

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 277366

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 30-025-46793
4. Property Code 40329	5. Property Name SEA SNAKE 35 STATE	6. Well No. 018H

7. Surface Location

UL - Lot N	Section 35	Township 23S	Range 33E	Lot Idn N	Feet From 199	N/S Line S	Feet From 2127	E/W Line W	County Lea

8. Proposed Bottom Hole Location

UL - Lot C	Section 35	Township 23S	Range 33E	Lot Idn C	Feet From 20	N/S Line N	Feet From 2638	E/W Line W	County Lea

9. Pool Information

TRIPLE X;BONE SPRING	59900

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3664
16. Multiple N	17. Proposed Depth 15484	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	15484	1501	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@dvn.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: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 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 18H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3664.0'

Surface Location

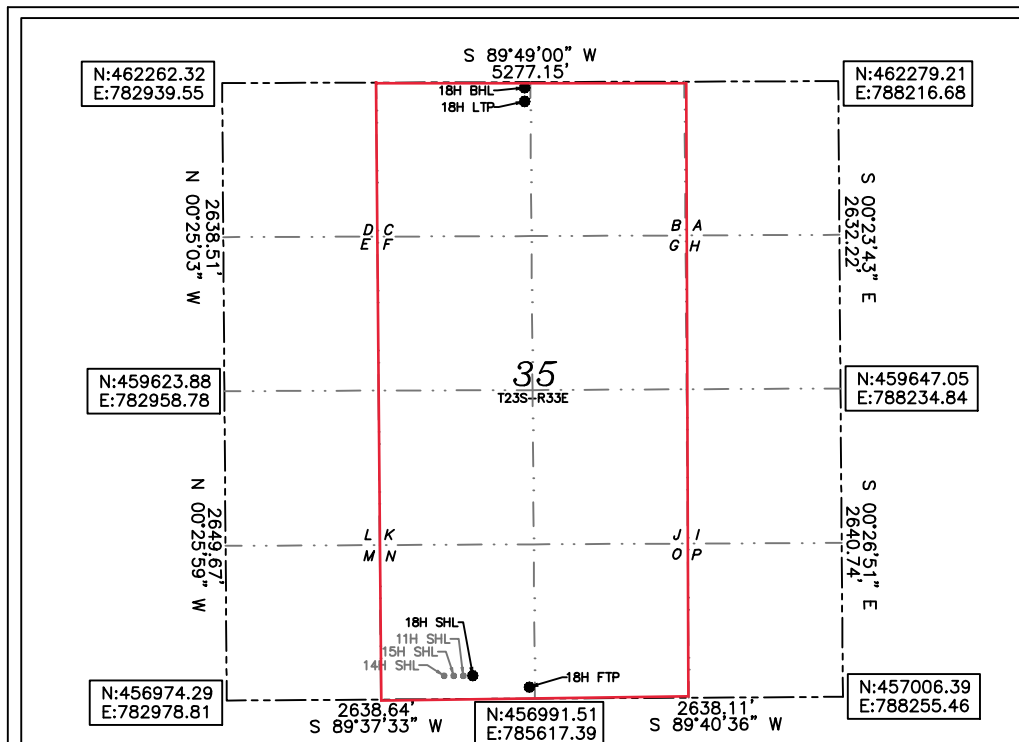
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	23-S	33-E		199	SOUTH	2127	WEST	LEA

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
C	35	23-S	33-E		20	NORTH	2638	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



SEA SNAKE 35 STATE 18H
EL: 3664.0
LAT: 32.254422
LON: 103.544784
N: 457187.17
E: 785104.26

FIRST TAKE POINT
100' FSL 2638' FWL SEC. 35
LAT: 32.254148
LON: 103.543131
N: 457091.50
E: 785616.00

LAST TAKE POINT
100' FNL 2638' FWL SEC. 35
LAT: 32.268110
LON: 103.543132
N: 462170.77
E: 785578.29

BOTTOM OF HOLE
LAT: 32.268330
LON: 103.543132
N: 462250.76
E: 785577.71

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

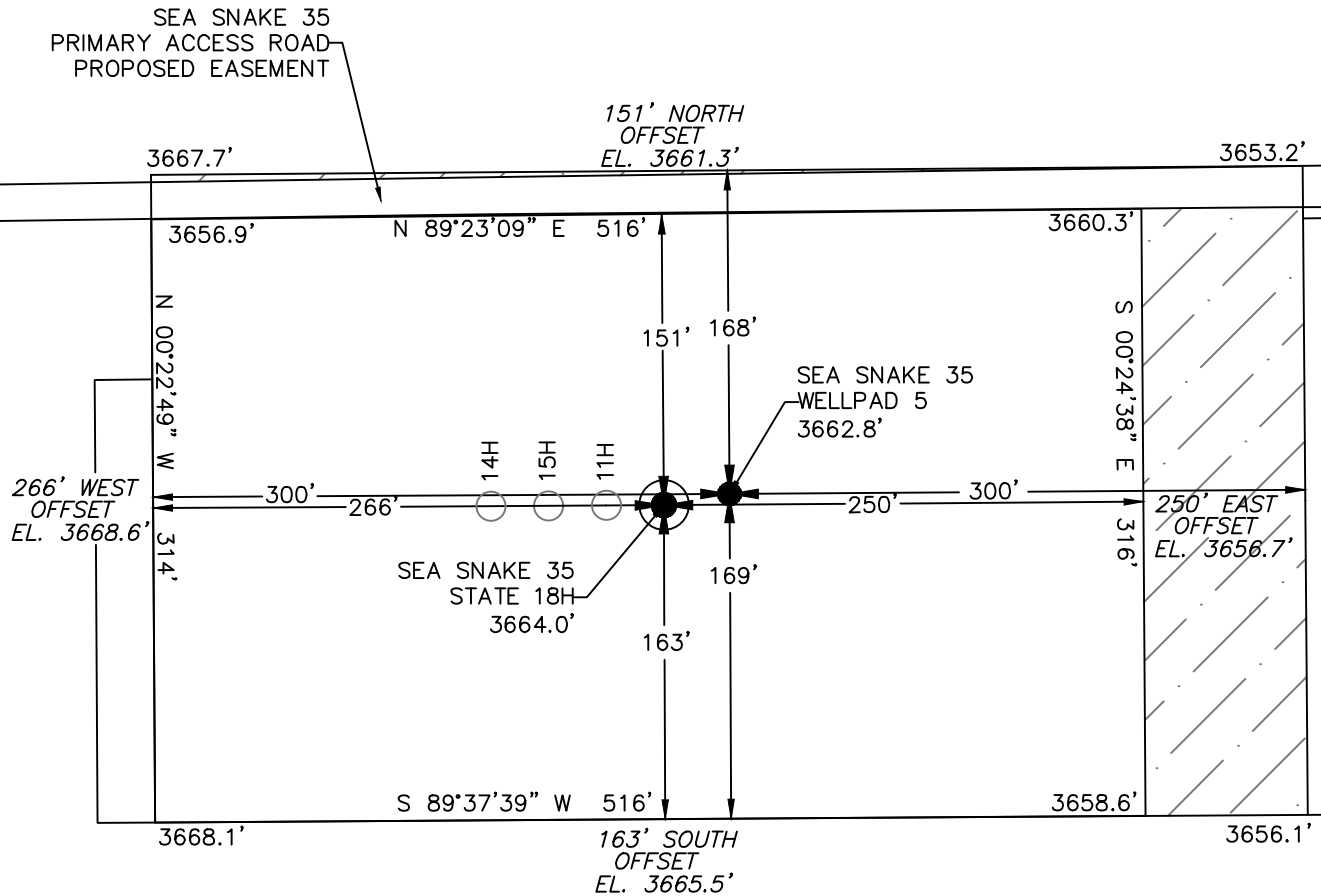
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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



PROPOSED PAD 3.732± ACRES
ACCESS ROAD 0.275± ACRES
TOTAL 4.007± 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 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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 1.5 MILES TO THE NORTHWEST CORNER OF THE SEA SNAKE 35 WELLPAD 5.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
JEANNIE PERRY

Date: 12/05/2019

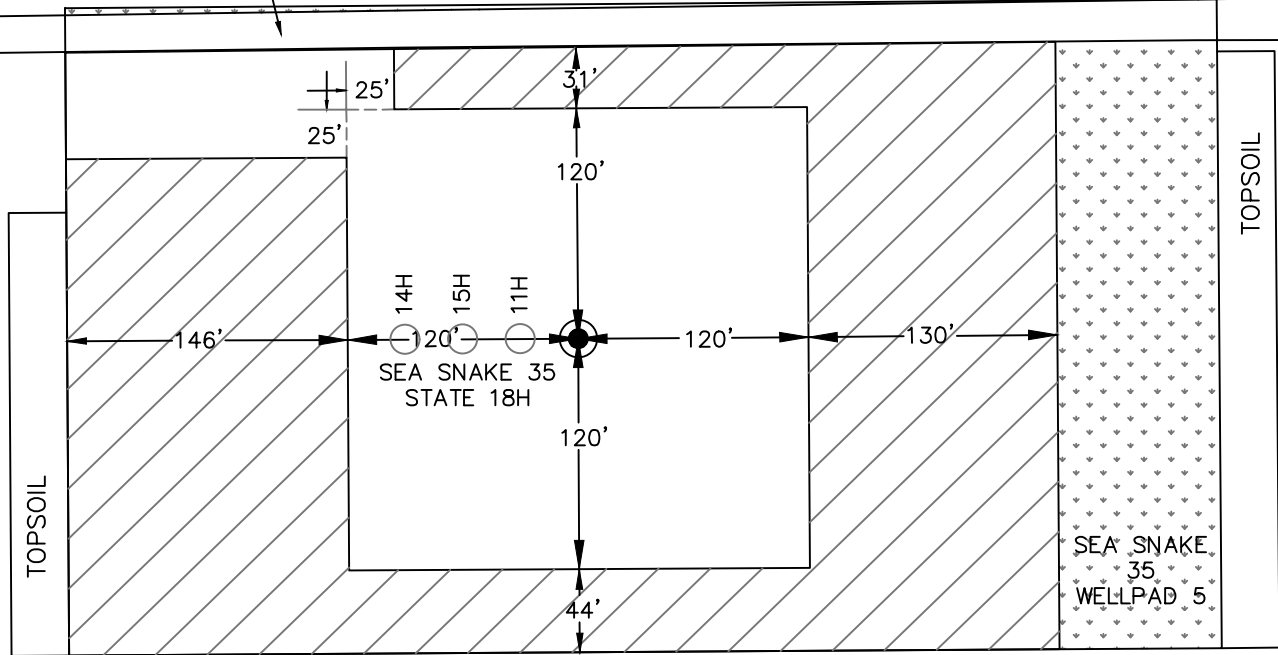
Drawn for:

devon

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

2.204± ACRES INTERIM PAD RECLAMATION AREA
0.644± ACRES GRADING SITE RECLAMATION AREA
1.803± ACRES NON-RECLAIMED AREA
4.651± ACRES GRADING SITE RECLAMATION AREA



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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.

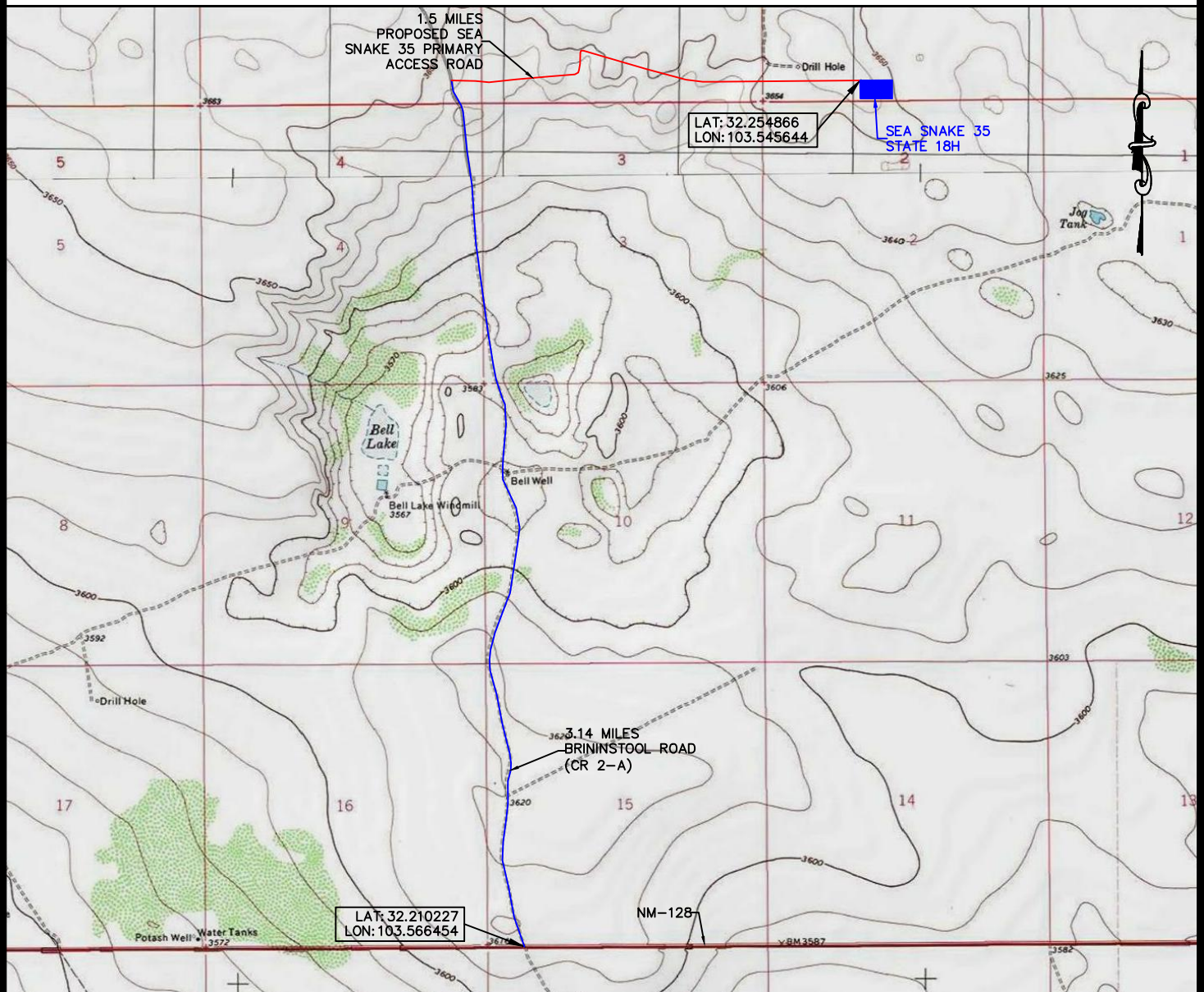
Drawn by:
JEANNIE PERRY

Date: 12/05/2019

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 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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 1.5 MILES TO THE NORTHWEST CORNER OF THE SEA SNAKE 35 WELLPAD 5.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

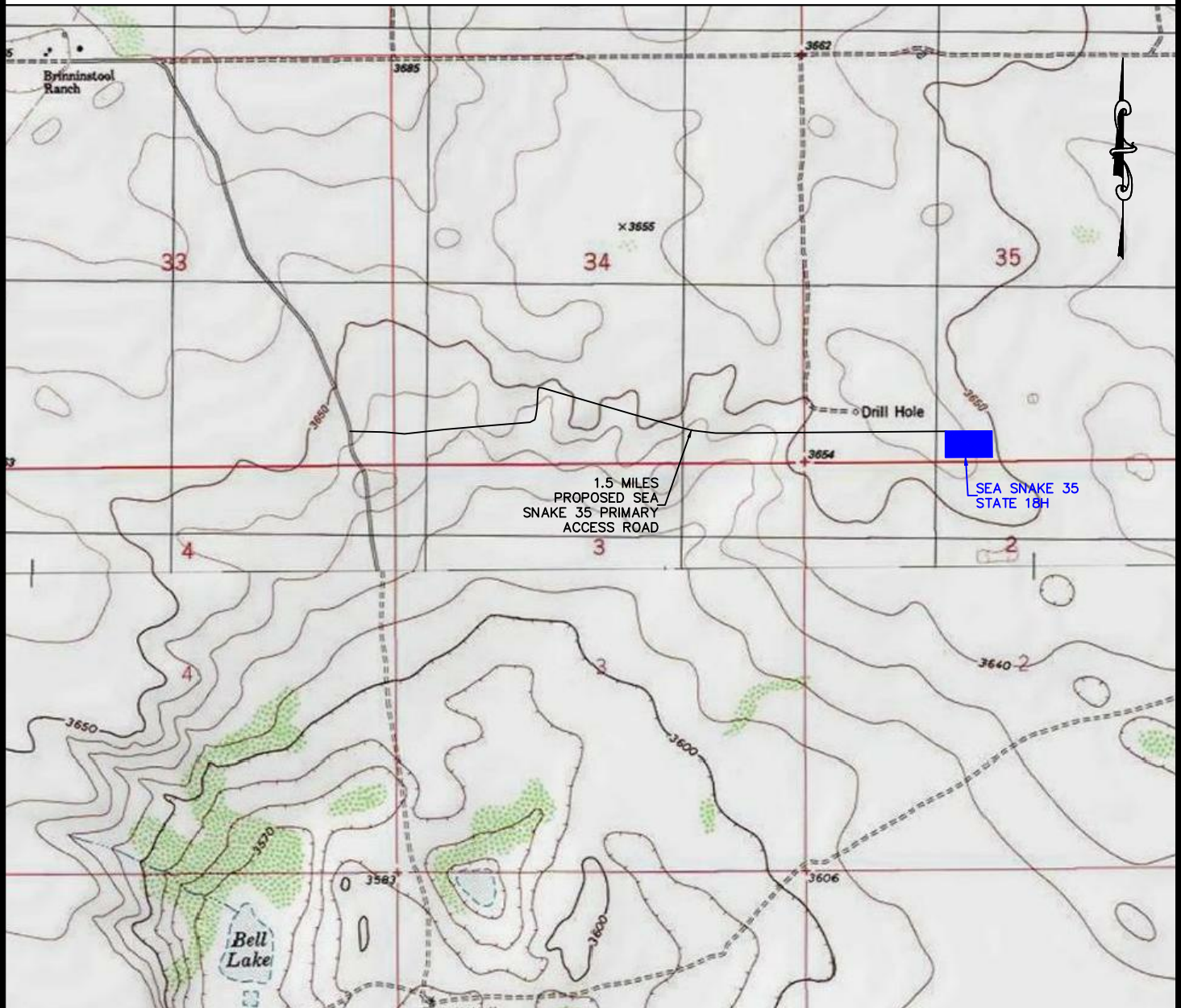
Drawn by:
JEANNIE PERRY

Date: 12/05/2019

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 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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.

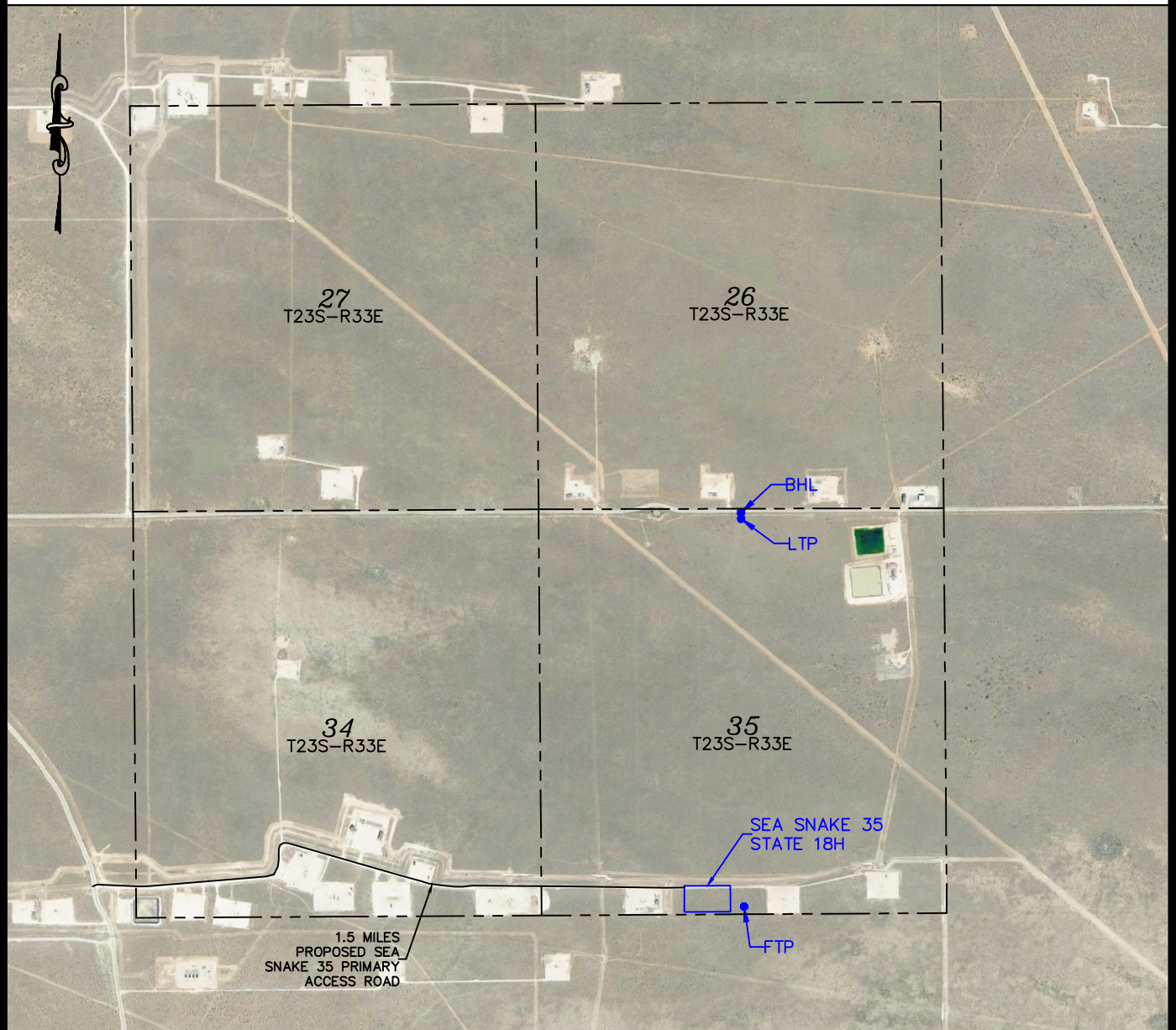
Drawn by:
JEANNIE PERRY

Date: 12/05/2019

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 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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.

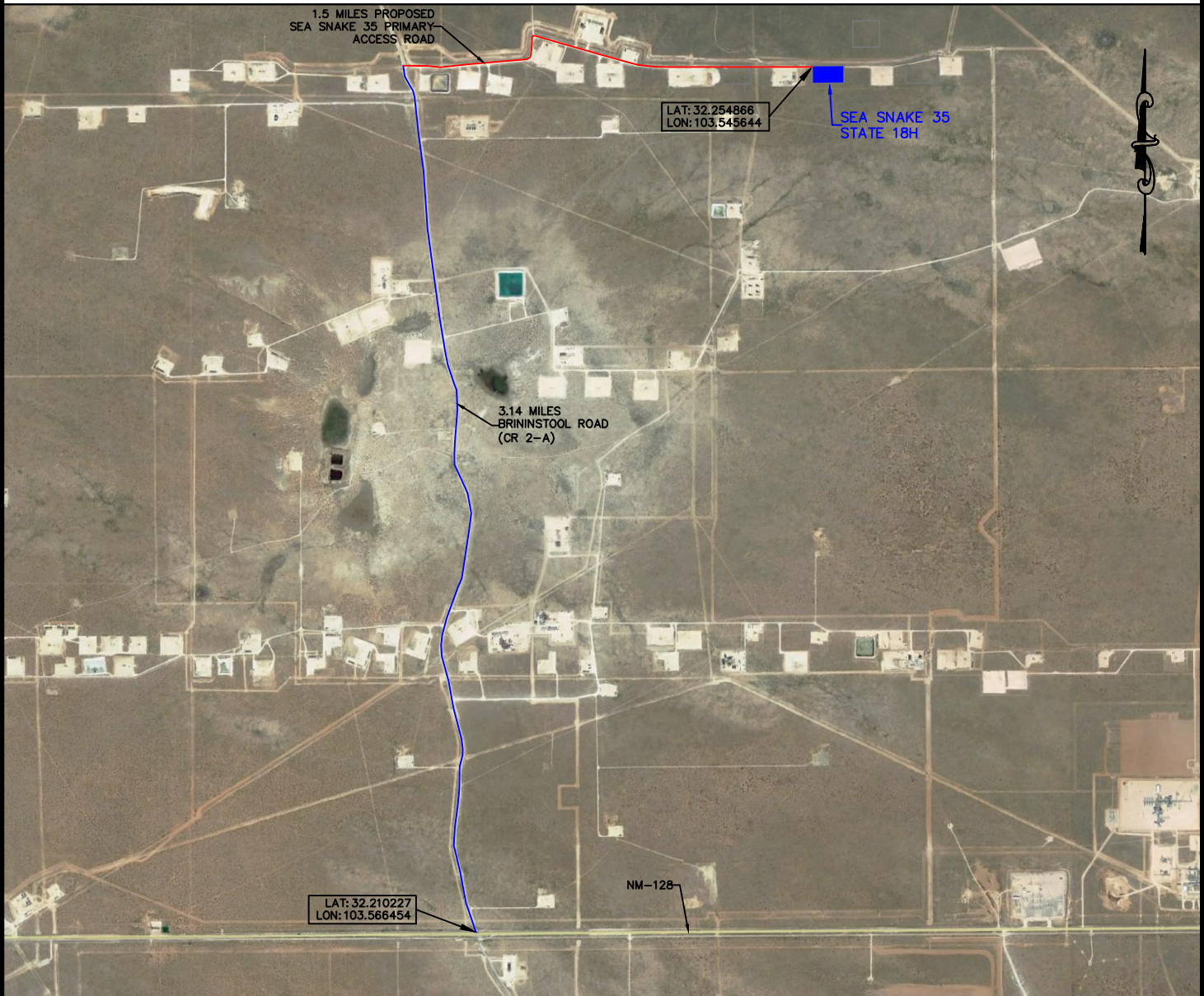
Drawn by:
JEANNIE PERRY

Date: 12/05/2019

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 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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.

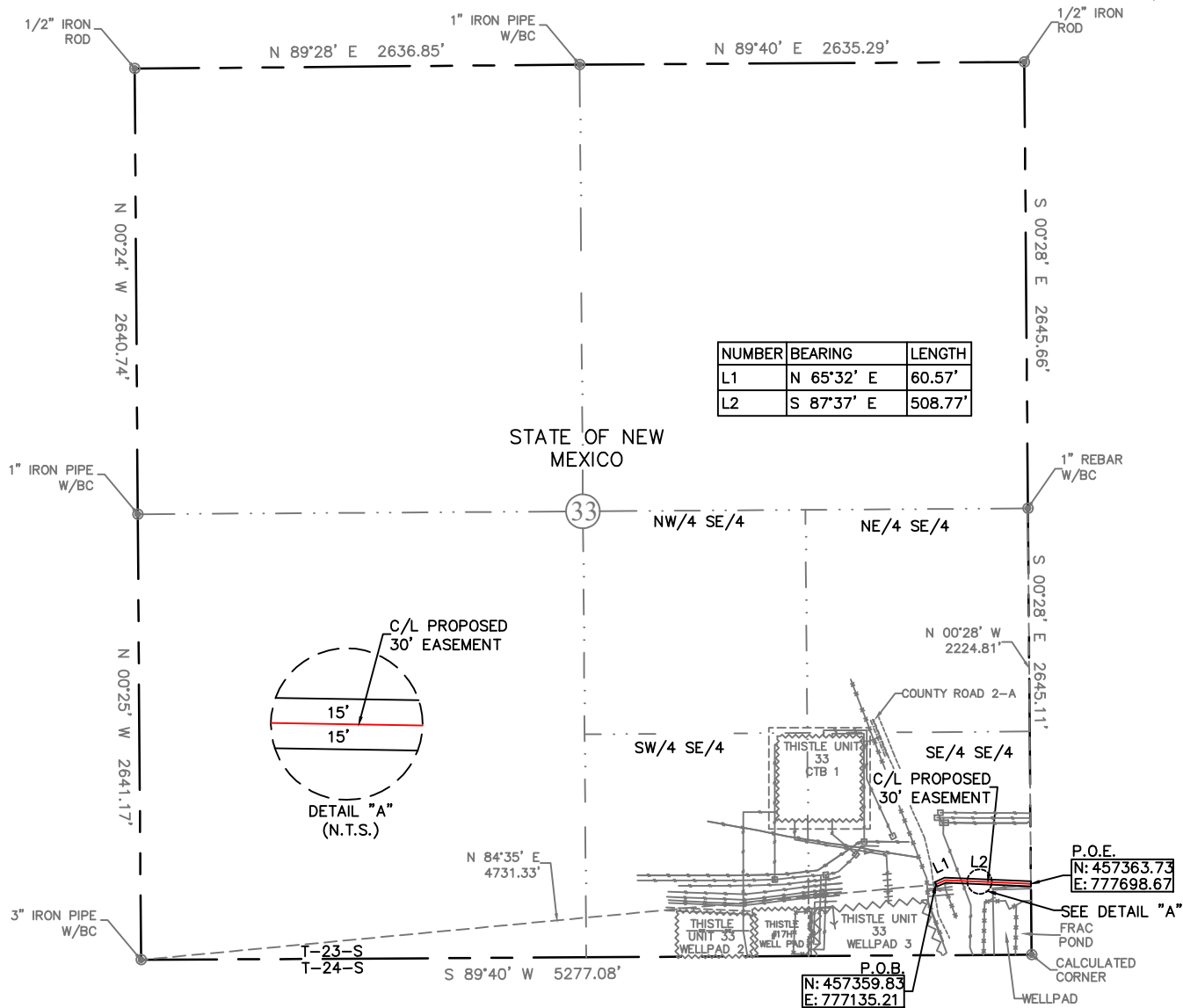
Drawn by:
JEANNIE PERRY

Date: 12/05/2019

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

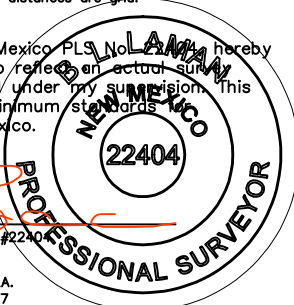
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

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.

