89.05	54.29	3,266.36	3,266.81	3,252.22	14.58	224.000		
2,200.00	2,200.00	2,183.80	2,183.80	7.68	7.62	89.05	54.29	3,266.36	3,266.81	3,251.51	15.30	213.527		
2,300.00	2,300.00	2,283.80	2,283.80	8.04	7.98	89.05	54.29	3,266.36	3,266.81	3,250.79	16.01	203.987		
2,400.00	2,400.00	2,383.80	2,383.80	8.39	8.34	89.05	54.29	3,266.36	3,266.81	3,250.08	16.73	195.262		
2,500.00	2,500.00	2,483.80	2,483.80	8.75	8.69	89.05	54.29	3,266.36	3,266.81	3,249.36	17.45	187.251		
2,600.00	2,600.00	2,583.80	2,583.80	9.11	9.05	89.05	54.29	3,266.36	3,266.81	3,248.65	18.16	179.871		
2,700.00	2,700.00	2,683.80	2,683.80	9.47	9.41	89.05	54.29	3,266.36	3,266.81	3,247.93	18.88	173.050		
2,800.00	2,800.00	2,783.80	2,783.80	9.83	9.77	89.05	54.29	3,266.36	3,266.81	3,247.21	19.59	166.727		
2,900.00	2,900.00	2,883.80	2,883.80	10.18	10.13	89.05	54.29	3,266.36	3,266.81	3,246.50	20.31	160.849		
3,000.00	3,000.00	2,983.80	2,983.80	10.54	10.48	89.05	54.29	3,266.36	3,266.81	3,245.78	21.03	155.370		
3,100.00	3,100.00	3,083.80	3,083.80	10.90	10.84	89.05	54.29	3,266.36	3,266.81	3,245.07	21.74	150.253		
3,200.00	3,200.00	3,183.80	3,183.80	11.26	11.20	89.05	54.29	3,266.36	3,266.81	3,244.35	22.46	145.461		
3,300.00	3,300.00	3,283.80	3,283.80	11.62	11.56	89.05	54.29	3,266.36	3,266.81	3,243.63	23.17	140.965		
3,400.00	3,400.00	3,383.80	3,383.80	11.97	11.92	89.05	54.29	3,266.36	3,266.81	3,242.92	23.89	136.739		
3,500.00	3,500.00	3,483.80	3,483.80	12.33	12.27	89.05	54.29	3,266.36	3,266.81	3,242.20	24.61	132.758 CC		
3,600.00	3,600.00	3,583.80	3,583.80	12.67	12.63	-128.43	54.29	3,266.36	3,267.35	3,242.04	25.31	129.109		
3,700.00	3,699.96	3,683.76	3,683.76	13.00	12.99	-128.45	54.29	3,266.36	3,268.98	3,242.99	25.99	125.773		
3,737.73	3,737.66	3,721.46	3,721.46	13.13	13.13	-128.47	54.29	3,266.36	3,269.87	3,243.62	26.25	124.569		
3,800.00	3,799.88	3,783.68	3,783.68	13.33	13.35	-128.50	54.29	3,266.36	3,271.48	3,244.81	26.68	122.635		
3,900.00	3,899.79	3,883.59	3,883.59	13.66	13.71	-128.56	54.29	3,266.36	3,274.07	3,246.70	27.36	119.650		
4,000.00	3,999.71	3,983.51	3,983.51	13.99	14.06	-128.61	54.29	3,266.36	3,276.66	3,248.60	28.05	116.805		
4,100.00	4,099.62	4,091.49	4,091.48	14.32	14.43	-128.66	53.57	3,266.26	3,279.15	3,250.39	28.75	114.039		
4,200.00	4,199.53	4,201.13	4,201.09	14.66	14.79	-128.68	50.79	3,265.89	3,281.35	3,251.90	29.44	111.447		
4,300.00	4,299.45	4,304.88	4,304.75	15.00	15.13	-128.66	46.57	3,265.32	3,283.30	3,253.19	30.11	109.030		
4,400.00	4,399.36	4,404.86	4,404.64	15.33	15.45	-128.65	42.36	3,264.76	3,285.24	3,254.47	30.78	106.748		
4,500.00	4,499.28	4,504.83	4,504.52	15.67	15.78	-128.63	38.14	3,264.19	3,287.18	3,255.74	31.44	104.553		
4,600.00	4,599.19	4,604.81	4,604.41	16.01	16.11	-128.61	33.93	3,263.62	3,289.12	3,257.01	32.11	102.441		
4,700.00	4,699.10	4,704.78	4,704.29	16.35	16.44	-128.60	29.71	3,263.06	3,291.06	3,258.28	32.78	100.407		
4,800.00	4,799.02	4,804.76	4,804.18	16.69	16.77	-128.58	25.50	3,262.49	3,293.00	3,259.55	33.45	98.447		
4,900.00	4,898.93	4,904.74	4,904.07	17.04	17.10	-128.56	21.28	3,261.93	3,294.94	3,260.81	34.12	96.558		
5,000.00	4,998.85	5,004.71	5,003.95	17.38	17.44	-128.54	17.07	3,261.36	3,296.88	3,262.07	34.80	94.736		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	5,104.69	5,103.84	17.72	17.77	-128.53	12.85	3,260.80	3,298.82	3,263.34	35.48	92.979		
5,200.00	5,198.67	5,204.67	5,203.72	18.07	18.11	-128.51	8.64	3,260.23	3,300.76	3,264.60	36.16	91.283		
5,300.00	5,298.59	5,304.64	5,303.61	18.41	18.44	-128.49	4.42	3,259.66	3,302.70	3,265.85	36.84	89.645		
5,400.00	5,398.50	5,404.62	5,403.50	18.76	18.78	-128.48	0.21	3,259.10	3,304.64	3,267.11	37.53	88.063		
5,500.00	5,498.42	5,504.60	5,503.38	19.11	19.12	-128.46	-4.01	3,258.53	3,306.58	3,268.37	38.21	86.534		
5,600.00	5,598.33	5,604.57	5,603.27	19.45	19.46	-128.45	-8.22	3,257.97	3,308.52	3,269.62	38.90	85.056		
5,700.00	5,698.24	5,704.55	5,703.15	19.80	19.80	-128.43	-12.44	3,257.40	3,310.46	3,270.87	39.59	83.626		
5,800.00	5,798.16	5,804.53	5,803.04	20.15	20.15	-128.41	-16.65	3,256.84	3,312.40	3,272.12	40.28	82.242		
5,900.00	5,898.07	5,904.50	5,902.93	20.50	20.49	-128.40	-20.87	3,256.27	3,314.34	3,273.38	40.97	80.902		
6,000.00	5,997.98	6,004.48	6,002.81	20.85	20.83	-128.38	-25.09	3,255.70	3,316.29	3,274.63	41.66	79.604		
6,100.00	6,097.90	6,104.46	6,102.70	21.20	21.18	-128.36	-29.30	3,255.14	3,318.23	3,275.87	42.35	78.347		
6,200.00	6,197.81	6,204.43	6,202.59	21.55	21.52	-128.35	-33.52	3,254.57	3,320.17	3,277.12	43.05	77.128		
6,300.00	6,297.73	6,304.41	6,302.47	21.90	21.87	-128.33	-37.73	3,254.01	3,322.11	3,278.37	43.74	75.946		
6,400.00	6,397.64	6,404.39	6,402.36	22.25	22.21	-128.31	-41.95	3,253.44	3,324.06	3,279.62	44.44	74.799		
6,500.00	6,497.55	6,504.36	6,502.24	22.61	22.56	-128.30	-46.16	3,252.88	3,326.00	3,280.86	45.14	73.686		
6,600.00	6,597.47	6,604.34	6,602.13	22.96	22.91	-128.28	-50.38	3,252.31	3,327.94	3,282.11	45.84	72.606		
6,700.00	6,697.38	6,704.32	6,702.02	23.31	23.25	-128.26	-54.59	3,251.74	3,329.89	3,283.35	46.54	71.556		
6,800.00	6,797.30	6,804.29	6,801.90	23.66	23.60	-128.25	-58.81	3,251.18	3,331.83	3,284.60	47.24	70.537		
6,900.00	6,897.21	6,904.27	6,901.79	24.02	23.95	-128.23	-63.02	3,250.61	3,333.78	3,285.84	47.94	69.546		
7,000.00	6,997.12	7,004.25	7,001.67	24.37	24.30	-128.21	-67.24	3,250.05	3,335.72	3,287.08	48.64	68.582		
7,100.00	7,097.04	7,104.22	7,101.56	24.73	24.65	-128.20	-71.45	3,249.48	3,337.67	3,288.33	49.34	67.645		
7,200.00	7,196.95	7,204.20	7,201.45	25.08	25.00	-128.18	-75.67	3,248.92	3,339.61	3,289.57	50.04	66.734		
7,300.00	7,296.87	7,304.18	7,301.33	25.43	25.35	-128.17	-79.88	3,248.35	3,341.56	3,290.81	50.75	65.847		
7,400.00	7,396.78	7,404.15	7,401.22	25.79	25.70	-128.15	-84.10	3,247.78	3,343.51	3,292.05	51.45	64.983		
7,500.00	7,496.69	7,504.13	7,501.10	26.14	26.05	-128.13	-88.31	3,247.22	3,345.45	3,293.29	52.16	64.142		
7,600.00	7,596.61	7,604.11	7,600.99	26.50	26.40	-128.12	-92.53	3,246.65	3,347.40	3,294.54	52.86	63.322		
7,700.00	7,696.52	7,704.08	7,700.88	26.86	26.76	-128.10	-96.75	3,246.09	3,349.35	3,295.78	53.57	62.524		
7,800.00	7,796.44	7,804.06	7,800.76	27.21	27.11	-128.08	-100.96	3,245.52	3,351.29	3,297.02	54.28	61.745		
7,900.00	7,896.35	7,904.04	7,900.65	27.57	27.46	-128.07	-105.18	3,244.96	3,353.24	3,298.26	54.98	60.986		
8,000.00	7,996.26	8,004.01	8,000.53	27.92	27.81	-128.05	-109.39	3,244.39	3,355.19	3,299.50	55.69	60.246		
8,100.00	8,096.18	8,103.99	8,100.42	28.28	28.17	-128.04	-113.61	3,243.82	3,357.14	3,300.74	56.40	59.524		
8,200.00	8,196.09	8,203.96	8,200.31	28.64	28.52	-128.02	-117.82	3,243.26	3,359.08	3,301.98	57.11	58.819		
8,300.00	8,296.01	8,303.94	8,300.19	28.99	28.87	-128.00	-122.04	3,242.69	3,361.03	3,303.21	57.82	58.131		
8,400.00	8,395.92	8,403.92	8,400.08	29.35	29.23	-127.99	-126.25	3,242.13	3,362.98	3,304.45	58.53	57.460		
8,500.00	8,495.83	8,503.89	8,499.96	29.71	29.58	-127.97	-130.47	3,241.56	3,364.93	3,305.69	59.24	56.804		
8,600.00	8,595.75	8,603.87	8,599.85	30.06	29.94	-127.96	-134.68	3,241.00	3,366.88	3,306.93	59.95	56.163		
8,700.00	8,695.66	8,703.85	8,699.74	30.42	30.29	-127.94	-138.90	3,240.43	3,368.83	3,308.17	60.66	55.537		
8,800.00	8,795.58	8,803.82	8,799.62	30.78	30.65	-127.92	-143.11	3,239.87	3,370.78	3,309.41	61.37	54.925		
8,900.00	8,895.49	8,903.80	8,899.51	31.14	31.00	-127.91	-147.33	3,239.30	3,372.73	3,310.65	62.08	54.327		
9,000.00	8,995.40	9,003.78	8,999.39	31.50	31.36	-127.89	-151.54	3,238.73	3,374.68	3,311.88	62.79	53.742		
9,100.00	9,095.32	9,103.75	9,099.28	31.85	31.71	-127.88	-155.76	3,238.17	3,376.63	3,313.12	63.51	53.170		
9,200.00	9,195.23	9,203.73	9,199.17	32.21	32.07	-127.86	-159.98	3,237.60	3,378.58	3,314.36	64.22	52.610		
9,300.00	9,295.14	9,303.71	9,299.05	32.57	32.42	-127.84	-164.19	3,237.04	3,380.53	3,315.60	64.93	52.062		
9,400.00	9,395.06	9,403.68	9,398.94	32.93	32.78	-127.83	-168.41	3,236.47	3,382.48	3,316.84	65.65	51.526		
9,500.00	9,494.97	9,503.66	9,498.83	33.29	33.14	-127.81	-172.62	3,235.91	3,384.43	3,318.07	66.36	51.001		
9,523.61	9,518.56	9,526.39	9,521.54	33.37	33.22	-127.81	-173.57	3,235.78	3,384.90	3,318.37	66.52	50.882		
9,600.00	9,594.91	9,594.39	9,589.50	33.64	33.46	-127.82	-175.72	3,235.49	3,386.03	3,318.99	67.04	50.509		
9,682.09	9,677.00	9,667.48	9,662.58	33.93	33.72	89.66	-176.68	3,235.36	3,386.42	3,318.84	67.58	50.111		
9,700.00	9,694.91	9,683.61	9,678.71	33.99	33.77	89.66	-176.71	3,235.36	3,386.42	3,318.72	67.70	50.024		
9,800.00	9,794.91	9,783.61	9,778.71	34.33	34.11	89.66	-176.71	3,235.36	3,386.42	3,318.03	68.38	49.522		
9,900.00	9,894.91	9,883.61	9,878.71	34.68	34.46	89.66	-176.71	3,235.36	3,386.42	3,317.35	69.07	49.029		
10,000.00	9,994.91	9,983.61	9,978.71	35.02	34.80	89.66	-176.71	3,235.36	3,386.42	3,316.66	69.76	48.546		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	10,015.74	10,010.84	35.13	34.91	89.66	-176.71	3,235.36	3,386.42	3,316.44	69.98	48.393		
10,050.00	10,044.90	10,033.62	10,028.72	35.19	34.97	90.07	-176.71	3,235.36	3,386.42	3,316.32	70.10	48.308		
10,100.00	10,094.75	10,084.17	10,079.20	35.36	35.15	90.09	-174.33	3,235.34	3,386.42	3,315.98	70.44	48.074		
10,150.00	10,144.08	10,134.85	10,129.39	35.53	35.31	90.12	-167.49	3,235.29	3,386.42	3,315.64	70.77	47.849		
10,200.00	10,192.52	10,185.64	10,178.90	35.68	35.48	90.14	-156.22	3,235.20	3,386.42	3,315.32	71.10	47.632		
10,250.00	10,239.69	10,236.55	10,227.33	35.84	35.63	90.16	-140.56	3,235.08	3,386.41	3,315.00	71.41	47.424		
10,300.00	10,285.26	10,287.56	10,274.27	35.98	35.78	90.18	-120.63	3,234.93	3,386.41	3,314.70	71.71	47.226		
10,350.00	10,328.85	10,338.67	10,319.33	36.12	35.93	90.20	-96.55	3,234.75	3,386.40	3,314.40	72.00	47.036		
10,400.00	10,370.15	10,389.88	10,362.15	36.25	36.07	90.22	-68.50	3,234.53	3,386.39	3,314.11	72.28	46.854		
10,450.00	10,408.84	10,441.16	10,402.35	36.37	36.21	90.23	-36.68	3,234.29	3,386.38	3,313.83	72.55	46.679		
10,500.00	10,444.62	10,492.52	10,439.59	36.49	36.34	90.24	-1.35	3,234.02	3,386.36	3,313.55	72.81	46.510		
10,550.00	10,477.22	10,543.93	10,473.56	36.61	36.47	90.26	37.22	3,233.73	3,386.35	3,313.28	73.07	46.346		
10,600.00	10,506.40	10,595.40	10,503.97	36.73	36.60	90.27	78.72	3,233.41	3,386.33	3,313.01	73.32	46.186		
10,650.00	10,531.93	10,646.90	10,530.55	36.85	36.72	90.27	122.81	3,233.08	3,386.31	3,312.74	73.57	46.029		
10,700.00	10,553.61	10,698.43	10,553.07	36.97	36.85	90.28	169.13	3,232.72	3,386.29	3,312.47	73.82	45.873		
10,750.00	10,571.29	10,749.96	10,571.34	37.10	36.97	90.28	217.30	3,232.36	3,386.27	3,312.20	74.07	45.718		
10,800.00	10,584.83	10,801.50	10,585.21	37.22	37.10	90.28	266.92	3,231.98	3,386.25	3,311.93	74.32	45.563		
10,850.00	10,594.12	10,853.02	10,594.57	37.34	37.23	90.28	317.56	3,231.59	3,386.22	3,311.65	74.57	45.409		
10,900.00	10,599.10	10,904.51	10,599.34	37.47	37.35	90.28	368.82	3,231.20	3,386.20	3,311.37	74.82	45.256		
10,932.14	10,600.00	10,937.43	10,600.00	37.55	37.43	90.27	401.72	3,230.95	3,386.18	3,311.19	74.98	45.158		
11,000.00	10,600.00	11,005.30	10,600.00	37.73	37.62	90.27	469.59	3,230.44	3,386.15	3,310.80	75.35	44.940		
11,100.00	10,600.00	11,105.30	10,600.00	38.04	37.93	90.27	569.58	3,229.67	3,386.10	3,310.13	75.97	44.570		
11,200.00	10,600.00	11,205.30	10,600.00	38.41	38.29	90.27	669.58	3,228.91	3,386.05	3,309.35	76.70	44.144		
11,300.00	10,600.00	11,305.30	10,600.00	38.83	38.71	90.27	769.58	3,228.15	3,386.00	3,308.47	77.54	43.669		
11,400.00	10,600.00	11,405.30	10,600.00	39.30	39.17	90.27	869.57	3,227.39	3,385.96	3,307.49	78.47	43.149		
11,500.00	10,600.00	11,505.30	10,600.00	39.81	39.69	90.27	969.57	3,226.63	3,385.91	3,306.41	79.50	42.591		
11,600.00	10,600.00	11,605.30	10,600.00	40.37	40.25	90.27	1,069.57	3,225.87	3,385.86	3,305.24	80.62	41.998		
11,700.00	10,600.00	11,705.30	10,600.00	40.98	40.85	90.27	1,169.57	3,225.11	3,385.81	3,303.99	81.83	41.377		
11,800.00	10,600.00	11,805.30	10,600.00	41.62	41.50	90.27	1,269.56	3,224.35	3,385.77	3,302.64	83.12	40.732		
11,900.00	10,600.00	11,905.30	10,600.00	42.31	42.19	90.27	1,369.56	3,223.58	3,385.72	3,301.22	84.50	40.069		
12,000.00	10,600.00	12,005.30	10,600.00	43.04	42.91	90.27	1,469.56	3,222.82	3,385.67	3,299.72	85.95	39.392		
12,100.00	10,600.00	12,105.30	10,600.00	43.80	43.67	90.27	1,569.55	3,222.06	3,385.62	3,298.15	87.47	38.705		
12,200.00	10,600.00	12,205.30	10,600.00	44.60	44.47	90.27	1,669.55	3,221.30	3,385.58	3,296.51	89.06	38.012		
12,300.00	10,600.00	12,305.30	10,600.00	45.43	45.30	90.27	1,769.55	3,220.54	3,385.53	3,294.81	90.72	37.317		
12,400.00	10,600.00	12,405.30	10,600.00	46.29	46.16	90.27	1,869.55	3,219.78	3,385.48	3,293.04	92.44	36.622		
12,500.00	10,600.00	12,505.30	10,600.00	47.17	47.05	90.27	1,969.54	3,219.02	3,385.43	3,291.21	94.22	35.930		
12,600.00	10,600.00	12,605.30	10,600.00	48.09	47.97	90.27	2,069.54	3,218.26	3,385.39	3,289.33	96.06	35.243		