0 1000 2000



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

**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

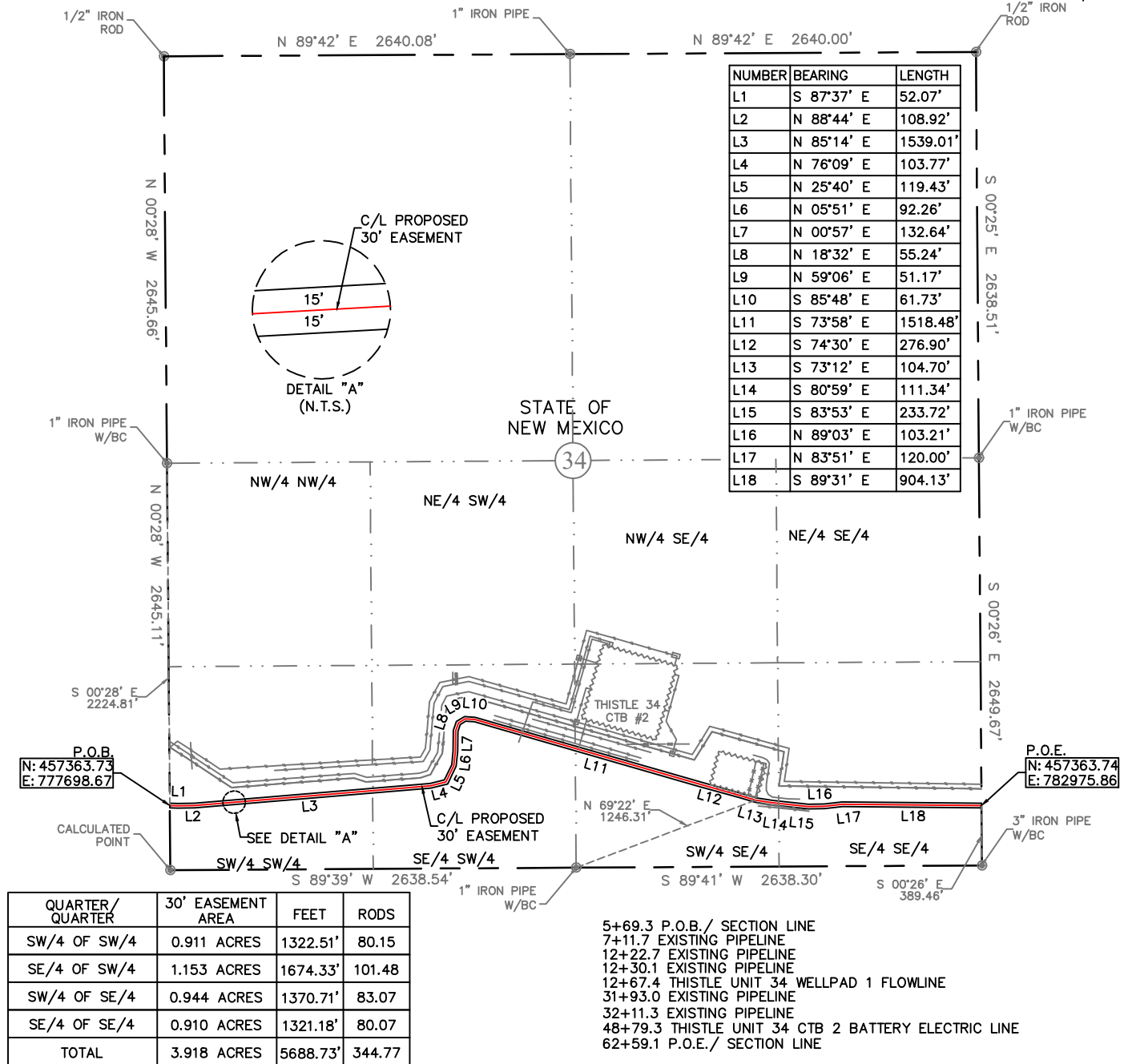
P.O. Box 548, Dry Creek, LA

(903) 388-3045 70637

Employee of Horizon Row, LLC



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

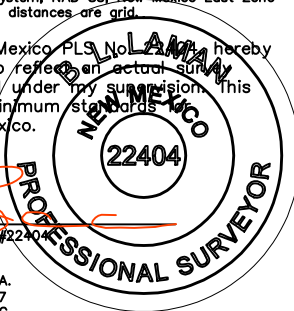


SEE THE ATTACHED LEGAL DESCRIPTION

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 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;

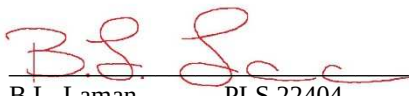
Thence N 83°51' E, a distance of 120.00' to an angle point;

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

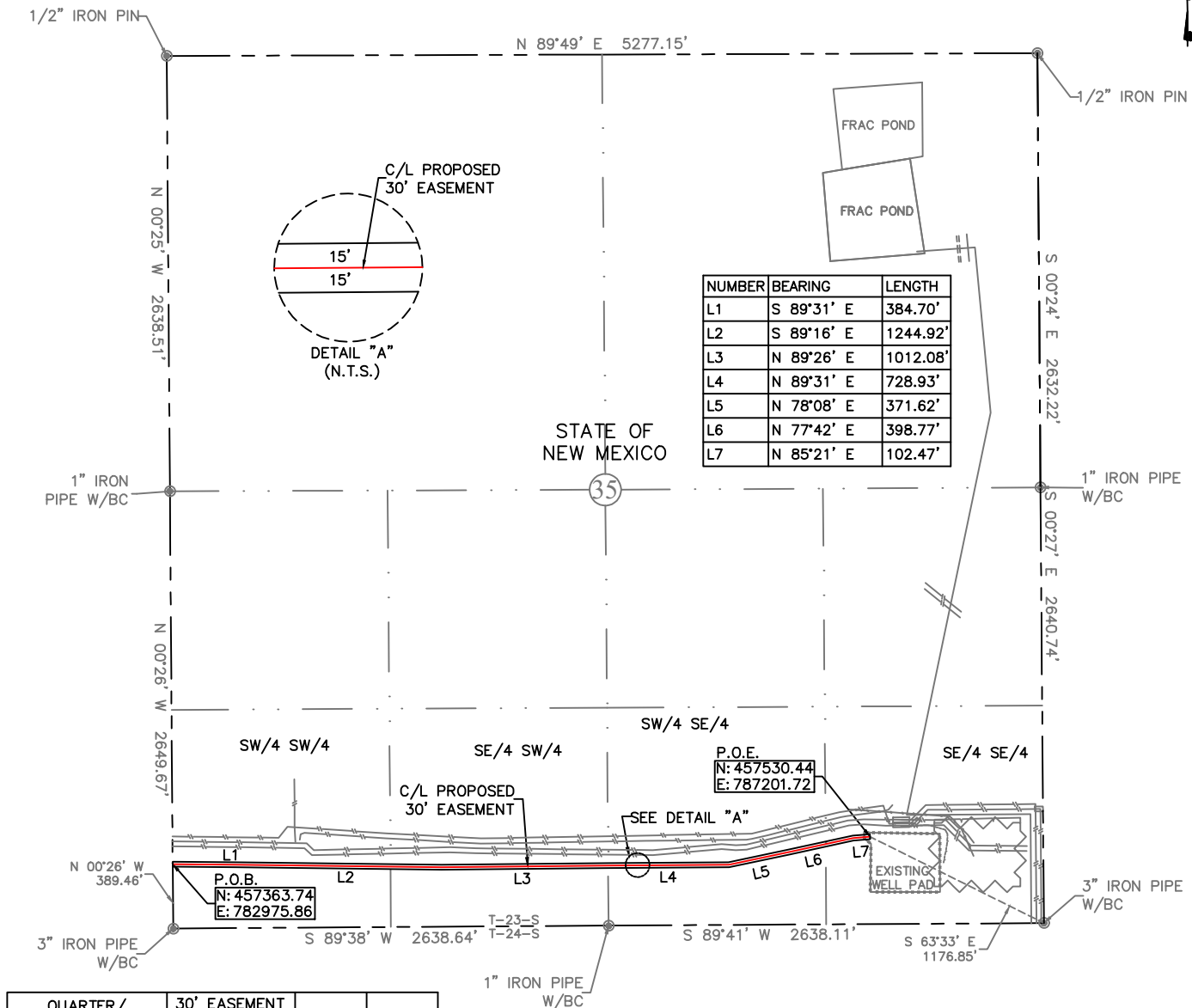
P.O. Box 548, Dry Creek, LA

(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

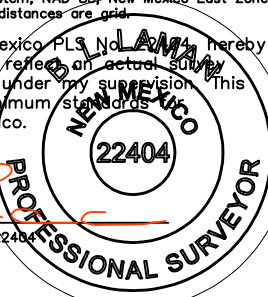
62+59.1 P.O.B./ SECTION LINE
64+14.7 ENTER SEA SNAKE 35 WELLPAD 4
69+64.7 EXIT SEA SNAKE 35 WELLPAD 4
81+20.6 ENTER SEA SNAKE 35 WELLPAD 5
87+20.5 EXIT SEA SNAKE 35 WELLPAD 5
98+87.0 ENTER SEA SNAKE 35 WELLPAD 6
104+98.0 EXIT SEA SNAKE 35 WELLPAD 6
105+02.6 P.O.E./ EXISTING WELLPAD

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:

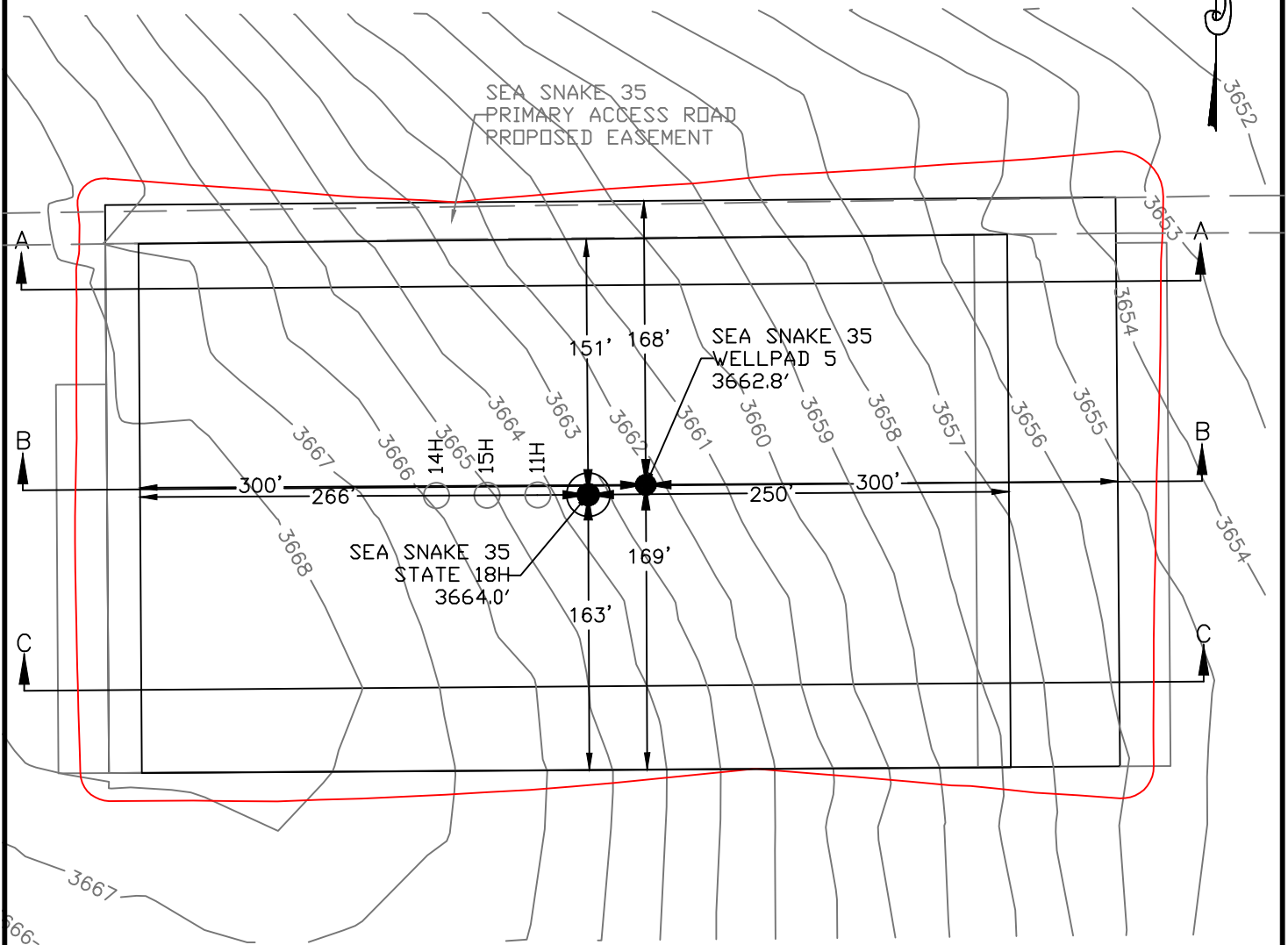
Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

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 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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 5

CUT	FILL	NET
16,022 CY	16,024 CY	2 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

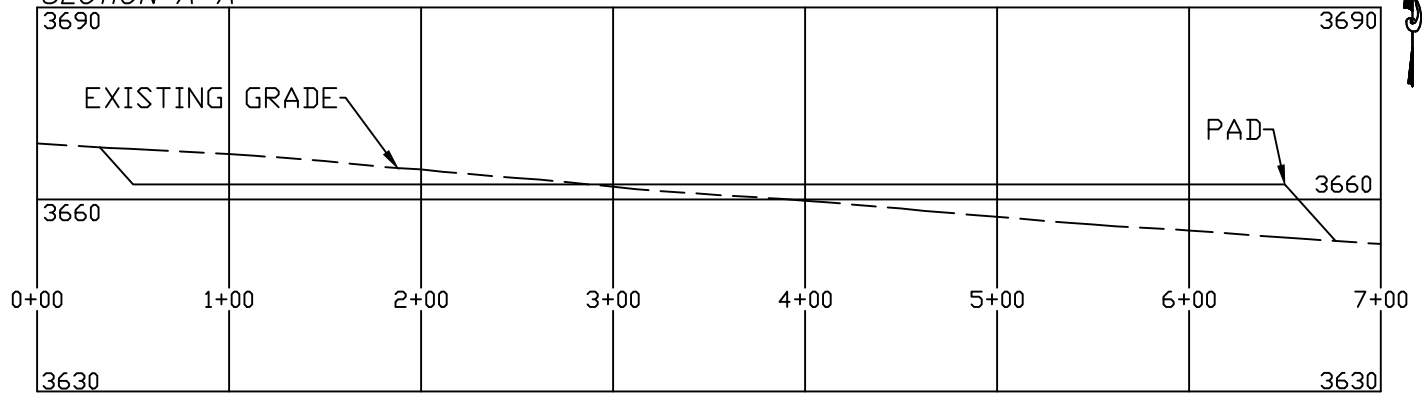
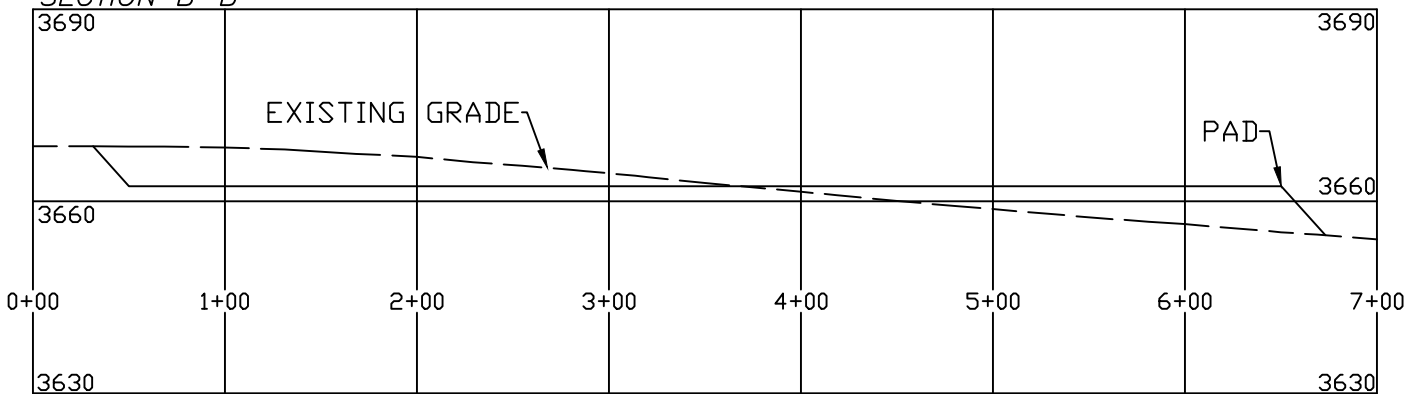
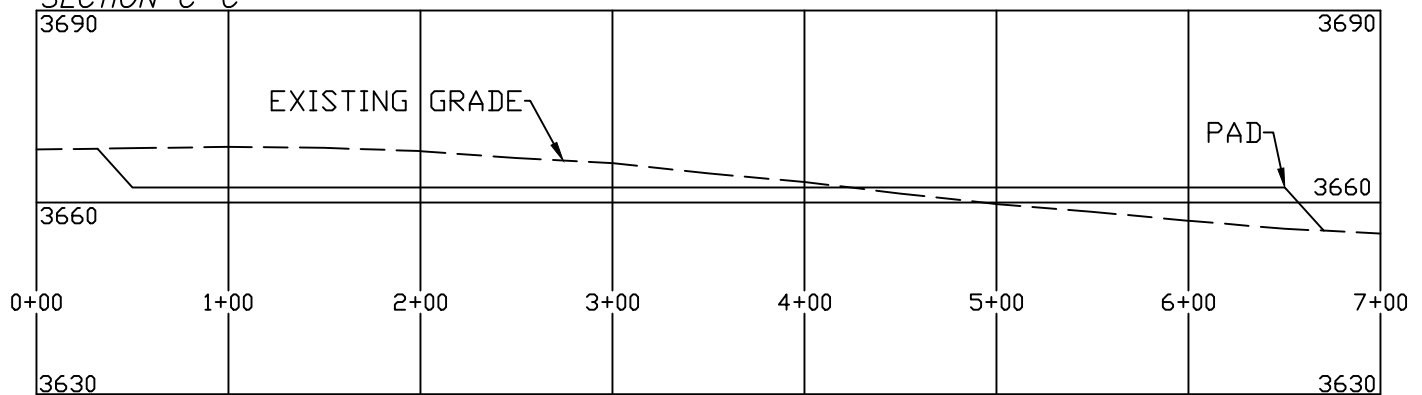
Drawn by:
JEANNIE PERRY

Date: 12/05/2019

Drawn for:



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

SECTION A-A**SECTION B-B****SECTION C-C**

DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 18H
LOCATED 199 FT. FROM THE SOUTH LINE
AND 2127 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" = 30' VERTICAL

EARTHWORK QUANTITIES FOR
SEA SNAKE 35 WELLPAD 5

CUT	FILL	NET
16,022 CY	16,024 CY	2 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
JEANNIE PERRY

Date: 12/05/2019

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 #018H	30-025-46793	N-35-23S-33E	0199S 2127W	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

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

Form APD Comments

Permit 277366

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102		API Number: 30-025-46793
		Well: SEA SNAKE 35 STATE #018H

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

District I

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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 277366

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102	API Number: 30-025-46793
	Well: SEA SNAKE 35 STATE #018H

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 18H

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	15,484.47	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 26-23S-33E						
Coachwhip 26 Federal 1H - Original - Actuals	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - Curve Projections	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P1v5	15,484.47	10,602.80	1,491.63	1,410.49	18.383	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P2v1	15,484.47	10,543.29	1,654.94	1,573.21	20.251	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P2v2	15,484.47	10,640.00	1,657.95	1,576.30	20.305	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P3v1	15,484.47	10,543.29	1,654.94	1,573.21	20.251	CC, ES, SF
Coachwhip 26 Federal 1H - Original - Plan 4	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - T&D	15,484.47	10,610.84	1,161.60	1,081.16	14.441	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Actuals	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 2	15,484.47	11,400.00	1,216.98	1,088.79	9.493	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 3	15,484.47	11,404.00	1,224.49	1,118.31	11.532	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 4	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 5	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 6	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - PTL	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - T&D	15,484.47	10,603.27	1,112.66	1,032.38	13.859	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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						
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	1,500.00	1,502.30	90.00	79.64	8.685	CC, ES
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	1,800.00	1,797.43	97.73	85.30	7.864	SF
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	2,000.00	2,001.60	60.00	46.07	4.307	Alert, CC, ES
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	2,200.00	2,201.56	63.47	48.14	4.139	Alert, SF
Sea Snake 35 State 16H - 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 16H - Wellbore #1 - Permit Plan 1	15,484.47	15,566.21	2,258.02	2,092.85	13.671	SF
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	15,484.47	15,626.10	1,128.03	962.59	6.818	CC, ES, SF
Sea Snake 35 State 1H - Original Hole - Actuals	637.21	638.25	830.55	826.41	200.508	CC
Sea Snake 35 State 1H - Original Hole - Actuals	700.00	696.23	830.74	826.18	182.097	ES
Sea Snake 35 State 1H - Original Hole - Actuals	15,400.00	15,977.00	2,051.55	1,880.78	12.014	SF
Sea Snake 35 State 1H - Pilot Hole - Actuals	637.21	638.25	830.55	826.41	200.508	CC
Sea Snake 35 State 1H - Pilot Hole - Actuals	700.00	696.23	830.74	826.18	182.097	ES
Sea Snake 35 State 1H - Pilot Hole - Actuals	10,550.00	10,528.67	1,595.59	1,532.32	25.217	SF
Sea Snake 35 State 2H - Original Hole - Actual	0.00	1.40	781.62			
Sea Snake 35 State 2H - Original Hole - Actual	10,171.05	10,224.56	796.06	727.75	11.655	ES
Sea Snake 35 State 2H - Original Hole - Actual	15,200.00	16,134.00	940.02	794.49	6.459	SF
Sea Snake 35 State 3H - Original Hole - Original Hole	10,019.26	9,993.41	642.46	572.28	9.155	CC
Sea Snake 35 State 3H - Original Hole - Original Hole	15,171.83	15,725.00	676.81	544.23	5.105	ES
Sea Snake 35 State 3H - Original Hole - Original Hole	15,200.00	15,725.00	677.40	544.65	5.103	SF
Sea Snake 35 State 4H - Original Hole - Original Hole	15,166.26	15,629.00	1,649.82	1,481.25	9.787	CC, ES
Sea Snake 35 State 4H - Original Hole - Original Hole	15,300.00	15,629.00	1,655.23	1,485.80	9.769	SF
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	4,078.77	4,087.36	11.52	-17.23	0.401	Collision, CC, ES, SF
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	9,614.49	9,592.51	1,384.64	1,317.09	20.498	CC, ES
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	15,484.47	14,725.87	1,621.04	1,472.16	10.888	SF
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,900.77	2,759.51	1,702.32	1,682.68	86.672	CC, ES
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	15,484.47	14,809.33	2,456.66	2,297.15	15.402	SF
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	15,484.47	15,570.43	1,126.15	961.16	6.826	CC, ES, SF
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,554.30	2,410.00	1,756.33	1,739.13	102.144	CC
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,600.00	2,445.27	1,756.46	1,738.99	100.557	ES
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	15,484.47	15,655.22	2,306.03	2,140.98	13.971	SF
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	2,000.00	1,981.80	1,530.32	1,492.18	40.122	CC
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	2,100.00	2,081.79	1,531.17	1,491.26	38.364	ES
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	6,000.00	5,972.71	1,790.28	1,679.36	16.139	SF
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,530.32	10,567.03	1,991.53	1,763.46	8.732	CC, ES
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,700.00	10,567.03	1,998.74	1,768.59	8.684	SF

Offset Design		Sec 26-23S-33E - Coachwhip 26 Federal 1H - Original - Actuals										Offset Site Error:	0.00 ft
Survey Program: 166-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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		
0.00	0.00	0.00	0.00	0.50	0.00	16.89	5,302.03	1,610.31	5,541.19				
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928	
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390	
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366	
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136	
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919	
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205	
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067	
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,599.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		
4,900.00	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,632.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,632.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,632.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,632.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,632.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,632.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,632.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,632.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		
13,700.00	10,600.00	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341		
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052		
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781		
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534		
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314		
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128		
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979		
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873		
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Actuals												Offset Site Error:	0.00 ft
Survey Program: 166-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	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928		
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390		
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366		
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136		
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919		
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205		
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067		
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,601.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,632.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,632.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,632.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,632.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,632.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,632.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,632.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,632.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Curve Projections												Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF, 11409-												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	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341	
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052	
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781	
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534	
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314	
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128	
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979	
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873	
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	89.10	89.10	0.52	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.66	0.52	N/A		
200.00	200.00	189.10	189.10	0.70	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.47	0.70	7,890.005		
300.00	300.00	289.10	289.10	0.99	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.19	0.99	5,611.117		
400.00	400.00	389.10	389.10	1.31	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.87	1.31	4,232.199		
500.00	500.00	489.10	489.10	1.65	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.53	1.65	3,365.861		
600.00	600.00	589.10	589.10	1.99	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.19	1.99	2,783.388		
700.00	700.00	689.10	689.10	2.34	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.84	2.34	2,368.515		
800.00	800.00	789.10	789.10	2.69	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.49	2.69	2,059.309		
900.00	900.00	889.10	889.10	3.04	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.13	3.04	1,820.509		
1,000.00	1,000.00	989.10	989.10	3.40	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.78	3.40	1,630.783		
1,100.00	1,100.00	1,089.10	1,089.10	3.75	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.42	3.75	1,476.544		
1,200.00	1,200.00	1,189.10	1,189.10	4.11	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.07	4.11	1,348.758		
1,300.00	1,300.00	1,289.10	1,289.10	4.46	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.71	4.46	1,241.199		
1,400.00	1,400.00	1,389.10	1,389.10	4.82	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.36	4.82	1,149.441		
1,500.00	1,500.00	1,489.10	1,489.10	5.18	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.00	5.18	1,070.256		
1,600.00	1,600.00	1,589.10	1,589.10	5.53	0.00	16.89	5,302.03	1,610.31	5,541.18	5,535.64	5.53	1,001.237		
1,700.00	1,700.00	1,689.10	1,689.10	5.89	0.00	16.89	5,302.03	1,610.31	5,541.18	5,535.29	5.89	940.549		
1,800.00	1,800.00	1,789.10	1,789.10	6.25	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.93	6.25	886.776		
1,900.00	1,900.00	1,889.10	1,889.10	6.61	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.57	6.61	838.801		
2,000.00	2,000.00	1,989.10	1,989.10	6.96	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.21	6.96	795.739		
2,100.00	2,099.99	2,089.09	2,089.09	7.31	0.00	-78.59	5,302.03	1,610.31	5,541.00	5,533.69	7.31	757.848		
2,200.00	2,199.96	2,189.06	2,189.06	7.65	0.00	-78.63	5,302.03	1,610.31	5,540.49	5,532.84	7.65	724.107		
2,300.00	2,299.86	2,288.96	2,288.96	7.99	0.00	-78.68	5,302.03	1,610.31	5,539.63	5,531.63	7.99	692.990		
2,399.87	2,399.54	2,388.64	2,388.64	8.34	0.00	-78.75	5,302.03	1,610.31	5,538.43	5,530.09	8.34	664.228		
2,500.00	2,499.43	2,488.53	2,488.53	8.69	0.00	-78.82	5,302.03	1,610.31	5,537.07	5,528.39	8.69	637.489		
2,600.00	2,599.19	2,588.29	2,588.29	9.03	0.00	-78.89	5,302.03	1,610.31	5,535.72	5,526.69	9.03	612.711		
2,700.00	2,698.94	2,688.04	2,688.04	9.39	0.00	-78.96	5,302.03	1,610.31	5,534.38	5,524.99	9.39	589.672		
2,800.00	2,798.70	2,787.80	2,787.80	9.74	0.00	-79.03	5,302.03	1,610.31	5,533.04	5,523.31	9.74	568.205		
2,900.00	2,898.46	2,887.56	2,887.56	10.09	0.00	-79.10	5,302.03	1,610.31	5,531.72	5,521.63	10.09	548.164		
3,000.00	2,998.21	2,987.31	2,987.31	10.45	0.00	-79.18	5,302.03	1,610.31	5,530.40	5,519.96	10.45	529.420		
3,100.00	3,097.97	3,087.07	3,087.07	10.80	0.00	-79.25	5,302.03	1,610.31	5,529.09	5,518.29	10.80	511.855		
3,200.00	3,197.73	3,186.83	3,186.83	11.16	0.00	-79.32	5,302.03	1,610.31	5,527.79	5,516.63	11.16	495.368		
3,300.00	3,297.48	3,286.58	3,286.58	11.52	0.00	-79.39	5,302.03	1,610.31	5,526.50	5,514.99	11.52	479.867		
3,400.00	3,397.24	3,386.34	3,386.34	11.88	0.00	-79.46	5,302.03	1,610.31	5,525.22	5,513.34	11.88	465.268		
3,500.00	3,497.00	3,486.10	3,486.10	12.24	0.00	-79.53	5,302.03	1,610.31	5,523.94	5,511.71	12.23	451.498		
3,600.00	3,596.75	3,585.85	3,585.85	12.60	0.00	-79.60	5,302.03	1,610.31	5,522.68	5,510.08	12.59	438.490		
3,700.00	3,696.51	3,685.61	3,685.61	12.96	0.00	-79.67	5,302.03	1,610.31	5,521.42	5,508.47	12.96	426.186		
3,800.00	3,796.27	3,785.37	3,785.37	13.32	0.00	-79.74	5,302.03	1,610.31	5,520.17	5,506.86	13.32	414.531		
3,900.00	3,896.02	3,885.12	3,885.12	13.68	0.00	-79.81	5,302.03	1,610.31	5,518.93	5,505.25	13.68	403.477		
4,000.00	3,995.78	3,984.88	3,984.88	14.04	0.00	-79.88	5,302.03	1,610.31	5,517.70	5,503.66	14.04	392.979		
4,100.00	4,095.54	4,084.64	4,084.64	14.40	0.00	-79.96	5,302.03	1,610.31	5,516.48	5,502.07	14.40	382.998		
4,200.00	4,195.29	4,184.39	4,184.39	14.77	0.00	-80.03	5,302.03	1,610.31	5,515.26	5,500.50	14.77	373.497		
4,300.00	4,295.05	4,284.15	4,284.15	15.13	0.00	-80.10	5,302.03	1,610.31	5,514.06	5,498.93	15.13	364.444		
4,400.00	4,394.81	4,383.91	4,383.91	15.49	0.00	-80.17	5,302.03	1,610.31	5,512.86	5,497.36	15.49	355.807		
4,500.00	4,494.56	4,483.66	4,483.66	15.86	0.00	-80.24	5,302.03	1,610.31	5,511.67	5,495.81	15.86	347.560		
4,600.00	4,594.32	4,583.42	4,583.42	16.22	0.00	-80.31	5,302.03	1,610.31	5,510.49	5,494.27	16.22	339.677		
4,700.00	4,694.08	4,683.18	4,683.18	16.59	0.00	-80.38	5,302.03	1,610.31	5,509.32	5,492.73	16.59	332.136		
4,800.00	4,793.83	4,782.93	4,782.93	16.95	0.00	-80.45	5,302.03	1,610.31	5,508.15	5,491.20	16.95	324.914		
4,900.00	4,893.59	4,882.69	4,882.69	17.32	0.00	-80.53	5,302.03	1,610.31	5,507.00	5,489.68	17.32	317.993		
5,000.00	4,993.35	4,982.45	4,982.45	17.68	0.00	-80.60	5,302.03	1,610.31	5,505.85	5,488.17	17.68	311.353		
5,100.00	5,093.10	5,082.20	5,082.20	18.05	0.00	-80.67	5,302.03	1,610.31	5,504.71	5,486.67	18.05	304.980		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
5,200.00	5,192.86	5,181.96	5,181.96	18.42	0.00	-80.74	5,302.03	1,610.31	5,503.59	5,485.17	18.42	298.856		
5,300.00	5,292.62	5,281.72	5,281.72	18.78	0.00	-80.81	5,302.03	1,610.31	5,502.47	5,483.68	18.78	292.969		
5,400.00	5,392.37	5,381.47	5,381.47	19.15	0.00	-80.88	5,302.03	1,610.31	5,501.35	5,482.21	19.15	287.304		
5,500.00	5,492.13	5,465.45	5,465.45	19.52	0.00	-80.94	5,302.03	1,610.69	5,500.37	5,480.85	19.52	281.852		
5,600.00	5,591.89	5,545.94	5,545.93	19.88	0.00	-80.98	5,302.03	1,612.17	5,499.73	5,479.85	19.88	276.618		
5,700.00	5,691.64	5,626.53	5,626.47	20.25	0.00	-81.01	5,302.03	1,614.79	5,499.45	5,479.20	20.25	271.592		
5,729.10	5,720.67	5,650.00	5,649.92	20.36	0.00	-81.02	5,302.03	1,615.77	5,499.44	5,479.08	20.36	270.167		
5,800.00	5,791.40	5,707.19	5,707.05	20.62	0.00	-81.03	5,302.03	1,618.55	5,499.53	5,478.91	20.62	266.763		
5,900.00	5,891.16	5,787.89	5,787.60	20.98	0.00	-81.04	5,302.03	1,623.44	5,499.95	5,478.97	20.98	262.120		
6,000.00	5,990.91	5,868.59	5,868.07	21.35	0.00	-81.04	5,302.03	1,629.46	5,500.73	5,479.38	21.35	257.655		
6,100.00	6,090.67	5,961.06	5,960.20	21.72	0.00	-81.03	5,302.03	1,637.44	5,501.79	5,480.07	21.72	253.347		
6,200.00	6,190.42	6,061.05	6,059.80	22.09	0.00	-81.01	5,302.03	1,646.15	5,502.88	5,480.79	22.08	249.180		
6,300.00	6,290.18	6,161.03	6,159.40	22.45	0.00	-80.99	5,302.03	1,654.87	5,503.97	5,481.51	22.45	245.148		
6,400.00	6,389.94	6,261.01	6,259.00	22.82	0.00	-80.98	5,302.03	1,663.58	5,505.06	5,482.24	22.82	241.244		
6,500.00	6,489.69	6,360.99	6,358.60	23.19	0.00	-80.96	5,302.03	1,672.29	5,506.15	5,482.96	23.19	237.463		
6,600.00	6,589.45	6,460.97	6,458.20	23.56	0.00	-80.94	5,302.03	1,681.01	5,507.24	5,483.68	23.56	233.800		
6,700.00	6,689.21	6,560.96	6,557.81	23.93	0.00	-80.93	5,302.03	1,689.72	5,508.33	5,484.40	23.92	230.248		
6,800.00	6,788.96	6,660.94	6,657.41	24.29	0.00	-80.91	5,302.03	1,698.44	5,509.42	5,485.13	24.29	226.803		
6,900.00	6,888.72	6,760.92	6,757.01	24.66	0.00	-80.90	5,302.03	1,707.15	5,510.51	5,485.85	24.66	223.460		
7,000.00	6,988.48	6,860.90	6,856.61	25.03	0.00	-80.88	5,302.03	1,715.86	5,511.60	5,486.57	25.03	220.215		
7,100.00	7,088.23	6,960.88	6,956.21	25.40	0.00	-80.86	5,302.03	1,724.58	5,512.69	5,487.30	25.40	217.063		
7,200.00	7,187.99	7,060.86	7,055.81	25.77	0.00	-80.85	5,302.03	1,733.29	5,513.79	5,488.02	25.77	214.001		
7,300.00	7,287.75	7,160.85	7,155.41	26.14	0.00	-80.83	5,302.03	1,742.01	5,514.88	5,488.75	26.13	211.025		
7,400.00	7,387.50	7,260.83	7,255.02	26.50	0.00	-80.82	5,302.03	1,750.72	5,515.97	5,489.47	26.50	208.131		
7,500.00	7,487.26	7,360.81	7,354.62	26.87	0.00	-80.80	5,302.03	1,759.43	5,517.07	5,490.20	26.87	205.315		
7,600.00	7,587.02	7,460.79	7,454.22	27.24	0.00	-80.78	5,302.03	1,768.15	5,518.16	5,490.92	27.24	202.576		
7,700.00	7,686.77	7,560.77	7,553.82	27.61	0.00	-80.77	5,302.03	1,776.86	5,519.26	5,491.65	27.61	199.909		
7,800.00	7,786.53	7,660.76	7,653.42	27.98	0.00	-80.75	5,302.03	1,785.58	5,520.35	5,492.38	27.98	197.313		
7,900.00	7,886.29	7,760.74	7,753.02	28.35	0.00	-80.74	5,302.03	1,794.29	5,521.45	5,493.10	28.35	194.783		
8,000.00	7,986.04	7,860.72	7,852.63	28.72	0.00	-80.72	5,302.03	1,803.00	5,522.55	5,493.83	28.72	192.318		
8,100.00	8,085.80	7,960.70	7,952.23	29.09	0.00	-80.70	5,302.03	1,811.72	5,523.64	5,494.56	29.08	189.915		
8,200.00	8,185.56	8,060.68	8,051.83	29.46	0.00	-80.69	5,302.03	1,820.43	5,524.74	5,495.29	29.45	187.573		
8,300.00	8,285.31	8,160.67	8,151.43	29.83	0.00	-80.67	5,302.03	1,829.15	5,525.84	5,496.01	29.82	185.288		
8,400.00	8,385.07	8,260.65	8,251.03	30.20	0.00	-80.65	5,302.03	1,837.86	5,526.94	5,496.74	30.19	183.058		
8,500.00	8,484.83	8,360.63	8,350.63	30.56	0.00	-80.64	5,302.03	1,846.57	5,528.03	5,497.47	30.56	180.882		
8,600.00	8,584.58	8,460.61	8,450.23	30.93	0.00	-80.62	5,302.03	1,855.29	5,529.13	5,498.20	30.93	178.758		
8,700.00	8,684.34	8,560.59	8,549.84	31.30	0.00	-80.61	5,302.03	1,864.00	5,530.23	5,498.93	31.30	176.684		
8,800.00	8,784.10	8,660.58	8,649.44	31.67	0.00	-80.59	5,302.03	1,872.72	5,531.33	5,499.66	31.67	174.658		
8,900.00	8,883.85	8,760.56	8,749.04	32.04	0.00	-80.57	5,302.03	1,881.43	5,532.43	5,500.39	32.04	172.678		
9,000.00	8,983.61	8,860.54	8,848.64	32.41	0.00	-80.56	5,302.03	1,890.14	5,533.53	5,501.13	32.41	170.744		
9,100.00	9,083.37	8,960.52	8,948.24	32.78	0.00	-80.54	5,302.03	1,898.86	5,534.63	5,501.86	32.78	168.853		
9,200.00	9,183.12	9,069.11	9,056.43	33.15	0.00	-80.53	5,302.03	1,908.11	5,535.69	5,502.54	33.15	167.000		
9,300.00	9,282.88	9,183.33	9,170.32	33.52	0.00	-80.52	5,302.03	1,916.82	5,536.51	5,502.99	33.52	165.179		
9,400.00	9,382.64	9,297.56	9,284.30	33.89	0.00	-80.53	5,302.03	1,924.38	5,537.07	5,503.18	33.89	163.392		
9,428.07	9,410.64	9,329.62	9,316.31	33.99	0.00	-80.53	5,302.03	1,926.30	5,537.18	5,503.19	33.99	162.896		
9,500.00	9,482.43	9,411.78	9,398.34	34.26	0.00	-80.54	5,302.03	1,930.81	5,537.48	5,503.23	34.26	161.648		
9,600.00	9,582.36	9,525.99	9,512.43	34.62	0.00	-80.54	5,302.03	1,936.10	5,538.06	5,503.44	34.62	159.981		
9,694.65	9,677.00	9,634.09	9,620.45	34.95	0.00	14.95	5,302.03	1,940.06	5,538.76	5,503.81	34.95	158.493		
9,700.00	9,682.35	9,640.20	9,626.56	34.97	0.00	14.95	5,302.03	1,940.26	5,538.80	5,503.84	34.96	158.412		
9,800.00	9,782.35	9,754.43	9,740.75	35.31	0.00	14.98	5,302.03	1,943.27	5,539.48	5,504.18	35.30	156.909		
9,900.00	9,882.35	9,868.72	9,855.02	35.65	0.00	15.00	5,302.03	1,945.15	5,539.91	5,504.27	35.64	155.426		
10,000.00	9,982.35	9,983.02	9,969.32	35.99	0.00	15.01	5,302.03	1,945.89	5,540.08	5,504.09	35.98	153.963		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
10,044.69	10,027.04	10,029.84	10,016.14	36.14	0.00	15.01	5,302.03	1,945.90	5,540.08	5,503.94	36.14	153.315		
10,050.00	10,032.35	10,035.15	10,021.45	36.16	0.00	15.43	5,302.03	1,945.90	5,540.06	5,503.90	36.15	153.238		
10,100.00	10,082.26	10,085.06	10,071.36	36.32	0.00	15.51	5,302.03	1,945.90	5,537.51	5,501.19	36.32	152.455		
10,150.00	10,131.76	10,134.56	10,120.86	36.49	0.00	15.71	5,302.03	1,945.90	5,530.78	5,494.29	36.49	151.576		
10,200.00	10,180.46	10,183.26	10,169.56	36.65	0.00	16.05	5,302.03	1,945.90	5,519.92	5,483.27	36.65	150.614		
10,250.00	10,227.98	10,230.78	10,217.08	36.81	0.00	16.53	5,302.03	1,945.90	5,505.01	5,468.20	36.80	149.582		
10,300.00	10,273.98	10,276.78	10,263.08	36.95	0.00	17.18	5,302.03	1,945.90	5,486.17	5,449.22	36.95	148.488		
10,350.00	10,318.11	10,320.91	10,307.21	37.09	0.00	18.02	5,302.03	1,945.90	5,463.55	5,426.47	37.08	147.344		
10,400.00	10,360.01	10,362.81	10,349.11	37.21	0.00	19.09	5,302.03	1,945.90	5,437.32	5,400.11	37.20	146.159		
10,450.00	10,399.38	10,402.18	10,388.48	37.32	0.00	20.44	5,302.03	1,945.90	5,407.68	5,370.37	37.31	144.941		
10,500.00	10,435.92	10,438.72	10,425.02	37.42	0.00	22.15	5,302.03	1,945.90	5,374.87	5,337.47	37.40	143.698		
10,550.00	10,469.35	10,472.15	10,458.45	37.51	0.00	24.32	5,302.03	1,945.90	5,339.14	5,301.66	37.48	142.438		
10,600.00	10,499.41	10,502.21	10,488.51	37.59	0.00	27.09	5,302.03	1,945.90	5,300.77	5,263.22	37.55	141.166		
10,650.00	10,525.87	10,528.67	10,514.97	37.66	0.00	30.69	5,302.03	1,945.90	5,260.05	5,222.45	37.60	139.888		
10,700.00	10,548.54	10,551.34	10,537.64	37.74	0.00	35.42	5,302.03	1,945.90	5,217.31	5,179.67	37.64	138.610		
10,750.00	10,567.24	10,570.04	10,556.34	37.84	0.00	41.73	5,302.03	1,945.90	5,172.86	5,135.19	37.67	137.334		
10,800.00	10,581.83	10,584.63	10,570.93	37.97	0.00	50.23	5,302.03	1,945.90	5,127.05	5,089.37	37.68	136.065		
10,850.00	10,592.19	10,594.99	10,581.29	38.11	0.00	61.52	5,302.03	1,945.90	5,080.24	5,042.55	37.69	134.805		
10,900.00	10,598.26	10,601.06	10,587.36	38.25	0.00	75.73	5,302.03	1,945.90	5,032.78	4,995.09	37.68	133.555		
10,944.69	10,600.00	10,602.80	10,589.10	38.39	0.00	90.00	5,302.03	1,945.90	4,990.11	4,952.43	37.68	132.449		
11,000.00	10,600.00	10,602.80	10,589.10	38.56	0.00	90.00	5,302.03	1,945.90	4,937.29	4,899.63	37.66	131.085		
11,100.00	10,600.00	10,602.80	10,589.10	38.91	0.00	90.00	5,302.03	1,945.90	4,841.95	4,804.30	37.65	128.606		
11,200.00	10,600.00	10,602.80	10,589.10	39.31	0.00	90.00	5,302.03	1,945.90	4,746.79	4,709.15	37.64	126.106		
11,300.00	10,600.00	10,602.80	10,589.10	39.76	0.00	90.00	5,302.03	1,945.90	4,651.84	4,614.20	37.64	123.585		
11,400.00	10,600.00	10,602.80	10,589.10	40.25	0.00	90.00	5,302.03	1,945.90	4,557.10	4,519.46	37.65	121.041		
11,500.00	10,600.00	10,602.80	10,589.10	40.79	0.00	90.00	5,302.03	1,945.90	4,462.60	4,424.93	37.67	118.474		
11,600.00	10,600.00	10,602.80	10,589.10	41.37	0.00	90.00	5,302.03	1,945.90	4,368.34	4,330.64	37.70	115.883		
11,700.00	10,600.00	10,602.80	10,589.10	41.99	0.00	90.00	5,302.03	1,945.90	4,274.34	4,236.60	37.74	113.266		
11,800.00	10,600.00	10,602.80	10,589.10	42.65	0.00	90.00	5,302.03	1,945.90	4,180.61	4,142.82	37.79	110.623		
11,900.00	10,600.00	10,602.80	10,589.10	43.35	0.00	90.00	5,302.03	1,945.90	4,087.19	4,049.33	37.86	107.952		
12,000.00	10,600.00	10,602.80	10,589.10	44.09	0.00	90.00	5,302.03	1,945.90	3,994.08	3,956.14	37.95	105.253		
12,100.00	10,600.00	10,602.80	10,589.10	44.86	0.00	90.00	5,302.03	1,945.90	3,901.32	3,863.27	38.05	102.524		
12,200.00	10,600.00	10,602.80	10,589.10	45.67	0.00	90.00	5,302.03	1,945.90	3,808.92	3,770.74	38.18	99.765		
12,300.00	10,600.00	10,602.80	10,589.10	46.50	0.00	90.00	5,302.03	1,945.90	3,716.91	3,678.59	38.33	96.974		
12,400.00	10,600.00	10,602.80	10,589.10	47.37	0.00	90.00	5,302.03	1,945.90	3,625.33	3,586.83	38.51	94.152		
12,500.00	10,600.00	10,602.80	10,589.10	48.26	0.00	90.00	5,302.03	1,945.90	3,534.21	3,495.50	38.71	91.298		
12,600.00	10,600.00	10,602.80	10,589.10	49.18	0.00	90.00	5,302.03	1,945.90	3,443.57	3,404.63	38.95	88.413		
12,700.00	10,600.00	10,602.80	10,589.10	50.13	0.00	90.00	5,302.03	1,945.90	3,353.47	3,314.25	39.22	85.497		
12,800.00	10,600.00	10,602.80	10,589.10	51.10	0.00	90.00	5,302.03	1,945.90	3,263.95	3,224.41	39.54	82.551		
12,900.00	10,600.00	10,602.80	10,589.10	52.09	0.00	90.00	5,302.03	1,945.90	3,175.05	3,135.15	39.90	79.577		
13,000.00	10,600.00	10,602.80	10,589.10	53.10	0.00	90.00	5,302.03	1,945.90	3,086.83	3,046.52	40.31	76.577		
13,100.00	10,600.00	10,602.80	10,589.10	54.14	0.00	90.00	5,302.03	1,945.90	2,999.35	2,958.58	40.78	73.556		
13,200.00	10,600.00	10,602.80	10,589.10	55.19	0.00	90.00	5,302.03	1,945.90	2,912.68	2,871.38	41.30	70.517		
13,300.00	10,600.00	10,602.80	10,589.10	56.26	0.00	90.00	5,302.03	1,945.90	2,826.89	2,784.99	41.90	67.465		
13,400.00	10,600.00	10,602.80	10,589.10	57.35	0.00	90.00	5,302.03	1,945.90	2,742.06	2,699.48	42.57	64.408		
13,500.00	10,600.00	10,602.80	10,589.10	58.45	0.00	90.00	5,302.03	1,945.90	2,658.28	2,614.95	43.33	61.352		
13,600.00	10,600.00	10,602.80	10,589.10	59.57	0.00	90.00	5,302.03	1,945.90	2,575.66	2,531.49	44.17	58.308		
13,700.00	10,600.00	10,602.80	10,589.10	60.71	0.00	90.00	5,302.03	1,945.90	2,494.32	2,449.20	45.12	55.285		
13,800.00	10,600.00	10,602.80	10,589.10	61.85	0.00	90.00	5,302.03	1,945.90	2,414.38	2,368.21	46.17	52.294		
13,900.00	10,600.00	10,602.80	10,589.10	63.01	0.00	90.00	5,302.03	1,945.90	2,335.98	2,288.64	47.34	49.348		
14,000.00	10,600.00	10,602.80	10,589.10	64.18	0.00	90.00	5,302.03	1,945.90	2,259.29	2,210.66	48.63	46.461		
14,100.00	10,600.00	10,602.80	10,589.10	65.37	0.00	90.00	5,302.03	1,945.90	2,184.48	2,134.43	50.05	43.646		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P1v5												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	
14,200.00	10,600.00	10,602.80	10,589.10	66.56	0.00	90.00	5,302.03	1,945.90	2,111.76	2,060.15	51.61	40.916	
14,300.00	10,600.00	10,602.80	10,589.10	67.76	0.00	90.00	5,302.03	1,945.90	2,041.36	1,988.04	53.32	38.287	
14,400.00	10,600.00	10,602.80	10,589.10	68.98	0.00	90.00	5,302.03	1,945.90	1,973.50	1,918.33	55.17	35.772	
14,500.00	10,600.00	10,602.80	10,589.10	70.20	0.00	90.00	5,302.03	1,945.90	1,908.48	1,851.31	57.17	33.384	
14,600.00	10,600.00	10,602.80	10,589.10	71.43	0.00	90.00	5,302.03	1,945.90	1,846.59	1,787.28	59.31	31.134	
14,700.00	10,600.00	10,602.80	10,589.10	72.67	0.00	90.00	5,302.03	1,945.90	1,788.15	1,726.56	61.59	29.033	
14,800.00	10,600.00	10,602.80	10,589.10	73.92	0.00	90.00	5,302.03	1,945.90	1,733.51	1,669.52	63.99	27.091	
14,900.00	10,600.00	10,602.80	10,589.10	75.17	0.00	90.00	5,302.03	1,945.90	1,683.04	1,616.56	66.49	25.314	
15,000.00	10,600.00	10,602.80	10,589.10	76.44	0.00	90.00	5,302.03	1,945.90	1,637.14	1,568.08	69.06	23.707	
15,100.00	10,600.00	10,602.80	10,589.10	77.70	0.00	90.00	5,302.03	1,945.90	1,596.18	1,524.52	71.66	22.273	
15,200.00	10,600.00	10,602.80	10,589.10	78.98	0.00	90.00	5,302.03	1,945.90	1,560.57	1,486.31	74.26	21.015	
15,300.00	10,600.00	10,602.80	10,589.10	80.26	0.00	90.00	5,302.03	1,945.90	1,530.68	1,453.88	76.80	19.931	
15,400.00	10,600.00	10,602.80	10,589.10	81.55	0.00	90.00	5,302.03	1,945.90	1,506.84	1,427.61	79.22	19.020	
15,484.47	10,600.00	10,602.80	10,589.10	82.64	0.00	90.00	5,302.03	1,945.90	1,491.63	1,410.49	81.14	18.383	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.00	16.89	5,302.10	1,610.18	5,541.21	5,540.69	0.52	N/A		
200.00	200.00	181.34	181.34	0.70	0.00	16.89	5,302.36	1,609.71	5,541.32	5,540.62	0.70	7,890.138		
300.00	300.00	285.09	285.09	0.99	0.00	16.88	5,302.76	1,608.83	5,541.45	5,540.46	0.99	5,611.386		
400.00	400.00	393.04	393.02	1.31	0.00	16.87	5,302.98	1,607.91	5,541.39	5,540.08	1.31	4,232.359		
500.00	500.00	494.51	494.49	1.65	0.00	16.86	5,303.17	1,607.05	5,541.33	5,539.68	1.65	3,365.950		
600.00	600.00	601.48	601.46	1.99	0.00	16.85	5,303.36	1,605.86	5,541.17	5,539.18	1.99	2,783.380		
700.00	700.00	706.46	706.43	2.34	0.00	16.83	5,303.44	1,604.56	5,540.89	5,538.55	2.34	2,368.390		
800.00	800.00	803.09	803.06	2.69	0.00	16.82	5,303.44	1,603.66	5,540.61	5,537.92	2.69	2,059.101		
900.00	900.00	902.69	902.65	3.04	0.00	16.81	5,303.45	1,602.66	5,540.34	5,537.29	3.04	1,820.235		
1,000.00	1,000.00	997.89	997.84	3.40	0.00	16.80	5,303.61	1,601.66	5,540.19	5,536.79	3.40	1,630.493		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	0.00	16.80	5,303.59	1,600.77	5,539.92	5,536.17	3.75	1,476.212		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	0.00	16.79	5,303.54	1,600.21	5,539.72	5,535.61	4.11	1,348.405		
1,300.00	1,300.00	1,312.65	1,312.60	4.46	0.00	16.79	5,303.30	1,599.70	5,539.37	5,534.90	4.46	1,240.800		