12,700.00	10,600.00	12,705.30	10,600.00	49.04	48.91	90.27	2,169.54	3,217.49	3,385.34	3,287.39	97.95	34.564		
12,800.00	10,600.00	12,805.30	10,600.00	50.00	49.88	90.27	2,269.53	3,216.73	3,385.29	3,285.41	99.88	33.893		
12,900.00	10,600.00	12,905.30	10,600.00	50.99	50.87	90.27	2,369.53	3,215.97	3,385.24	3,283.38	101.86	33.233		
13,000.00	10,600.00	13,005.30	10,600.00	52.01	51.89	90.27	2,469.53	3,215.21	3,385.20	3,281.31	103.89	32.584		
13,100.00	10,600.00	13,105.30	10,600.00	53.04	52.92	90.27	2,569.52	3,214.45	3,385.15	3,279.19	105.96	31.948		
13,200.00	10,600.00	13,205.30	10,600.00	54.09	53.98	90.27	2,669.52	3,213.69	3,385.10	3,277.04	108.07	31.325		
13,300.00	10,600.00	13,305.30	10,600.00	55.16	55.05	90.27	2,769.52	3,212.93	3,385.05	3,274.85	110.21	30.715		
13,400.00	10,600.00	13,405.30	10,600.00	56.25	56.14	90.27	2,869.52	3,212.17	3,385.01	3,272.62	112.39	30.119		
13,500.00	10,600.00	13,505.30	10,600.00	57.36	57.24	90.27	2,969.51	3,211.40	3,384.96	3,270.36	114.60	29.538		
13,600.00	10,600.00	13,605.30	10,600.00	58.48	58.36	90.27	3,069.51	3,210.64	3,384.91	3,268.07	116.84	28.971		
13,700.00	10,600.00	13,705.30	10,600.00	59.61	59.50	90.27	3,169.51	3,209.88	3,384.86	3,265.75	119.11	28.418		
13,800.00	10,600.00	13,805.30	10,600.00	60.76	60.65	90.27	3,269.50	3,209.12	3,384.82	3,263.41	121.41	27.880		
13,900.00	10,600.00	13,905.30	10,600.00	61.92	61.81	90.27	3,369.50	3,208.36	3,384.77	3,261.04	123.73	27.356		
14,000.00	10,600.00	14,005.30	10,600.00	63.10	62.99	90.27	3,469.50	3,207.60	3,384.72	3,258.64	126.08	26.846		
14,100.00	10,600.00	14,105.30	10,600.00	64.28	64.17	90.27	3,569.50	3,206.84	3,384.67	3,256.22	128.45	26.350		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	14,205.30	10,600.00	65.48	65.37	90.27	3,669.49	3,206.07	3,384.63	3,253.78	130.84	25.867	
14,300.00	10,600.00	14,305.30	10,600.00	66.68	66.58	90.27	3,769.49	3,205.31	3,384.58	3,251.32	133.26	25.399	
14,400.00	10,600.00	14,405.30	10,600.00	67.90	67.79	90.27	3,869.49	3,204.55	3,384.53	3,248.84	135.69	24.943	
14,500.00	10,600.00	14,505.30	10,600.00	69.13	69.02	90.27	3,969.48	3,203.79	3,384.48	3,246.34	138.14	24.500	
14,600.00	10,600.00	14,605.30	10,600.00	70.36	70.26	90.27	4,069.48	3,203.03	3,384.44	3,243.82	140.61	24.069	
14,700.00	10,600.00	14,705.30	10,600.00	71.60	71.50	90.27	4,169.48	3,202.27	3,384.39	3,241.29	143.10	23.650	
14,800.00	10,600.00	14,805.30	10,600.00	72.85	72.75	90.27	4,269.48	3,201.51	3,384.34	3,238.74	145.60	23.244	
14,900.00	10,600.00	14,905.30	10,600.00	74.11	74.01	90.27	4,369.47	3,200.75	3,384.29	3,236.17	148.12	22.848	
15,000.00	10,600.00	15,005.30	10,600.00	75.38	75.28	90.27	4,469.47	3,199.98	3,384.25	3,233.60	150.65	22.464	
15,100.00	10,600.00	15,105.30	10,600.00	76.65	76.55	90.27	4,569.47	3,199.22	3,384.20	3,231.00	153.20	22.091	
15,200.00	10,600.00	15,205.30	10,600.00	77.93	77.83	90.27	4,669.46	3,198.46	3,384.15	3,228.40	155.75	21.728	
15,300.00	10,600.00	15,305.30	10,600.00	79.21	79.11	90.27	4,769.46	3,197.70	3,384.10	3,225.78	158.32	21.375	
15,400.00	10,600.00	15,405.30	10,600.00	80.50	80.41	90.27	4,869.46	3,196.94	3,384.06	3,223.15	160.91	21.031	
15,500.00	10,600.00	15,505.30	10,600.00	81.80	81.70	90.27	4,969.46	3,196.18	3,384.01	3,220.51	163.50	20.698	
15,575.11	10,600.00	15,580.40	10,600.00	82.77	82.68	90.27	5,044.56	3,195.61	3,383.97	3,218.52	165.45	20.453 ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	0.50	89.06	54.80	3,356.36	3,356.85					
100.00	100.00	83.40	83.40	0.52	0.51	89.06	54.80	3,356.36	3,356.80	3,355.77	1.03	3,258.494		
200.00	200.00	183.40	183.40	0.70	0.66	89.06	54.80	3,356.36	3,356.80	3,355.44	1.36	2,461.380		
300.00	300.00	283.40	283.40	0.99	0.94	89.06	54.80	3,356.36	3,356.80	3,354.88	1.92	1,744.842		
400.00	400.00	383.40	383.40	1.31	1.25	89.06	54.80	3,356.36	3,356.80	3,354.24	2.56	1,309.517		
500.00	500.00	483.40	483.40	1.65	1.59	89.06	54.80	3,356.36	3,356.80	3,353.57	3.24	1,037.465		
600.00	600.00	583.40	583.40	1.99	1.93	89.06	54.80	3,356.36	3,356.80	3,352.88	3.92	855.528		
700.00	700.00	683.40	683.40	2.34	2.28	89.06	54.80	3,356.36	3,356.80	3,352.18	4.62	726.497		
800.00	800.00	783.40	783.40	2.69	2.63	89.06	54.80	3,356.36	3,356.80	3,351.48	5.32	630.653		
900.00	900.00	883.40	883.40	3.04	2.98	89.06	54.80	3,356.36	3,356.80	3,350.78	6.03	556.830		
1,000.00	1,000.00	983.40	983.40	3.40	3.34	89.06	54.80	3,356.36	3,356.80	3,350.07	6.74	498.303		
1,100.00	1,100.00	1,083.40	1,083.40	3.75	3.69	89.06	54.80	3,356.36	3,356.80	3,349.36	7.45	450.805		
1,200.00	1,200.00	1,183.40	1,183.40	4.11	4.05	89.06	54.80	3,356.36	3,356.80	3,348.65	8.16	411.512		
1,300.00	1,300.00	1,283.40	1,283.40	4.46	4.41	89.06	54.80	3,356.36	3,356.80	3,347.93	8.87	378.478		
1,400.00	1,400.00	1,383.40	1,383.40	4.82	4.76	89.06	54.80	3,356.36	3,356.80	3,347.22	9.58	350.326		
1,500.00	1,500.00	1,483.40	1,483.40	5.18	5.12	89.06	54.80	3,356.36	3,356.80	3,346.51	10.30	326.054		
1,600.00	1,600.00	1,583.40	1,583.40	5.53	5.47	89.06	54.80	3,356.36	3,356.80	3,345.80	11.01	304.914		
1,700.00	1,700.00	1,683.40	1,683.40	5.89	5.83	89.06	54.80	3,356.36	3,356.80	3,345.08	11.72	286.339		
1,800.00	1,800.00	1,783.40	1,783.40	6.25	6.19	89.06	54.80	3,356.36	3,356.80	3,344.37	12.44	269.891		
1,900.00	1,900.00	1,883.40	1,883.40	6.61	6.55	89.06	54.80	3,356.36	3,356.80	3,343.65	13.15	255.224		
2,000.00	2,000.00	1,983.40	1,983.40	6.96	6.90	89.06	54.80	3,356.36	3,356.80	3,342.94	13.87	242.065 CC		
2,100.00	2,100.00	2,053.11	2,053.11	7.32	7.15	89.07	54.75	3,356.60	3,357.18	3,342.71	14.47	232.043 ES		
2,200.00	2,200.00	2,116.78	2,116.77	7.68	7.37	89.07	54.55	3,357.52	3,358.62	3,343.58	15.04	223.272		
2,300.00	2,300.00	2,180.42	2,180.39	8.04	7.58	89.08	54.19	3,359.13	3,361.15	3,345.54	15.61	215.299		
2,400.00	2,400.00	2,244.01	2,243.94	8.39	7.80	89.08	53.69	3,361.43	3,364.75	3,348.57	16.18	207.967		
2,500.00	2,500.00	2,300.00	2,299.86	8.75	7.99	89.10	53.13	3,364.03	3,369.45	3,352.73	16.72	201.545		
2,600.00	2,600.00	2,371.00	2,370.74	9.11	8.23	89.11	52.24	3,368.09	3,375.20	3,357.89	17.31	194.983		
2,700.00	2,700.00	2,434.37	2,433.95	9.47	8.45	89.13	51.29	3,372.44	3,382.04	3,364.16	17.87	189.225		
2,800.00	2,800.00	2,500.00	2,499.37	9.83	8.68	89.15	50.15	3,377.66	3,389.95	3,371.51	18.44	183.806		
2,900.00	2,900.00	2,560.77	2,559.88	10.18	8.89	89.17	48.96	3,383.15	3,398.93	3,379.94	18.99	178.957		
3,000.00	3,000.00	2,623.77	2,622.54	10.54	9.11	89.20	47.57	3,389.50	3,408.99	3,389.44	19.55	174.376		
3,100.00	3,100.00	2,686.63	2,684.98	10.90	9.33	89.22	46.04	3,396.51	3,420.10	3,400.00	20.10	170.123		
3,200.00	3,200.00	2,749.31	2,747.18	11.26	9.56	89.25	44.37	3,404.16	3,432.28	3,411.63	20.66	166.169		
3,300.00	3,300.00	2,811.82	2,809.11	11.62	9.78	89.29	42.56	3,412.45	3,445.52	3,424.32	21.20	162.492		
3,400.00	3,400.00	2,874.13	2,870.75	11.97	10.01	89.32	40.62	3,421.38	3,459.81	3,438.06	21.75	159.070		
3,500.00	3,500.00	2,964.61	2,960.14	12.33	10.34	89.37	37.64	3,435.01	3,474.84	3,452.43	22.42	155.020		
3,600.00	3,600.00	3,063.34	3,057.69	12.67	10.71	-127.93	34.39	3,449.91	3,490.43	3,467.33	23.10	151.092		
3,700.00	3,699.96	3,161.94	3,155.10	13.00	11.08	-127.77	31.15	3,464.78	3,507.08	3,483.31	23.77	147.523		
3,737.73	3,737.66	3,200.91	3,191.81	13.13	11.22	-127.72	29.93	3,470.39	3,513.64	3,489.61	24.03	146.196		
3,800.00	3,799.88	3,260.39	3,252.38	13.33	11.45	-127.72	27.91	3,479.64	3,524.59	3,500.14	24.45	144.172		
3,900.00	3,899.79	3,358.84	3,349.64	13.66	11.82	-127.71	24.67	3,494.49	3,542.16	3,517.04	25.12	140.991		
4,000.00	3,999.71	3,457.28	3,446.90	13.99	12.20	-127.71	21.43	3,509.34	3,559.74	3,533.94	25.80	137.961		
4,100.00	4,099.62	3,555.72	3,544.16	14.32	12.58	-127.71	18.19	3,524.19	3,577.31	3,550.83	26.48	135.073		
4,200.00	4,199.53	3,654.17	3,641.43	14.66	12.96	-127.71	14.95	3,539.04	3,594.89	3,567.72	27.17	132.317		
4,300.00	4,299.45	3,752.61	3,738.69	15.00	13.34	-127.71	11.71	3,553.90	3,612.47	3,584.61	27.86	129.686		
4,400.00	4,399.36	3,851.05	3,835.95	15.33	13.73	-127.71	8.47	3,568.75	3,630.04	3,601.50	28.54	127.172		
4,500.00	4,499.28	3,949.50	3,933.21	15.67	14.12	-127.70	5.23	3,583.60	3,647.62	3,618.38	29.24	124.768		
4,600.00	4,599.19	4,047.94	4,030.48	16.01	14.50	-127.70	1.99	3,598.45	3,665.19	3,635.27	29.93	122.467		
4,700.00	4,699.10	4,146.38	4,127.74	16.35	14.89	-127.70	-1.25	3,613.30	3,682.77	3,652.15	30.62	120.263		
4,800.00	4,799.02	4,244.83	4,225.00	16.69	15.29	-127.70	-4.49	3,628.15	3,700.35	3,669.03	31.32	118.151		
4,900.00	4,898.93	4,343.27	4,322.26	17.04	15.68	-127.70	-7.73	3,643.01	3,717.92	3,685.91	32.02	116.126		
5,000.00	4,998.85	4,441.71	4,419.53	17.38	16.07	-127.69	-10.97	3,657.86	3,735.50	3,702.78	32.72	114.181		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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	5,098.76	4,540.16	4,516.79	17.72	16.47	-127.69	-14.21	3,672.71	3,753.07	3,719.66	33.42	112.313		
5,200.00	5,198.67	4,638.60	4,614.05	18.07	16.86	-127.69	-17.45	3,687.56	3,770.65	3,736.53	34.12	110.518		
5,300.00	5,298.59	4,737.04	4,711.31	18.41	17.26	-127.69	-20.69	3,702.41	3,788.23	3,753.40	34.82	108.792		
5,400.00	5,398.50	4,835.49	4,808.58	18.76	17.65	-127.69	-23.92	3,717.26	3,805.80	3,770.28	35.53	107.130		
5,500.00	5,498.42	4,933.93	4,905.84	19.11	18.05	-127.69	-27.16	3,732.12	3,823.38	3,787.15	36.23	105.530		
5,600.00	5,598.33	5,032.37	5,003.10	19.45	18.45	-127.68	-30.40	3,746.97	3,840.95	3,804.02	36.94	103.988		
5,700.00	5,698.24	5,130.82	5,100.37	19.80	18.85	-127.68	-33.64	3,761.82	3,858.53	3,820.89	37.64	102.501		
5,800.00	5,798.16	5,229.26	5,197.63	20.15	19.25	-127.68	-36.88	3,776.67	3,876.11	3,837.75	38.35	101.067		
5,900.00	5,898.07	5,327.70	5,294.89	20.50	19.65	-127.68	-40.12	3,791.52	3,893.68	3,854.62	39.06	99.683		
6,000.00	5,997.98	5,426.15	5,392.15	20.85	20.05	-127.68	-43.36	3,806.37	3,911.26	3,871.49	39.77	98.346		
6,100.00	6,097.90	5,524.59	5,489.42	21.20	20.45	-127.68	-46.60	3,821.23	3,928.83	3,888.35	40.48	97.054		
6,200.00	6,197.81	5,623.03	5,586.68	21.55	20.85	-127.68	-49.84	3,836.08	3,946.41	3,905.22	41.19	95.804		
6,300.00	6,297.73	5,721.47	5,683.94	21.90	21.26	-127.67	-53.08	3,850.93	3,963.99	3,922.08	41.90	94.596		
6,400.00	6,397.64	5,819.92	5,781.20	22.25	21.66	-127.67	-56.32	3,865.78	3,981.56	3,938.94	42.62	93.426		
6,500.00	6,497.55	5,918.36	5,878.47	22.61	22.06	-127.67	-59.56	3,880.63	3,999.14	3,955.81	43.33	92.294		
6,600.00	6,597.47	6,016.80	5,975.73	22.96	22.47	-127.67	-62.80	3,895.49	4,016.71	3,972.67	44.04	91.197		
6,700.00	6,697.38	6,115.25	6,072.99	23.31	22.87	-127.67	-66.04	3,910.34	4,034.29	3,989.53	44.76	90.134		
6,800.00	6,797.30	6,213.69	6,170.25	23.66	23.28	-127.67	-69.28	3,925.19	4,051.87	4,006.39	45.47	89.103		
6,900.00	6,897.21	6,312.13	6,267.52	24.02	23.68	-127.66	-72.52	3,940.04	4,069.44	4,023.25	46.19	88.103		
7,000.00	6,997.12	6,410.58	6,364.78	24.37	24.09	-127.66	-75.76	3,954.89	4,087.02	4,040.11	46.91	87.132		
7,100.00	7,097.04	6,509.02	6,462.04	24.73	24.49	-127.66	-79.00	3,969.74	4,104.59	4,056.97	47.62	86.190		
7,200.00	7,196.95	6,607.46	6,559.30	25.08	24.90	-127.66	-82.24	3,984.60	4,122.17	4,073.83	48.34	85.275		
7,300.00	7,296.87	6,705.91	6,656.57	25.43	25.30	-127.66	-85.48	3,999.45	4,139.75	4,090.69	49.06	84.386		
7,400.00	7,396.78	6,804.35	6,753.83	25.79	25.71	-127.66	-88.72	4,014.30	4,157.32	4,107.55	49.78	83.521		
7,500.00	7,496.69	6,902.79	6,851.09	26.14	26.12	-127.66	-91.96	4,029.15	4,174.90	4,124.40	50.49	82.681		
7,600.00	7,596.61	7,001.24	6,948.35	26.50	26.52	-127.66	-95.20	4,044.00	4,192.47	4,141.26	51.21	81.864		
7,700.00	7,696.52	7,100.32	7,045.62	26.86	26.93	-127.65	-98.44	4,058.85	4,210.05	4,158.12	51.93	81.064		
7,800.00	7,796.44	7,201.88	7,142.88	27.21	27.35	-127.65	-101.68	4,073.71	4,227.63	4,174.96	52.67	80.273		
7,900.00	7,896.35	7,303.43	7,240.14	27.57	27.77	-127.65	-104.92	4,088.56	4,245.20	4,191.81	53.40	79.502		
8,000.00	7,996.26	7,395.01	7,337.40	27.92	28.15	-127.65	-108.15	4,103.41	4,262.78	4,208.69	54.09	78.806		
8,100.00	8,096.18	7,506.55	7,434.67	28.28	28.61	-127.65	-111.39	4,118.26	4,280.36	4,225.49	54.86	78.020		
8,200.00	8,196.09	7,608.10	7,531.93	28.64	29.03	-127.65	-114.63	4,133.11	4,297.93	4,242.34	55.59	77.308		
8,300.00	8,296.01	7,709.66	7,629.19	28.99	29.45	-127.65	-117.87	4,147.97	4,315.51	4,259.18	56.33	76.614		
8,400.00	8,395.92	7,788.78	7,726.45	29.35	29.78	-127.64	-121.11	4,162.82	4,333.08	4,276.11	56.98	76.049		
8,500.00	8,495.83	7,887.23	7,823.72	29.71	30.19	-127.64	-124.35	4,177.67	4,350.66	4,292.96	57.70	75.402		
8,600.00	8,595.75	7,985.67	7,920.98	30.06	30.60	-127.64	-127.59	4,192.52	4,368.24	4,309.81	58.42	74.771		
8,700.00	8,695.66	8,084.11	8,018.24	30.42	31.01	-127.64	-130.83	4,207.37	4,385.81	4,326.67	59.14	74.154		