1,400.00	1,400.00	1,401.25	1,401.20	4.82	0.00	16.78	5,303.12	1,599.31	5,539.04	5,534.22	4.82	1,149.000		
1,500.00	1,500.00	1,489.85	1,489.80	5.18	0.00	16.78	5,303.13	1,598.92	5,538.93	5,533.75	5.18	1,069.822		
1,506.10	1,506.10	1,495.25	1,495.20	5.20	0.00	16.78	5,303.14	1,598.89	5,538.93	5,533.73	5.20	1,065.343		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	0.00	16.77	5,303.32	1,598.53	5,539.00	5,533.46	5.53	1,000.843		
1,700.00	1,700.00	1,670.87	1,670.81	5.89	0.00	16.77	5,303.52	1,598.40	5,539.19	5,533.29	5.89	940.215		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	0.00	16.77	5,303.87	1,598.40	5,539.50	5,533.25	6.25	886.507		
1,900.00	1,900.00	1,870.81	1,870.75	6.61	0.00	16.77	5,304.06	1,598.40	5,539.69	5,533.09	6.61	838.581		
2,000.00	2,000.00	2,002.16	2,002.10	6.96	0.00	16.77	5,304.16	1,598.34	5,539.76	5,532.80	6.96	795.538		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	0.00	-78.72	5,303.93	1,598.20	5,539.34	5,532.02	7.31	757.622		
2,200.00	2,199.96	2,196.79	2,196.74	7.65	0.00	-78.75	5,303.67	1,598.31	5,538.59	5,530.94	7.65	723.859		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	0.00	-78.80	5,303.66	1,598.43	5,537.77	5,529.77	7.99	692.758		
2,399.87	2,399.54	2,373.02	2,372.97	8.34	0.00	-78.86	5,303.81	1,598.68	5,536.82	5,528.48	8.34	664.036		
2,500.00	2,499.43	2,475.41	2,475.35	8.69	0.00	-78.93	5,304.00	1,599.09	5,535.76	5,527.07	8.69	637.337		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	0.00	-79.00	5,304.04	1,599.36	5,534.52	5,525.49	9.03	612.578		
2,700.00	2,698.94	2,664.88	2,664.83	9.39	0.00	-79.06	5,304.16	1,599.54	5,533.42	5,524.03	9.39	589.568		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	0.00	-79.11	5,304.58	1,599.94	5,532.79	5,523.05	9.74	568.186		
2,895.67	2,894.13	2,810.72	2,810.65	10.08	0.00	-79.16	5,305.27	1,600.60	5,532.63	5,522.56	10.08	549.107		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	0.00	-79.16	5,305.31	1,600.64	5,532.63	5,522.54	10.09	548.274		
3,000.00	2,998.21	2,913.30	2,913.22	10.45	0.00	-79.22	5,306.38	1,601.80	5,532.69	5,522.24	10.45	529.656		
3,100.00	3,097.97	3,038.22	3,038.13	10.80	0.00	-79.30	5,307.46	1,603.05	5,532.50	5,521.70	10.80	512.171		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	0.00	-79.37	5,308.14	1,603.72	5,532.03	5,520.87	11.16	495.746		
3,300.00	3,297.48	3,234.73	3,234.62	11.52	0.00	-79.43	5,308.92	1,604.29	5,531.70	5,520.18	11.52	480.317		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	0.00	-79.51	5,309.72	1,604.58	5,531.16	5,519.29	11.88	465.763		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	0.00	-79.60	5,310.42	1,604.72	5,530.50	5,518.26	12.23	452.028		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	0.00	-79.67	5,310.64	1,604.72	5,529.45	5,516.85	12.59	439.023		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	0.00	-79.74	5,310.90	1,604.79	5,528.48	5,515.52	12.96	426.726		
3,800.00	3,796.27	3,764.48	3,764.37	13.32	0.00	-79.80	5,311.12	1,605.16	5,527.56	5,514.24	13.32	415.080		
3,900.00	3,896.02	3,849.64	3,849.53	13.68	0.00	-79.86	5,311.28	1,606.17	5,526.83	5,513.15	13.68	404.047		
4,000.00	3,995.78	3,939.90	3,939.76	14.04	0.00	-79.90	5,311.41	1,608.21	5,526.35	5,512.31	14.04	393.589		
4,100.00	4,095.54	4,031.57	4,031.37	14.40	0.00	-79.93	5,311.30	1,611.61	5,526.02	5,511.61	14.40	383.655		
4,174.29	4,169.65	4,091.74	4,091.47	14.67	0.00	-79.95	5,311.17	1,614.46	5,525.90	5,511.23	14.67	376.597		
4,200.00	4,195.29	4,110.84	4,110.54	14.77	0.00	-79.95	5,311.14	1,615.48	5,525.92	5,511.15	14.77	374.219		
4,300.00	4,295.05	4,183.69	4,183.26	15.13	0.00	-79.96	5,311.08	1,619.97	5,526.27	5,511.14	15.13	365.265		
4,400.00	4,394.81	4,247.00	4,246.40	15.49	0.00	-79.96	5,311.19	1,624.45	5,527.15	5,511.66	15.49	356.772		
4,500.00	4,494.56	4,315.02	4,314.20	15.86	0.00	-79.95	5,311.58	1,629.89	5,528.65	5,512.80	15.85	348.707		
4,600.00	4,594.32	4,443.75	4,442.38	16.22	0.00	-79.93	5,312.31	1,641.82	5,530.53	5,514.31	16.22	340.956		
4,700.00	4,694.08	4,601.99	4,601.87	16.59	0.00	-79.88	5,311.01	1,657.15	5,530.99	5,514.40	16.59	333.448		
4,800.00	4,793.83	4,693.26	4,690.77	16.95	0.00	-79.86	5,310.21	1,665.30	5,531.33	5,514.38	16.95	326.290		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	4,893.59	4,778.85	4,776.06	17.32	0.00	-79.85	5,309.82	1,672.37	5,531.89	5,514.58	17.32	319.446		
5,000.00	4,993.35	4,874.99	4,871.86	17.68	0.00	-79.84	5,309.53	1,680.60	5,532.67	5,514.99	17.68	312.888		
5,100.00	5,093.10	4,990.07	4,986.51	18.05	0.00	-79.82	5,309.05	1,690.39	5,533.34	5,515.29	18.05	306.577		
5,200.00	5,192.86	5,091.58	5,087.66	18.42	0.00	-79.81	5,308.45	1,698.89	5,533.80	5,515.39	18.41	300.508		
5,300.00	5,292.62	5,207.11	5,202.87	18.78	0.00	-79.80	5,307.95	1,707.50	5,534.17	5,515.39	18.78	294.663		
5,400.00	5,392.37	5,324.57	5,320.10	19.15	0.00	-79.81	5,307.27	1,714.98	5,534.08	5,514.93	19.15	289.016		
5,435.10	5,427.39	5,352.75	5,348.21	19.28	0.00	-79.81	5,307.10	1,716.83	5,534.06	5,514.78	19.28	287.087		
5,500.00	5,492.13	5,400.00	5,395.34	19.52	0.00	-79.81	5,306.82	1,720.16	5,534.14	5,514.62	19.51	283.595		
5,600.00	5,591.89	5,458.94	5,454.08	19.88	0.00	-79.80	5,306.65	1,724.93	5,534.82	5,514.94	19.88	278.416		
5,700.00	5,691.64	5,543.61	5,538.39	20.25	0.00	-79.78	5,306.70	1,732.78	5,536.12	5,515.88	20.25	273.446		
5,800.00	5,791.40	5,639.24	5,633.59	20.62	0.00	-79.76	5,306.72	1,741.83	5,537.47	5,516.86	20.61	268.645		
5,900.00	5,891.16	5,759.61	5,753.44	20.98	0.00	-79.74	5,306.76	1,753.04	5,538.81	5,517.82	20.98	263.995		
6,000.00	5,990.91	5,857.08	5,850.52	21.35	0.00	-79.72	5,306.61	1,761.79	5,539.86	5,518.51	21.35	259.503		
6,100.00	6,090.67	5,966.21	5,959.23	21.72	0.00	-79.70	5,306.50	1,771.27	5,540.88	5,519.16	21.72	255.154		
6,200.00	6,190.42	6,067.02	6,059.69	22.09	0.00	-79.69	5,306.32	1,779.66	5,541.72	5,519.64	22.08	250.946		
6,300.00	6,290.18	6,132.83	6,125.26	22.45	0.00	-79.68	5,306.39	1,785.40	5,542.95	5,520.50	22.45	246.910		
6,400.00	6,389.94	6,226.66	6,218.69	22.82	0.00	-79.66	5,306.80	1,793.92	5,544.59	5,521.77	22.82	243.006		
6,500.00	6,489.69	6,344.07	6,335.68	23.19	0.00	-79.65	5,307.32	1,803.86	5,546.07	5,522.89	23.19	239.204		
6,600.00	6,589.45	6,435.36	6,426.61	23.56	0.00	-79.63	5,307.55	1,812.00	5,547.49	5,523.94	23.55	235.532		
6,700.00	6,689.21	6,542.88	6,533.67	23.93	0.00	-79.61	5,307.70	1,821.95	5,548.90	5,524.98	23.92	231.963		
6,800.00	6,788.96	6,652.79	6,643.12	24.29	0.00	-79.59	5,307.82	1,831.88	5,550.22	5,525.93	24.29	228.496		
6,900.00	6,888.72	6,771.79	6,761.70	24.66	0.00	-79.57	5,307.66	1,842.03	5,551.16	5,526.50	24.66	225.114		
7,000.00	6,988.48	6,850.80	6,840.44	25.03	0.00	-79.56	5,307.59	1,848.54	5,552.10	5,527.07	25.03	221.847		
7,100.00	7,088.23	6,925.34	6,914.65	25.40	0.00	-79.55	5,307.78	1,855.46	5,553.60	5,528.21	25.39	218.702		
7,200.00	7,187.99	7,033.10	7,021.97	25.77	0.00	-79.53	5,308.20	1,865.26	5,555.21	5,529.45	25.76	215.632		
7,300.00	7,287.75	7,150.21	7,138.63	26.14	0.00	-79.51	5,308.56	1,875.35	5,556.61	5,530.48	26.13	212.635		
7,400.00	7,387.50	7,240.64	7,228.74	26.50	0.00	-79.50	5,308.70	1,883.04	5,557.84	5,531.34	26.50	209.728		
7,500.00	7,487.26	7,350.27	7,337.88	26.87	0.00	-79.47	5,308.82	1,893.37	5,559.29	5,532.42	26.87	206.900		
7,600.00	7,587.02	7,460.78	7,447.93	27.24	0.00	-79.45	5,308.65	1,903.41	5,560.37	5,533.13	27.24	204.134		
7,700.00	7,686.77	7,569.10	7,555.84	27.61	0.00	-79.43	5,308.45	1,912.87	5,561.32	5,533.72	27.61	201.439		
7,800.00	7,786.53	7,634.08	7,620.54	27.98	0.00	-79.42	5,308.42	1,918.90	5,562.52	5,534.57	27.97	198.841		
7,900.00	7,886.29	7,764.48	7,750.26	28.35	0.00	-79.38	5,308.21	1,932.10	5,563.95	5,535.61	28.35	196.290		
8,000.00	7,986.04	7,893.46	7,878.69	28.72	0.00	-79.35	5,307.43	1,944.08	5,564.67	5,535.95	28.72	193.785		
8,100.00	8,085.80	8,039.82	8,024.47	29.09	0.00	-79.32	5,305.78	1,956.92	5,564.75	5,535.66	29.09	191.325		
8,157.87	8,143.53	8,076.17	8,060.68	29.30	0.00	-79.31	5,305.29	1,960.06	5,564.65	5,535.35	29.30	189.927		
8,200.00	8,185.56	8,104.21	8,088.61	29.46	0.00	-79.31	5,304.97	1,962.60	5,564.70	5,535.25	29.45	188.928		
8,300.00	8,285.31	8,193.47	8,177.47	29.83	0.00	-79.29	5,304.15	1,970.98	5,565.13	5,535.31	29.82	186.606		
8,400.00	8,385.07	8,331.42	8,314.85	30.20	0.00	-79.26	5,302.63	1,983.43	5,565.32	5,535.13	30.19	184.327		
8,500.00	8,484.83	8,444.23	8,427.25	30.56	0.00	-79.24	5,300.86	1,992.88	5,564.84	5,534.28	30.56	182.084		
8,600.00	8,584.58	8,527.88	8,510.55	30.93	0.00	-79.22	5,299.62	2,000.31	5,564.58	5,533.65	30.93	179.902		
8,700.00	8,684.34	8,657.76	8,639.89	31.30	0.00	-79.19	5,297.41	2,012.00	5,564.17	5,532.87	31.30	177.767		
8,800.00	8,784.10	8,785.97	8,767.61	31.67	0.00	-79.16	5,294.66	2,022.91	5,563.19	5,531.52	31.67	175.668		
8,900.00	8,883.85	8,884.50	8,865.79	32.04	0.00	-79.15	5,292.44	2,030.83	5,561.97	5,529.94	32.04	173.604		
9,000.00	8,983.61	8,941.43	8,922.53	32.41	0.00	-79.14	5,291.40	2,035.41	5,561.17	5,528.76	32.41	171.595		
9,046.84	9,030.34	8,967.80	8,948.80	32.58	0.00	-79.14	5,291.04	2,037.64	5,561.06	5,528.48	32.58	170.680		
9,100.00	9,083.37	9,010.83	8,991.67	32.78	0.00	-79.13	5,290.58	2,041.37	5,561.11	5,528.34	32.78	169.660		
9,200.00	9,183.12	9,124.26	9,104.69	33.15	0.00	-79.11	5,289.46	2,050.83	5,561.21	5,528.06	33.15	167.771		
9,300.00	9,282.88	9,229.46	9,209.59	33.52	0.00	-79.10	5,288.34	2,058.68	5,560.96	5,527.45	33.52	165.913		
9,400.00	9,382.64	9,326.46	9,306.36	33.89	0.00	-79.10	5,287.56	2,065.37	5,560.82	5,526.93	33.89	164.100		
9,428.07	9,410.64	9,355.03	9,334.86	33.99	0.00	-79.10	5,287.34	2,067.32	5,560.78	5,526.79	33.99	163.597		
9,500.00	9,482.43	9,479.13	9,458.69	34.26	0.00	-79.09	5,285.80	2,075.43	5,560.41	5,526.15	34.25	162.330		
9,600.00	9,582.36	9,607.37	9,586.67	34.62	0.00	-79.05	5,283.51	2,083.20	5,559.69	5,525.08	34.61	160.626		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
9,694.65	9,677.00	9,737.24	9,716.37	34.95	0.00	16.49	5,280.92	2,089.29	5,558.92	5,523.98	34.94	159.102		
9,700.00	9,682.35	9,744.64	9,723.76	34.97	0.00	16.50	5,280.76	2,089.59	5,558.87	5,523.91	34.96	159.019		
9,800.00	9,782.35	9,832.96	9,812.00	35.31	0.00	16.54	5,278.97	2,093.14	5,558.06	5,522.77	35.30	157.462		
9,900.00	9,882.35	9,957.73	9,936.66	35.65	0.00	16.59	5,276.40	2,097.51	5,557.08	5,521.45	35.64	155.943		
10,000.00	9,982.35	10,070.87	10,049.72	35.99	0.00	16.63	5,273.87	2,100.88	5,555.79	5,519.82	35.97	154.439		
10,044.69	10,027.04	10,126.52	10,105.33	36.14	0.00	16.65	5,272.51	2,102.56	5,555.14	5,519.01	36.12	153.776		
10,050.00	10,032.35	10,137.19	10,115.99	36.16	0.00	17.08	5,272.23	2,102.88	5,555.03	5,518.88	36.14	153.699		
10,100.00	10,082.26	10,225.24	10,203.97	36.32	0.00	17.23	5,269.57	2,105.39	5,551.44	5,515.13	36.31	152.908		
10,150.00	10,131.76	10,281.94	10,260.62	36.49	0.00	17.52	5,267.66	2,106.90	5,543.55	5,507.08	36.47	152.002		
10,200.00	10,180.46	10,333.30	10,311.93	36.65	0.00	17.95	5,265.88	2,108.23	5,531.54	5,494.91	36.63	151.011		
10,250.00	10,227.98	10,380.54	10,359.12	36.81	0.00	18.55	5,264.23	2,109.51	5,515.55	5,478.76	36.78	149.950		
10,300.00	10,273.98	10,429.00	10,407.52	36.95	0.00	19.34	5,262.48	2,110.94	5,495.69	5,458.77	36.93	148.834		
10,350.00	10,318.11	10,476.86	10,455.32	37.09	0.00	20.37	5,260.62	2,112.68	5,472.11	5,435.05	37.06	147.670		
10,400.00	10,360.01	10,520.04	10,498.42	37.21	0.00	21.66	5,258.82	2,114.51	5,444.99	5,407.81	37.18	146.467		
10,450.00	10,399.38	10,559.29	10,537.59	37.32	0.00	23.27	5,257.14	2,116.31	5,414.57	5,377.29	37.28	145.233		
10,500.00	10,435.92	10,594.81	10,573.04	37.42	0.00	25.30	5,255.58	2,118.03	5,381.09	5,343.72	37.37	143.978		
10,550.00	10,469.35	10,626.51	10,604.67	37.51	0.00	27.85	5,254.18	2,119.57	5,344.82	5,307.37	37.45	142.707		
10,600.00	10,499.41	10,640.00	10,618.13	37.59	0.00	30.97	5,253.59	2,120.22	5,306.06	5,268.54	37.52	141.416		
10,650.00	10,525.87	10,650.00	10,628.12	37.66	0.00	34.93	5,253.22	2,120.63	5,265.18	5,227.60	37.58	140.124		
10,700.00	10,548.54	10,650.00	10,628.12	37.74	0.00	39.93	5,253.22	2,120.63	5,222.46	5,184.84	37.62	138.831		
10,750.00	10,567.24	10,650.00	10,628.12	37.84	0.00	46.43	5,253.22	2,120.63	5,178.21	5,140.56	37.65	137.548		
10,800.00	10,581.83	10,650.00	10,628.12	37.97	0.00	54.89	5,253.22	2,120.63	5,132.73	5,095.07	37.66	136.278		
10,850.00	10,592.19	10,658.16	10,636.26	38.11	0.00	65.91	5,253.03	2,120.85	5,086.31	5,048.64	37.67	135.026		
10,900.00	10,598.26	10,659.13	10,637.24	38.25	0.00	78.97	5,253.01	2,120.86	5,039.34	5,001.68	37.67	133.785		
10,944.69	10,600.00	10,659.32	10,637.43	38.39	0.00	91.68	5,253.01	2,120.87	4,997.16	4,959.50	37.66	132.690		
11,000.00	10,600.00	10,659.14	10,637.25	38.56	0.00	91.67	5,253.01	2,120.86	4,944.99	4,907.34	37.65	131.340		
11,100.00	10,600.00	10,658.81	10,636.92	38.91	0.00	91.66	5,253.02	2,120.86	4,850.83	4,813.19	37.64	128.882		
11,200.00	10,600.00	10,658.45	10,636.56	39.31	0.00	91.65	5,253.02	2,120.85	4,756.91	4,719.27	37.63	126.399		
11,300.00	10,600.00	10,658.07	10,636.18	39.76	0.00	91.64	5,253.03	2,120.84	4,663.24	4,625.60	37.64	123.890		
11,400.00	10,600.00	10,657.67	10,635.78	40.25	0.00	91.62	5,253.04	2,120.84	4,569.84	4,532.18	37.66	121.354		
11,500.00	10,600.00	10,650.00	10,628.12	40.79	0.00	91.36	5,253.22	2,120.63	4,476.75	4,439.07	37.69	118.785		
11,600.00	10,600.00	10,650.00	10,628.12	41.37	0.00	91.36	5,253.22	2,120.63	4,383.94	4,346.21	37.73	116.191		
11,700.00	10,600.00	10,650.00	10,628.12	41.99	0.00	91.36	5,253.22	2,120.63	4,291.45	4,253.66	37.79	113.566		
11,800.00	10,600.00	10,650.00	10,628.12	42.65	0.00	91.36	5,253.22	2,120.63	4,199.30	4,161.44	37.86	110.909		
11,900.00	10,600.00	10,650.00	10,628.12	43.35	0.00	91.36	5,253.22	2,120.63	4,107.52	4,069.57	37.96	108.218		
12,000.00	10,600.00	10,650.00	10,628.12	44.09	0.00	91.36	5,253.22	2,120.63	4,016.13	3,978.06	38.07	105.494		
12,100.00	10,600.00	10,650.00	10,628.12	44.86	0.00	91.36	5,253.22	2,120.63	3,925.17	3,886.96	38.21	102.734		
12,200.00	10,600.00	10,650.00	10,628.12	45.67	0.00	91.36	5,253.22	2,120.63	3,834.65	3,796.28	38.37	99.940		
12,300.00	10,600.00	10,650.00	10,628.12	46.50	0.00	91.36	5,253.22	2,120.63	3,744.61	3,706.05	38.56	97.109		
12,400.00	10,600.00	10,650.00	10,628.12	47.37	0.00	91.36	5,253.22	2,120.63	3,655.10	3,616.31	38.78	94.243		
12,500.00	10,600.00	10,650.00	10,628.12	48.26	0.00	91.36	5,253.22	2,120.63	3,566.14	3,527.10	39.04	91.342		
12,600.00	10,600.00	10,650.00	10,628.12	49.18	0.00	91.36	5,253.22	2,120.63	3,477.78	3,438.44	39.34	88.407		
12,700.00	10,600.00	10,650.00	10,628.12	50.13	0.00	91.36	5,253.22	2,120.63	3,390.07	3,350.39	39.68	85.440		
12,800.00	10,600.00	10,647.25	10,625.37	51.10	0.00	91.26	5,253.31	2,120.53	3,303.05	3,262.98	40.06	82.443		
12,900.00	10,600.00	10,645.83	10,623.95	52.09	0.00	91.21	5,253.36	2,120.48	3,216.79	3,176.28	40.50	79.420		
13,000.00	10,600.00	10,644.24	10,622.36	53.10	0.00	91.16	5,253.42	2,120.41	3,131.34	3,090.34	41.00	76.376		
13,100.00	10,600.00	10,642.42	10,620.55	54.14	0.00	91.09	5,253.49	2,120.34	3,046.77	3,005.22	41.56	73.314		
13,200.00	10,600.00	10,640.67	10,618.80	55.19	0.00	91.03	5,253.56	2,120.26	2,963.17	2,920.98	42.18	70.243		
13,300.00	10,600.00	10,636.24	10,614.38	56.26	0.00	90.88	5,253.76	2,120.04	2,880.61	2,837.72	42.89	67.169		
13,400.00	10,600.00	10,631.80	10,609.95	57.35	0.00	90.73	5,253.95	2,119.82	2,799.17	2,755.50	43.67	64.101		
13,500.00	10,600.00	10,627.37	10,605.52	58.45	0.00	90.57	5,254.15	2,119.61	2,718.97	2,674.43	44.54	61.048		
13,600.00	10,600.00	10,622.93	10,601.10	59.57	0.00	90.42	5,254.34	2,119.39	2,640.11	2,594.61	45.50	58.022		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P2v1												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	10,618.49	10,596.67	60.71	0.00	90.26	5,254.54	2,119.18	2,562.72	2,516.16	46.57	55.033	
13,800.00	10,600.00	10,614.06	10,592.24	61.85	0.00	90.11	5,254.73	2,118.96	2,486.94	2,439.20	47.74	52.095	
13,900.00	10,600.00	10,609.62	10,587.82	63.01	0.00	89.96	5,254.93	2,118.75	2,412.91	2,363.89	49.02	49.219	
14,000.00	10,600.00	10,605.18	10,583.39	64.18	0.00	89.80	5,255.12	2,118.53	2,340.81	2,290.38	50.43	46.419	
14,100.00	10,600.00	10,600.75	10,578.96	65.37	0.00	89.65	5,255.32	2,118.31	2,270.81	2,218.86	51.95	43.708	
14,200.00	10,600.00	10,596.31	10,574.54	66.56	0.00	89.49	5,255.51	2,118.10	2,203.12	2,149.52	53.61	41.099	
14,300.00	10,600.00	10,591.88	10,570.11	67.76	0.00	89.34	5,255.71	2,117.88	2,137.96	2,082.57	55.38	38.603	
14,400.00	10,600.00	10,587.44	10,566.68	68.98	0.00	89.18	5,255.90	2,117.67	2,075.56	2,018.27	57.29	36.231	
14,500.00	10,600.00	10,583.00	10,561.26	70.20	0.00	89.03	5,256.10	2,117.45	2,016.18	1,956.87	59.31	33.994	
14,600.00	10,600.00	10,578.57	10,556.83	71.43	0.00	88.88	5,256.29	2,117.24	1,960.10	1,898.66	61.44	31.901	
14,700.00	10,600.00	10,574.38	10,552.65	72.67	0.00	88.73	5,256.48	2,117.03	1,907.60	1,843.93	63.68	29.957	
14,800.00	10,600.00	10,570.34	10,548.62	73.92	0.00	88.59	5,256.66	2,116.84	1,859.00	1,793.01	65.99	28.170	
14,900.00	10,600.00	10,566.33	10,544.61	75.17	0.00	88.45	5,256.83	2,116.64	1,814.60	1,746.23	68.37	26.542	
15,000.00	10,600.00	10,562.33	10,540.63	76.44	0.00	88.31	5,257.01	2,116.45	1,774.72	1,703.94	70.77	25.076	
15,100.00	10,600.00	10,558.36	10,536.67	77.70	0.00	88.17	5,257.18	2,116.27	1,739.67	1,666.49	73.18	23.772	
15,200.00	10,600.00	10,554.41	10,532.73	78.98	0.00	88.04	5,257.35	2,116.08	1,709.75	1,634.20	75.55	22.631	
15,300.00	10,600.00	10,550.48	10,528.80	80.26	0.00	87.90	5,257.52	2,115.90	1,685.23	1,607.39	77.84	21.651	
15,400.00	10,600.00	10,546.58	10,524.91	81.55	0.00	87.76	5,257.69	2,115.71	1,666.35	1,586.34	80.01	20.827	
15,484.47	10,600.00	10,543.29	10,521.63	82.64	0.00	87.65	5,257.83	2,115.56	1,654.94	1,573.21	81.72	20.251	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
2,399.87	2,399.54	10,640.00	10,618.13	8.34	0.00	-79.39	5,253.59	2,120.22	9,988.76	9,983.17	5.59	1,785.360		
2,500.00	2,499.43	10,640.00	10,618.13	8.69	0.00	-79.39	5,253.59	2,120.22	9,905.50	9,899.67	5.83	1,699.271		
2,600.00	2,599.19	10,640.00	10,618.13	9.03	0.00	-79.39	5,253.59	2,120.22	9,822.67	9,816.60	6.07	1,618.695		
2,700.00	2,698.94	10,640.00	10,618.13	9.39	0.00	-79.39	5,253.59	2,120.22	9,740.16	9,733.85	6.31	1,542.933		
2,800.00	2,798.70	10,640.00	10,618.13	9.74	0.00	-79.39	5,253.59	2,120.22	9,657.99	9,651.42	6.56	1,471.659		
2,900.00	2,898.46	10,640.00	10,618.13	10.09	0.00	-79.39	5,253.59	2,120.22	9,576.15	9,569.33	6.82	1,404.566		
3,000.00	2,998.21	10,640.00	10,618.13	10.45	0.00	-79.39	5,253.59	2,120.22	9,494.65	9,487.58	7.08	1,341.366		
3,100.00	3,097.97	10,640.00	10,618.13	10.80	0.00	-79.39	5,253.59	2,120.22	9,413.52	9,406.18	7.34	1,281.790		
3,200.00	3,197.73	10,640.00	10,618.13	11.16	0.00	-79.39	5,253.59	2,120.22	9,332.75	9,325.14	7.61	1,225.589		
3,300.00	3,197.48	10,640.00	10,618.13	11.52	0.00	-79.39	5,253.59	2,120.22	9,252.36	9,244.47	7.89	1,172.532		
3,400.00	3,197.24	10,640.00	10,618.13	11.88	0.00	-79.39	5,253.59	2,120.22	9,172.35	9,164.18	8.17	1,122.403		
3,500.00	3,197.00	10,640.00	10,618.13	12.24	0.00	-79.39	5,253.59	2,120.22	9,092.74	9,084.28	8.46	1,075.005		
3,600.00	3,196.75	10,640.00	10,618.13	12.60	0.00	-79.39	5,253.59	2,120.22	9,013.53	9,004.78	8.75	1,030.155		
3,700.00	3,196.51	10,640.00	10,618.13	12.96	0.00	-79.39	5,253.59	2,120.22	8,934.75	8,925.70	9.05	987.684		
3,800.00	3,196.27	10,640.00	10,618.13	13.32	0.00	-79.39	5,253.59	2,120.22	8,856.39	8,847.04	9.35	947.437		
3,900.00	3,196.02	10,640.00	10,618.13	13.68	0.00	-79.39	5,253.59	2,120.22	8,778.47	8,768.81	9.65	909.269		
4,000.00	3,195.78	10,640.00	10,618.13	14.04	0.00	-79.39	5,253.59	2,120.22	8,701.00	8,691.03	9.97	873.048		
4,100.00	4,095.54	10,640.00	10,618.13	14.40	0.00	-79.39	5,253.59	2,120.22	8,623.99	8,613.71	10.28	838.651		
4,200.00	4,195.29	10,640.00	10,618.13	14.77	0.00	-79.39	5,253.59	2,120.22	8,547.46	8,536.86	10.61	805.965		
4,300.00	4,295.05	10,640.00	10,618.13	15.13	0.00	-79.39	5,253.59	2,120.22	8,471.42	8,460.49	10.93	774.885		
4,400.00	4,394.81	10,640.00	10,618.13	15.49	0.00	-79.39	5,253.59	2,120.22	8,395.89	8,384.62	11.26	745.314		
4,500.00	4,494.56	10,640.00	10,618.13	15.86	0.00	-79.39	5,253.59	2,120.22	8,320.87	8,309.26	11.60	717.163		
4,600.00	4,594.32	10,640.00	10,618.13	16.22	0.00	-79.39	5,253.59	2,120.22	8,246.37	8,234.43	11.95	690.347		
4,700.00	4,694.08	10,640.00	10,618.13	16.59	0.00	-79.39	5,253.59	2,120.22	8,172.43	8,160.13	12.29	664.791		
4,800.00	4,793.83	10,640.00	10,618.13	16.95	0.00	-79.39	5,253.59	2,120.22	8,099.04	8,086.39	12.65	640.422		
4,900.00	4,893.59	10,640.00	10,618.13	17.32	0.00	-79.39	5,253.59	2,120.22	8,026.23	8,013.22	13.00	617.173		
5,000.00	4,993.35	10,640.00	10,618.13	17.68	0.00	-79.39	5,253.59	2,120.22	7,954.01	7,940.64	13.37	594.984		
5,100.00	5,093.10	10,640.00	10,618.13	18.05	0.00	-79.39	5,253.59	2,120.22	7,882.39	7,868.66	13.74	573.795		
5,200.00	5,192.86	10,640.00	10,618.13	18.42	0.00	-79.39	5,253.59	2,120.22	7,811.40	7,797.29	14.11	553.554		
5,300.00	5,292.62	10,640.00	10,618.13	18.78	0.00	-79.39	5,253.59	2,120.22	7,741.05	7,726.56	14.49	534.211		
5,400.00	5,392.37	10,640.00	10,618.13	19.15	0.00	-79.39	5,253.59	2,120.22	7,671.36	7,656.49	14.88	515.719		
5,500.00	5,492.13	10,640.00	10,618.13	19.52	0.00	-79.39	5,253.59	2,120.22	7,602.35	7,587.08	15.26	498.033		
5,600.00	5,591.89	10,640.00	10,618.13	19.88	0.00	-79.39	5,253.59	2,120.22	7,534.03	7,518.37	15.66	481.114		
5,700.00	5,691.64	10,640.00	10,618.13	20.25	0.00	-79.39	5,253.59	2,120.22	7,466.42	7,450.36	16.06	464.923		
5,800.00	5,791.40	10,640.00	10,618.13	20.62	0.00	-79.39	5,253.59	2,120.22	7,399.55	7,383.09	16.46	449.425		
5,900.00	5,891.16	10,640.00	10,618.13	20.98	0.00	-79.39	5,253.59	2,120.22	7,333.43	7,316.56	16.87	434.585		
6,000.00	5,990.91	10,640.00	10,618.13	21.35	0.00	-79.39	5,253.59	2,120.22	7,268.09	7,250.80	17.29	420.373		
6,100.00	6,090.67	10,640.00	10,618.13	21.72	0.00	-79.39	5,253.59	2,120.22	7,203.54	7,185.83	17.71	406.759		
6,200.00	6,190.42	10,640.00	10,618.13	22.09	0.00	-79.39	5,253.59	2,120.22	7,139.81	7,121.68	18.13	393.714		
6,300.00	6,290.18	10,640.00	10,618.13	22.45	0.00	-79.39	5,253.59	2,120.22	7,076.92	7,058.36	18.56	381.214		
6,400.00	6,389.94	10,640.00	10,618.13	22.82	0.00	-79.39	5,253.59	2,120.22	7,014.89	6,995.89	19.00	369.234		
6,500.00	6,489.69	10,640.00	10,618.13	23.19	0.00	-79.39	5,253.59	2,120.22	6,953.75	6,934.31	19.44	357.750		
6,600.00	6,589.45	10,640.00	10,618.13	23.56	0.00	-79.39	5,253.59	2,120.22	6,893.51	6,873.63	19.88	346.741		
6,700.00	6,689.21	10,640.00	10,618.13	23.93	0.00	-79.39	5,253.59	2,120.22	6,834.20	6,813.88	20.33	336.186		
6,800.00	6,788.96	10,640.00	10,618.13	24.29	0.00	-79.39	5,253.59	2,120.22	6,775.86	6,755.08	20.78	326.065		
6,900.00	6,888.72	10,640.00	10,618.13	24.66	0.00	-79.39	5,253.59	2,120.22	6,718.49	6,697.26	21.24	316.361		
7,000.00	6,988.48	10,640.00	10,618.13	25.03	0.00	-79.39	5,253.59	2,120.22	6,662.13	6,640.44	21.70	307.057		
7,100.00	7,088.23	10,640.00	10,618.13	25.40	0.00	-79.39	5,253.59	2,120.22	6,606.81	6,584.65	22.16	298.135		
7,200.00	7,187.99	10,640.00	10,618.13	25.77	0.00	-79.39	5,253.59	2,120.22	6,552.54	6,529.91	22.63	289.580		
7,300.00	7,287.75	10,640.00	10,618.13	26.14	0.00	-79.39	5,253.59	2,120.22	6,499.36	6,476.26	23.10	281.378		
7,400.00	7,387.50	10,640.00	10,618.13	26.50	0.00	-79.39	5,253.59	2,120.22	6,447.29	6,423.72	23.57	273.514		
7,500.00	7,487.26	10,640.00	10,618.13	26.87	0.00	-79.39	5,253.59	2,120.22	6,396.36	6,372.32	24.05	265.976		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
7,600.00	7,587.02	10,640.00	10,618.13	27.24	0.00	-79.39	5,253.59	2,120.22	6,346.60	6,322.07	24.53	258.751		
7,700.00	7,686.77	10,640.00	10,618.13	27.61	0.00	-79.39	5,253.59	2,120.22	6,298.04	6,273.03	25.01	251.828		
7,800.00	7,786.53	10,640.00	10,618.13	27.98	0.00	-79.39	5,253.59	2,120.22	6,250.69	6,225.20	25.49	245.194		
7,900.00	7,886.29	10,640.00	10,618.13	28.35	0.00	-79.39	5,253.59	2,120.22	6,204.60	6,178.62	25.98	238.839		
8,000.00	7,986.04	10,640.00	10,618.13	28.72	0.00	-79.39	5,253.59	2,120.22	6,159.78	6,133.32	26.46	232.753		
8,100.00	8,085.80	10,640.00	10,618.13	29.09	0.00	-79.39	5,253.59	2,120.22	6,116.27	6,089.32	26.95	226.926		
8,200.00	8,185.56	10,640.00	10,618.13	29.46	0.00	-79.39	5,253.59	2,120.22	6,074.10	6,046.66	27.44	221.349		
8,300.00	8,285.31	10,640.00	10,618.13	29.83	0.00	-79.39	5,253.59	2,120.22	6,033.29	6,005.36	27.93	216.013		
8,400.00	8,385.07	10,640.00	10,618.13	30.20	0.00	-79.39	5,253.59	2,120.22	5,993.87	5,965.45	28.42	210.910		
8,500.00	8,484.83	10,640.00	10,618.13	30.56	0.00	-79.39	5,253.59	2,120.22	5,955.87	5,926.96	28.91	206.032		
8,600.00	8,584.58	10,640.00	10,618.13	30.93	0.00	-79.39	5,253.59	2,120.22	5,919.31	5,889.92	29.40	201.370		
8,700.00	8,684.34	10,640.00	10,618.13	31.30	0.00	-79.39	5,253.59	2,120.22	5,884.23	5,854.35	29.88	196.918		
8,800.00	8,784.10	10,640.00	10,618.13	31.67	0.00	-79.39	5,253.59	2,120.22	5,850.64	5,820.28	30.37	192.668		
8,900.00	8,883.85	10,640.00	10,618.13	32.04	0.00	-79.39	5,253.59	2,120.22	5,818.58	5,787.73	30.85	188.614		
9,000.00	8,983.61	10,640.00	10,618.13	32.41	0.00	-79.39	5,253.59	2,120.22	5,788.07	5,756.75	31.33	184.750		
9,100.00	9,083.37	10,640.00	10,618.13	32.78	0.00	-79.39	5,253.59	2,120.22	5,759.14	5,727.33	31.81	181.068		
9,200.00	9,183.12	10,640.00	10,618.13	33.15	0.00	-79.39	5,253.59	2,120.22	5,731.80	5,699.52	32.28	177.564		
9,300.00	9,282.88	10,640.00	10,618.13	33.52	0.00	-79.39	5,253.59	2,120.22	5,706.09	5,673.34	32.75	174.231		
9,400.00	9,382.64	10,640.00	10,618.13	33.89	0.00	-79.39	5,253.59	2,120.22	5,682.02	5,648.81	33.22	171.065		
9,428.07	9,410.64	10,640.00	10,618.13	33.99	0.00	-79.39	5,253.59	2,120.22	5,675.56	5,642.22	33.35	170.205		
9,500.00	9,482.43	10,640.00	10,618.13	34.26	0.00	-79.15	5,253.59	2,120.22	5,659.74	5,626.06	33.67	168.071		
9,600.00	9,582.36	10,640.00	10,618.13	34.62	0.00	-78.85	5,253.59	2,120.22	5,639.61	5,605.48	34.12	165.280		
9,694.65	9,677.00	10,640.00	10,618.13	34.95	0.00	16.88	5,253.59	2,120.22	5,622.58	5,588.05	34.53	162.843		
9,700.00	9,682.35	10,640.00	10,618.13	34.97	0.00	16.88	5,253.59	2,120.22	5,621.68	5,587.13	34.55	162.712		
9,800.00	9,782.35	10,640.00	10,618.13	35.31	0.00	16.88	5,253.59	2,120.22	5,605.71	5,570.74	34.96	160.326		
9,900.00	9,882.35	10,640.00	10,618.13	35.65	0.00	16.88	5,253.59	2,120.22	5,591.48	5,556.10	35.37	158.075		
10,000.00	9,982.35	10,640.00	10,618.13	35.99	0.00	16.88	5,253.59	2,120.22	5,579.00	5,543.23	35.77	155.953		
10,044.69	10,027.04	10,640.00	10,618.13	36.14	0.00	16.88	5,253.59	2,120.22	5,574.00	5,538.05	35.95	155.045		
10,050.00	10,032.35	10,640.00	10,618.13	36.16	0.00	17.32	5,253.59	2,120.22	5,573.40	5,537.43	35.97	154.938		
10,100.00	10,082.26	10,640.00	10,618.13	36.32	0.00	17.55	5,253.59	2,120.22	5,565.77	5,529.60	36.17	153.892		
10,150.00	10,131.76	10,640.00	10,618.13	36.49	0.00	17.91	5,253.59	2,120.22	5,554.49	5,518.13	36.36	152.781		
10,200.00	10,180.46	10,640.00	10,618.13	36.65	0.00	18.39	5,253.59	2,120.22	5,539.62	5,503.08	36.54	151.617		
10,250.00	10,227.98	10,640.00	10,618.13	36.81	0.00	19.02	5,253.59	2,120.22	5,521.25	5,484.54	36.71	150.411		
10,300.00	10,273.98	10,640.00	10,618.13	36.95	0.00	19.83	5,253.59	2,120.22	5,499.48	5,462.61	36.87	149.172		
10,350.00	10,318.11	10,640.00	10,618.13	37.09	0.00	20.84	5,253.59	2,120.22	5,474.44	5,437.43	37.01	147.907		
10,400.00	10,360.01	10,640.00	10,618.13	37.21	0.00	22.08	5,253.59	2,120.22	5,446.28	5,409.14	37.14	146.624		
10,450.00	10,399.38	10,640.00	10,618.13	37.32	0.00	23.63	5,253.59	2,120.22	5,415.16	5,377.90	37.26	145.328		
10,500.00	10,435.92	10,640.00	10,618.13	37.42	0.00	25.55	5,253.59	2,120.22	5,381.28	5,343.92	37.36	144.026		
10,550.00	10,469.35	10,640.00	10,618.13	37.51	0.00	27.94	5,253.59	2,120.22	5,344.84	5,307.39	37.45	142.720		
10,600.00	10,499.41	10,640.00	10,618.13	37.59	0.00	30.97	5,253.59	2,120.22	5,306.06	5,268.54	37.52	141.416		
10,650.00	10,525.87	10,650.00	10,628.11	37.66	1.16	34.93	5,253.22	2,120.63	5,265.18	5,227.58	37.60	140.017		
10,700.00	10,548.54	10,650.00	10,628.11	37.74	1.16	39.93	5,253.22	2,120.63	5,222.46	5,184.73	37.73	138.420		
10,750.00	10,567.24	10,650.00	10,628.11	37.84	1.16	46.43	5,253.22	2,120.63	5,178.21	5,140.38	37.83	136.888		
10,800.00	10,581.83	10,650.00	10,628.11	37.97	1.16	54.89	5,253.22	2,120.63	5,132.73	5,094.83	37.90	135.431		
10,850.00	10,592.19	10,658.44	10,636.55	38.11	1.16	65.91	5,253.02	2,120.86	5,086.31	5,048.40	37.91	134.169		
10,900.00	10,598.26	10,659.43	10,637.54	38.25	1.16	78.98	5,253.00	2,120.88	5,039.34	5,001.42	37.92	132.881		
10,944.69	10,600.00	10,659.62	10,637.73	38.39	1.16	91.69	5,253.00	2,120.88	4,997.16	4,959.24	37.92	131.787		
11,000.00	10,600.00	10,659.44	10,637.55	38.56	1.16	91.68	5,253.00	2,120.88	4,944.98	4,907.08	37.90	130.464		
11,100.00	10,600.00	10,659.10	10,637.21	38.91	1.16	91.67	5,253.01	2,120.87	4,850.83	4,812.94	37.88	128.055		
11,200.00	10,600.00	10,658.73	10,636.84	39.31	1.16	91.66	5,253.01	2,120.86	4,756.91	4,719.04	37.87	125.622		
11,300.00	10,600.00	10,658.35	10,636.46	39.76	1.16	91.65	5,253.02	2,120.85	4,663.24	4,625.38	37.86	123.163		
11,400.00	10,600.00	10,657.94	10,636.05	40.25	1.16	91.63	5,253.03	2,120.85	4,569.84	4,531.97	37.87	120.676		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
11,500.00	10,600.00	10,650.00	10,628.11	40.79	1.16	91.36	5,253.22	2,120.63	4,476.75	4,438.83	37.92	118.056		
11,600.00	10,600.00	10,650.00	10,628.11	41.37	1.16	91.36	5,253.22	2,120.63	4,383.94	4,345.99	37.95	115.519		
11,700.00	10,600.00	10,650.00	10,628.11	41.99	1.16	91.36	5,253.22	2,120.63	4,291.45	4,253.45	37.99	112.950		
11,800.00	10,600.00	10,650.00	10,628.11	42.65	1.16	91.36	5,253.22	2,120.63	4,199.30	4,161.25	38.05	110.350		
11,900.00	10,600.00	10,650.00	10,628.11	43.35	1.16	91.36	5,253.22	2,120.63	4,107.52	4,069.39	38.13	107.716		
12,000.00	10,600.00	10,650.00	10,628.11	44.09	1.16	91.36	5,253.22	2,120.63	4,016.13	3,977.90	38.23	105.048		
12,100.00	10,600.00	10,650.00	10,628.11	44.86	1.16	91.36	5,253.22	2,120.63	3,925.17	3,886.81	38.35	102.345		
12,200.00	10,600.00	10,650.00	10,628.11	45.67	1.16	91.36	5,253.22	2,120.63	3,834.65	3,796.15	38.50	99.607		
12,300.00	10,600.00	10,650.00	10,628.11	46.50	1.16	91.36	5,253.22	2,120.63	3,744.61	3,705.94	38.67	96.832		
12,400.00	10,600.00	10,650.00	10,628.11	47.37	1.16	91.36	5,253.22	2,120.63	3,655.10	3,616.22	38.88	94.021		
12,500.00	10,600.00	10,650.00	10,628.11	48.26	1.16	91.36	5,253.22	2,120.63	3,566.14	3,527.02	39.11	91.174		
12,600.00	10,600.00	10,650.00	10,628.11	49.18	1.16	91.36	5,253.22	2,120.63	3,477.78	3,438.39	39.39	88.291		
12,700.00	10,600.00	10,650.00	10,628.11	50.13	1.16	91.36	5,253.22	2,120.63	3,390.07	3,350.36	39.71	85.374		
12,800.00	10,600.00	10,647.33	10,625.45	51.10	0.85	91.26	5,253.31	2,120.54	3,303.05	3,262.96	40.08	82.402		
12,900.00	10,600.00	10,645.90	10,624.02	52.09	0.69	91.21	5,253.36	2,120.48	3,216.79	3,176.27	40.52	79.397		
13,000.00	10,600.00	10,644.28	10,622.40	53.10	0.50	91.16	5,253.42	2,120.42	3,131.34	3,090.33	41.01	76.356		
13,100.00	10,600.00	10,642.45	10,620.57	54.14	0.28	91.09	5,253.49	2,120.34	3,046.78	3,005.21	41.57	73.298		
13,200.00	10,600.00	10,640.00	10,618.13	55.19	0.00	91.01	5,253.59	2,120.22	2,963.17	2,920.99	42.18	70.243		
13,300.00	10,600.00	10,640.00	10,618.13	56.26	0.00	91.01	5,253.59	2,120.22	2,880.61	2,837.72	42.89	67.169		
13,400.00	10,600.00	10,640.00	10,618.13	57.35	0.00	91.01	5,253.59	2,120.22	2,799.18	2,755.52	43.67	64.100		
13,500.00	10,600.00	10,640.00	10,618.13	58.45	0.00	91.01	5,253.59	2,120.22	2,719.00	2,674.46	44.54	61.048		
13,600.00	10,600.00	10,640.00	10,618.13	59.57	0.00	91.01	5,253.59	2,120.22	2,640.17	2,594.66	45.50	58.021		
13,700.00	10,600.00	10,640.00	10,618.13	60.71	0.00	91.01	5,253.59	2,120.22	2,562.81	2,516.25	46.57	55.033		
13,800.00	10,600.00	10,640.00	10,618.13	61.85	0.00	91.01	5,253.59	2,120.22	2,487.08	2,439.33	47.74	52.094		
13,900.00	10,600.00	10,640.00	10,618.13	63.01	0.00	91.01	5,253.59	2,120.22	2,413.10	2,364.08	49.03	49.219		
14,000.00	10,600.00	10,640.00	10,618.13	64.18	0.00	91.01	5,253.59	2,120.22	2,341.07	2,290.64	50.43	46.420		
14,100.00	10,600.00	10,640.00	10,618.13	65.37	0.00	91.01	5,253.59	2,120.22	2,271.15	2,219.19	51.96	43.710		
14,200.00	10,600.00	10,640.00	10,618.13	66.56	0.00	91.01	5,253.59	2,120.22	2,203.56	2,149.94	53.61	41.102		
14,300.00	10,600.00	10,640.00	10,618.13	67.76	0.00	91.01	5,253.59	2,120.22	2,138.50	2,083.11	55.39	38.608		
14,400.00	10,600.00	10,640.00	10,618.13	68.98	0.00	91.01	5,253.59	2,120.22	2,076.22	2,018.93	57.29	36.239		
14,500.00	10,600.00	10,640.00	10,618.13	70.20	0.00	91.01	5,253.59	2,120.22	2,016.99	1,957.67	59.32	34.005		
14,600.00	10,600.00	10,640.00	10,618.13	71.43	0.00	91.01	5,253.59	2,120.22	1,961.06	1,899.61	61.45	31.914		
14,700.00	10,600.00	10,640.00	10,618.13	72.67	0.00	91.01	5,253.59	2,120.22	1,908.74	1,845.06	63.68	29.974		
14,800.00	10,600.00	10,640.00	10,618.13	73.92	0.00	91.01	5,253.59	2,120.22	1,860.33	1,794.34	65.99	28.191		
14,900.00	10,600.00	10,640.00	10,618.13	75.17	0.00	91.01	5,253.59	2,120.22	1,816.14	1,747.77	68.36	26.567		
15,000.00	10,600.00	10,640.00	10,618.13	76.44	0.00	91.01	5,253.59	2,120.22	1,776.48	1,705.72	70.76	25.105		
15,100.00	10,600.00	10,640.00	10,618.13	77.70	0.00	91.01	5,253.59	2,120.22	1,741.67	1,668.51	73.16	23.807		
15,200.00	10,600.00	10,640.00	10,618.13	78.98	0.00	91.01	5,253.59	2,120.22	1,712.00	1,636.48	75.52	22.671		
15,300.00	10,600.00	10,640.00	10,618.13	80.26	0.00	91.01	5,253.59	2,120.22	1,687.74	1,609.94	77.79	21.695		
15,400.00	10,600.00	10,640.00	10,618.13	81.55	0.00	91.01	5,253.59	2,120.22	1,669.13	1,589.18	79.95	20.877		
15,484.47	10,600.00	10,640.00	10,618.13	82.64	0.00	91.01	5,253.59	2,120.22	1,657.95	1,576.30	81.65	20.305 CC, ES, SF		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.00	16.89	5,302.10	1,610.18	5,541.21	5,540.69	0.52	N/A		
200.00	200.00	181.34	181.34	0.70	0.00	16.89	5,302.36	1,609.71	5,541.32	5,540.62	0.70	7,890.138		
300.00	300.00	285.09	285.09	0.99	0.00	16.88	5,302.76	1,608.83	5,541.45	5,540.46	0.99	5,611.386		
400.00	400.00	393.04	393.02	1.31	0.00	16.87	5,302.98	1,607.91	5,541.39	5,540.08	1.31	4,232.359		
500.00	500.00	494.51	494.49	1.65	0.00	16.86	5,303.17	1,607.05	5,541.33	5,539.68	1.65	3,365.950		
600.00	600.00	601.48	601.46	1.99	0.00	16.85	5,303.36	1,605.86	5,541.17	5,539.18	1.99	2,783.380		
700.00	700.00	706.46	706.43	2.34	0.00	16.83	5,303.44	1,604.56	5,540.89	5,538.55	2.34	2,368.390		
800.00	800.00	803.09	803.06	2.69	0.00	16.82	5,303.44	1,603.66	5,540.61	5,537.92	2.69	2,059.101		
900.00	900.00	902.69	902.65	3.04	0.00	16.81	5,303.45	1,602.66	5,540.34	5,537.29	3.04	1,820.235		
1,000.00	1,000.00	997.89	997.84	3.40	0.00	16.80	5,303.61	1,601.66	5,540.19	5,536.79	3.40	1,630.493		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	0.00	16.80	5,303.59	1,600.77	5,539.92	5,536.17	3.75	1,476.212		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	0.00	16.79	5,303.54	1,600.21	5,539.72	5,535.61	4.11	1,348.405		
1,300.00	1,300.00	1,312.65	1,312.60	4.46	0.00	16.79	5,303.30	1,599.70	5,539.37	5,534.90	4.46	1,240.800		
1,400.00	1,400.00	1,401.25	1,401.20	4.82	0.00	16.78	5,303.12	1,599.31	5,539.04	5,534.22	4.82	1,149.000		
1,500.00	1,500.00	1,489.85	1,489.80	5.18	0.00	16.78	5,303.13	1,598.92	5,538.93	5,533.75	5.18	1,069.822		
1,506.10	1,506.10	1,495.25	1,495.20	5.20	0.00	16.78	5,303.14	1,598.89	5,538.93	5,533.73	5.20	1,065.343		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	0.00	16.77	5,303.32	1,598.53	5,539.00	5,533.46	5.53	1,000.843		
1,700.00	1,700.00	1,670.87	1,670.81	5.89	0.00	16.77	5,303.52	1,598.40	5,539.19	5,533.29	5.89	940.215		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	0.00	16.77	5,303.87	1,598.40	5,539.50	5,533.25	6.25	886.507		
1,900.00	1,900.00	1,870.81	1,870.75	6.61	0.00	16.77	5,304.06	1,598.40	5,539.69	5,533.09	6.61	838.581		
2,000.00	2,000.00	2,002.16	2,002.10	6.96	0.00	16.77	5,304.16	1,598.34	5,539.76	5,532.80	6.96	795.538		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	0.00	-78.72	5,303.93	1,598.20	5,539.34	5,532.02	7.31	757.622		
2,200.00	2,199.96	2,196.79	2,196.74	7.65	0.00	-78.75	5,303.67	1,598.31	5,538.59	5,530.94	7.65	723.859		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	0.00	-78.80	5,303.66	1,598.43	5,537.77	5,529.77	7.99	692.758		
2,399.87	2,399.54	2,373.02	2,372.97	8.34	0.00	-78.86	5,303.81	1,598.68	5,536.82	5,528.48	8.34	664.036		
2,500.00	2,499.43	2,475.41	2,475.35	8.69	0.00	-78.93	5,304.00	1,599.09	5,535.76	5,527.07	8.69	637.337		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	0.00	-79.00	5,304.04	1,599.36	5,534.52	5,525.49	9.03	612.578		
2,700.00	2,698.94	2,664.89	2,664.83	9.39	0.00	-79.06	5,304.16	1,599.54	5,533.42	5,524.03	9.39	589.568		
2,800.00	2,798.70	2,737.01	2,736.94	9.74	0.00	-79.11	5,304.58	1,599.94	5,532.79	5,523.05	9.74	568.186		
2,895.67	2,894.14	2,810.72	2,810.65	10.08	0.00	-79.16	5,305.27	1,600.60	5,532.63	5,522.55	10.08	549.106		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	0.00	-79.16	5,305.31	1,600.64	5,532.63	5,522.54	10.09	548.274		
3,000.00	2,998.21	2,913.30	2,913.22	10.45	0.00	-79.22	5,306.38	1,601.80	5,532.69	5,522.24	10.45	529.656		
3,100.00	3,097.97	3,038.22	3,038.13	10.80	0.00	-79.30	5,307.46	1,603.05	5,532.50	5,521.70	10.80	512.171		
3,200.00	3,197.73	3,140.30	3,140.21	11.16	0.00	-79.37	5,308.14	1,603.72	5,532.03	5,520.87	11.16	495.746		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	0.00	-79.43	5,308.92	1,604.29	5,531.70	5,520.18	11.52	480.317		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	0.00	-79.51	5,309.72	1,604.58	5,531.16	5,519.29	11.88	465.763		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	0.00	-79.60	5,310.42	1,604.72	5,530.50	5,518.26	12.23	452.028		
3,600.00	3,596.75	3,571.60	3,571.49	12.60	0.00	-79.67	5,310.64	1,604.72	5,529.45	5,516.85	12.59	439.023		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	0.00	-79.74	5,310.90	1,604.79	5,528.48	5,515.52	12.96	426.726		
3,800.00	3,796.27	3,764.48	3,764.37	13.32	0.00	-79.80	5,311.12	1,605.16	5,527.56	5,514.24	13.32	415.080		
3,900.00	3,896.02	3,849.64	3,849.53	13.68	0.00	-79.86	5,311.28	1,606.17	5,526.83	5,513.15	13.68	404.047		
4,000.00	3,995.78	3,939.90	3,939.76	14.04	0.00	-79.90	5,311.41	1,608.21	5,526.35	5,512.31	14.04	393.589		
4,100.00	4,095.54	4,031.57	4,031.37	14.40	0.00	-79.93	5,311.30	1,611.61	5,526.02	5,511.61	14.40	383.655		
4,174.30	4,169.66	4,091.75	4,091.48	14.67	0.00	-79.95	5,311.17	1,614.46	5,525.90	5,511.23	14.67	376.596		
4,200.00	4,195.29	4,110.84	4,110.55	14.77	0.00	-79.95	5,311.14	1,615.48	5,525.92	5,511.15	14.77	374.219		
4,300.00	4,295.05	4,183.70	4,183.26	15.13	0.00	-79.96	5,311.08	1,619.97	5,526.27	5,511.14	15.13	365.265		
4,400.00	4,394.81	4,247.01	4,246.41	15.49	0.00	-79.96	5,311.19	1,624.45	5,527.15	5,511.66	15.49	356.772		
4,500.00	4,494.56	4,315.02	4,314.20	15.86	0.00	-79.95	5,311.58	1,629.89	5,528.65	5,512.80	15.85	348.707		
4,600.00	4,594.32	4,443.74	4,442.36	16.22	0.00	-79.93	5,312.31	1,641.81	5,530.53	5,514.31	16.22	340.956		
4,700.00	4,694.08	4,601.99	4,601.87	16.59	0.00	-79.88	5,311.01	1,657.14	5,530.99	5,514.40	16.59	333.448		
4,800.00	4,793.83	4,693.26	4,690.77	16.95	0.00	-79.86	5,310.21	1,665.30	5,531.33	5,514.38	16.95	326.290		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	4,893.59	4,778.85	4,776.06	17.32	0.00	-79.85	5,309.83	1,672.37	5,531.89	5,514.58	17.32	319.446		
5,000.00	4,993.35	4,874.99	4,871.86	17.68	0.00	-79.84	5,309.53	1,680.60	5,532.67	5,514.99	17.68	312.888		
5,100.00	5,093.10	4,990.07	4,986.51	18.05	0.00	-79.82	5,309.05	1,690.39	5,533.34	5,515.29	18.05	306.577		
5,200.00	5,192.86	5,091.58	5,087.66	18.42	0.00	-79.81	5,308.45	1,698.89	5,533.80	5,515.39	18.41	300.508		
5,300.00	5,292.62	5,207.11	5,202.87	18.78	0.00	-79.80	5,307.95	1,707.50	5,534.17	5,515.39	18.78	294.663		
5,400.00	5,392.37	5,324.58	5,320.10	19.15	0.00	-79.81	5,307.27	1,714.98	5,534.08	5,514.93	19.15	289.016		
5,435.11	5,427.40	5,352.76	5,348.22	19.28	0.00	-79.81	5,307.10	1,716.83	5,534.06	5,514.78	19.28	287.086		
5,500.00	5,492.13	5,400.00	5,395.34	19.52	0.00	-79.81	5,306.82	1,720.15	5,534.14	5,514.62	19.51	283.595		
5,600.00	5,591.89	5,458.94	5,454.09	19.88	0.00	-79.80	5,306.65	1,724.93	5,534.82	5,514.94	19.88	278.416		
5,700.00	5,691.64	5,543.61	5,538.39	20.25	0.00	-79.78	5,306.70	1,732.78	5,536.12	5,515.88	20.25	273.446		
5,800.00	5,791.40	5,639.24	5,633.59	20.62	0.00	-79.76	5,306.72	1,741.83	5,537.47	5,516.86	20.61	268.645		
5,900.00	5,891.16	5,759.60	5,753.43	20.98	0.00	-79.74	5,306.76	1,753.04	5,538.81	5,517.82	20.98	263.995		
6,000.00	5,990.91	5,857.08	5,850.52	21.35	0.00	-79.72	5,306.61	1,761.79	5,539.86	5,518.51	21.35	259.503		
6,100.00	6,090.67	5,966.21	5,959.23	21.72	0.00	-79.70	5,306.50	1,771.27	5,540.88	5,519.16	21.72	255.154		
6,200.00	6,190.42	6,067.02	6,059.70	22.09	0.00	-79.69	5,306.32	1,779.66	5,541.72	5,519.64	22.08	250.946		
6,300.00	6,290.18	6,132.84	6,125.26	22.45	0.00	-79.68	5,306.39	1,785.40	5,542.95	5,520.50	22.45	246.910		
6,400.00	6,389.94	6,226.66	6,218.69	22.82	0.00	-79.66	5,306.80	1,793.92	5,544.59	5,521.77	22.82	243.006		
6,500.00	6,489.69	6,344.07	6,335.68	23.19	0.00	-79.65	5,307.32	1,803.86	5,546.07	5,522.89	23.19	239.204		
6,600.00	6,589.45	6,435.36	6,426.60	23.56	0.00	-79.63	5,307.55	1,812.00	5,547.49	5,523.94	23.55	235.532		
6,700.00	6,689.21	6,542.88	6,533.67	23.93	0.00	-79.61	5,307.70	1,821.95	5,548.90	5,524.98	23.92	231.963		
6,800.00	6,788.96	6,652.78	6,643.12	24.29	0.00	-79.59	5,307.82	1,831.88	5,550.22	5,525.93	24.29	228.496		
6,900.00	6,888.72	6,771.79	6,761.69	24.66	0.00	-79.57	5,307.66	1,842.03	5,551.16	5,526.50	24.66	225.114		
7,000.00	6,988.48	6,850.81	6,840.44	25.03	0.00	-79.56	5,307.59	1,848.54	5,552.10	5,527.07	25.03	221.847		
7,100.00	7,088.23	6,925.34	6,914.65	25.40	0.00	-79.55	5,307.78	1,855.46	5,553.60	5,528.21	25.39	218.702		
7,200.00	7,187.99	7,033.10	7,021.96	25.77	0.00	-79.53	5,308.20	1,865.26	5,555.21	5,529.45	25.76	215.632		
7,300.00	7,287.75	7,150.21	7,138.63	26.14	0.00	-79.51	5,308.56	1,875.35	5,556.61	5,530.48	26.13	212.635		
7,400.00	7,387.50	7,240.65	7,228.75	26.50	0.00	-79.50	5,308.70	1,883.03	5,557.84	5,531.34	26.50	209.728		
7,500.00	7,487.26	7,350.26	7,337.87	26.87	0.00	-79.47	5,308.82	1,893.37	5,559.28	5,532.42	26.87	206.900		
7,600.00	7,587.02	7,460.78	7,447.93	27.24	0.00	-79.45	5,308.65	1,903.41	5,560.37	5,533.13	27.24	204.134		
7,700.00	7,686.77	7,569.10	7,555.84	27.61	0.00	-79.43	5,308.45	1,912.87	5,561.32	5,533.72	27.61	201.439		
7,800.00	7,786.53	7,634.09	7,620.55	27.98	0.00	-79.42	5,308.42	1,918.90	5,562.54	5,534.57	27.97	198.841		
7,900.00	7,886.29	7,764.47	7,750.26	28.35	0.00	-79.38	5,308.21	1,932.10	5,563.95	5,535.61	28.35	196.290		
8,000.00	7,986.04	7,893.45	7,878.68	28.72	0.00	-79.35	5,307.43	1,944.08	5,564.67	5,535.95	28.72	193.785		
8,100.00	8,085.80	8,039.81	8,024.47	29.09	0.00	-79.32	5,305.78	1,956.92	5,564.75	5,535.66	29.09	191.325		
8,157.88	8,143.54	8,076.18	8,060.69	29.30	0.00	-79.31	5,305.29	1,960.06	5,564.65	5,535.35	29.30	189.927		
8,200.00	8,185.56	8,104.22	8,088.62	29.46	0.00	-79.31	5,304.97	1,962.60	5,564.70	5,535.25	29.45	188.928		
8,300.00	8,285.31	8,193.47	8,177.47	29.83	0.00	-79.29	5,304.15	1,970.98	5,565.13	5,535.31	29.82	186.606		
8,400.00	8,385.07	8,331.42	8,314.84	30.20	0.00	-79.26	5,302.63	1,983.43	5,565.32	5,535.13	30.19	184.327		
8,500.00	8,484.83	8,444.23	8,427.25	30.56	0.00	-79.24	5,300.86	1,992.88	5,564.84	5,534.28	30.56	182.084		
8,600.00	8,584.58	8,527.87	8,510.55	30.93	0.00	-79.22	5,299.62	2,000.31	5,564.58	5,533.65	30.93	179.902		
8,700.00	8,684.34	8,657.76	8,639.89	31.30	0.00	-79.19	5,297.41	2,012.00	5,564.17	5,532.87	31.30	177.767		
8,800.00	8,784.10	8,785.97	8,767.60	31.67	0.00	-79.16	5,294.66	2,022.90	5,563.19	5,531.52	31.67	175.668		
8,900.00	8,883.85	8,884.50	8,865.79	32.04	0.00	-79.15	5,292.44	2,030.83	5,561.97	5,529.94	32.04	173.604		
9,000.00	8,983.61	8,941.44	8,922.54	32.41	0.00	-79.14	5,291.40	2,035.41	5,561.17	5,528.76	32.41	171.595		
9,046.87	9,030.36	8,967.82	8,948.82	32.58	0.00	-79.14	5,291.04	2,037.64	5,561.06	5,528.48	32.58	170.680		
9,100.00	9,083.37	9,010.83	8,991.67	32.78	0.00	-79.13	5,290.58	2,041.37	5,561.11	5,528.34	32.78	169.660		
9,200.00	9,183.12	9,124.25	9,104.68	33.15	0.00	-79.11	5,289.46	2,050.83	5,561.21	5,528.06	33.15	167.771		
9,300.00	9,282.88	9,229.46	9,209.59	33.52	0.00	-79.10	5,288.34	2,058.68	5,560.96	5,527.45	33.52	165.913		
9,400.00	9,382.64	9,326.46	9,306.36	33.89	0.00	-79.10	5,287.56	2,065.37	5,560.82	5,526.93	33.89	164.100		
9,428.07	9,410.64	9,355.03	9,334.86	33.99	0.00	-79.10	5,287.34	2,067.32	5,560.78	5,526.79	33.99	163.597		
9,500.00	9,482.43	9,479.13	9,458.69	34.26	0.00	-79.09	5,285.80	2,075.43	5,560.41	5,526.15	34.25	162.330		
9,600.00	9,582.36	9,607.37	9,586.67	34.62	0.00	-79.05	5,283.51	2,083.20	5,559.69	5,525.08	34.61	160.626		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
9,694.65	9,677.00	9,737.23	9,716.36	34.95	0.00	16.49	5,280.92	2,089.29	5,558.92	5,523.98	34.94	159.102		
9,700.00	9,682.35	9,744.63	9,723.75	34.97	0.00	16.50	5,280.76	2,089.59	5,558.87	5,523.91	34.96	159.019		
9,800.00	9,782.35	9,832.96	9,811.99	35.31	0.00	16.54	5,278.97	2,093.14	5,558.06	5,522.77	35.30	157.462		
9,900.00	9,882.35	9,957.73	9,936.66	35.65	0.00	16.59	5,276.40	2,097.51	5,557.08	5,521.45	35.64	155.943		
10,000.00	9,982.35	10,070.86	10,049.72	35.99	0.00	16.63	5,273.88	2,100.88	5,555.79	5,519.82	35.97	154.439		
10,044.69	10,027.04	10,126.50	10,105.31	36.14	0.00	16.65	5,272.52	2,102.56	5,555.14	5,519.01	36.12	153.776		
10,050.00	10,032.35	10,137.17	10,115.97	36.16	0.00	17.08	5,272.24	2,102.88	5,555.03	5,518.88	36.14	153.699		
10,100.00	10,082.26	10,225.24	10,203.96	36.32	0.00	17.23	5,269.57	2,105.39	5,551.44	5,515.14	36.31	152.908		
10,150.00	10,131.76	10,281.94	10,260.61	36.49	0.00	17.52	5,267.66	2,106.90	5,543.55	5,507.08	36.47	152.002		
10,200.00	10,180.46	10,333.30	10,311.93	36.65	0.00	17.95	5,265.88	2,108.23	5,531.54	5,494.91	36.63	151.011		
10,250.00	10,227.98	10,380.54	10,359.12	36.81	0.00	18.55	5,264.23	2,109.51	5,515.55	5,478.77	36.78	149.950		
10,300.00	10,273.98	10,429.00	10,407.52	36.95	0.00	19.34	5,262.48	2,110.94	5,495.69	5,458.77	36.93	148.834		
10,350.00	10,318.11	10,476.86	10,455.32	37.09	0.00	20.37	5,260.62	2,112.68	5,472.11	5,435.05	37.06	147.670		
10,400.00	10,360.01	10,520.04	10,498.42	37.21	0.00	21.66	5,258.82	2,114.51	5,444.99	5,407.82	37.18	146.467		
10,450.00	10,399.38	10,559.29	10,537.59	37.32	0.00	23.27	5,257.14	2,116.31	5,414.57	5,377.29	37.28	145.233		
10,500.00	10,435.92	10,577.02	10,555.29	37.42	0.00	25.21	5,256.36	2,117.16	5,381.12	5,343.74	37.38	143.963		
10,550.00	10,469.35	10,600.00	10,578.23	37.51	0.00	27.67	5,255.49	2,118.17	5,344.99	5,307.53	37.46	142.689		
10,600.00	10,499.41	10,600.00	10,578.23	37.59	0.00	30.62	5,255.49	2,118.17	5,306.42	5,268.89	37.53	141.393		
10,650.00	10,525.87	10,600.00	10,578.23	37.66	0.00	34.38	5,255.49	2,118.17	5,265.75	5,228.17	37.59	140.101		
10,700.00	10,548.54	10,618.64	10,596.85	37.74	0.00	39.48	5,254.98	2,118.84	5,223.13	5,185.51	37.62	138.825		