8,800.00	8,795.58	8,182.56	8,115.50	30.78	31.42	-127.64	-134.07	4,222.22	4,403.39	4,343.52	59.87	73.552		
8,900.00	8,895.49	8,281.00	8,212.77	31.14	31.83	-127.64	-137.31	4,237.08	4,420.96	4,360.37	60.59	72.964		
9,000.00	8,995.40	8,379.44	8,310.03	31.50	32.24	-127.64	-140.55	4,251.93	4,438.54	4,377.23	61.31	72.390		
9,100.00	9,095.32	8,477.89	8,407.29	31.85	32.64	-127.64	-143.79	4,266.78	4,456.12	4,394.08	62.04	71.829		
9,200.00	9,195.23	8,576.33	8,504.55	32.21	33.05	-127.63	-147.03	4,281.63	4,473.69	4,410.93	62.76	71.280		
9,300.00	9,295.14	8,674.77	8,601.82	32.57	33.46	-127.63	-150.27	4,296.48	4,491.27	4,427.78	63.49	70.744		
9,400.00	9,395.06	8,773.22	8,699.08	32.93	33.87	-127.63	-153.51	4,311.33	4,508.84	4,444.63	64.21	70.220		
9,500.00	9,494.97	8,871.66	8,796.34	33.29	34.28	-127.63	-156.75	4,326.19	4,526.42	4,461.49	64.94	69.707		
9,523.61	9,518.56	8,905.10	8,819.30	33.37	34.42	-127.63	-157.51	4,329.69	4,530.57	4,465.43	65.14	69.546		
9,600.00	9,594.91	8,970.18	8,893.68	33.64	34.69	-127.78	-159.99	4,341.05	4,543.54	4,477.88	65.66	69.198		
9,682.09	9,677.00	9,051.22	8,973.75	33.93	35.03	89.56	-162.66	4,353.28	4,556.44	4,490.19	66.25	68.778		
9,700.00	9,694.91	9,068.91	8,991.23	33.99	35.10	89.57	-163.24	4,355.95	4,559.14	4,492.77	66.38	68.687		
9,800.00	9,794.91	9,859.52	9,778.31	34.33	38.01	89.74	-176.20	4,415.36	4,566.40	4,496.65	69.75	65.467		
9,900.00	9,894.91	9,959.52	9,878.31	34.68	38.33	89.74	-176.20	4,415.36	4,566.40	4,495.98	70.43	64.839		
10,000.00	9,994.91	10,059.52	9,978.31	35.02	38.64	89.74	-176.20	4,415.36	4,566.40	4,495.30	71.10	64.223		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-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		
10,032.13	10,027.04	10,091.66	10,010.44	35.13	38.75	89.74	-176.20	4,415.36	4,566.40	4,495.08	71.32	64.027		
10,050.00	10,044.90	10,109.55	10,028.34	35.19	38.80	90.15	-176.20	4,415.36	4,566.40	4,494.96	71.44	63.919		
10,100.00	10,094.75	10,160.87	10,079.58	35.36	38.96	90.17	-173.79	4,415.34	4,566.41	4,494.63	71.78	63.620		
10,150.00	10,144.08	10,212.32	10,130.53	35.53	39.12	90.19	-166.78	4,415.29	4,566.41	4,494.31	72.10	63.332		
10,200.00	10,192.52	10,263.87	10,180.75	35.68	39.27	90.20	-155.20	4,415.20	4,566.41	4,493.99	72.42	63.056		
10,250.00	10,239.69	10,315.53	10,229.83	35.84	39.40	90.21	-139.11	4,415.07	4,566.40	4,493.68	72.72	62.792		
10,300.00	10,285.26	10,367.29	10,277.33	35.98	39.53	90.23	-118.64	4,414.92	4,566.40	4,493.38	73.01	62.541		
10,350.00	10,328.85	10,419.11	10,322.87	36.12	39.65	90.23	-93.93	4,414.73	4,566.39	4,493.09	73.29	62.302		
10,400.00	10,370.15	10,470.99	10,366.03	36.25	39.75	90.24	-65.16	4,414.51	4,566.38	4,492.81	73.56	62.073		
10,450.00	10,408.84	10,522.92	10,406.44	36.37	39.84	90.25	-32.59	4,414.26	4,566.36	4,492.54	73.82	61.854		
10,500.00	10,444.62	10,574.88	10,443.76	36.49	39.91	90.25	3.53	4,413.99	4,566.35	4,492.27	74.08	61.643		
10,550.00	10,477.22	10,626.84	10,477.67	36.61	39.97	90.26	42.89	4,413.69	4,566.33	4,492.01	74.32	61.439		
10,600.00	10,506.40	10,678.80	10,507.86	36.73	40.01	90.26	85.15	4,413.37	4,566.31	4,491.75	74.56	61.240		
10,650.00	10,531.93	10,730.74	10,534.09	36.85	40.04	90.25	129.95	4,413.03	4,566.29	4,491.49	74.80	61.045		
10,700.00	10,553.61	10,782.64	10,556.15	36.97	40.07	90.25	176.91	4,412.67	4,566.27	4,491.23	75.04	60.853		
10,750.00	10,571.29	10,834.48	10,573.85	37.10	40.08	90.24	225.62	4,412.30	4,566.24	4,490.97	75.27	60.662		
10,800.00	10,584.83	10,886.25	10,587.06	37.22	40.09	90.24	275.66	4,411.92	4,566.21	4,490.71	75.51	60.472		
10,850.00	10,594.12	10,937.94	10,595.69	37.34	40.09	90.23	326.60	4,411.53	4,566.19	4,490.44	75.75	60.283		
10,900.00	10,599.10	10,989.52	10,599.69	37.47	40.10	90.21	378.01	4,411.14	4,566.16	4,490.18	75.98	60.096		
10,932.14	10,600.00	11,022.21	10,600.00	37.55	40.11	90.21	410.69	4,410.89	4,566.14	4,490.01	76.13	59.975		
11,000.00	10,600.00	11,109.93	10,600.00	37.73	40.17	90.21	478.55	4,410.37	4,566.11	4,489.58	76.53	59.666		
11,100.00	10,600.00	11,209.93	10,600.00	38.04	40.30	90.21	578.55	4,409.61	4,566.06	4,488.93	77.13	59.197		
11,200.00	10,600.00	11,309.93	10,600.00	38.41	40.52	90.21	678.55	4,408.85	4,566.02	4,488.17	77.84	58.657		
11,300.00	10,600.00	11,390.07	10,600.00	38.83	40.75	90.21	778.55	4,408.09	4,565.97	4,487.40	78.57	58.112		
11,400.00	10,600.00	11,509.93	10,600.00	39.30	41.21	90.21	878.54	4,407.33	4,565.92	4,486.36	79.56	57.387		
11,500.00	10,600.00	11,609.93	10,600.00	39.81	41.66	90.21	978.54	4,406.57	4,565.87	4,485.31	80.57	56.671		
11,600.00	10,600.00	11,709.93	10,600.00	40.37	42.17	90.21	1,078.54	4,405.81	4,565.83	4,484.16	81.66	55.910		
11,700.00	10,600.00	11,809.93	10,600.00	40.98	42.73	90.21	1,178.53	4,405.05	4,565.78	4,482.93	82.85	55.111		
11,800.00	10,600.00	11,890.07	10,600.00	41.62	43.22	90.21	1,278.53	4,404.29	4,565.73	4,481.74	83.99	54.361		
11,900.00	10,600.00	12,009.93	10,600.00	42.31	44.00	90.21	1,378.53	4,403.53	4,565.69	4,480.22	85.46	53.422		
12,000.00	10,600.00	12,109.93	10,600.00	43.04	44.69	90.21	1,478.53	4,402.76	4,565.65	4,478.75	86.89	52.545		
12,100.00	10,600.00	12,209.93	10,600.00	43.80	45.42	90.21	1,578.52	4,402.00	4,565.59	4,477.20	88.39	51.654		
12,200.00	10,600.00	12,309.93	10,600.00	44.60	46.18	90.21	1,678.52	4,401.24	4,565.54	4,475.59	89.96	50.753		
12,300.00	10,600.00	12,409.93	10,600.00	45.43	46.98	90.21	1,778.52	4,400.48	4,565.50	4,473.91	91.59	49.848		
12,400.00	10,600.00	12,490.07	10,600.00	46.29	47.64	90.21	1,878.51	4,399.72	4,565.45	4,472.33	93.12	49.029		
12,500.00	10,600.00	12,609.93	10,600.00	47.17	48.67	90.21	1,978.51	4,398.96	4,565.40	4,470.36	95.04	48.037		
12,600.00	10,600.00	12,709.93	10,600.00	48.09	49.55	90.21	2,078.51	4,398.20	4,565.36	4,468.50	96.85	47.138		
12,700.00	10,600.00	12,809.93	10,600.00	49.04	50.46	90.21	2,178.50	4,397.44	4,565.31	4,466.59	98.71	46.248		
12,800.00	10,600.00	12,909.93	10,600.00	50.00	51.40	90.21	2,278.50	4,396.68	4,565.26	4,464.63	100.63	45.368		
12,900.00	10,600.00	13,009.93	10,600.00	50.99	52.36	90.21	2,378.50	4,395.92	4,565.21	4,462.63	102.59	44.501		
13,000.00	10,600.00	13,109.93	10,600.00	52.01	53.34	90.21	2,478.50	4,395.15	4,565.17	4,460.57	104.59	43.647		
13,100.00	10,600.00	13,209.93	10,600.00	53.04	54.35	90.21	2,578.49	4,394.39	4,565.12	4,458.48	106.64	42.809		
13,200.00	10,600.00	13,309.93	10,600.00	54.09	55.37	90.21	2,678.49	4,393.63	4,565.07	4,456.35	108.72	41.988		
13,300.00	10,600.00	13,409.93	10,600.00	55.16	56.41	90.21	2,778.49	4,392.87	4,565.03	4,454.18	110.85	41.183		
13,400.00	10,600.00	13,509.93	10,600.00	56.25	57.48	90.21	2,878.48	4,392.11	4,564.98	4,451.97	113.01	40.396		
13,500.00	10,600.00	13,590.07	10,600.00	57.36	58.34	90.21	2,978.48	4,391.35	4,564.93	4,449.95	114.98	39.702		
13,600.00	10,600.00	13,709.93	10,600.00	58.48	59.65	90.21	3,078.48	4,390.59	4,564.88	4,447.46	117.42	38.876		
13,700.00	10,600.00	13,809.93	10,600.00	59.61	60.75	90.21	3,178.48	4,389.83	4,564.84	4,445.16	119.67	38.144		
13,800.00	10,600.00	13,909.93	10,600.00	60.76	61.88	90.21	3,278.47	4,389.07	4,564.79	4,442.84	121.95	37.431		
13,900.00	10,600.00	14,009.93	10,600.00	61.92	63.01	90.21	3,378.47	4,388.31	4,564.74	4,440.48	124.26	36.735		
14,000.00	10,600.00	14,109.93	10,600.00	63.10	64.16	90.21	3,478.47	4,387.54	4,564.69	4,438.10	126.59	36.058		
14,100.00	10,600.00	14,190.07	10,600.00	64.28	65.09	90.21	3,578.46	4,386.78	4,564.65	4,435.93	128.71	35.463		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Permit Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-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	
14,200.00	10,600.00	14,309.93	10,600.00	65.48	66.50	90.21	3,678.46	4,386.02	4,564.60	4,433.27	131.33	34.758	
14,300.00	10,600.00	14,390.07	10,600.00	66.68	67.44	90.21	3,778.46	4,385.26	4,564.55	4,431.07	133.49	34.195	
14,400.00	10,600.00	14,509.93	10,600.00	67.90	68.87	90.21	3,878.46	4,384.50	4,564.51	4,428.36	136.14	33.527	
14,500.00	10,600.00	14,609.93	10,600.00	69.13	70.08	90.21	3,978.45	4,383.74	4,564.46	4,425.88	138.58	32.937	
14,600.00	10,600.00	14,709.93	10,600.00	70.36	71.29	90.21	4,078.45	4,382.98	4,564.41	4,423.37	141.04	32.363	
14,700.00	10,600.00	14,809.93	10,600.00	71.60	72.51	90.21	4,178.45	4,382.22	4,564.36	4,420.85	143.51	31.805	
14,800.00	10,600.00	14,890.07	10,600.00	72.85	73.50	90.21	4,278.44	4,381.46	4,564.32	4,418.56	145.75	31.315	
14,900.00	10,600.00	15,009.93	10,600.00	74.11	74.98	90.21	4,378.44	4,380.70	4,564.27	4,415.77	148.50	30.735	
15,000.00	10,600.00	15,109.93	10,600.00	75.38	76.23	90.21	4,478.44	4,379.94	4,564.22	4,413.20	151.02	30.222	
15,100.00	10,600.00	15,209.93	10,600.00	76.65	77.48	90.21	4,578.44	4,379.17	4,564.18	4,410.62	153.56	29.723	
15,200.00	10,600.00	15,309.93	10,600.00	77.93	78.74	90.21	4,678.43	4,378.41	4,564.13	4,408.02	156.10	29.238	
15,300.00	10,600.00	15,409.93	10,600.00	79.21	80.01	90.21	4,778.43	4,377.65	4,564.08	4,405.42	158.66	28.766	
15,400.00	10,600.00	15,509.93	10,600.00	80.50	81.28	90.21	4,878.43	4,376.89	4,564.03	4,402.80	161.23	28.307	
15,500.00	10,600.00	15,609.93	10,600.00	81.80	82.56	90.21	4,978.42	4,376.13	4,563.99	4,400.17	163.82	27.860	
15,575.11	10,600.00	15,665.18	10,600.00	82.77	83.27	90.21	5,053.53	4,375.56	4,563.95	4,398.44	165.51	27.576 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	17.94	424.78	137.53	446.65					
100.00	100.00	88.00	88.00	0.52	10.07	17.94	424.78	137.53	446.49	435.90	10.59	42.178		
200.00	200.00	188.00	188.00	0.70	10.35	17.94	424.78	137.53	446.49	435.44	11.05	40.401		
300.00	300.00	288.00	288.00	0.99	10.83	17.94	424.78	137.53	446.49	434.67	11.82	37.776		
400.00	400.00	388.00	388.00	1.31	11.49	17.94	424.78	137.53	446.49	433.69	12.80	34.881		
500.00	500.00	488.00	488.00	1.65	12.30	17.94	424.78	137.53	446.49	432.54	13.94	32.019		
600.00	600.00	588.00	588.00	1.99	13.23	17.94	424.78	137.53	446.49	431.27	15.22	29.341		
700.00	700.00	688.00	688.00	2.34	14.25	17.94	424.78	137.53	446.49	429.90	16.59	26.911		
800.00	800.00	788.00	788.00	2.69	15.35	17.94	424.78	137.53	446.49	428.44	18.05	24.742		
900.00	900.00	888.00	888.00	3.04	16.52	17.94	424.78	137.53	446.49	426.93	19.56	22.822		
1,000.00	1,000.00	988.00	988.00	3.40	17.74	17.94	424.78	137.53	446.49	425.36	21.13	21.127		
1,100.00	1,100.00	1,088.00	1,088.00	3.75	18.99	17.94	424.78	137.53	446.49	423.75	22.74	19.631		
1,200.00	1,200.00	1,188.00	1,188.00	4.11	20.28	17.94	424.78	137.53	446.49	422.10	24.39	18.308		
1,300.00	1,300.00	1,288.00	1,288.00	4.46	21.60	17.94	424.78	137.53	446.49	420.43	26.06	17.133		
1,400.00	1,400.00	1,388.00	1,388.00	4.82	22.93	17.94	424.78	137.53	446.49	418.74	27.75	16.087		
1,500.00	1,500.00	1,488.00	1,488.00	5.18	24.29	17.94	424.78	137.53	446.49	417.02	29.47	15.152		
1,600.00	1,600.00	1,588.00	1,588.00	5.53	25.66	17.94	424.78	137.53	446.49	415.29	31.20	14.312		
1,700.00	1,700.00	1,688.00	1,688.00	5.89	27.05	17.94	424.78	137.53	446.49	413.55	32.94	13.555		
1,800.00	1,800.00	1,788.00	1,788.00	6.25	28.45	17.94	424.78	137.53	446.49	411.80	34.69	12.870		
1,900.00	1,900.00	1,888.00	1,888.00	6.61	29.85	17.94	424.78	137.53	446.49	410.03	36.46	12.247		
2,000.00	2,000.00	1,988.00	1,988.00	6.96	31.27	17.94	424.78	137.53	446.49	408.26	38.23	11.679		
2,100.00	2,100.00	2,088.00	2,088.00	7.32	32.69	17.94	424.78	137.53	446.49	406.48	40.01	11.159		
2,200.00	2,200.00	2,188.00	2,188.00	7.68	34.12	17.94	424.78	137.53	446.49	404.69	41.80	10.682		
2,300.00	2,300.00	2,288.00	2,288.00	8.04	35.55	17.94	424.78	137.53	446.49	402.90	43.59	10.243		
2,400.00	2,400.00	2,388.00	2,388.00	8.39	36.99	17.94	424.78	137.53	446.49	401.10	45.39	9.837		
2,500.00	2,500.00	2,488.00	2,488.00	8.75	38.44	17.94	424.78	137.53	446.49	399.30	47.19	9.462		
2,600.00	2,600.00	2,588.00	2,588.00	9.11	39.89	17.94	424.78	137.53	446.49	397.49	48.99	9.113		
2,700.00	2,700.00	2,688.00	2,688.00	9.47	41.34	17.94	424.78	137.53	446.49	395.68	50.80	8.788		
2,800.00	2,800.00	2,788.00	2,788.00	9.83	42.79	17.94	424.78	137.53	446.49	393.87	52.62	8.486		
2,900.00	2,900.00	2,888.00	2,888.00	10.18	44.25	17.94	424.78	137.53	446.49	392.06	54.43	8.203		
3,000.00	3,000.00	2,988.00	2,988.00	10.54	45.71	17.94	424.78	137.53	446.49	390.24	56.25	7.937		
3,100.00	3,100.00	3,088.00	3,088.00	10.90	47.17	17.94	424.78	137.53	446.49	388.42	58.07	7.689		
3,200.00	3,200.00	3,188.00	3,188.00	11.26	48.64	17.94	424.78	137.53	446.49	386.59	59.89	7.455		
3,300.00	3,300.00	3,288.00	3,288.00	11.62	50.10	17.94	424.78	137.53	446.49	384.77	61.72	7.234		
3,400.00	3,400.00	3,388.00	3,388.00	11.97	51.57	17.94	424.78	137.53	446.49	382.94	63.55	7.026		
3,500.00	3,500.00	3,488.00	3,488.00	12.33	53.04	17.94	424.78	137.53	446.49	381.12	65.37	6.830 CC		
3,600.00	3,600.00	3,588.00	3,588.00	12.67	54.51	160.51	424.78	137.53	447.31	380.12	67.19	6.658 ES		
3,700.00	3,699.96	3,687.96	3,687.96	13.00	55.99	160.61	424.78	137.53	449.78	380.79	68.99	6.520		
3,737.73	3,737.66	3,725.66	3,725.66	13.13	56.54	160.66	424.78	137.53	451.14	381.47	69.67	6.476		
3,800.00	3,799.88	3,787.88	3,787.88	13.33	57.46	160.77	424.78	137.53	453.58	382.79	70.79	6.408		
3,900.00	3,899.79	3,887.79	3,887.79	13.66	58.93	160.94	424.78	137.53	457.50	384.90	72.59	6.302		
4,000.00	3,999.71	3,987.71	3,987.71	13.99	60.41	161.11	424.78	137.53	461.42	387.02	74.40	6.202		
4,100.00	4,099.62	4,087.62	4,087.62	14.32	61.88	161.28	424.78	137.53	465.35	389.14	76.21	6.106		
4,200.00	4,199.53	4,187.53	4,187.53	14.66	63.36	161.44	424.78	137.53	469.28	391.26	78.02	6.015		
4,300.00	4,299.45	4,287.45	4,287.45	15.00	64.84	161.60	424.78	137.53	473.21	393.38	79.83	5.928		
4,400.00	4,399.36	4,387.36	4,387.36	15.33	66.32	161.76	424.78	137.53	477.15	395.50	81.65	5.844		
4,500.00	4,499.28	4,487.28	4,487.28	15.67	67.80	161.91	424.78	137.53	481.09	397.63	83.46	5.764		
4,600.00	4,599.19	4,587.19	4,587.19	16.01	69.28	162.06	424.78	137.53	485.04	399.75	85.28	5.687		
4,700.00	4,699.10	4,687.10	4,687.10	16.35	70.76	162.21	424.78	137.53	488.98	401.88	87.10	5.614		
4,800.00	4,799.02	4,787.02	4,787.02	16.69	72.24	162.36	424.78	137.53	492.94	404.01	88.92	5.543		
4,900.00	4,898.93	4,886.93	4,886.93	17.04	73.72	162.51	424.78	137.53	496.89	406.14	90.75	5.476		
5,000.00	4,998.85	4,986.85	4,986.85	17.38	75.21	162.65	424.78	137.53	500.85	408.28	92.57	5.410		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	5,098.76	5,086.76	5,086.76	17.72	76.69	162.79	424.78	137.53	504.81	410.41	94.40	5.348		
5,200.00	5,198.67	5,186.67	5,186.67	18.07	78.17	162.93	424.78	137.53	508.77	412.55	96.22	5.287		
5,300.00	5,298.59	5,286.59	5,286.59	18.41	79.66	163.06	424.78	137.53	512.74	414.69	98.05	5.229		
5,400.00	5,398.50	5,386.50	5,386.50	18.76	81.14	163.20	424.78	137.53	516.71	416.83	99.88	5.173		
5,500.00	5,498.42	5,486.42	5,486.42	19.11	82.63	163.33	424.78	137.53	520.68	418.97	101.71	5.119		
5,600.00	5,598.33	5,586.33	5,586.33	19.45	84.11	163.46	424.78	137.53	524.66	421.12	103.54	5.067		
5,700.00	5,698.24	5,686.24	5,686.24	19.80	85.60	163.59	424.78	137.53	528.64	423.26	105.37	5.017		
5,800.00	5,798.16	5,786.16	5,786.16	20.15	87.09	163.71	424.78	137.53	532.62	425.41	107.21	4.968 Alert		
5,900.00	5,898.07	5,886.07	5,886.07	20.50	88.57	163.84	424.78	137.53	536.60	427.56	109.04	4.921 Alert		
6,000.00	5,997.98	5,985.98	5,985.98	20.85	90.06	163.96	424.78	137.53	540.59	429.71	110.87	4.876 Alert, SF		
6,100.00	6,097.90	5,487.00	5,485.89	21.20	82.64	163.33	424.78	137.53	810.29	737.80	72.49	11.178		
6,200.00	6,197.81	5,487.00	5,485.89	21.55	82.64	163.33	424.78	137.53	889.28	821.62	67.66	13.144		
6,300.00	6,297.73	5,487.00	5,485.89	21.90	82.64	163.33	424.78	137.53	972.14	908.65	63.49	15.312		
6,400.00	6,397.64	5,487.00	5,485.89	22.25	82.64	163.33	424.78	137.53	1,057.97	998.05	59.92	17.656		
6,500.00	6,497.55	5,487.00	5,485.89	22.61	82.64	163.33	424.78	137.53	1,146.10	1,089.22	56.88	20.150		
6,600.00	6,597.47	5,487.00	5,485.89	22.96	82.64	163.33	424.78	137.53	1,236.04	1,181.76	54.28	22.771		
6,700.00	6,697.38	5,487.00	5,485.89	23.31	82.64	163.33	424.78	137.53	1,327.42	1,275.35	52.06	25.496		
6,800.00	6,797.30	5,487.00	5,485.89	23.66	82.64	163.33	424.78	137.53	1,419.96	1,369.79	50.16	28.306		
6,900.00	6,897.21	5,487.00	5,485.89	24.02	82.64	163.33	424.78	137.53	1,513.45	1,464.91	48.54	31.182		
7,000.00	6,997.12	5,487.00	5,485.89	24.37	82.64	163.33	424.78	137.53	1,607.72	1,560.58	47.14	34.108		
7,100.00	7,097.04	5,487.00	5,485.89	24.73	82.64	163.33	424.78	137.53	1,702.65	1,656.72	45.93	37.070		
7,200.00	7,196.95	5,487.00	5,485.89	25.08	82.64	163.33	424.78	137.53	1,798.12	1,753.23	44.89	40.055		
7,300.00	7,296.87	5,487.00	5,485.89	25.43	82.64	163.33	424.78	137.53	1,894.07	1,850.07	43.99	43.053		
7,400.00	7,396.78	5,487.00	5,485.89	25.79	82.64	163.33	424.78	137.53	1,990.41	1,947.19	43.22	46.053		
7,500.00	7,496.69	5,487.00	5,485.89	26.14	82.64	163.33	424.78	137.53	2,087.10	2,044.55	42.55	49.047		
7,600.00	7,596.61	5,487.00	5,485.89	26.50	82.64	163.33	424.78	137.53	2,184.09	2,142.11	41.98	52.029		
7,700.00	7,696.52	5,487.00	5,485.89	26.86	82.64	163.33	424.78	137.53	2,281.33	2,239.85	41.49	54.991		
7,800.00	7,796.44	5,487.00	5,485.89	27.21	82.64	163.33	424.78	137.53	2,378.81	2,337.74	41.06	57.928		
7,900.00	7,896.35	5,487.00	5,485.89	27.57	82.64	163.33	424.78	137.53	2,476.48	2,435.77	40.71	60.837		
8,000.00	7,996.26	5,487.00	5,485.89	27.92	82.64	163.33	424.78	137.53	2,574.34	2,533.93	40.40	63.713		
8,100.00	8,096.18	5,487.00	5,485.89	28.28	82.64	163.33	424.78	137.53	2,672.35	2,632.20	40.15	66.554		
8,200.00	8,196.09	5,487.00	5,485.89	28.64	82.64	163.33	424.78	137.53	2,770.50	2,730.56	39.95	69.355		
8,300.00	8,296.01	5,487.00	5,485.89	28.99	82.64	163.33	424.78	137.53	2,868.79	2,829.01	39.78	72.117		
8,400.00	8,395.92	5,487.00	5,485.89	29.35	82.64	163.33	424.78	137.53	2,967.18	2,927.53	39.65	74.835		
8,500.00	8,495.83	5,487.00	5,485.89	29.71	82.64	163.33	424.78	137.53	3,065.68	3,026.13	39.55	77.510		
8,600.00	8,595.75	5,487.00	5,485.89	30.06	82.64	163.33	424.78	137.53	3,164.28	3,124.80	39.48	80.140		
8,700.00	8,695.66	5,487.00	5,485.89	30.42	82.64	163.33	424.78	137.53	3,262.96	3,223.52	39.44	82.724		
8,800.00	8,795.58	5,487.00	5,485.89	30.78	82.64	163.33	424.78	137.53	3,361.72	3,322.29	39.43	85.261		
8,900.00	8,895.49	5,487.00	5,485.89	31.14	82.64	163.33	424.78	137.53	3,460.55	3,421.11	39.44	87.752		
9,000.00	8,995.40	5,487.00	5,485.89	31.50	82.64	163.33	424.78	137.53	3,559.44	3,519.98	39.46	90.195		
9,100.00	9,095.32	5,487.00	5,485.89	31.85	82.64	163.33	424.78	137.53	3,658.40	3,618.89	39.51	92.590		
9,200.00	9,195.23	5,487.00	5,485.89	32.21	82.64	163.33	424.78	137.53	3,757.41	3,717.83	39.58	94.939		
9,300.00	9,295.14	5,487.00	5,485.89	32.57	82.64	163.33	424.78	137.53	3,856.47	3,816.81	39.66	97.239		
9,400.00	9,395.06	5,487.00	5,485.89	32.93	82.64	163.33	424.78	137.53	3,955.58	3,915.82	39.76	99.493		
9,500.00	9,494.97	5,487.00	5,485.89	33.29	82.64	163.33	424.78	137.53	4,054.73	4,014.86	39.87	101.700		
9,523.61	9,518.56	5,487.00	5,485.89	33.37	82.64	163.33	424.78	137.53	4,078.15	4,038.25	39.90	102.214		
9,600.00	9,594.91	5,487.00	5,485.89	33.64	82.64	165.57	424.78	137.53	4,153.83	4,113.84	39.99	103.883		
9,682.09	9,677.00	5,487.00	5,485.89	33.93	82.64	24.89	424.78	137.53	4,234.95	4,194.89	40.07	105.694		
9,700.00	9,694.91	5,487.00	5,485.89	33.99	82.64	24.89	424.78	137.53	4,252.63	4,212.54	40.08	106.091		
9,800.00	9,794.91	5,487.00	5,485.89	34.33	82.64	24.89	424.78	137.53	4,351.35	4,311.16	40.19	108.270		
9,900.00	9,894.91	5,487.00	5,485.89	34.68	82.64	24.89	424.78	137.53	4,450.13	4,409.82	40.31	110.400		
10,000.00	9,994.91	5,487.00	5,485.89	35.02	82.64	24.89	424.78	137.53	4,548.96	4,508.52	40.44	112.480		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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		
10,032.13	10,027.04	5,487.00	5,485.89	35.13	82.64	24.89	424.78	137.53	4,580.73	4,540.24	40.49	113.138		
10,050.00	10,044.90	5,487.00	5,485.89	35.19	82.64	21.06	424.78	137.53	4,598.36	4,557.84	40.51	113.510		
10,100.00	10,094.75	5,487.00	5,485.89	35.36	82.64	14.24	424.78	137.53	4,647.15	4,606.61	40.55	114.614		
10,150.00	10,144.08	5,487.00	5,485.89	35.53	82.64	10.74	424.78	137.53	4,694.90	4,654.36	40.54	115.802		
10,200.00	10,192.52	5,487.00	5,485.89	35.68	82.64	8.65	424.78	137.53	4,741.28	4,700.78	40.50	117.060		
10,250.00	10,239.69	5,487.00	5,485.89	35.84	82.64	7.27	424.78	137.53	4,785.97	4,745.54	40.43	118.375		
10,300.00	10,285.26	5,487.00	5,485.89	35.98	82.64	6.29	424.78	137.53	4,828.70	4,788.37	40.33	119.733		
10,350.00	10,328.85	5,487.00	5,485.89	36.12	82.64	5.58	424.78	137.53	4,869.18	4,828.98	40.20	121.115		
10,400.00	10,370.15	5,487.00	5,485.89	36.25	82.64	5.04	424.78	137.53	4,907.18	4,867.12	40.06	122.503		
10,450.00	10,408.84	5,487.00	5,485.89	36.37	82.64	4.62	424.78	137.53	4,942.46	4,902.56	39.90	123.876		
10,500.00	10,444.62	5,487.00	5,485.89	36.49	82.64	4.29	424.78	137.53	4,974.81	4,935.08	39.73	125.212		
10,550.00	10,477.22	5,487.00	5,485.89	36.61	82.64	4.03	424.78	137.53	5,004.05	4,964.49	39.56	126.484		
10,600.00	10,506.40	5,487.00	5,485.89	36.73	82.64	3.82	424.78	137.53	5,030.01	4,990.61	39.40	127.668		
10,650.00	10,531.93	5,487.00	5,485.89	36.85	82.64	3.66	424.78	137.53	5,052.55	5,013.30	39.25	128.736		
10,700.00	10,553.61	5,487.00	5,485.89	36.97	82.64	3.53	424.78	137.53	5,071.54	5,032.42	39.11	129.661		
10,750.00	10,571.29	5,487.00	5,485.89	37.10	82.64	3.43	424.78	137.53	5,086.87	5,047.87	39.00	130.417		
10,800.00	10,584.83	5,487.00	5,485.89	37.22	82.64	3.36	424.78	137.53	5,098.47	5,059.54	38.93	130.982		
10,850.00	10,594.12	5,487.00	5,485.89	37.34	82.64	3.31	424.78	137.53	5,106.27	5,067.39	38.88	131.335		
10,900.00	10,599.10	5,487.00	5,485.89	37.47	82.64	3.29	424.78	137.53	5,110.22	5,071.35	38.87	131.462		
10,932.14	10,600.00	5,487.00	5,485.89	37.55	82.64	3.29	424.78	137.53	5,110.73	5,071.84	38.89	131.419		
10,978.88	10,600.00	5,487.00	5,485.89	37.67	82.64	3.29	424.78	137.53	5,110.52	5,071.57	38.95	131.217		
11,000.00	10,600.00	5,487.00	5,485.89	37.73	82.64	3.29	424.78	137.53	5,110.56	5,071.57	38.99	131.090		
11,100.00	10,600.00	5,487.00	5,485.89	38.04	82.64	3.29	424.78	137.53	5,111.95	5,072.66	39.29	130.121		
11,200.00	10,600.00	5,487.00	5,485.89	38.41	82.64	3.29	424.78	137.53	5,115.30	5,075.52	39.77	128.616		
11,300.00	10,600.00	5,487.00	5,485.89	38.83	82.64	3.29	424.78	137.53	5,120.59	5,080.16	40.43	126.641		
11,400.00	10,600.00	5,487.00	5,485.89	39.30	82.64	3.29	424.78	137.53	5,127.84	5,086.58	41.26	124.280		
11,500.00	10,600.00	5,487.00	5,485.89	39.81	82.64	3.29	424.78	137.53	5,137.02	5,094.78	42.24	121.625		
11,600.00	10,600.00	5,487.00	5,485.89	40.37	82.64	3.29	424.78	137.53	5,148.12	5,104.77	43.35	118.764		
11,700.00	10,600.00	5,487.00	5,485.89	40.98	82.64	3.29	424.78	137.53	5,161.14	5,116.56	44.58	115.781		
11,800.00	10,600.00	5,487.00	5,485.89	41.62	82.64	3.29	424.78	137.53	5,176.06	5,130.15	45.91	112.746		
11,900.00	10,600.00	5,487.00	5,485.89	42.31	82.64	3.29	424.78	137.53	5,192.86	5,145.53	47.33	109.718		
12,000.00	10,600.00	5,487.00	5,485.89	43.04	82.64	3.29	424.78	137.53	5,211.53	5,162.71	48.82	106.743		
12,100.00	10,600.00	5,487.00	5,485.89	43.80	82.64	3.29	424.78	137.53	5,232.04	5,181.66	50.38	103.854		
12,200.00	10,600.00	5,487.00	5,485.89	44.60	82.64	3.29	424.78	137.53	5,254.38	5,202.40	51.98	101.077		
12,300.00	10,600.00	5,487.00	5,485.89	45.43	82.64	3.29	424.78	137.53	5,278.52	5,224.89	53.63	98.428		
12,400.00	10,600.00	5,487.00	5,485.89	46.29	82.64	3.29	424.78	137.53	5,304.43	5,249.13	55.30	95.917		
12,500.00	10,600.00	5,487.00	5,485.89	47.17	82.64	3.29	424.78	137.53	5,332.09	5,275.09	57.00	93.549		
12,600.00	10,600.00	5,487.00	5,485.89	48.09	82.64	3.29	424.78	137.53	5,361.47	5,302.77	58.71	91.325		
12,700.00	10,600.00	5,487.00	5,485.89	49.04	82.64	3.29	424.78	137.53	5,392.55	5,332.13	60.42	89.244		
12,800.00	10,600.00	5,487.00	5,485.89	50.00	82.64	3.29	424.78	137.53	5,425.30	5,363.15	62.14	87.302		
12,900.00	10,600.00	5,487.00	5,485.89	50.99	82.64	3.29	424.78	137.53	5,459.68	5,395.82	63.86	85.495		
13,000.00	10,600.00	5,487.00	5,485.89	52.01	82.64	3.29	424.78	137.53	5,495.66	5,430.09	65.57	83.816		
13,100.00	10,600.00	5,487.00	5,485.89	53.04	82.64	3.29	424.78	137.53	5,533.22	5,465.96	67.26	82.261		
13,200.00	10,600.00	5,487.00	5,485.89	54.09	82.64	3.29	424.78	137.53	5,572.32	5,503.37	68.95	80.821		
13,300.00	10,600.00	5,487.00	5,485.89	55.16	82.64	3.29	424.78	137.53	5,612.93	5,542.32	70.61	79.492		
13,400.00	10,600.00	5,487.00	5,485.89	56.25	82.64	3.29	424.78	137.53	5,655.01	5,582.76	72.25	78.267		
13,500.00	10,600.00	5,487.00	5,485.89	57.36	82.64	3.29	424.78	137.53	5,698.55	5,624.67	73.87	77.140		
13,600.00	10,600.00	5,487.00	5,485.89	58.48	82.64	3.29	424.78	137.53	5,743.49	5,668.02	75.47	76.104		
13,700.00	10,600.00	5,487.00	5,485.89	59.61	82.64	3.29	424.78	137.53	5,789.81	5,712.77	77.04	75.154		
13,800.00	10,600.00	5,487.00	5,485.89	60.76	82.64	3.29	424.78	137.53	5,837.47	5,758.89	78.58	74.286		
13,900.00	10,600.00	5,487.00	5,485.89	61.92	82.64	3.29	424.78	137.53	5,886.45	5,806.36	80.10	73.493		
14,000.00	10,600.00	5,487.00	5,485.89	63.10	82.64	3.29	424.78	137.53	5,936.71	5,855.13	81.58	72.772		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - State 35 1 (P&A'd) - 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	
14,100.00	10,600.00	5,487.00	5,485.89	64.28	82.64	3.29	424.78	137.53	5,988.22	5,905.18	83.03	72.117	
14,200.00	10,600.00	5,487.00	5,485.89	65.48	82.64	3.29	424.78	137.53	6,040.94	5,956.48	84.46	71.525	
14,300.00	10,600.00	5,487.00	5,485.89	66.68	82.64	3.29	424.78	137.53	6,094.85	6,009.00	85.85	70.992	
14,400.00	10,600.00	5,487.00	5,485.89	67.90	82.64	3.29	424.78	137.53	6,149.91	6,062.70	87.22	70.514	