10,750.00	10,567.24	10,624.66	10,602.87	37.84	0.00	45.96	5,254.86	2,119.02	5,178.98	5,141.33	37.65	137.550		
10,800.00	10,581.83	10,629.37	10,607.57	37.97	0.00	54.40	5,254.78	2,119.15	5,133.56	5,095.89	37.67	136.285		
10,850.00	10,592.19	10,632.69	10,610.88	38.11	0.00	65.16	5,254.72	2,119.24	5,087.20	5,049.53	37.67	135.032		
10,900.00	10,598.26	10,634.55	10,612.75	38.25	0.00	78.14	5,254.70	2,119.29	5,040.25	5,002.58	37.67	133.792		
10,944.69	10,600.00	10,634.94	10,613.14	38.39	0.00	90.84	5,254.69	2,119.30	4,998.07	4,960.41	37.67	132.697		
11,000.00	10,600.00	10,634.67	10,612.87	38.56	0.00	90.83	5,254.69	2,119.29	4,945.89	4,908.23	37.66	131.347		
11,100.00	10,600.00	10,634.16	10,612.36	38.91	0.00	90.81	5,254.70	2,119.28	4,851.71	4,814.07	37.64	128.889		
11,200.00	10,600.00	10,633.63	10,611.83	39.31	0.00	90.79	5,254.71	2,119.27	4,757.78	4,720.14	37.64	126.406		
11,300.00	10,600.00	10,633.07	10,611.27	39.76	0.00	90.77	5,254.72	2,119.25	4,664.09	4,626.44	37.64	123.897		
11,400.00	10,600.00	10,632.50	10,610.70	40.25	0.00	90.75	5,254.73	2,119.24	4,570.67	4,533.01	37.66	121.361		
11,500.00	10,600.00	10,631.90	10,610.10	40.79	0.00	90.73	5,254.74	2,119.22	4,477.54	4,439.85	37.69	118.797		
11,600.00	10,600.00	10,631.28	10,609.48	41.37	0.00	90.71	5,254.74	2,119.21	4,384.70	4,346.97	37.73	116.202		
11,700.00	10,600.00	10,630.62	10,608.83	41.99	0.00	90.69	5,254.76	2,119.19	4,292.19	4,254.40	37.79	113.577		
11,800.00	10,600.00	10,629.94	10,608.15	42.65	0.00	90.66	5,254.77	2,119.17	4,200.03	4,162.16	37.87	110.920		
11,900.00	10,600.00	10,629.23	10,607.44	43.35	0.00	90.64	5,254.78	2,119.15	4,108.22	4,070.27	37.96	108.229		
12,000.00	10,600.00	10,628.49	10,606.69	44.09	0.00	90.61	5,254.79	2,119.13	4,016.81	3,978.74	38.07	105.505		
12,100.00	10,600.00	10,627.71	10,605.91	44.86	0.00	90.58	5,254.80	2,119.11	3,925.82	3,887.61	38.21	102.745		
12,200.00	10,600.00	10,626.89	10,605.10	45.67	0.00	90.56	5,254.82	2,119.08	3,835.28	3,796.91	38.37	99.950		
12,300.00	10,600.00	10,626.04	10,604.24	46.50	0.00	90.53	5,254.83	2,119.06	3,745.21	3,706.65	38.56	97.120		
12,400.00	10,600.00	10,625.13	10,603.34	47.37	0.00	90.50	5,254.85	2,119.03	3,655.67	3,616.88	38.79	94.254		
12,500.00	10,600.00	10,624.19	10,602.39	48.26	0.00	90.46	5,254.87	2,119.01	3,566.68	3,527.63	39.04	91.353		
12,600.00	10,600.00	10,623.19	10,601.39	49.18	0.00	90.43	5,254.89	2,118.98	3,478.28	3,438.94	39.34	88.418		
12,700.00	10,600.00	10,622.13	10,600.34	50.13	0.00	90.39	5,254.91	2,118.94	3,390.53	3,350.86	39.68	85.451		
12,800.00	10,600.00	10,621.02	10,599.22	51.10	0.00	90.35	5,254.93	2,118.91	3,303.48	3,263.41	40.06	82.455		
12,900.00	10,600.00	10,619.84	10,598.04	52.09	0.00	90.31	5,254.96	2,118.87	3,217.18	3,176.67	40.50	79.432		
13,000.00	10,600.00	10,618.58	10,596.79	53.10	0.00	90.27	5,254.99	2,118.83	3,131.69	3,090.69	41.00	76.388		
13,100.00	10,600.00	10,617.26	10,595.46	54.14	0.00	90.22	5,255.02	2,118.79	3,047.08	3,005.53	41.56	73.326		
13,200.00	10,600.00	10,615.84	10,594.05	55.19	0.00	90.17	5,255.05	2,118.74	2,963.44	2,921.26	42.18	70.254		
13,300.00	10,600.00	10,614.33	10,592.54	56.26	0.00	90.12	5,255.08	2,118.69	2,880.83	2,837.95	42.88	67.180		
13,400.00	10,600.00	10,612.72	10,590.93	57.35	0.00	90.06	5,255.12	2,118.64	2,799.36	2,755.69	43.66	64.111		
13,500.00	10,600.00	10,610.99	10,589.21	58.45	0.00	90.00	5,255.17	2,118.58	2,719.12	2,674.59	44.53	61.057		
13,600.00	10,600.00	10,609.14	10,587.36	59.57	0.00	89.94	5,255.22	2,118.51	2,640.23	2,594.74	45.50	58.030		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P3v1												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	10,607.15	10,585.36	60.71	0.00	89.87	5,255.27	2,118.44	2,562.82	2,516.25	46.56	55.040	
13,800.00	10,600.00	10,604.99	10,583.21	61.85	0.00	89.80	5,255.34	2,118.36	2,487.01	2,439.27	47.73	52.101	
13,900.00	10,600.00	10,602.66	10,580.88	63.01	0.00	89.71	5,255.41	2,118.27	2,412.96	2,363.94	49.02	49.224	
14,000.00	10,600.00	10,600.00	10,578.23	64.18	0.00	89.62	5,255.49	2,118.17	2,340.84	2,290.42	50.42	46.423	
14,100.00	10,600.00	10,597.36	10,575.59	65.37	0.00	89.53	5,255.58	2,118.07	2,270.83	2,218.88	51.95	43.711	
14,200.00	10,600.00	10,594.34	10,572.58	66.56	0.00	89.42	5,255.68	2,117.94	2,203.13	2,149.53	53.60	41.100	
14,300.00	10,600.00	10,591.02	10,569.26	67.76	0.00	89.31	5,255.80	2,117.80	2,137.96	2,082.58	55.38	38.604	
14,400.00	10,600.00	10,587.35	10,566.60	68.98	0.00	89.18	5,255.94	2,117.64	2,075.56	2,018.27	57.29	36.232	
14,500.00	10,600.00	10,583.28	10,561.53	70.20	0.00	89.04	5,256.10	2,117.46	2,016.18	1,956.87	59.31	33.995	
14,600.00	10,600.00	10,578.73	10,556.99	71.43	0.00	88.88	5,256.29	2,117.24	1,960.10	1,898.66	61.44	31.901	
14,700.00	10,600.00	10,574.38	10,552.65	72.67	0.00	88.73	5,256.48	2,117.03	1,907.60	1,843.93	63.68	29.957	
14,800.00	10,600.00	10,570.34	10,548.62	73.92	0.00	88.59	5,256.66	2,116.84	1,859.00	1,793.01	65.99	28.170	
14,900.00	10,600.00	10,566.33	10,544.62	75.17	0.00	88.45	5,256.83	2,116.64	1,814.60	1,746.23	68.37	26.542	
15,000.00	10,600.00	10,562.33	10,540.63	76.44	0.00	88.31	5,257.01	2,116.45	1,774.72	1,703.94	70.77	25.076	
15,100.00	10,600.00	10,558.36	10,536.67	77.70	0.00	88.17	5,257.18	2,116.27	1,739.67	1,666.49	73.18	23.772	
15,200.00	10,600.00	10,554.41	10,532.73	78.98	0.00	88.04	5,257.35	2,116.08	1,709.75	1,634.20	75.55	22.631	
15,300.00	10,600.00	10,550.49	10,528.81	80.26	0.00	87.90	5,257.52	2,115.90	1,685.23	1,607.39	77.84	21.651	
15,400.00	10,600.00	10,546.58	10,524.91	81.55	0.00	87.76	5,257.69	2,115.72	1,666.35	1,586.34	80.01	20.827	
15,484.47	10,600.00	10,543.29	10,521.63	82.64	0.00	87.65	5,257.83	2,115.56	1,654.94	1,573.21	81.72	20.251	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928		
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390		
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366		
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136		
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919		
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205		
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067		
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,601.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,632.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,632.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,632.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,632.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,632.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,632.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,632.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,632.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Plan 4												Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF, 15156-												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	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341	
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052	
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781	
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534	
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314	
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128	
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979	
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873	
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	10.90	-10.90	0.50		16.89	5,302.03	1,610.31	5,541.18					
100.00	100.00	89.10	89.10	0.52		16.89	5,302.03	1,610.31	5,541.18	5,540.66	0.52	N/A		
200.00	200.00	189.10	189.10	0.70		16.89	5,302.03	1,610.31	5,541.18	5,540.47	0.70	7,892.253		
300.00	300.00	289.11	289.10	0.99		16.89	5,302.03	1,610.31	5,541.18	5,540.19	0.99	5,612.254		
400.00	400.00	389.11	389.10	1.31		16.89	5,302.03	1,610.31	5,541.18	5,539.87	1.31	4,232.846		
500.00	500.00	489.11	489.10	1.65		16.89	5,302.03	1,610.31	5,541.18	5,539.53	1.65	3,366.270		
552.92	552.92	542.03	542.01	1.83		16.89	5,302.08	1,610.12	5,541.16	5,539.34	1.83	3,031.730		
600.00	600.00	588.42	588.40	1.99		16.89	5,302.06	1,610.17	5,541.17	5,539.18	1.99	2,783.663		
676.18	676.18	665.24	665.22	2.26		16.89	5,302.04	1,610.21	5,541.16	5,538.90	2.26	2,456.211		
700.00	700.00	684.26	684.23	2.34		16.89	5,302.04	1,610.25	5,541.17	5,538.83	2.34	2,368.713		
751.37	751.37	740.50	740.47	2.52		16.89	5,302.03	1,610.19	5,541.14	5,538.62	2.52	2,199.282		
800.00	800.00	780.95	780.92	2.69		16.89	5,302.03	1,610.29	5,541.17	5,538.48	2.69	2,059.462		
900.00	900.00	889.14	889.10	3.04		16.89	5,302.03	1,610.31	5,541.18	5,538.13	3.04	1,820.629		
1,000.00	1,000.00	989.14	989.10	3.40		16.89	5,302.03	1,610.31	5,541.18	5,537.78	3.40	1,630.879		
1,100.00	1,100.00	1,089.15	1,089.10	3.75		16.89	5,302.03	1,610.31	5,541.18	5,537.42	3.75	1,476.623		
1,200.00	1,200.00	1,189.15	1,189.10	4.11		16.89	5,302.03	1,610.31	5,541.18	5,537.07	4.11	1,348.824		
1,234.35	1,234.35	1,223.50	1,223.45	4.23		16.89	5,302.03	1,610.20	5,541.14	5,536.91	4.23	1,309.837		
1,300.00	1,300.00	1,285.85	1,285.80	4.46		16.89	5,302.03	1,610.26	5,541.16	5,536.70	4.46	1,241.251		
1,400.00	1,400.00	1,389.15	1,389.10	4.82		16.89	5,302.03	1,610.31	5,541.18	5,536.36	4.82	1,149.489		
1,423.91	1,423.91	1,412.74	1,412.69	4.91		16.89	5,301.95	1,610.20	5,541.07	5,536.16	4.91	1,129.487		
1,500.00	1,500.00	1,480.67	1,480.61	5.18		16.89	5,301.99	1,610.26	5,541.13	5,535.95	5.18	1,070.289		
1,600.00	1,600.00	1,590.79	1,590.73	5.53		16.89	5,302.04	1,610.29	5,541.18	5,535.65	5.53	1,001.274		
1,621.12	1,621.12	1,613.98	1,613.93	5.61		16.89	5,302.02	1,610.34	5,541.17	5,535.56	5.61	987.814		
1,700.00	1,700.00	1,691.20	1,691.15	5.89		16.89	5,302.04	1,610.31	5,541.18	5,535.29	5.89	940.582		
1,800.00	1,800.00	1,803.81	1,803.76	6.25		16.89	5,302.00	1,610.31	5,541.17	5,534.92	6.25	886.805		
1,829.56	1,829.56	1,818.71	1,818.66	6.35		16.89	5,302.03	1,610.31	5,541.18	5,534.82	6.35	872.063		
1,900.00	1,900.00	1,891.63	1,891.58	6.61		16.89	5,302.03	1,610.31	5,541.18	5,534.57	6.61	838.827		
1,906.39	1,906.39	1,898.34	1,898.29	6.63		16.89	5,302.02	1,610.32	5,541.17	5,534.54	6.63	835.937		
2,000.00	2,000.00	1,989.15	1,989.10	6.96		16.89	5,302.03	1,610.31	5,541.18	5,534.21	6.96	795.762		
2,100.00	2,099.99	2,089.15	2,089.09	7.31		-78.59	5,302.03	1,610.31	5,541.00	5,533.69	7.31	757.869		
2,200.00	2,199.96	2,189.11	2,189.06	7.65		-78.63	5,302.03	1,610.31	5,540.49	5,532.84	7.65	724.126		
2,300.00	2,299.86	2,289.02	2,288.96	7.99		-78.68	5,302.03	1,610.31	5,539.63	5,531.63	7.99	693.007		
2,399.87	2,399.54	2,388.70	2,388.64	8.34		-78.75	5,302.03	1,610.31	5,538.43	5,530.09	8.34	664.244		
2,500.00	2,499.43	2,488.59	2,488.53	8.69		-78.82	5,302.03	1,610.31	5,537.07	5,528.39	8.69	637.503		
2,600.00	2,599.19	2,588.35	2,588.29	9.03		-78.89	5,302.03	1,610.31	5,535.72	5,526.69	9.03	612.725		
2,700.00	2,698.94	2,688.10	2,688.04	9.39		-78.96	5,302.03	1,610.31	5,534.38	5,524.99	9.39	589.684		
2,800.00	2,798.70	2,793.46	2,793.40	9.74		-79.04	5,302.12	1,610.40	5,533.16	5,523.42	9.74	568.230		
2,900.00	2,898.46	2,928.71	2,928.64	10.09		-79.13	5,302.01	1,610.30	5,531.85	5,521.76	10.09	548.212		
3,000.00	2,998.21	3,000.00	2,987.31	10.45		-79.18	5,302.03	1,610.31	5,530.40	5,519.96	10.45	529.430		
3,100.00	3,097.97	3,110.82	3,110.73	10.80		-79.26	5,302.04	1,610.32	5,529.16	5,518.36	10.80	511.882		
3,200.00	3,197.73	3,207.54	3,207.44	11.16		-79.33	5,302.04	1,610.32	5,527.84	5,516.68	11.16	495.391		
3,300.00	3,297.48	3,300.00	3,286.58	11.52		-79.39	5,302.03	1,610.31	5,526.50	5,514.99	11.52	479.875		
3,400.00	3,397.24	3,409.69	3,409.58	11.88		-79.48	5,301.98	1,610.30	5,525.22	5,513.35	11.87	465.287		
3,500.00	3,497.00	3,497.82	3,486.10	12.24		-79.53	5,302.03	1,610.31	5,523.94	5,511.71	12.23	451.505		
3,600.00	3,596.75	3,590.65	3,590.55	12.60		-79.60	5,302.03	1,610.31	5,522.68	5,510.08	12.59	438.499		
3,700.00	3,696.51	3,696.03	3,695.92	12.96		-79.68	5,302.01	1,610.31	5,521.41	5,508.45	12.96	426.196		
3,800.00	3,796.27	3,785.48	3,785.37	13.32		-79.74	5,302.03	1,610.31	5,520.17	5,506.86	13.32	414.537		
3,900.00	3,896.02	3,885.24	3,885.12	13.68		-79.81	5,302.03	1,610.31	5,518.93	5,505.25	13.68	403.483		
4,000.00	3,995.78	3,985.03	3,984.88	14.04		-79.88	5,302.03	1,610.31	5,517.70	5,503.66	14.04	392.985		
4,100.00	4,095.54	4,084.87	4,084.64	14.40		-79.96	5,302.03	1,610.31	5,516.48	5,502.07	14.40	383.003		
4,200.00	4,195.29	4,184.76	4,184.39	14.77		-80.03	5,302.03	1,610.31	5,515.26	5,500.50	14.77	373.502		
4,300.00	4,295.05	4,284.75	4,284.15	15.13		-80.10	5,302.03	1,610.31	5,514.06	5,498.93	15.13	364.448		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,400.00	4,394.81	4,384.83	4,383.91	15.49		-80.17	5,302.03	1,610.31	5,512.86	5,497.36	15.49	355.812		
4,500.00	4,494.56	4,500.00	4,483.66	15.86		-80.24	5,302.03	1,610.31	5,511.67	5,495.81	15.86	347.565		
4,600.00	4,594.32	4,625.00	4,622.78	16.22		-80.34	5,302.03	1,610.31	5,510.63	5,494.41	16.22	339.712		
4,700.00	4,694.08	4,720.00	4,717.42	16.59		-80.41	5,302.03	1,610.31	5,509.42	5,492.84	16.59	332.164		
4,800.00	4,793.83	4,814.01	4,811.10	16.95		-80.48	5,302.03	1,610.31	5,508.23	5,491.27	16.95	324.936		
4,900.00	4,893.59	4,900.00	4,882.69	17.32		-80.53	5,302.03	1,610.31	5,507.00	5,489.68	17.32	317.996		
5,000.00	4,993.35	5,003.01	4,999.40	17.68		-80.61	5,302.03	1,610.31	5,505.88	5,488.20	17.68	311.365		
5,100.00	5,093.10	5,097.01	5,093.08	18.05		-80.68	5,302.03	1,610.31	5,504.73	5,486.68	18.05	304.988		
5,200.00	5,192.86	5,187.87	5,181.96	18.42		-80.74	5,302.03	1,610.31	5,503.59	5,485.17	18.42	298.860		
5,300.00	5,292.62	5,303.88	5,281.72	18.78		-80.81	5,302.03	1,610.31	5,502.47	5,483.68	18.78	292.972		
5,400.00	5,392.37	5,393.92	5,381.47	19.15		-80.88	5,302.03	1,610.31	5,501.35	5,482.21	19.15	287.307		
5,500.00	5,492.13	5,486.18	5,481.23	19.52		-80.96	5,302.03	1,610.31	5,500.25	5,480.74	19.51	281.853		
5,600.00	5,591.89	5,586.36	5,580.99	19.88		-81.03	5,302.03	1,610.31	5,499.16	5,479.27	19.88	276.598		
5,700.00	5,691.64	5,686.54	5,680.74	20.25		-81.10	5,302.03	1,610.31	5,498.07	5,477.82	20.25	271.532		
5,800.00	5,791.40	5,786.70	5,780.50	20.62		-81.17	5,302.03	1,610.31	5,496.99	5,476.38	20.62	266.645		
5,900.00	5,891.16	5,886.84	5,880.26	20.98		-81.24	5,302.03	1,610.31	5,495.92	5,474.94	20.98	261.927		
6,000.00	5,990.91	5,986.96	5,980.01	21.35		-81.31	5,302.03	1,610.31	5,494.86	5,473.51	21.35	257.370		
6,100.00	6,090.67	6,087.04	6,079.77	21.72		-81.39	5,302.03	1,610.31	5,493.81	5,472.10	21.72	252.967		
6,200.00	6,190.42	6,187.16	6,179.52	22.09		-81.46	5,302.03	1,610.31	5,492.77	5,470.68	22.09	248.708		
6,300.00	6,290.18	6,287.30	6,279.28	22.45		-81.53	5,302.03	1,610.31	5,491.74	5,469.28	22.45	244.589		
6,400.00	6,389.94	6,400.00	6,379.04	22.82		-81.60	5,302.03	1,610.31	5,490.71	5,467.89	22.82	240.601		
6,500.00	6,489.69	6,500.00	6,478.79	23.19		-81.67	5,302.03	1,610.31	5,489.69	5,466.50	23.19	236.740		
6,600.00	6,589.45	6,600.00	6,578.55	23.56		-81.74	5,302.03	1,610.31	5,488.69	5,465.13	23.56	232.998		
6,700.00	6,689.21	6,700.00	6,678.31	23.93		-81.82	5,302.03	1,610.31	5,487.69	5,463.76	23.92	229.371		
6,800.00	6,788.96	6,807.00	6,796.79	24.29		-81.90	5,302.03	1,610.31	5,486.73	5,462.43	24.29	225.860		
6,900.00	6,888.72	6,901.00	6,890.42	24.66		-81.97	5,302.03	1,610.31	5,485.73	5,461.07	24.66	222.444		
7,000.00	6,988.48	7,003.43	6,977.58	25.03		-82.03	5,302.03	1,610.31	5,484.74	5,459.71	25.03	219.127		
7,100.00	7,088.23	7,091.31	7,077.33	25.40		-82.10	5,302.03	1,610.31	5,483.78	5,458.38	25.40	215.910		
7,200.00	7,187.99	7,188.78	7,177.09	25.77		-82.18	5,302.03	1,610.31	5,482.82	5,457.05	25.77	212.784		
7,300.00	7,287.75	7,288.92	7,276.85	26.14		-82.25	5,302.03	1,610.31	5,481.87	5,455.74	26.14	209.747		
7,400.00	7,387.50	7,389.09	7,376.60	26.50		-82.32	5,302.03	1,610.31	5,480.93	5,454.43	26.50	206.793		
7,500.00	7,487.26	7,489.24	7,476.36	26.87		-82.39	5,302.03	1,610.31	5,480.00	5,453.13	26.87	203.921		
7,600.00	7,587.02	7,589.36	7,576.12	27.24		-82.46	5,302.03	1,610.31	5,479.08	5,451.84	27.24	201.126		
7,700.00	7,686.77	7,689.54	7,675.87	27.61		-82.54	5,302.03	1,610.31	5,478.17	5,450.56	27.61	198.406		
7,800.00	7,786.53	7,789.78	7,775.63	27.98		-82.61	5,302.03	1,610.31	5,477.27	5,449.29	27.98	195.757		
7,900.00	7,886.29	7,889.96	7,875.39	28.35		-82.68	5,302.03	1,610.31	5,476.37	5,448.02	28.35	193.177		
8,000.00	7,986.04	7,993.08	7,978.06	28.72		-82.74	5,301.92	1,611.36	5,475.61	5,446.89	28.72	190.669		
8,100.00	8,085.80	8,093.14	8,077.76	29.09		-82.82	5,301.87	1,611.25	5,474.66	5,445.58	29.09	188.216		
8,200.00	8,185.56	8,226.54	8,210.68	29.46		-82.92	5,302.04	1,610.23	5,473.85	5,444.39	29.45	185.839		
8,300.00	8,285.31	8,335.82	8,319.49	29.83		-83.01	5,302.11	1,609.38	5,472.94	5,443.12	29.82	183.511		
8,400.00	8,385.07	8,404.38	8,387.75	30.20		-83.05	5,301.98	1,610.68	5,472.07	5,441.88	30.19	181.228		
8,500.00	8,484.83	8,494.21	8,477.26	30.56		-83.11	5,301.94	1,610.79	5,471.20	5,440.63	30.56	179.008		
8,600.00	8,584.58	8,612.10	8,594.70	30.93		-83.21	5,302.10	1,609.84	5,470.36	5,439.43	30.93	176.847		
8,700.00	8,684.34	8,702.53	8,673.44	31.30		-83.26	5,302.03	1,610.31	5,469.53	5,438.22	31.30	174.729		
8,800.00	8,784.10	8,787.33	8,769.19	31.67		-83.33	5,301.99	1,610.49	5,468.71	5,437.04	31.67	172.664		
8,900.00	8,883.85	8,879.77	8,861.28	32.04		-83.39	5,301.97	1,610.55	5,467.90	5,435.86	32.04	170.647		
9,000.00	8,983.61	8,991.76	8,972.71	32.41		-83.48	5,302.03	1,610.31	5,467.11	5,434.69	32.41	168.679		
9,100.00	9,083.37	9,091.87	9,072.47	32.78		-83.55	5,302.03	1,610.31	5,466.32	5,433.53	32.78	166.753		
9,200.00	9,183.12	9,191.93	9,172.22	33.15		-83.62	5,302.03	1,610.31	5,465.53	5,432.38	33.15	164.870		
9,300.00	9,282.88	9,291.93	9,271.98	33.52		-83.69	5,302.03	1,610.31	5,464.76	5,431.24	33.52	163.029		
9,400.00	9,382.64	9,391.91	9,371.74	33.89		-83.77	5,302.03	1,610.31	5,464.00	5,430.11	33.89	161.229		
9,428.07	9,410.64	9,428.80	9,408.57	33.99		-83.79	5,301.96	1,610.92	5,463.85	5,429.86	33.99	160.733		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													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)				
9,500.00	9,482.43	9,491.92	9,471.53	34.26		-83.82	5,302.03	1,610.31	5,463.32	5,429.06	34.26	159.478			
9,600.00	9,582.36	9,592.05	9,571.46	34.62		-83.86	5,302.03	1,610.31	5,462.91	5,428.29	34.62	157.806			
9,694.65	9,677.00	9,686.85	9,666.10	34.95		11.61	5,302.03	1,610.31	5,462.78	5,427.84	34.95	156.315			
9,697.44	9,679.79	9,689.58	9,668.81	34.96		11.62	5,301.81	1,610.90	5,462.69	5,427.73	34.96	156.270			
9,700.00	9,682.35	9,691.31	9,670.54	34.97		11.62	5,301.81	1,610.89	5,462.69	5,427.72	34.97	156.231			
9,791.64	9,773.99	9,783.96	9,763.08	35.28		11.61	5,301.78	1,610.80	5,462.64	5,427.36	35.28	154.851			
9,800.00	9,782.35	9,788.80	9,767.91	35.31		11.61	5,301.78	1,610.80	5,462.64	5,427.33	35.31	154.726			
9,900.00	9,882.35	9,887.15	9,866.17	35.65		11.61	5,301.81	1,610.76	5,462.67	5,427.02	35.65	153.251			
9,980.50	9,962.85	9,972.99	9,951.93	35.92		11.61	5,301.78	1,610.70	5,462.62	5,426.70	35.92	152.082			
10,000.00	9,982.35	9,983.74	9,962.68	35.99		11.61	5,301.80	1,610.68	5,462.64	5,426.65	35.99	151.801			
10,044.69	10,027.04	10,037.25	10,016.14	36.14		11.61	5,302.03	1,610.31	5,462.78	5,426.65	36.14	151.167			
10,050.00	10,032.35	10,042.56	10,021.45	36.16		12.03	5,302.03	1,610.31	5,462.76	5,426.61	36.16	151.090			
10,100.00	10,082.26	10,080.64	10,059.51	36.32		12.09	5,301.79	1,610.63	5,460.02	5,423.69	36.32	150.310			
10,150.00	10,131.76	10,142.04	10,120.86	36.49		12.25	5,302.03	1,610.31	5,453.35	5,416.86	36.49	149.443			
10,200.00	10,180.46	10,176.12	10,154.93	36.65		12.51	5,301.77	1,610.64	5,442.15	5,405.50	36.65	148.478			
10,250.00	10,227.98	10,238.35	10,217.08	36.81		12.90	5,302.03	1,610.31	5,427.20	5,390.39	36.81	147.451			
10,300.00	10,273.98	10,267.65	10,246.38	36.95		13.41	5,301.67	1,610.62	5,407.81	5,370.86	36.95	146.345			
10,350.00	10,318.11	10,328.55	10,307.21	37.09		14.10	5,302.03	1,610.31	5,385.12	5,348.03	37.09	145.205			
10,400.00	10,360.01	10,357.70	10,336.34	37.21		14.94	5,301.65	1,610.60	5,358.19	5,320.98	37.21	144.002			
10,450.00	10,399.38	10,409.92	10,388.48	37.32		16.06	5,302.03	1,610.31	5,328.40	5,291.09	37.32	142.785			
10,500.00	10,435.92	10,445.23	10,423.77	37.42		17.45	5,301.60	1,610.66	5,294.74	5,257.33	37.41	141.521			
10,550.00	10,469.35	10,458.36	10,436.91	37.51		19.15	5,301.64	1,610.63	5,258.53	5,221.03	37.50	140.243			
10,600.00	10,499.41	10,510.08	10,488.51	37.59		21.55	5,302.03	1,610.31	5,219.82	5,182.26	37.56	138.968			
10,650.00	10,525.87	10,535.47	10,513.88	37.66		24.62	5,301.60	1,610.76	5,178.12	5,140.50	37.61	137.664			
10,700.00	10,548.54	10,543.29	10,521.69	37.74		28.61	5,301.62	1,610.74	5,134.71	5,097.05	37.65	136.363			
10,750.00	10,567.24	10,549.85	10,528.25	37.84		34.14	5,301.65	1,610.70	5,089.60	5,051.92	37.68	135.065			
10,800.00	10,581.83	10,592.66	10,570.93	37.97		42.85	5,302.03	1,610.31	5,043.22	5,005.52	37.70	133.789			
10,850.00	10,592.19	10,603.03	10,581.29	38.11		54.90	5,302.03	1,610.31	4,995.60	4,957.90	37.70	132.506			
10,900.00	10,598.26	10,609.09	10,587.36	38.25		71.76	5,302.03	1,610.31	4,947.30	4,909.60	37.70	131.233			
10,944.69	10,600.00	10,610.84	10,589.10	38.39		90.00	5,302.03	1,610.31	4,903.86	4,866.17	37.69	130.105			
11,000.00	10,600.00	10,610.84	10,589.10	38.56		90.00	5,302.03	1,610.31	4,850.08	4,812.40	37.68	128.715			
11,100.00	10,600.00	10,610.84	10,589.10	38.91		90.00	5,302.03	1,610.31	4,752.94	4,715.27	37.66	126.193			
11,200.00	10,600.00	10,610.84	10,589.10	39.31		90.00	5,302.03	1,610.31	4,655.91	4,618.26	37.65	123.658			
11,300.00	10,600.00	10,610.84	10,589.10	39.76		90.00	5,302.03	1,610.31	4,559.01	4,521.37	37.64	121.110			
11,400.00	10,600.00	10,610.84	10,589.10	40.25		90.00	5,302.03	1,610.31	4,462.25	4,424.61	37.64	118.547			
11,500.00	10,600.00	10,610.84	10,589.10	40.79		90.00	5,302.03	1,610.31	4,365.63	4,327.99	37.64	115.970			
11,600.00	10,600.00	10,610.84	10,589.10	41.37		90.00	5,302.03	1,610.31	4,269.17	4,231.52	37.65	113.377			
11,700.00	10,600.00	10,610.84	10,589.10	41.99		90.00	5,302.03	1,610.31	4,172.88	4,135.21	37.67	110.768			
11,800.00	10,600.00	10,610.84	10,589.10	42.65		90.00	5,302.03	1,610.31	4,076.77	4,039.07	37.70	108.142			
11,900.00	10,600.00	10,610.84	10,589.10	43.35		90.00	5,302.03	1,610.31	3,980.85	3,943.11	37.73	105.498			
12,000.00	10,600.00	10,610.84	10,589.10	44.09		90.00	5,302.03	1,610.31	3,885.13	3,847.35	37.78	102.836			
12,100.00	10,600.00	10,610.84	10,589.10	44.86		90.00	5,302.03	1,610.31	3,789.63	3,751.79	37.84	100.154			
12,200.00	10,600.00	10,610.84	10,589.10	45.67		90.00	5,302.03	1,610.31	3,694.37	3,656.46	37.91	97.452			
12,300.00	10,600.00	10,610.84	10,589.10	46.50		90.00	5,302.03	1,610.31	3,599.37	3,561.38	38.00	94.729			
12,400.00	10,600.00	10,610.84	10,589.10	47.37		90.00	5,302.03	1,610.31	3,504.65	3,466.55	38.10	91.984			
12,500.00	10,600.00	10,610.84	10,589.10	48.26		90.00	5,302.03	1,610.31	3,410.23	3,372.01	38.22	89.216			
12,600.00	10,600.00	10,610.84	10,589.10	49.18		90.00	5,302.03	1,610.31	3,316.14	3,277.77	38.37	86.424			
12,700.00	10,600.00	10,610.84	10,589.10	50.13		90.00	5,302.03	1,610.31	3,222.40	3,183.86	38.54	83.608			
12,800.00	10,600.00	10,610.84	10,589.10	51.10		90.00	5,302.03	1,610.31	3,129.05	3,090.31	38.74	80.767			
12,900.00	10,600.00	10,610.84	10,589.10	52.09		90.00	5,302.03	1,610.31	3,036.12	2,997.15	38.97	77.901			
13,000.00	10,600.00	10,610.84	10,589.10	53.10		90.00	5,302.03	1,610.31	2,943.66	2,904.42	39.24	75.011			
13,100.00	10,600.00	10,610.84	10,589.10	54.14		90.00	5,302.03	1,610.31	2,851.70	2,812.15	39.55	72.097			