14,500.00	10,600.00	5,487.00	5,485.89	69.13	82.64	3.29	424.78	137.53	6,206.10	6,117.55	88.55	70.088	
14,600.00	10,600.00	5,487.00	5,485.89	70.36	82.64	3.29	424.78	137.53	6,263.38	6,173.53	89.85	69.710	
14,700.00	10,600.00	5,487.00	5,485.89	71.60	82.64	3.29	424.78	137.53	6,321.72	6,230.60	91.12	69.379	
14,800.00	10,600.00	5,487.00	5,485.89	72.85	82.64	3.29	424.78	137.53	6,381.09	6,288.73	92.36	69.091	
14,900.00	10,600.00	5,487.00	5,485.89	74.11	82.64	3.29	424.78	137.53	6,441.47	6,347.90	93.57	68.843	
15,000.00	10,600.00	5,487.00	5,485.89	75.38	82.64	3.29	424.78	137.53	6,502.83	6,408.08	94.75	68.634	
15,100.00	10,600.00	5,487.00	5,485.89	76.65	82.64	3.29	424.78	137.53	6,565.14	6,469.24	95.90	68.461	
15,200.00	10,600.00	5,487.00	5,485.89	77.93	82.64	3.29	424.78	137.53	6,628.37	6,531.35	97.02	68.321	
15,300.00	10,600.00	5,487.00	5,485.89	79.21	82.64	3.29	424.78	137.53	6,692.49	6,594.38	98.11	68.215	
15,400.00	10,600.00	5,487.00	5,485.89	80.50	82.64	3.29	424.78	137.53	6,757.49	6,658.32	99.17	68.138	
15,500.00	10,600.00	5,487.00	5,485.89	81.80	82.64	3.29	424.78	137.53	6,823.33	6,723.12	100.21	68.090	
15,575.11	10,600.00	5,487.00	5,485.89	82.77	82.64	3.29	424.78	137.53	6,873.33	6,772.36	100.97	68.073	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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	52.86	3,086.54	4,075.61	5,112.55					
100.00	100.00	71.20	71.20	0.52	1.04	52.86	3,086.54	4,075.61	5,112.47	5,110.91	1.56	3,273.568		
200.00	200.00	171.20	171.20	0.70	2.47	52.86	3,086.54	4,075.61	5,112.47	5,109.30	3.17	1,614.141		
300.00	300.00	271.20	271.20	0.99	3.94	52.86	3,086.54	4,075.61	5,112.47	5,107.54	4.93	1,036.883		
400.00	400.00	371.20	371.20	1.31	5.43	52.86	3,086.54	4,075.61	5,112.47	5,105.73	6.74	758.403		
500.00	500.00	471.20	471.20	1.65	6.92	52.86	3,086.54	4,075.61	5,112.47	5,103.90	8.57	596.512		
600.00	600.00	571.20	571.20	1.99	8.42	52.86	3,086.54	4,075.61	5,112.47	5,102.06	10.41	491.140		
700.00	700.00	671.20	671.20	2.34	9.91	52.86	3,086.54	4,075.61	5,112.47	5,100.22	12.25	417.230		
800.00	800.00	771.20	771.20	2.69	11.41	52.86	3,086.54	4,075.61	5,112.47	5,098.37	14.10	362.574		
900.00	900.00	871.20	871.20	3.04	12.91	52.86	3,086.54	4,075.61	5,112.47	5,096.52	15.95	320.538		
1,000.00	1,000.00	971.20	971.20	3.40	14.40	52.86	3,086.54	4,075.61	5,112.47	5,094.67	17.80	287.213		
1,100.00	1,100.00	1,071.20	1,071.20	3.75	15.90	52.86	3,086.54	4,075.61	5,112.47	5,092.82	19.65	260.152		
1,200.00	1,200.00	1,171.20	1,171.20	4.11	17.40	52.86	3,086.54	4,075.61	5,112.47	5,090.97	21.50	237.743		
1,300.00	1,300.00	1,271.20	1,271.20	4.46	18.89	52.86	3,086.54	4,075.61	5,112.47	5,089.11	23.36	218.882		
1,400.00	1,400.00	1,371.20	1,371.20	4.82	20.39	52.86	3,086.54	4,075.61	5,112.47	5,087.26	25.21	202.791		
1,500.00	1,500.00	1,471.20	1,471.20	5.18	21.89	52.86	3,086.54	4,075.61	5,112.47	5,085.41	27.06	188.901		
1,600.00	1,600.00	1,571.20	1,571.20	5.53	23.38	52.86	3,086.54	4,075.61	5,112.47	5,083.55	28.92	176.790		
1,700.00	1,700.00	1,671.20	1,671.20	5.89	24.88	52.86	3,086.54	4,075.61	5,112.47	5,081.70	30.77	166.137		
1,800.00	1,800.00	1,771.20	1,771.20	6.25	26.38	52.86	3,086.54	4,075.61	5,112.47	5,079.84	32.63	156.694		
1,900.00	1,900.00	1,871.20	1,871.20	6.61	27.88	52.86	3,086.54	4,075.61	5,112.47	5,077.99	34.48	148.266		
2,000.00	2,000.00	1,971.20	1,971.20	6.96	29.37	52.86	3,086.54	4,075.61	5,112.47	5,076.13	36.34	140.698		
2,100.00	2,100.00	2,071.20	2,071.20	7.32	30.87	52.86	3,086.54	4,075.61	5,112.47	5,074.28	38.19	133.865		
2,200.00	2,200.00	2,171.20	2,171.20	7.68	32.37	52.86	3,086.54	4,075.61	5,112.47	5,072.42	40.05	127.664		
2,300.00	2,300.00	2,271.20	2,271.20	8.04	33.87	52.86	3,086.54	4,075.61	5,112.47	5,070.57	41.90	122.012		
2,400.00	2,400.00	2,371.20	2,371.20	8.39	35.36	52.86	3,086.54	4,075.61	5,112.47	5,068.71	43.76	116.839		
2,500.00	2,500.00	2,471.20	2,471.20	8.75	36.86	52.86	3,086.54	4,075.61	5,112.47	5,066.86	45.61	112.087		
2,600.00	2,600.00	2,571.20	2,571.20	9.11	38.36	52.86	3,086.54	4,075.61	5,112.47	5,065.00	47.47	107.706		
2,700.00	2,700.00	2,671.20	2,671.20	9.47	39.86	52.86	3,086.54	4,075.61	5,112.47	5,063.15	49.32	103.654		
2,800.00	2,800.00	2,771.20	2,771.20	9.83	41.35	52.86	3,086.54	4,075.61	5,112.47	5,061.29	51.18	99.896		
2,900.00	2,900.00	2,871.20	2,871.20	10.18	42.85	52.86	3,086.54	4,075.61	5,112.47	5,059.44	53.03	96.401		
3,000.00	3,000.00	2,971.20	2,971.20	10.54	44.35	52.86	3,086.54	4,075.61	5,112.47	5,057.58	54.89	93.143		
3,100.00	3,100.00	3,071.20	3,071.20	10.90	45.84	52.86	3,086.54	4,075.61	5,112.47	5,055.73	56.74	90.097		
3,200.00	3,200.00	3,171.20	3,171.20	11.26	47.34	52.86	3,086.54	4,075.61	5,112.47	5,053.87	58.60	87.244		
3,300.00	3,300.00	3,271.20	3,271.20	11.62	48.84	52.86	3,086.54	4,075.61	5,112.47	5,052.02	60.46	84.566		
3,400.00	3,400.00	3,371.20	3,371.20	11.97	50.34	52.86	3,086.54	4,075.61	5,112.47	5,050.16	62.31	82.048		
3,500.00	3,500.00	3,471.20	3,471.20	12.33	51.83	52.86	3,086.54	4,075.61	5,112.47	5,048.30	64.17	79.675		
3,600.00	3,600.00	3,571.20	3,571.20	12.67	53.33	-164.61	3,086.54	4,075.61	5,113.31	5,047.31	66.01	77.468		
3,700.00	3,699.96	3,671.16	3,671.16	13.00	54.83	-164.61	3,086.54	4,075.61	5,115.84	5,048.01	67.83	75.423		
3,737.73	3,737.66	3,708.86	3,708.86	13.13	55.39	-164.61	3,086.54	4,075.61	5,117.23	5,048.71	68.52	74.686		
3,800.00	3,799.88	3,771.08	3,771.08	13.33	56.33	-164.62	3,086.54	4,075.61	5,119.72	5,050.06	69.65	73.504		
3,900.00	3,899.79	3,870.99	3,870.99	13.66	57.82	-164.63	3,086.54	4,075.61	5,123.72	5,052.24	71.48	71.682		
4,000.00	3,999.71	3,970.91	3,970.91	13.99	59.32	-164.64	3,086.54	4,075.61	5,127.72	5,054.41	73.30	69.951		
4,100.00	4,099.62	4,070.82	4,070.82	14.32	60.81	-164.65	3,086.54	4,075.61	5,131.72	5,056.58	75.13	68.302		
4,200.00	4,199.53	4,170.73	4,170.73	14.66	62.31	-164.67	3,086.54	4,075.61	5,135.72	5,058.75	76.96	66.730		
4,300.00	4,299.45	4,270.65	4,270.65	15.00	63.81	-164.68	3,086.54	4,075.61	5,139.72	5,060.92	78.79	65.230		
4,400.00	4,399.36	4,370.56	4,370.56	15.33	65.30	-164.69	3,086.54	4,075.61	5,143.72	5,063.09	80.63	63.798		
4,500.00	4,499.28	4,470.48	4,470.48	15.67	66.80	-164.70	3,086.54	4,075.61	5,147.72	5,065.26	82.46	62.428		
4,600.00	4,599.19	4,570.39	4,570.39	16.01	68.29	-164.72	3,086.54	4,075.61	5,151.72	5,067.43	84.29	61.117		
4,700.00	4,699.10	4,670.30	4,670.30	16.35	69.79	-164.73	3,086.54	4,075.61	5,155.72	5,069.59	86.13	59.861		
4,800.00	4,799.02	4,770.22	4,770.22	16.69	71.29	-164.74	3,086.54	4,075.61	5,159.72	5,071.76	87.96	58.658		
4,900.00	4,898.93	4,870.13	4,870.13	17.04	72.78	-164.75	3,086.54	4,075.61	5,163.73	5,073.92	89.80	57.502		
5,000.00	4,998.85	4,970.05	4,970.05	17.38	74.28	-164.76	3,086.54	4,075.61	5,167.73	5,076.09	91.64	56.393		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 35-23S-33E - Tophat AJQ 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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,098.76	5,069.96	5,069.96	17.72	75.78	-164.78	3,086.54	4,075.61	5,171.73	5,078.25	93.48	55.327					
5,200.00	5,198.67	5,169.87	5,169.87	18.07	77.27	-164.79	3,086.54	4,075.61	5,175.73	5,080.42	95.31	54.301					
5,300.00	5,298.59	5,269.79	5,269.79	18.41	78.77	-164.80	3,086.54	4,075.61	5,179.74	5,082.58	97.15	53.314					
5,400.00	5,398.50	5,369.70	5,369.70	18.76	80.26	-164.81	3,086.54	4,075.61	5,183.74	5,084.74	98.99	52.364					
5,500.00	5,498.42	5,469.62	5,469.62	19.11	81.76	-164.82	3,086.54	4,075.61	5,187.74	5,086.91	100.84	51.448					
5,600.00	5,598.33	5,569.53	5,569.53	19.45	83.26	-164.84	3,086.54	4,075.61	5,191.75	5,089.07	102.68	50.564					
5,700.00	5,698.24	5,669.44	5,669.44	19.80	84.75	-164.85	3,086.54	4,075.61	5,195.75	5,091.23	104.52	49.711					
5,800.00	5,798.16	5,769.36	5,769.36	20.15	86.25	-164.86	3,086.54	4,075.61	5,199.75	5,093.39	106.36	48.888					
5,900.00	5,898.07	5,869.27	5,869.27	20.50	87.75	-164.87	3,086.54	4,075.61	5,203.76	5,095.55	108.20	48.092					
6,000.00	5,997.98	5,969.18	5,969.18	20.85	89.24	-164.88	3,086.54	4,075.61	5,207.76	5,097.72	110.05	47.323					
6,100.00	6,097.90	6,069.10	6,069.10	21.20	90.74	-164.90	3,086.54	4,075.61	5,211.77	5,099.88	111.89	46.579					
6,200.00	6,197.81	6,169.01	6,169.01	21.55	92.23	-164.91	3,086.54	4,075.61	5,215.77	5,102.04	113.74	45.859					
6,300.00	6,297.73	6,268.93	6,268.93	21.90	93.73	-164.92	3,086.54	4,075.61	5,219.78	5,104.20	115.58	45.162					
6,400.00	6,397.64	6,368.84	6,368.84	22.25	95.23	-164.93	3,086.54	4,075.61	5,223.78	5,106.36	117.42	44.486					
6,500.00	6,497.55	6,468.75	6,468.75	22.61	96.72	-164.94	3,086.54	4,075.61	5,227.79	5,108.52	119.27	43.832					
6,600.00	6,597.47	6,568.67	6,568.67	22.96	98.22	-164.95	3,086.54	4,075.61	5,231.79	5,110.68	121.12	43.197					
6,700.00	6,697.38	6,668.58	6,668.58	23.31	99.72	-164.97	3,086.54	4,075.61	5,235.80	5,112.84	122.96	42.581					
6,800.00	6,797.30	6,768.50	6,768.50	23.66	101.21	-164.98	3,086.54	4,075.61	5,239.81	5,115.00	124.81	41.983					
6,900.00	6,897.21	6,868.41	6,868.41	24.02	102.71	-164.99	3,086.54	4,075.61	5,243.81	5,117.16	126.65	41.403					
7,000.00	6,997.12	6,968.32	6,968.32	24.37	104.20	-165.00	3,086.54	4,075.61	5,247.82	5,119.32	128.50	40.839					
7,100.00	7,097.04	7,068.24	7,068.24	24.73	105.70	-165.01	3,086.54	4,075.61	5,251.83	5,121.48	130.35	40.291					
7,200.00	7,196.95	7,168.15	7,168.15	25.08	107.20	-165.02	3,086.54	4,075.61	5,255.83	5,123.64	132.20	39.758					
7,300.00	7,296.87	7,268.07	7,268.07	25.43	108.69	-165.04	3,086.54	4,075.61	5,259.84	5,125.80	134.04	39.240					
7,400.00	7,396.78	7,367.98	7,367.98	25.79	110.19	-165.05	3,086.54	4,075.61	5,263.85	5,127.96	135.89	38.736					
7,500.00	7,496.69	7,467.89	7,467.89	26.14	111.68	-165.06	3,086.54	4,075.61	5,267.86	5,130.12	137.74	38.245					
7,600.00	7,596.61	7,567.81	7,567.81	26.50	113.18	-165.07	3,086.54	4,075.61	5,271.87	5,132.28	139.59	37.767					
7,700.00	7,696.52	7,667.72	7,667.72	26.86	114.68	-165.08	3,086.54	4,075.61	5,275.87	5,134.44	141.44	37.302					
7,800.00	7,796.44	7,767.64	7,767.64	27.21	116.17	-165.09	3,086.54	4,075.61	5,279.88	5,136.60	143.28	36.849					
7,900.00	7,896.35	7,867.55	7,867.55	27.57	117.67	-165.11	3,086.54	4,075.61	5,283.89	5,138.76	145.13	36.407					
8,000.00	7,996.26	7,967.46	7,967.46	27.92	119.17	-165.12	3,086.54	4,075.61	5,287.90	5,140.92	146.98	35.976					
8,100.00	8,096.18	8,067.38	8,067.38	28.28	120.66	-165.13	3,086.54	4,075.61	5,291.91	5,143.08	148.83	35.556					
8,200.00	8,196.09	8,167.29	8,167.29	28.64	122.16	-165.14	3,086.54	4,075.61	5,295.92	5,145.24	150.68	35.146					
8,300.00	8,296.01	8,267.21	8,267.21	28.99	123.65	-165.15	3,086.54	4,075.61	5,299.93	5,147.40	152.53	34.747					
8,400.00	8,395.92	8,367.12	8,367.12	29.35	125.15	-165.16	3,086.54	4,075.61	5,303.94	5,149.56	154.38	34.356					
8,500.00	8,495.83	8,467.03	8,467.03	29.71	126.65	-165.18	3,086.54	4,075.61	5,307.95	5,151.72	156.23	33.975					
8,600.00	8,595.75	8,566.95	8,566.95	30.06	128.14	-165.19	3,086.54	4,075.61	5,311.96	5,153.88	158.08	33.603					
8,700.00	8,695.66	8,666.86	8,666.86	30.42	129.64	-165.20	3,086.54	4,075.61	5,315.97	5,156.04	159.93	33.239					
8,800.00	8,795.58	8,766.78	8,766.78	30.78	131.14	-165.21	3,086.54	4,075.61	5,319.98	5,158.20	161.78	32.884					
8,900.00	8,895.49	8,866.69	8,866.69	31.14	132.63	-165.22	3,086.54	4,075.61	5,323.99	5,160.36	163.63	32.536					
9,000.00	8,995.40	8,966.60	8,966.60	31.50	134.13	-165.23	3,086.54	4,075.61	5,328.00	5,162.52	165.48	32.197					
9,100.00	9,095.32	9,066.52	9,066.52	31.85	135.62	-165.24	3,086.54	4,075.61	5,332.01	5,164.68	167.33	31.865					
9,200.00	9,195.23	9,166.43	9,166.43	32.21	137.12	-165.26	3,086.54	4,075.61	5,336.02	5,166.84	169.18	31.540					
9,300.00	9,295.14	9,266.34	9,266.34	32.57	138.62	-165.27	3,086.54	4,075.61	5,340.04	5,169.00	171.03	31.222					
9,400.00	9,395.06	9,366.26	9,366.26	32.93	140.11	-165.28	3,086.54	4,075.61	5,344.05	5,171.16	172.89	30.911					
9,500.00	9,494.97	9,466.17	9,466.17	33.29	141.61	-165.29	3,086.54	4,075.61	5,348.06	5,173.32	174.74	30.606					
9,523.61	9,518.56	10,508.21	9,489.76	33.37	167.40	-165.29	3,086.54	4,075.61	5,349.01	5,148.40	200.61	26.664					
9,600.00	9,594.91	10,431.86	9,566.11	33.64	164.72	-165.31	3,086.54	4,075.61	5,351.33	5,153.13	198.21	26.999					
9,682.09	9,677.00	10,349.77	9,648.20	33.93	161.85	52.16	3,086.54	4,075.61	5,352.19	5,156.57	195.62	27.360					
9,700.00	9,694.91	10,331.86	9,666.11	33.99	161.22	52.16	3,086.54	4,075.61	5,352.19	5,157.13	195.05	27.440					
9,800.00	9,794.91	10,231.86	9,766.11	34.33	157.72	52.16	3,086.54	4,075.61	5,352.19	5,160.29	191.90	27.891					
9,900.00	9,894.91	10,131.86	9,866.11	34.68	154.22	52.16	3,086.54	4,075.61	5,352.19	5,163.45	188.74	28.358					
10,000.00	9,994.91	10,031.86	9,966.11	35.02	150.72	52.16	3,086.54	4,075.61	5,352.19	5,166.60	185.58	28.840					

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	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		
10,032.13	10,027.04	10,000.27	9,998.24	35.13	149.61	52.16	3,086.54	4,075.61	5,352.19	5,167.60	184.59	28.995		
10,050.00	10,044.90	10,018.13	10,016.10	35.19	150.24	52.58	3,086.54	4,075.61	5,352.02	5,166.74	185.27	28.887		
10,100.00	10,094.75	10,067.98	10,065.95	35.36	151.98	52.79	3,086.54	4,075.61	5,349.75	5,162.56	187.19	28.579		
10,150.00	10,144.08	10,117.31	10,115.28	35.53	153.71	53.26	3,086.54	4,075.61	5,344.85	5,155.77	189.08	28.267		
10,200.00	10,192.52	10,165.74	10,163.72	35.68	155.41	53.97	3,086.54	4,075.61	5,337.38	5,146.44	190.94	27.953		
10,250.00	10,239.69	10,212.92	10,210.89	35.84	157.06	54.94	3,086.54	4,075.61	5,327.41	5,134.66	192.75	27.639		
10,300.00	10,285.26	10,258.48	10,256.46	35.98	158.65	56.16	3,086.54	4,075.61	5,315.04	5,120.55	194.49	27.328		
10,350.00	10,328.85	10,302.08	10,300.05	36.12	160.18	57.65	3,086.54	4,075.61	5,300.39	5,104.23	196.16	27.021		
10,400.00	10,370.15	10,343.38	10,341.35	36.25	161.62	59.39	3,086.54	4,075.61	5,283.61	5,085.87	197.74	26.720		
10,450.00	10,408.84	10,382.06	10,380.04	36.37	162.98	61.40	3,086.54	4,075.61	5,264.87	5,065.65	199.22	26.427		
10,500.00	10,444.62	10,417.85	10,415.82	36.49	164.23	63.66	3,086.54	4,075.61	5,244.35	5,043.75	200.60	26.144		
10,550.00	10,477.22	10,450.45	10,448.42	36.61	165.37	66.17	3,086.54	4,075.61	5,222.24	5,020.38	201.85	25.871		
10,600.00	10,506.40	10,479.63	10,477.60	36.73	166.39	68.90	3,086.54	4,075.61	5,198.76	4,995.77	202.99	25.611		
10,650.00	10,531.93	10,505.16	10,503.13	36.85	167.29	71.83	3,086.54	4,075.61	5,174.13	4,970.14	203.99	25.365		
10,700.00	10,553.61	10,526.84	10,524.81	36.97	168.05	74.92	3,086.54	4,075.61	5,148.57	4,943.72	204.86	25.133		
10,750.00	10,571.29	10,544.52	10,542.49	37.10	168.67	78.12	3,086.54	4,075.61	5,122.33	4,916.75	205.58	24.917		
10,800.00	10,584.83	10,558.06	10,556.03	37.22	169.14	81.40	3,086.54	4,075.61	5,095.63	4,889.47	206.16	24.717		
10,850.00	10,594.12	10,567.35	10,565.32	37.34	169.47	84.70	3,086.54	4,075.61	5,068.69	4,862.11	206.59	24.535		
10,900.00	10,599.10	10,572.33	10,570.30	37.47	169.64	87.95	3,086.54	4,075.61	5,041.76	4,834.90	206.87	24.372		
10,932.14	10,600.00	10,573.23	10,571.20	37.55	169.67	90.00	3,086.54	4,075.61	5,024.56	4,817.59	206.97	24.277		
11,000.00	10,600.00	10,573.23	10,571.20	37.73	169.67	90.00	3,086.54	4,075.61	4,988.69	4,781.56	207.12	24.086		
11,100.00	10,600.00	10,573.23	10,571.20	38.04	169.67	90.00	3,086.54	4,075.61	4,937.05	4,729.66	207.39	23.806		
11,200.00	10,600.00	10,573.23	10,571.20	38.41	169.67	90.00	3,086.54	4,075.61	4,886.92	4,679.21	207.71	23.528		
11,300.00	10,600.00	10,573.23	10,571.20	38.83	169.67	90.00	3,086.54	4,075.61	4,838.34	4,630.26	208.07	23.253		
11,400.00	10,600.00	10,573.23	10,571.20	39.30	169.67	90.00	3,086.54	4,075.61	4,791.35	4,582.85	208.49	22.981		
11,500.00	10,600.00	10,573.23	10,571.20	39.81	169.67	90.00	3,086.54	4,075.61	4,746.00	4,537.04	208.96	22.712		
11,600.00	10,600.00	10,573.23	10,571.20	40.37	169.67	90.00	3,086.54	4,075.61	4,702.34	4,492.86	209.49	22.447		
11,700.00	10,600.00	10,573.23	10,571.20	40.98	169.67	90.00	3,086.54	4,075.61	4,660.42	4,450.36	210.06	22.186		
11,800.00	10,600.00	10,573.23	10,571.20	41.62	169.67	90.00	3,086.54	4,075.61	4,620.28	4,409.60	210.68	21.930		
11,900.00	10,600.00	10,573.23	10,571.20	42.31	169.67	90.00	3,086.54	4,075.61	4,581.98	4,370.62	211.36	21.679		
12,000.00	10,600.00	10,573.23	10,571.20	43.04	169.67	90.00	3,086.54	4,075.61	4,545.55	4,333.47	212.08	21.433		
12,100.00	10,600.00	10,573.23	10,571.20	43.80	169.67	90.00	3,086.54	4,075.61	4,511.05	4,298.19	212.85	21.193		
12,200.00	10,600.00	10,573.23	10,571.20	44.60	169.67	90.00	3,086.54	4,075.61	4,478.51	4,264.84	213.67	20.960		
12,300.00	10,600.00	10,573.23	10,571.20	45.43	169.67	90.00	3,086.54	4,075.61	4,447.98	4,233.46	214.53	20.734		
12,400.00	10,600.00	10,573.23	10,571.20	46.29	169.67	90.00	3,086.54	4,075.61	4,419.51	4,204.08	215.43	20.515		
12,500.00	10,600.00	10,573.23	10,571.20	47.17	169.67	90.00	3,086.54	4,075.61	4,393.13	4,176.77	216.36	20.305		
12,600.00	10,600.00	10,573.23	10,571.20	48.09	169.67	90.00	3,086.54	4,075.61	4,368.88	4,151.54	217.33	20.102		
12,700.00	10,600.00	10,573.23	10,571.20	49.04	169.67	90.00	3,086.54	4,075.61	4,346.79	4,128.46	218.33	19.909		
12,800.00	10,600.00	10,573.23	10,571.20	50.00	169.67	90.00	3,086.54	4,075.61	4,326.90	4,107.54	219.36	19.725		
12,900.00	10,600.00	10,573.23	10,571.20	50.99	169.67	90.00	3,086.54	4,075.61	4,309.25	4,088.83	220.41	19.551		
13,000.00	10,600.00	10,573.23	10,571.20	52.01	169.67	90.00	3,086.54	4,075.61	4,293.85	4,072.36	221.49	19.387		
13,100.00	10,600.00	10,573.23	10,571.20	53.04	169.67	90.00	3,086.54	4,075.61	4,280.73	4,058.15	222.58	19.233		
13,200.00	10,600.00	10,573.23	10,571.20	54.09	169.67	90.00	3,086.54	4,075.61	4,269.91	4,046.23	223.68	19.090		
13,300.00	10,600.00	10,573.23	10,571.20	55.16	169.67	90.00	3,086.54	4,075.61	4,261.41	4,036.62	224.79	18.957		
13,400.00	10,600.00	10,573.23	10,571.20	56.25	169.67	90.00	3,086.54	4,075.61	4,255.25	4,029.34	225.91	18.836		
13,500.00	10,600.00	10,573.23	10,571.20	57.36	169.67	90.00	3,086.54	4,075.61	4,251.43	4,024.40	227.02	18.727		
13,600.00	10,600.00	10,573.23	10,571.20	58.48	169.67	90.00	3,086.54	4,075.61	4,249.96	4,021.82	228.14	18.629		
13,612.47	10,600.00	10,573.23	10,571.20	58.62	169.67	90.00	3,086.54	4,075.61	4,249.94	4,021.66	228.28	18.617 CC		
13,700.00	10,600.00	10,573.23	10,571.20	59.61	169.67	90.00	3,086.54	4,075.61	4,250.84	4,021.59	229.25	18.542 ES		
13,800.00	10,600.00	10,573.23	10,571.20	60.76	169.67	90.00	3,086.54	4,075.61	4,254.08	4,023.72	230.36	18.467		
13,900.00	10,600.00	10,573.23	10,571.20	61.92	169.67	90.00	3,086.54	4,075.61	4,259.66	4,028.21	231.45	18.404		
14,000.00	10,600.00	10,573.23	10,571.20	63.10	169.67	90.00	3,086.54	4,075.61	4,267.57	4,035.05	232.52	18.353		