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - T&D		Offset Site Error:		0.00 ft
Survey Program:													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					
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
13,200.00	10,600.00	10,610.84	10,589.10	55.19		90.00	5,302.03	1,610.31	2,760.31	2,720.40	39.91	69.159					
13,300.00	10,600.00	10,610.84	10,589.10	56.26		90.00	5,302.03	1,610.31	2,669.53	2,629.21	40.32	66.201					
13,400.00	10,600.00	10,610.84	10,589.10	57.35		90.00	5,302.03	1,610.31	2,579.44	2,538.64	40.80	63.224					
13,500.00	10,600.00	10,610.84	10,589.10	58.45		90.00	5,302.03	1,610.31	2,490.10	2,448.75	41.34	60.232					
13,600.00	10,600.00	10,610.84	10,589.10	59.57		90.00	5,302.03	1,610.31	2,401.60	2,359.63	41.96	57.230					
13,700.00	10,600.00	10,610.84	10,589.10	60.71		90.00	5,302.03	1,610.31	2,314.04	2,271.36	42.68	54.224					
13,800.00	10,600.00	10,610.84	10,589.10	61.85		90.00	5,302.03	1,610.31	2,227.52	2,184.03	43.49	51.222					
13,900.00	10,600.00	10,610.84	10,589.10	63.01		90.00	5,302.03	1,610.31	2,142.18	2,097.77	44.41	48.234					
14,000.00	10,600.00	10,610.84	10,589.10	64.18		90.00	5,302.03	1,610.31	2,058.16	2,012.70	45.46	45.270					
14,100.00	10,600.00	10,610.84	10,589.10	65.37		90.00	5,302.03	1,610.31	1,975.63	1,928.98	46.66	42.344					
14,200.00	10,600.00	10,610.84	10,589.10	66.56		90.00	5,302.03	1,610.31	1,894.79	1,846.78	48.01	39.470					
14,300.00	10,600.00	10,610.84	10,589.10	67.76		90.00	5,302.03	1,610.31	1,815.85	1,766.32	49.53	36.664					
14,400.00	10,600.00	10,610.84	10,589.10	68.98		90.00	5,302.03	1,610.31	1,739.08	1,687.85	51.23	33.943					
14,500.00	10,600.00	10,610.84	10,589.10	70.20		90.00	5,302.03	1,610.31	1,664.78	1,611.64	53.14	31.327					
14,600.00	10,600.00	10,610.84	10,589.10	71.43		90.00	5,302.03	1,610.31	1,593.29	1,538.03	55.26	28.833					
14,700.00	10,600.00	10,610.84	10,589.10	72.67		90.00	5,302.03	1,610.31	1,525.02	1,467.42	57.59	26.479					
14,800.00	10,600.00	10,610.84	10,589.10	73.92		90.00	5,302.03	1,610.31	1,460.40	1,400.26	60.14	24.283					
14,900.00	10,600.00	10,610.84	10,589.10	75.17		90.00	5,302.03	1,610.31	1,399.95	1,337.06	62.89	22.260					
15,000.00	10,600.00	10,610.84	10,589.10	76.44		90.00	5,302.03	1,610.31	1,344.23	1,278.41	65.81	20.425					
15,100.00	10,600.00	10,610.84	10,589.10	77.70		90.00	5,302.03	1,610.31	1,293.85	1,224.98	68.87	18.788					
15,200.00	10,600.00	10,610.84	10,589.10	78.98		90.00	5,302.03	1,610.31	1,249.45	1,177.46	71.99	17.356					
15,300.00	10,600.00	10,610.84	10,589.10	80.26		90.00	5,302.03	1,610.31	1,211.70	1,136.60	75.10	16.135					
15,400.00	10,600.00	10,610.84	10,589.10	81.55		90.00	5,302.03	1,610.31	1,181.23	1,103.15	78.09	15.127					
15,484.47	10,600.00	10,610.84	10,589.10	82.64		90.00	5,302.03	1,610.31	1,161.60	1,081.16	80.44	14.441	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393		
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018		
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598		
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137		
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644		
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159		
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654		
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118		
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564		
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981		
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383		
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771		
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149		
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519		
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883		
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242		
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601		
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030		
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324		
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045		
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763		
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.89	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477		
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187		
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893		
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595		
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292		
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984		
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672		
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354		
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031		
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703		
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369		
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030		
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685		
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335		
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980		
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620		
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255		
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886		
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515		
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142		
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768		
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400		
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032		
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671		
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320		
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983		
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Actuals												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.81	10,365.44	36.32	35.97	15.38	5,136.59	1,881.12	5,369.03	5,296.82	72.21	74.355		
10,150.00	10,131.76	10,420.00	10,405.55	36.49	36.11	15.67	5,134.13	1,881.94	5,359.63	5,287.11	72.52	73.907		
10,200.00	10,180.46	10,457.25	10,442.73	36.65	36.24	16.09	5,131.91	1,882.72	5,346.23	5,273.41	72.81	73.423		
10,250.00	10,227.98	10,486.44	10,471.86	36.81	36.34	16.65	5,130.26	1,883.33	5,328.98	5,255.90	73.08	72.923		
10,300.00	10,273.98	10,531.28	10,516.62	36.95	36.49	17.40	5,127.79	1,884.28	5,307.95	5,234.57	73.38	72.339		
10,350.00	10,318.11	10,574.02	10,559.29	37.09	36.64	18.37	5,125.44	1,885.18	5,283.23	5,209.58	73.66	71.728		
10,400.00	10,360.01	10,575.00	10,560.27	37.21	36.65	19.48	5,125.38	1,885.20	5,255.16	5,181.37	73.80	71.210		
10,450.00	10,399.38	10,575.00	10,560.27	37.32	36.65	20.84	5,125.38	1,885.20	5,224.09	5,150.17	73.92	70.672		
10,500.00	10,435.92	10,575.00	10,560.27	37.42	36.65	22.55	5,125.38	1,885.20	5,190.20	5,116.18	74.02	70.114		
10,550.00	10,469.35	10,590.46	10,575.71	37.51	36.70	24.78	5,124.75	1,885.44	5,153.48	5,079.32	74.16	69.489		
10,600.00	10,499.41	10,604.68	10,589.93	37.59	36.75	27.63	5,124.56	1,885.51	5,114.60	5,040.31	74.28	68.855		
10,650.00	10,525.87	10,604.68	10,589.93	37.66	36.75	31.21	5,124.56	1,885.51	5,073.40	4,999.06	74.34	68.247		
10,700.00	10,548.54	10,604.68	10,589.93	37.74	36.75	35.89	5,124.56	1,885.51	5,030.35	4,955.97	74.38	67.629		
10,750.00	10,567.24	10,604.68	10,589.93	37.84	36.75	42.12	5,124.56	1,885.51	4,985.72	4,911.31	74.41	67.003		
10,800.00	10,581.83	10,604.68	10,589.93	37.97	36.75	50.50	5,124.56	1,885.51	4,939.81	4,865.38	74.43	66.371		
10,850.00	10,592.19	10,604.68	10,589.93	38.11	36.75	61.65	5,124.56	1,885.51	4,892.95	4,818.51	74.43	65.736		
10,900.00	10,598.26	10,604.68	10,589.93	38.25	36.75	75.75	5,124.56	1,885.51	4,845.46	4,771.03	74.43	65.099		
10,944.69	10,600.00	10,604.68	10,589.93	38.39	36.75	90.03	5,124.56	1,885.51	4,802.77	4,728.34	74.42	64.532		
11,000.00	10,600.00	10,604.68	10,589.93	38.56	36.75	90.03	5,124.56	1,885.51	4,749.93	4,675.52	74.41	63.832		
11,100.00	10,600.00	10,604.68	10,589.93	38.91	36.75	90.03	5,124.56	1,885.51	4,654.55	4,580.15	74.40	62.563		
11,200.00	10,600.00	10,604.68	10,589.93	39.31	36.75	90.03	5,124.56	1,885.51	4,559.37	4,484.98	74.39	61.290		
11,300.00	10,600.00	10,604.68	10,589.93	39.76	36.75	90.03	5,124.56	1,885.51	4,464.40	4,390.01	74.39	60.014		
11,400.00	10,600.00	10,604.68	10,589.93	40.25	36.75	90.03	5,124.56	1,885.51	4,369.65	4,295.25	74.40	58.734		
11,500.00	10,600.00	10,604.68	10,589.93	40.79	36.75	90.03	5,124.56	1,885.51	4,275.14	4,200.72	74.42	57.449		
11,600.00	10,600.00	10,604.68	10,589.93	41.37	36.75	90.03	5,124.56	1,885.51	4,180.88	4,106.44	74.44	56.161		
11,700.00	10,600.00	10,604.68	10,589.93	41.99	36.75	90.03	5,124.56	1,885.51	4,086.90	4,012.42	74.49	54.868		
11,800.00	10,600.00	10,604.68	10,589.93	42.65	36.75	90.03	5,124.56	1,885.51	3,993.21	3,918.67	74.54	53.570		
11,900.00	10,600.00	10,604.68	10,589.93	43.35	36.75	90.03	5,124.56	1,885.51	3,899.84	3,825.23	74.61	52.268		
12,000.00	10,600.00	10,604.68	10,589.93	44.09	36.75	90.03	5,124.56	1,885.51	3,806.80	3,732.10	74.70	50.961		
12,100.00	10,600.00	10,604.68	10,589.93	44.86	36.75	90.03	5,124.56	1,885.51	3,714.13	3,639.32	74.81	49.648		
12,200.00	10,600.00	10,604.68	10,589.93	45.67	36.75	90.03	5,124.56	1,885.51	3,621.84	3,546.90	74.94	48.330		
12,300.00	10,600.00	10,604.68	10,589.93	46.50	36.75	90.03	5,124.56	1,885.51	3,529.97	3,454.88	75.09	47.007		
12,400.00	10,600.00	10,604.68	10,589.93	47.37	36.75	90.03	5,124.56	1,885.51	3,438.56	3,363.28	75.28	45.679		
12,500.00	10,600.00	10,604.68	10,589.93	48.26	36.75	90.03	5,124.56	1,885.51	3,347.64	3,272.15	75.49	44.345		
12,600.00	10,600.00	10,604.68	10,589.93	49.18	36.75	90.03	5,124.56	1,885.51	3,257.25	3,181.51	75.74	43.006		
12,700.00	10,600.00	10,604.68	10,589.93	50.13	36.75	90.03	5,124.56	1,885.51	3,167.44	3,091.41	76.03	41.661		
12,800.00	10,600.00	10,604.68	10,589.93	51.10	36.75	90.03	5,124.56	1,885.51	3,078.25	3,001.89	76.36	40.312		
12,900.00	10,600.00	10,604.68	10,589.93	52.09	36.75	90.03	5,124.56	1,885.51	2,989.75	2,913.01	76.74	38.959		
13,000.00	10,600.00	10,604.68	10,589.93	53.10	36.75	90.03	5,124.56	1,885.51	2,902.00	2,824.82	77.18	37.601		
13,100.00	10,600.00	10,604.68	10,589.93	54.14	36.75	90.03	5,124.56	1,885.51	2,815.07	2,737.39	77.68	36.241		
13,200.00	10,600.00	10,604.68	10,589.93	55.19	36.75	90.03	5,124.56	1,885.51	2,729.03	2,650.79	78.24	34.880		
13,300.00	10,600.00	10,604.68	10,589.93	56.26	36.75	90.03	5,124.56	1,885.51	2,643.97	2,565.09	78.88	33.518		
13,400.00	10,600.00	10,604.68	10,589.93	57.35	36.75	90.03	5,124.56	1,885.51	2,559.99	2,480.39	79.61	32.158		
13,500.00	10,600.00	10,604.68	10,589.93	58.45	36.75	90.03	5,124.56	1,885.51	2,477.21	2,396.78	80.42	30.802		
13,600.00	10,600.00	10,604.68	10,589.93	59.57	36.75	90.03	5,124.56	1,885.51	2,395.73	2,314.39	81.34	29.453		
13,700.00	10,600.00	10,604.68	10,589.93	60.71	36.75	90.03	5,124.56	1,885.51	2,315.71	2,233.34	82.37	28.114		
13,800.00	10,600.00	10,604.68	10,589.93	61.85	36.75	90.03	5,124.56	1,885.51	2,237.30	2,153.78	83.52	26.788		
13,900.00	10,600.00	10,604.68	10,589.93	63.01	36.75	90.03	5,124.56	1,885.51	2,160.67	2,075.88	84.79	25.481		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 2												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10482-												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	
14,000.00	10,600.00	10,604.68	10,589.93	64.18	36.75	90.03	5,124.56	1,885.51	2,086.02	1,999.81	86.21	24.198	
14,100.00	10,600.00	10,604.68	10,589.93	65.37	36.75	90.03	5,124.56	1,885.51	2,013.57	1,925.81	87.77	22.942	
14,200.00	10,600.00	11,139.37	11,029.51	66.56	44.79	110.31	5,253.81	1,661.77	1,938.64	1,846.68	91.95	21.083	
14,300.00	10,600.00	11,150.00	11,034.75	67.76	45.48	110.66	5,258.66	1,653.90	1,864.03	1,770.25	93.78	19.876	
14,400.00	10,600.00	11,150.00	11,034.75	68.98	45.48	110.66	5,258.66	1,653.90	1,791.77	1,696.53	95.24	18.814	
14,500.00	10,600.00	11,176.22	11,047.39	70.20	47.47	111.51	5,271.47	1,634.84	1,721.55	1,623.35	98.20	17.530	
14,600.00	10,600.00	11,200.00	11,058.49	71.43	49.32	112.27	5,284.11	1,618.04	1,654.24	1,553.14	101.10	16.362	
14,700.00	10,600.00	11,200.00	11,058.49	72.67	49.32	112.27	5,284.11	1,618.04	1,589.72	1,486.90	102.81	15.462	
14,800.00	10,600.00	11,224.84	11,069.69	73.92	51.48	113.05	5,298.31	1,601.01	1,528.37	1,422.31	106.06	14.411	
14,900.00	10,600.00	11,250.00	11,080.58	75.17	53.71	113.83	5,313.71	1,584.36	1,470.60	1,361.29	109.31	13.453	
15,000.00	10,600.00	11,266.28	11,087.38	76.44	55.26	114.32	5,324.19	1,573.93	1,416.55	1,304.41	112.13	12.633	
15,100.00	10,600.00	11,300.00	11,100.81	77.70	58.54	115.31	5,347.15	1,553.21	1,366.70	1,250.69	116.01	11.781	
15,200.00	10,600.00	11,317.21	11,107.31	78.98	60.32	115.80	5,359.49	1,543.12	1,321.02	1,202.23	118.79	11.121	
15,300.00	10,600.00	11,350.00	11,118.97	80.26	63.75	116.70	5,384.11	1,524.88	1,280.01	1,157.52	122.49	10.450	
15,400.00	10,600.00	11,379.86	11,128.75	81.55	67.04	117.46	5,407.71	1,509.43	1,243.74	1,117.78	125.96	9.874	
15,484.47	10,600.00	11,400.00	11,134.88	82.64	69.29	117.95	5,424.22	1,499.67	1,216.98	1,088.79	128.20	9.493 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3		Offset Site Error:		0.00 ft	
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 11343-		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						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)							
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86									
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806						
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828						
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095						
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852						
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319						
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949						
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982						
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886						
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875						
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869						
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642						
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616						
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301						
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657						
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003						
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910						
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252						
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446						
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150						
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643						
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564						
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855						
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490						
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930						
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118						
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655						
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951						
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763						
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629						
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669						
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742						
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120						
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143						
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779						
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127						
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186						
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521						
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395						
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915						
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529						
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048						
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493						
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392						
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968						
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311						
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631						
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291						
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105						
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885						
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132						
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3		Offset Site Error:	0.00 ft
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 11343-		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				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936				
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136				
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798				
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758				
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393				
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018				
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598				
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137				
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644				
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159				
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654				
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118				
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564				
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981				
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383				
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771				
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149				
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519				
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883				
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242				
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601				
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030				
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324				
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045				
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763				
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477				
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187				
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893				
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595				
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292				
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984				
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672				
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354				
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031				
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703				
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369				
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030				
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685				
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335				
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980				
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620				
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255				
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886				
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515				
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142				
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768				
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400				
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032				
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671				
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320				
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983				
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11343-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,350.00	11,097.22	80.26	38.06	115.71	5,439.53	1,526.05	1,295.13	1,192.40	102.73	12.607	
15,400.00	10,600.00	11,379.84	11,106.44	81.55	38.27	116.46	5,462.82	1,509.85	1,254.76	1,150.15	104.61	11.995	
15,484.47	10,600.00	11,404.00	11,113.62	82.64	38.45	117.05	5,482.38	1,497.61	1,224.49	1,118.31	106.18	11.532 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 4		Offset Site Error:	0.00 ft
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 12505-		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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936				
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136				
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798				
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758				
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393				
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018				
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598				
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137				
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644				
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159				
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654				
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118				
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564				
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981				
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383				
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771				
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149				
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519				
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883				
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242				
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601				
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030				
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324				
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045				
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763				
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477				
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187				
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893				
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595				
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292				
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984				
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672				
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354				
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031				
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703				
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369				
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030				
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685				
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335				
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980				
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620				
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255				
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886				
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515				
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142				
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768				
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400				
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032				
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671				
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320				
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983				
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 4												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 12505-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 5		Offset Site Error:	0.00 ft
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 13733-		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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936				
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136				
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798				
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758				
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393				
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018				
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598				
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137				
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644				
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159				
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654				
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118				
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564				
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981				
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383				
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771				
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149				
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519				
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883				
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242				
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601				
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030				
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324				
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045				
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763				
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477				
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187				
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893				
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595				
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292				
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984				
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672				
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354				
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031				
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703				
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369				
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030				
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685				
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335				
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980				
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620				
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255				
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886				
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515				
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142				
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768				
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400				
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032				
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671				
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320				
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983				
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 5												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 13733-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6		Offset Site Error:		0.00 ft	
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 14678-		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						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)							
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86									
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806						
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828						
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095						
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852						
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319						
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949						
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982						
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886						
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875						
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869						
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642						
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616						
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301						
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657						
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003						
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910						
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252						
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446						
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150						
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643						
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564						
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855						
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490						
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930						
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118						
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655						
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951						
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763						
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629						
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669						
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742						
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120						
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143						
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779						
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127						
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186						
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521						
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395						
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915						
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529						
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048						
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493						
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392						
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968						
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311						
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631						
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291						
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105						
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885						
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132						
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6													Offset Site Error: 0.00 ft	
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													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)			
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393		
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018		
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598		
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137		
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644		
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159		
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654		
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118		
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564		