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 35-23S-33E - Tophat AJQ 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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	10,600.00	10,573.23	10,571.20	64.28	169.67	90.00	3,086.54	4,075.61	4,277.81	4,044.23	233.59	18.314	
14,200.00	10,600.00	10,573.23	10,571.20	65.48	169.67	90.00	3,086.54	4,075.61	4,290.36	4,055.73	234.63	18.286	
14,300.00	10,600.00	10,573.23	10,571.20	66.68	169.67	90.00	3,086.54	4,075.61	4,305.19	4,069.55	235.65	18.270	
14,400.00	10,600.00	10,573.23	10,571.20	67.90	169.67	90.00	3,086.54	4,075.61	4,322.29	4,085.65	236.64	18.265 SF	
14,500.00	10,600.00	10,573.23	10,571.20	69.13	169.67	90.00	3,086.54	4,075.61	4,341.62	4,104.01	237.61	18.272	
14,600.00	10,600.00	10,573.23	10,571.20	70.36	169.67	90.00	3,086.54	4,075.61	4,363.17	4,124.61	238.55	18.290	
14,700.00	10,600.00	10,573.23	10,571.20	71.60	169.67	90.00	3,086.54	4,075.61	4,386.88	4,147.41	239.47	18.319	
14,800.00	10,600.00	10,573.23	10,571.20	72.85	169.67	90.00	3,086.54	4,075.61	4,412.73	4,172.38	240.35	18.359	
14,900.00	10,600.00	10,573.23	10,571.20	74.11	169.67	90.00	3,086.54	4,075.61	4,440.69	4,199.48	241.21	18.410	
15,000.00	10,600.00	10,573.23	10,571.20	75.38	169.67	90.00	3,086.54	4,075.61	4,470.71	4,228.68	242.03	18.472	
15,100.00	10,600.00	10,573.23	10,571.20	76.65	169.67	90.00	3,086.54	4,075.61	4,502.75	4,259.93	242.82	18.543	
15,200.00	10,600.00	10,573.23	10,571.20	77.93	169.67	90.00	3,086.54	4,075.61	4,536.77	4,293.18	243.58	18.625	
15,300.00	10,600.00	10,573.23	10,571.20	79.21	169.67	90.00	3,086.54	4,075.61	4,572.72	4,328.41	244.31	18.717	
15,400.00	10,600.00	10,573.23	10,571.20	80.50	169.67	90.00	3,086.54	4,075.61	4,610.56	4,365.55	245.01	18.818	
15,500.00	10,600.00	10,573.23	10,571.20	81.80	169.67	90.00	3,086.54	4,075.61	4,650.24	4,404.57	245.67	18.928	
15,575.11	10,600.00	10,573.23	10,571.20	82.77	169.67	90.00	3,086.54	4,075.61	4,681.23	4,435.08	246.15	19.017	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3682.80ft

Offset Depths are relative to Offset Datum

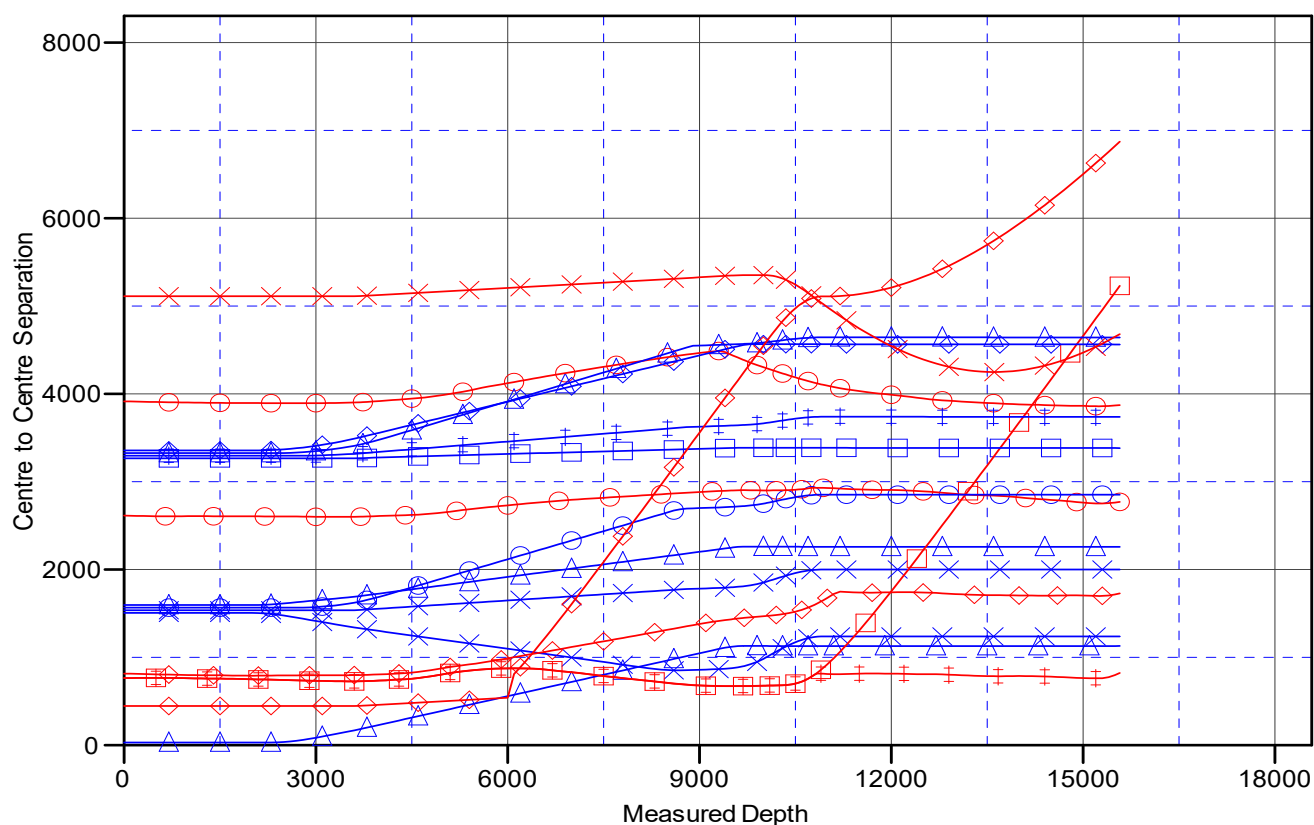
Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 16H

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

Grid Convergence at Surface is: 0.42°

Ladder Plot



LEGEND

Sea Snake 35 State 14H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 2H, Original Hole, Actual V0	Sea Snake 35-26 State Fed Com 19H, Wellbore #1, Permit Plan 1 V0
Sea Snake 35 State 15H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 3H, Original Hole, Original Hole V0	Sea Snake 35-26 State Fed Com 20H, Wellbore #1, Permit Plan 1 V0
Sea Snake 35 State 17H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 4H, Original Hole, Original Hole V0	State 35 1 (P&Ad), Wellbore #1, Wellbore #1 V0
Sea Snake 35 State 18H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 11H, Wellbore #1, Permit Plan 1 V0	Tophat A/Q State #001 (Active), Wellbore #1, Wellbore #1 V0
Sea Snake 35 State 1H, Original Hole, Actuals V0	Sea Snake 35-26 State Fed Com 12H, Wellbore #1, Permit Plan 1 V0	
Sea Snake 35 State 1H, Pilot Hole, Actuals V0	Sea Snake 35-26 State Fed Com 13H, Wellbore #1, Permit Plan 1 V0	

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

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 16H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3682.80ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3682.80ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM r5000.141_Prod US
Reference Design:	Permit Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3682.80ft

Offset Depths are relative to Offset Datum

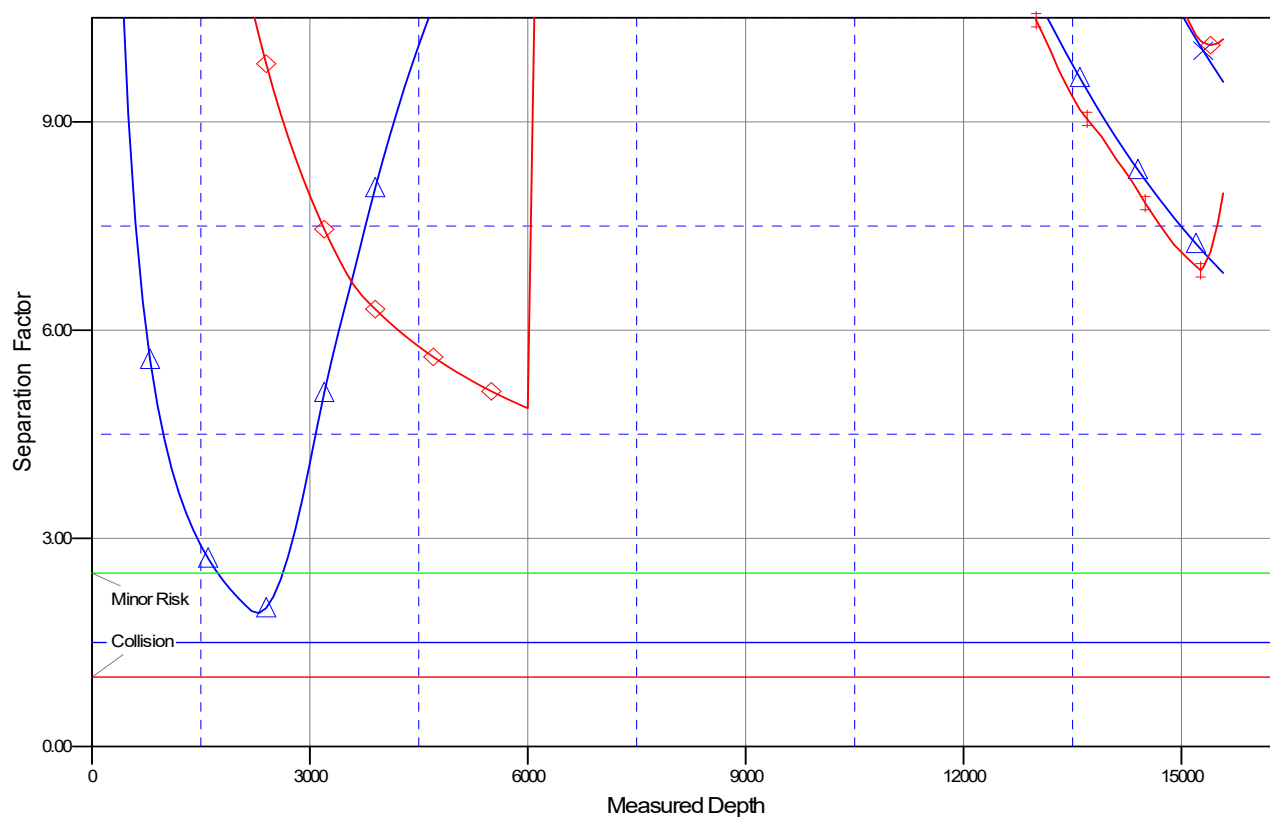
Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 16H

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

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

Sea Snake 35 State 14H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 2H, Original Hole, Actual V0	Sea Snake 35-26 State Fed Com 19H, Wellbore #1, Permit Plan 1 V0
Sea Snake 35 State 15H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 3H, Original Hole, Original Hole V0	Sea Snake 35-26 State Fed Com 20H, Wellbore #1, Permit Plan 1 V0
Sea Snake 35 State 17H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35 State 4H, Original Hole, Original Hole V0	State 35-1 (P&A'd), Wellbore #1, Wellbore #1 V0
Sea Snake 35 State 18H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 11H, Wellbore #1, Permit Plan 1 V0	Tophat A/Q State #001 (Active), Wellbore #1, Wellbore #1 V0
Sea Snake 35 State 1H, Original Hole, Actual V0	Sea Snake 35-26 State Fed Com 12H, Wellbore #1, Permit Plan 1 V0	
Sea Snake 35 State 1H, Pilot Hole, Actual V0	Sea Snake 35-26 State Fed Com 13H, Wellbore #1, Permit Plan 1 V0	