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981		
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383		
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771		
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149		
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519		
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883		
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242		
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601		
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030		
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324		
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045		
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763		
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477		
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187		
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893		
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595		
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292		
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984		
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672		
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354		
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031		
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703		
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369		
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030		
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685		
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335		
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980		
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620		
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255		
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886		
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515		
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142		
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768		
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400		
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032		
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671		
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320		
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983		
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 14678-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11533-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11533-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - PTL		Offset Site Error:	0.00 ft
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 11533-		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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936				
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136				
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798				
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758				
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393				
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018				
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598				
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137				
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644				
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159				
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654				
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118				
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564				
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981				
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383				
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771				
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149				
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519				
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883				
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242				
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601				
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030				
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324				
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045				
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763				
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477				
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187				
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893				
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595				
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292				
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984				
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672				
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354				
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031				
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703				
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369				
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030				
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685				
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335				
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980				
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620				
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255				
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886				
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515				
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142				
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768				
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400				
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032				
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671				
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320				
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983				
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - PTL												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11533-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.90	-10.90	0.50		16.40	5,302.03	1,560.31	5,526.85					
100.00	100.00	89.10	89.10	0.52		16.40	5,302.03	1,560.31	5,526.85	5,526.34	0.52	N/A		
200.00	200.00	189.10	189.10	0.70		16.40	5,302.03	1,560.31	5,526.85	5,526.15	0.70	7,871.852		
300.00	300.00	289.10	289.10	0.99		16.40	5,302.03	1,560.31	5,526.85	5,525.87	0.99	5,597.747		
400.00	400.00	395.37	395.37	1.31		16.40	5,302.01	1,560.33	5,526.85	5,525.54	1.31	4,221.893		
401.23	401.23	396.82	396.82	1.31		16.40	5,302.01	1,560.33	5,526.85	5,525.53	1.31	4,208.823		
500.00	500.00	490.13	490.13	1.65		16.40	5,302.05	1,560.30	5,526.86	5,525.22	1.65	3,357.575		
600.00	600.00	589.10	589.10	1.99		16.40	5,302.03	1,560.31	5,526.85	5,524.86	1.99	2,776.472		
700.00	700.00	689.12	689.10	2.34		16.40	5,302.03	1,560.31	5,526.85	5,524.51	2.34	2,362.594		
800.00	800.00	789.13	789.10	2.69		16.40	5,302.03	1,560.31	5,526.85	5,524.16	2.69	2,054.139		
900.00	900.00	889.15	889.10	3.04		16.40	5,302.03	1,560.31	5,526.85	5,523.81	3.04	1,815.923		
1,000.00	1,000.00	989.23	989.18	3.40		16.40	5,302.11	1,560.03	5,526.85	5,523.46	3.40	1,626.664		
1,099.83	1,099.83	1,089.00	1,088.93	3.75		16.40	5,302.06	1,560.19	5,526.85	5,523.10	3.75	1,473.036		
1,100.00	1,100.00	1,089.16	1,089.09	3.75		16.40	5,302.06	1,560.19	5,526.85	5,523.09	3.75	1,472.804		
1,193.83	1,193.83	1,183.00	1,182.93	4.09		16.40	5,301.98	1,560.19	5,526.78	5,522.69	4.09	1,352.546		
1,200.00	1,200.00	1,187.44	1,187.37	4.11		16.40	5,301.99	1,560.20	5,526.78	5,522.67	4.11	1,345.319		
1,300.00	1,300.00	1,287.94	1,287.87	4.46		16.40	5,301.99	1,560.28	5,526.81	5,522.34	4.46	1,238.036		
1,400.00	1,400.00	1,389.17	1,389.10	4.82		16.40	5,302.03	1,560.31	5,526.85	5,522.03	4.82	1,146.517		
1,500.00	1,500.00	1,489.18	1,489.10	5.18		16.40	5,302.03	1,560.31	5,526.85	5,521.68	5.18	1,067.531		
1,600.00	1,600.00	1,589.18	1,589.10	5.53		16.40	5,302.03	1,560.31	5,526.85	5,521.32	5.53	998.685		
1,700.00	1,700.00	1,689.18	1,689.10	5.89		16.40	5,302.03	1,560.31	5,526.85	5,520.96	5.89	938.150		
1,800.00	1,800.00	1,789.18	1,789.10	6.25		16.40	5,302.03	1,560.31	5,526.85	5,520.60	6.25	884.512		
1,900.00	1,900.00	1,889.18	1,889.10	6.61		16.40	5,302.03	1,560.31	5,526.85	5,520.25	6.61	836.659		
2,000.00	2,000.00	1,989.18	1,989.10	6.96		16.40	5,302.03	1,560.31	5,526.85	5,519.89	6.96	793.705		
2,100.00	2,099.99	2,098.47	2,098.39	7.31		-79.09	5,302.09	1,560.36	5,526.76	5,519.45	7.31	755.922		
2,200.00	2,199.96	2,190.59	2,190.51	7.65		-79.12	5,302.03	1,560.41	5,526.22	5,518.56	7.65	722.260		
2,300.00	2,299.86	2,291.18	2,291.09	7.99		-79.17	5,302.04	1,560.35	5,525.39	5,517.40	7.99	691.226		
2,399.87	2,399.54	2,388.73	2,388.64	8.34		-79.25	5,302.03	1,560.31	5,524.23	5,515.89	8.34	662.540		
2,500.00	2,499.43	2,495.92	2,495.83	8.69		-79.32	5,302.05	1,560.35	5,522.96	5,514.27	8.69	635.878		
2,600.00	2,599.19	2,586.48	2,586.39	9.03		-79.39	5,302.01	1,560.35	5,521.63	5,512.59	9.03	611.162		
2,700.00	2,698.94	2,696.02	2,695.93	9.39		-79.47	5,302.03	1,560.33	5,520.36	5,510.98	9.39	588.190		
2,800.00	2,798.70	2,804.11	2,787.80	9.74		-79.53	5,302.03	1,560.31	5,519.08	5,509.34	9.74	566.779		
2,900.00	2,898.46	2,900.87	2,900.78	10.09		-79.61	5,302.01	1,560.30	5,517.80	5,507.71	10.09	546.797		
3,000.00	2,998.21	2,987.41	2,987.31	10.45		-79.67	5,302.03	1,560.31	5,516.55	5,506.11	10.45	528.100		
3,100.00	3,097.97	3,087.18	3,087.07	10.80		-79.74	5,302.03	1,560.31	5,515.31	5,504.50	10.80	510.584		
3,200.00	3,197.73	3,186.94	3,186.83	11.16		-79.81	5,302.03	1,560.31	5,514.07	5,502.91	11.16	494.143		
3,300.00	3,297.48	3,286.70	3,286.58	11.52		-79.89	5,302.03	1,560.31	5,512.83	5,501.32	11.52	478.683		
3,400.00	3,397.24	3,386.46	3,386.34	11.88		-79.96	5,302.03	1,560.31	5,511.61	5,499.74	11.88	464.125		
3,500.00	3,497.00	3,486.22	3,486.10	12.24		-80.03	5,302.03	1,560.31	5,510.40	5,498.16	12.23	450.393		
3,600.00	3,596.75	3,585.98	3,585.85	12.60		-80.10	5,302.03	1,560.31	5,509.19	5,496.59	12.59	437.421		
3,700.00	3,696.51	3,685.74	3,685.61	12.96		-80.17	5,302.03	1,560.31	5,507.99	5,495.04	12.96	425.151		
3,800.00	3,796.27	3,785.50	3,785.37	13.32		-80.24	5,302.03	1,560.31	5,506.80	5,493.49	13.32	413.529		
3,900.00	3,896.02	3,885.46	3,885.33	13.68		-80.31	5,302.02	1,560.37	5,505.63	5,491.95	13.68	402.506		
4,000.00	3,995.78	3,990.98	3,990.84	14.04		-80.39	5,302.07	1,560.41	5,504.52	5,490.48	14.04	392.044		
4,100.00	4,095.54	4,085.73	4,085.59	14.40		-80.46	5,302.01	1,560.47	5,503.31	5,488.91	14.40	382.085		
4,200.00	4,195.29	4,187.25	4,187.10	14.77		-80.53	5,302.04	1,560.45	5,502.18	5,487.41	14.77	372.612		
4,300.00	4,295.05	4,290.71	4,290.56	15.13		-80.60	5,302.07	1,560.37	5,501.04	5,485.91	15.13	363.586		
4,400.00	4,394.81	4,387.35	4,387.19	15.49		-80.67	5,302.04	1,560.36	5,499.87	5,484.38	15.49	354.970		
4,500.00	4,494.56	4,506.11	4,505.95	15.86		-80.76	5,302.03	1,560.30	5,498.76	5,482.90	15.86	346.756		
4,600.00	4,594.32	4,588.77	4,588.54	16.22		-80.82	5,301.98	1,560.54	5,497.62	5,481.39	16.22	338.886		
4,700.00	4,694.08	4,695.96	4,695.57	16.59		-80.89	5,302.04	1,560.28	5,496.50	5,479.91	16.59	331.368		
4,800.00	4,793.83	4,801.56	4,800.98	16.95		-80.97	5,302.11	1,559.87	5,495.38	5,478.43	16.95	324.168		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,893.59	4,883.45	4,882.59	17.32		-81.01	5,301.52	1,562.28	5,494.29	5,476.97	17.32	317.258		
5,000.00	4,993.35	4,984.27	4,982.45	17.68		-81.10	5,302.03	1,560.31	5,493.21	5,475.52	17.68	310.638		
5,100.00	5,093.10	5,076.13	5,074.10	18.05		-81.15	5,301.46	1,562.08	5,492.02	5,473.97	18.05	304.274		
5,200.00	5,192.86	5,185.00	5,181.96	18.42		-81.24	5,302.03	1,560.31	5,491.06	5,472.65	18.42	298.175		
5,300.00	5,292.62	5,285.94	5,281.72	18.78		-81.32	5,302.03	1,560.31	5,490.00	5,471.22	18.78	292.304		
5,400.00	5,392.37	5,386.31	5,381.47	19.15		-81.39	5,302.03	1,560.31	5,488.95	5,469.80	19.15	286.656		
5,500.00	5,492.13	5,486.61	5,481.23	19.52		-81.46	5,302.03	1,560.31	5,487.91	5,468.39	19.51	281.217		
5,600.00	5,591.89	5,586.89	5,580.99	19.88		-81.53	5,302.03	1,560.31	5,486.87	5,466.99	19.88	275.977		
5,700.00	5,691.64	5,687.15	5,680.74	20.25		-81.60	5,302.03	1,560.31	5,485.85	5,465.60	20.25	270.925		
5,800.00	5,791.40	5,786.89	5,779.95	20.62		-81.66	5,301.74	1,561.40	5,484.81	5,464.20	20.62	266.050		
5,900.00	5,891.16	5,887.17	5,879.79	20.98		-81.74	5,301.78	1,561.32	5,483.82	5,462.83	20.98	261.347		
6,000.00	5,990.91	5,990.92	5,983.13	21.35		-81.81	5,301.86	1,561.13	5,482.85	5,461.50	21.35	256.805		
6,100.00	6,090.67	6,087.13	6,078.99	21.72		-81.88	5,301.85	1,561.04	5,481.83	5,460.11	21.72	252.412		
6,200.00	6,190.42	6,190.41	6,181.95	22.09		-81.96	5,301.90	1,560.91	5,480.86	5,458.78	22.09	248.167		
6,300.00	6,290.18	6,287.97	6,279.28	22.45		-82.03	5,302.03	1,560.31	5,479.88	5,457.43	22.45	244.058		
6,400.00	6,389.94	6,381.89	6,373.05	22.82		-82.10	5,301.89	1,560.81	5,478.90	5,456.08	22.82	240.080		
6,500.00	6,489.69	6,482.97	6,473.73	23.19		-82.17	5,301.96	1,560.56	5,477.96	5,454.77	23.19	236.230		
6,600.00	6,589.45	6,581.47	6,572.01	23.56		-82.24	5,301.99	1,560.45	5,477.01	5,453.46	23.56	232.498		
6,700.00	6,689.21	6,688.05	6,678.31	23.93		-82.32	5,302.03	1,560.31	5,476.08	5,452.15	23.93	228.883		
6,800.00	6,788.96	6,787.96	6,778.06	24.29		-82.40	5,302.03	1,560.31	5,475.15	5,450.85	24.29	225.375		
6,900.00	6,888.72	6,887.83	6,877.82	24.66		-82.47	5,302.03	1,560.31	5,474.23	5,449.56	24.66	221.972		
7,000.00	6,988.48	6,987.70	6,977.58	25.03		-82.54	5,302.03	1,560.31	5,473.31	5,448.28	25.03	218.668		
7,100.00	7,088.23	7,087.55	7,077.33	25.40		-82.61	5,302.03	1,560.31	5,472.41	5,447.01	25.40	215.460		
7,200.00	7,187.99	7,187.40	7,177.09	25.77		-82.68	5,302.03	1,560.31	5,471.52	5,445.75	25.77	212.344		
7,300.00	7,287.75	7,287.24	7,276.85	26.14		-82.76	5,302.03	1,560.31	5,470.63	5,444.49	26.14	209.315		
7,400.00	7,387.50	7,387.03	7,376.56	26.50		-82.82	5,301.84	1,560.70	5,469.65	5,443.15	26.50	206.366		
7,500.00	7,487.26	7,484.70	7,474.17	26.87		-82.90	5,301.83	1,560.67	5,468.77	5,441.89	26.87	203.501		
7,600.00	7,587.02	7,581.52	7,570.93	27.24		-82.97	5,301.79	1,560.66	5,467.87	5,440.63	27.24	200.712		
7,700.00	7,686.77	7,679.73	7,669.07	27.61		-83.04	5,301.78	1,560.69	5,467.01	5,439.40	27.61	197.999		
7,800.00	7,786.53	7,777.64	7,766.91	27.98		-83.11	5,301.78	1,560.67	5,466.17	5,438.19	27.98	195.358		
7,900.00	7,886.29	7,875.12	7,864.31	28.35		-83.18	5,301.79	1,560.67	5,465.35	5,437.00	28.35	192.786		
8,000.00	7,986.04	7,971.81	7,960.93	28.72		-83.25	5,301.78	1,560.68	5,464.52	5,435.80	28.72	190.279		
8,100.00	8,085.80	8,067.63	8,056.66	29.09		-83.32	5,301.77	1,560.63	5,463.70	5,434.61	29.09	187.835		
8,200.00	8,185.56	8,163.83	8,152.78	29.46		-83.39	5,301.75	1,560.63	5,462.89	5,433.43	29.46	185.453		
8,300.00	8,285.31	8,259.92	8,248.79	29.83		-83.46	5,301.75	1,560.61	5,462.10	5,432.28	29.83	183.131		
8,400.00	8,385.07	8,357.41	8,346.20	30.20		-83.53	5,301.79	1,560.57	5,461.36	5,431.16	30.20	180.867		
8,500.00	8,484.83	8,485.29	8,473.93	30.56		-83.63	5,302.03	1,560.31	5,460.68	5,430.12	30.56	178.662		
8,600.00	8,584.58	8,585.13	8,573.68	30.93		-83.70	5,302.03	1,560.31	5,459.91	5,428.98	30.93	176.504		
8,700.00	8,684.34	8,684.98	8,673.44	31.30		-83.77	5,302.03	1,560.31	5,459.15	5,427.85	31.30	174.397		
8,800.00	8,784.10	8,784.84	8,773.20	31.67		-83.84	5,302.03	1,560.31	5,458.40	5,426.72	31.67	172.339		
8,900.00	8,883.85	8,884.69	8,872.95	32.04		-83.92	5,302.03	1,560.31	5,457.65	5,425.61	32.04	170.328		
9,000.00	8,983.61	8,984.52	8,972.71	32.41		-83.99	5,302.03	1,560.31	5,456.91	5,424.50	32.41	168.364		
9,100.00	9,083.37	9,084.36	9,072.47	32.78		-84.06	5,302.03	1,560.31	5,456.19	5,423.41	32.78	166.444		
9,200.00	9,183.12	9,181.87	9,169.87	33.15		-84.13	5,301.62	1,560.71	5,455.14	5,421.99	33.15	164.556		
9,300.00	9,282.88	9,277.66	9,265.55	33.52		-84.20	5,301.60	1,560.69	5,454.41	5,420.89	33.52	162.720		
9,400.00	9,382.64	9,374.02	9,361.79	33.89		-84.27	5,301.59	1,560.70	5,453.70	5,419.81	33.89	160.924		
9,428.07	9,410.64	9,384.11	9,371.88	33.99		-84.27	5,301.63	1,560.66	5,453.61	5,419.61	33.99	160.428		
9,500.00	9,482.43	9,469.57	9,457.18	34.26		-84.32	5,301.50	1,560.78	5,453.02	5,418.77	34.26	159.176		
9,596.52	9,578.88	9,566.78	9,554.22	34.61		-84.36	5,301.52	1,560.81	5,452.67	5,418.07	34.61	157.566		
9,600.00	9,582.36	9,567.99	9,555.43	34.62		-84.36	5,301.52	1,560.80	5,452.68	5,418.06	34.62	157.508		
9,676.07	9,658.42	9,657.65	9,644.91	34.88		-84.38	5,301.49	1,560.83	5,452.52	5,417.63	34.88	156.310		
9,694.65	9,677.00	9,663.67	9,650.93	34.95		11.10	5,301.50	1,560.81	5,452.54	5,417.60	34.95	156.020		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,700.00	9,682.35	9,665.41	9,652.66	34.97		11.10	5,301.51	1,560.81	5,452.56	5,417.59	34.97	155.940		
9,769.03	9,751.38	9,751.71	9,738.80	35.20		11.10	5,301.51	1,560.77	5,452.52	5,417.32	35.20	154.902		
9,800.00	9,782.35	9,761.75	9,748.83	35.31		11.10	5,301.54	1,560.75	5,452.59	5,417.29	35.31	154.440		
9,863.24	9,845.59	9,844.60	9,831.51	35.52		11.10	5,301.45	1,560.69	5,452.44	5,416.92	35.52	153.503		
9,900.00	9,882.35	9,854.67	9,841.58	35.65		11.10	5,301.48	1,560.67	5,452.55	5,416.91	35.65	152.966		
9,954.14	9,936.49	9,936.63	9,923.36	35.83		11.10	5,301.34	1,560.66	5,452.33	5,416.50	35.83	152.175		
10,000.00	9,982.35	9,948.05	9,934.77	35.99		11.10	5,301.39	1,560.64	5,452.50	5,416.51	35.99	151.518		
10,044.69	10,027.04	10,029.58	10,016.14	36.14		11.09	5,302.03	1,560.31	5,452.94	5,416.81	36.14	150.894		
10,050.00	10,032.35	10,031.12	10,017.66	36.16		11.52	5,301.34	1,560.58	5,452.30	5,416.14	36.16	150.801		
10,100.00	10,082.26	10,043.34	10,029.87	36.32		11.57	5,301.40	1,560.55	5,449.91	5,413.59	36.33	150.032		
10,150.00	10,131.76	10,126.43	10,112.77	36.49		11.73	5,301.33	1,560.58	5,442.85	5,406.36	36.49	149.154		
10,200.00	10,180.46	10,183.40	10,169.56	36.65		11.99	5,302.03	1,560.31	5,432.44	5,395.79	36.65	148.213		
10,250.00	10,227.98	10,221.20	10,207.32	36.81		12.35	5,301.25	1,560.62	5,416.59	5,379.78	36.81	147.160		
10,300.00	10,273.98	10,277.18	10,263.08	36.95		12.85	5,302.03	1,560.31	5,398.13	5,361.18	36.95	146.084		
10,350.00	10,318.11	10,314.36	10,300.23	37.09		13.50	5,301.25	1,560.65	5,374.43	5,337.34	37.09	144.914		
10,400.00	10,360.01	10,323.70	10,309.56	37.21		14.26	5,301.29	1,560.63	5,347.93	5,310.72	37.21	143.721		
10,450.00	10,399.38	10,402.81	10,388.48	37.32		15.38	5,302.03	1,560.31	5,318.30	5,280.98	37.32	142.511		
10,500.00	10,435.92	10,439.35	10,425.02	37.42		16.72	5,302.03	1,560.31	5,284.92	5,247.51	37.41	141.254		
10,550.00	10,469.35	10,452.11	10,437.74	37.51		18.37	5,300.77	1,560.73	5,247.45	5,209.95	37.50	139.943		
10,600.00	10,499.41	10,462.85	10,448.47	37.59		20.48	5,300.84	1,560.70	5,208.57	5,171.00	37.57	138.654		
10,650.00	10,525.87	10,472.43	10,458.04	37.66		23.25	5,300.94	1,560.67	5,167.36	5,129.74	37.62	137.359		
10,700.00	10,548.54	10,552.28	10,537.64	37.74		27.69	5,302.03	1,560.31	5,124.50	5,086.84	37.66	136.090		
10,750.00	10,567.24	10,557.82	10,543.16	37.84		33.17	5,301.61	1,560.48	5,078.85	5,041.17	37.68	134.777		
10,800.00	10,581.83	10,560.83	10,546.17	37.97		41.02	5,301.62	1,560.47	5,032.22	4,994.52	37.70	133.480		
10,850.00	10,592.19	10,595.98	10,581.29	38.11		53.68	5,302.03	1,560.31	4,984.80	4,947.09	37.70	132.211		
10,900.00	10,598.26	10,602.00	10,587.31	38.25		70.98	5,301.96	1,560.28	4,936.32	4,898.62	37.70	130.932		
10,944.69	10,600.00	10,602.46	10,587.77	38.39		89.93	5,301.96	1,560.28	4,892.78	4,855.09	37.69	129.800		
11,000.00	10,600.00	10,602.46	10,587.77	38.56		89.93	5,301.96	1,560.28	4,838.87	4,801.19	37.68	128.406		
11,100.00	10,600.00	10,602.47	10,587.78	38.91		89.93	5,301.96	1,560.28	4,741.49	4,703.82	37.67	125.878		
11,200.00	10,600.00	10,602.47	10,587.78	39.31		89.93	5,301.96	1,560.28	4,644.22	4,606.56	37.65	123.338		
11,300.00	10,600.00	10,602.48	10,587.79	39.76		89.93	5,301.96	1,560.28	4,547.06	4,509.42	37.65	120.785		
11,400.00	10,600.00	10,602.49	10,587.80	40.25		89.93	5,301.96	1,560.28	4,450.04	4,412.39	37.64	118.219		
11,500.00	10,600.00	10,602.50	10,587.81	40.79		89.93	5,301.96	1,560.28	4,353.14	4,315.50	37.64	115.639		
11,600.00	10,600.00	10,602.50	10,587.81	41.37		89.93	5,301.96	1,560.28	4,256.39	4,218.74	37.65	113.045		
11,700.00	10,600.00	10,602.51	10,587.82	41.99		89.93	5,301.96	1,560.28	4,159.80	4,122.13	37.67	110.436		
11,800.00	10,600.00	10,602.52	10,587.83	42.65		89.93	5,301.96	1,560.28	4,063.37	4,025.68	37.69	107.811		
11,900.00	10,600.00	10,602.53	10,587.84	43.35		89.93	5,301.96	1,560.28	3,967.11	3,929.39	37.72	105.170		
12,000.00	10,600.00	10,602.54	10,587.85	44.09		89.93	5,301.96	1,560.28	3,871.05	3,833.29	37.76	102.512		
12,100.00	10,600.00	10,602.55	10,587.86	44.86		89.93	5,301.96	1,560.28	3,775.19	3,737.37	37.81	99.836		
12,200.00	10,600.00	10,602.56	10,587.87	45.67		89.94	5,301.96	1,560.28	3,679.55	3,641.67	37.88	97.141		
12,300.00	10,600.00	10,602.57	10,587.88	46.50		89.94	5,301.96	1,560.28	3,584.15	3,546.19	37.96	94.427		
12,400.00	10,600.00	10,602.58	10,587.89	47.37		89.94	5,301.96	1,560.28	3,489.00	3,450.95	38.05	91.692		
12,500.00	10,600.00	10,602.59	10,587.90	48.26		89.94	5,301.96	1,560.28	3,394.14	3,355.97	38.16	88.935		
12,600.00	10,600.00	10,602.60	10,587.91	49.18		89.94	5,301.96	1,560.28	3,299.58	3,261.28	38.30	86.156		
12,700.00	10,600.00	10,602.61	10,587.92	50.13		89.94	5,301.96	1,560.28	3,205.34	3,166.89	38.45	83.355		
12,800.00	10,600.00	10,602.62	10,587.93	51.10		89.94	5,301.96	1,560.28	3,111.47	3,072.83	38.64	80.530		
12,900.00	10,600.00	10,602.63	10,587.94	52.09		89.94	5,301.96	1,560.28	3,017.99	2,979.14	38.85	77.681		
13,000.00	10,600.00	10,602.65	10,587.96	53.10		89.94	5,301.96	1,560.28	2,924.95	2,885.85	39.10	74.808		
13,100.00	10,600.00	10,602.66	10,587.97	54.14		89.94	5,301.96	1,560.28	2,832.38	2,792.99	39.39	71.911		
13,200.00	10,600.00	10,602.67	10,587.98	55.19		89.94	5,301.96	1,560.28	2,740.33	2,700.61	39.72	68.992		
13,300.00	10,600.00	10,602.69	10,588.00	56.26		89.94	5,301.96	1,560.28	2,648.85	2,608.75	40.10	66.050		
13,400.00	10,600.00	10,602.70	10,588.01	57.35		89.94	5,301.96	1,560.28	2,558.02	2,517.47	40.55	63.090		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:												Offset Well Error:	0.00 ft
Reference													
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Semi Major Axis		Highside	Offset Wellbore Centre		Distance			Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	Reference	Offset	Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
13,500.00	10,600.00	10,602.72	10,588.03	58.45		89.94	5,301.96	1,560.28	2,467.89	2,426.84	41.05	60.113	
13,600.00	10,600.00	10,602.73	10,588.04	59.57		89.94	5,301.96	1,560.28	2,378.55	2,336.91	41.64	57.123	
13,700.00	10,600.00	10,602.75	10,588.06	60.71		89.95	5,301.96	1,560.28	2,290.10	2,247.79	42.31	54.127	
13,800.00	10,600.00	10,602.77	10,588.08	61.85		89.95	5,301.96	1,560.28	2,202.63	2,159.55	43.08	51.131	
13,900.00	10,600.00	10,602.79	10,588.10	63.01		89.95	5,301.96	1,560.28	2,116.27	2,072.31	43.96	48.143	
14,000.00	10,600.00	10,602.81	10,588.12	64.18		89.95	5,301.96	1,560.28	2,031.17	1,986.20	44.96	45.175	
14,100.00	10,600.00	10,602.83	10,588.14	65.37		89.95	5,301.96	1,560.28	1,947.48	1,901.37	46.11	42.237	
14,200.00	10,600.00	10,602.85	10,588.16	66.56		89.95	5,301.96	1,560.28	1,865.39	1,817.98	47.41	39.346	
14,300.00	10,600.00	10,602.87	10,588.18	67.76		89.95	5,301.96	1,560.28	1,785.14	1,736.25	48.89	36.516	
14,400.00	10,600.00	10,602.89	10,588.20	68.98		89.95	5,301.96	1,560.28	1,706.97	1,656.42	50.55	33.765	
14,500.00	10,600.00	10,602.92	10,588.23	70.20		89.95	5,301.96	1,560.28	1,631.19	1,578.76	52.43	31.113	
14,600.00	10,600.00	10,602.95	10,588.26	71.43		89.96	5,301.96	1,560.28	1,558.15	1,503.62	54.52	28.577	
14,700.00	10,600.00	10,602.97	10,588.28	72.67		89.96	5,301.96	1,560.28	1,488.24	1,431.39	56.85	26.179	
14,800.00	10,600.00	10,603.00	10,588.31	73.92		89.96	5,301.96	1,560.28	1,421.93	1,362.53	59.40	23.937	
14,900.00	10,600.00	10,603.04	10,588.35	75.17		89.96	5,301.96	1,560.28	1,359.75	1,297.57	62.18	21.867	
15,000.00	10,600.00	10,603.07	10,588.38	76.44		89.96	5,301.96	1,560.28	1,302.29	1,237.13	65.16	19.987	
15,100.00	10,600.00	10,603.11	10,588.42	77.70		89.96	5,301.96	1,560.28	1,250.19	1,181.90	68.29	18.308	
15,200.00	10,600.00	10,603.14	10,588.45	78.98		89.97	5,301.96	1,560.28	1,204.16	1,132.65	71.51	16.839	
15,300.00	10,600.00	10,603.19	10,588.49	80.26		89.97	5,301.96	1,560.28	1,164.92	1,090.19	74.73	15.589	
15,400.00	10,600.00	10,603.23	10,588.54	81.55		89.97	5,301.96	1,560.28	1,133.17	1,055.33	77.84	14.558	
15,484.47	10,600.00	10,603.27	10,588.58	82.64		89.97	5,301.96	1,560.28	1,112.66	1,032.38	80.29	13.859	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	2.30	2.30	0.50	0.50	-90.38	-0.59	-90.00	90.00					
100.00	100.00	102.30	102.30	0.52	0.52	-90.38	-0.59	-90.00	90.00	88.96	1.04	86.731		
200.00	200.00	202.30	202.30	0.70	0.71	-90.38	-0.59	-90.00	90.00	88.59	1.41	63.830		
300.00	300.00	302.30	302.30	0.99	0.99	-90.38	-0.59	-90.00	90.00	88.02	1.98	45.415		
400.00	400.00	402.30	402.30	1.31	1.32	-90.38	-0.59	-90.00	90.00	87.38	2.63	34.276		
500.00	500.00	502.30	502.30	1.65	1.65	-90.38	-0.59	-90.00	90.00	86.70	3.30	27.273		
600.00	600.00	602.30	602.30	1.99	2.00	-90.38	-0.59	-90.00	90.00	86.01	3.99	22.562		
700.00	700.00	702.30	702.30	2.34	2.35	-90.38	-0.59	-90.00	90.00	85.32	4.69	19.204		
800.00	800.00	802.30	802.30	2.69	2.70	-90.38	-0.59	-90.00	90.00	84.61	5.39	16.700		
900.00	900.00	902.30	902.30	3.04	3.05	-90.38	-0.59	-90.00	90.00	83.91	6.10	14.766		
1,000.00	1,000.00	1,002.30	1,002.30	3.40	3.41	-90.38	-0.59	-90.00	90.00	83.20	6.80	13.229		
1,100.00	1,100.00	1,102.30	1,102.30	3.75	3.76	-90.38	-0.59	-90.00	90.00	82.49	7.51	11.979		
1,200.00	1,200.00	1,202.30	1,202.30	4.11	4.12	-90.38	-0.59	-90.00	90.00	81.78	8.22	10.943		
1,300.00	1,300.00	1,302.30	1,302.30	4.46	4.47	-90.38	-0.59	-90.00	90.00	81.07	8.94	10.071		
1,400.00	1,400.00	1,402.30	1,402.30	4.82	4.83	-90.38	-0.59	-90.00	90.00	80.35	9.65	9.327		
1,500.00	1,500.00	1,502.30	1,502.30	5.18	5.19	-90.38	-0.59	-90.00	90.00	79.64	10.36	8.685 CC, ES		
1,600.00	1,600.00	1,600.73	1,600.73	5.53	5.53	-90.48	-0.76	-90.87	90.89	79.83	11.06	8.218		
1,700.00	1,700.00	1,699.14	1,699.10	5.89	5.86	-90.76	-1.24	-93.40	93.46	81.72	11.74	7.958		
1,800.00	1,800.00	1,797.43	1,797.30	6.25	6.20	-91.19	-2.03	-97.58	97.73	85.30	12.43	7.864 SF		
1,900.00	1,900.00	1,895.55	1,895.24	6.61	6.53	-91.74	-3.14	-103.41	103.70	90.59	13.11	7.909		
2,000.00	2,000.00	1,993.43	1,992.82	6.96	6.87	-92.36	-4.56	-110.86	111.36	97.57	13.79	8.075		
2,100.00	2,099.99	2,090.94	2,089.89	7.31	7.22	171.57	-6.28	-119.91	121.57	107.12	14.46	8.410		
2,200.00	2,199.96	2,188.18	2,186.53	7.65	7.56	171.08	-8.30	-130.53	135.16	120.05	15.11	8.943		
2,300.00	2,299.86	2,286.90	2,284.57	7.99	7.92	170.74	-10.47	-141.92	151.08	135.28	15.80	9.564		
2,399.87	2,399.54	2,385.20	2,382.19	8.34	8.28	170.56	-12.63	-153.25	168.66	152.18	16.48	10.234		
2,500.00	2,499.43	2,483.62	2,479.92	8.69	8.64	170.48	-14.78	-164.59	187.14	169.98	17.17	10.902		
2,600.00	2,599.19	2,581.90	2,577.53	9.03	9.00	170.41	-16.94	-175.93	205.60	187.75	17.85	11.516		
2,700.00	2,698.94	2,680.18	2,675.13	9.39	9.36	170.36	-19.10	-187.26	224.06	205.52	18.54	12.083		
2,800.00	2,798.70	2,778.46	2,772.73	9.74	9.73	170.31	-21.25	-198.59	242.52	223.28	19.23	12.608		
2,900.00	2,898.46	2,876.74	2,870.33	10.09	10.10	170.27	-23.41	-209.92	260.98	241.05	19.93	13.095		
3,000.00	2,998.21	2,975.02	2,967.93	10.45	10.47	170.24	-25.57	-221.25	279.44	258.81	20.62	13.549		
3,100.00	3,097.97	3,073.30	3,065.54	10.80	10.84	170.21	-27.72	-232.58	297.89	276.57	21.32	13.971		
3,200.00	3,197.73	3,171.59	3,163.14	11.16	11.21	170.18	-29.88	-243.91	316.35	294.33	22.02	14.366		
3,300.00	3,297.48	3,269.87	3,260.74	11.52	11.58	170.16	-32.03	-255.24	334.81	312.09	22.72	14.736		
3,400.00	3,397.24	3,368.15	3,358.34	11.88	11.96	170.14	-34.19	-266.57	353.27	329.85	23.42	15.083		
3,500.00	3,497.00	3,466.43	3,455.95	12.24	12.33	170.12	-36.35	-277.90	371.73	347.60	24.12	15.409		
3,600.00	3,596.75	3,564.71	3,553.55	12.60	12.71	170.10	-38.50	-289.23	390.19	365.36	24.83	15.716		
3,700.00	3,696.51	3,662.99	3,651.15	12.96	13.09	170.08	-40.66	-300.56	408.65	383.11	25.53	16.006		
3,800.00	3,796.27	3,761.28	3,748.75	13.32	13.46	170.07	-42.82	-311.89	427.10	400.87	26.24	16.279		
3,900.00	3,896.02	3,859.56	3,846.36	13.68	13.84	170.06	-44.97	-323.23	445.56	418.62	26.94	16.538		
4,000.00	3,995.78	3,957.84	3,943.96	14.04	14.22	170.04	-47.13	-334.56	464.02	436.37	27.65	16.782		
4,100.00	4,095.54	4,056.12	4,041.56	14.40	14.60	170.03	-49.28	-345.89	482.48	454.12	28.36	17.015		
4,200.00	4,195.29	4,154.40	4,139.16	14.77	14.98	170.02	-51.44	-357.22	500.94	471.87	29.06	17.235		
4,300.00	4,295.05	4,252.68	4,236.77	15.13	15.36	170.01	-53.60	-368.55	519.40	489.62	29.77	17.445		
4,400.00	4,394.81	4,350.97	4,334.37	15.49	15.74	170.00	-55.75	-379.88	537.86	507.37	30.48	17.645		
4,500.00	4,494.56	4,449.25	4,431.97	15.86	16.12	170.00	-57.91	-391.21	556.32	525.12	31.19	17.835		
4,600.00	4,594.32	4,547.53	4,529.57	16.22	16.50	169.99	-60.06	-402.54	574.77	542.87	31.90	18.017		
4,700.00	4,694.08	4,645.81	4,627.18	16.59	16.88	169.98	-62.22	-413.87	593.23	560.62	32.61	18.190		
4,800.00	4,793.83	4,744.09	4,724.78	16.95	17.26	169.97	-64.38	-425.20	611.69	578.37	33.32	18.356		
4,900.00	4,893.59	4,842.37	4,822.38	17.32	17.64	169.97	-66.53	-436.53	630.15	596.12	34.04	18.515		
5,000.00	4,993.35	4,940.65	4,919.98	17.68	18.02	169.96	-68.69	-447.86	648.61	613.86	34.75	18.667		
5,100.00	5,093.10	5,038.94	5,017.59	18.05	18.41	169.95	-70.85	-459.19	667.07	631.61	35.46	18.812		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,137.22	5,115.19	18.42	18.79	169.95	-73.00	-470.52	685.53	649.36	36.17	18.952		
5,300.00	5,292.62	5,235.50	5,212.79	18.78	19.17	169.94	-75.16	-481.86	703.99	667.10	36.88	19.086		
5,400.00	5,392.37	5,333.78	5,310.39	19.15	19.55	169.94	-77.31	-493.19	722.45	684.85	37.60	19.215		
5,500.00	5,492.13	5,432.06	5,407.99	19.52	19.94	169.93	-79.47	-504.52	740.90	702.59	38.31	19.339		
5,600.00	5,591.89	5,530.34	5,505.60	19.88	20.32	169.93	-81.63	-515.85	759.36	720.34	39.03	19.458		
5,700.00	5,691.64	5,628.63	5,603.20	20.25	20.71	169.93	-83.78	-527.18	777.82	738.08	39.74	19.573		
5,800.00	5,791.40	5,726.91	5,700.80	20.62	21.09	169.92	-85.94	-538.51	796.28	755.83	40.45	19.684		
5,900.00	5,891.16	5,825.19	5,798.40	20.98	21.47	169.92	-88.09	-549.84	814.74	773.57	41.17	19.790		
6,000.00	5,990.91	5,923.47	5,896.01	21.35	21.86	169.91	-90.25	-561.17	833.20	791.32	41.88	19.893		
6,100.00	6,090.67	6,021.75	5,993.61	21.72	22.24	169.91	-92.41	-572.50	851.66	809.06	42.60	19.993		
6,200.00	6,190.42	6,120.03	6,091.21	22.09	22.63	169.91	-94.56	-583.83	870.12	826.80	43.31	20.089		
6,300.00	6,290.18	6,218.31	6,188.81	22.45	23.01	169.90	-96.72	-595.16	888.58	844.55	44.03	20.182		
6,400.00	6,389.94	6,316.60	6,286.42	22.82	23.39	169.90	-98.88	-606.49	907.04	862.29	44.74	20.271		
6,500.00	6,489.69	6,414.88	6,384.02	23.19	23.78	169.90	-101.03	-617.82	925.49	880.03	45.46	20.358		
6,600.00	6,589.45	6,513.16	6,481.62	23.56	24.16	169.90	-103.19	-629.16	943.95	897.78	46.18	20.442		
6,700.00	6,689.21	6,611.44	6,579.22	23.93	24.55	169.89	-105.34	-640.49	962.41	915.52	46.89	20.523		
6,800.00	6,788.96	6,709.72	6,676.83	24.29	24.93	169.89	-107.50	-651.82	980.87	933.26	47.61	20.602		
6,900.00	6,888.72	6,808.00	6,774.43	24.66	25.32	169.89	-109.66	-663.15	999.33	951.00	48.33	20.679		
7,000.00	6,988.48	6,906.29	6,872.03	25.03	25.70	169.88	-111.81	-674.48	1,017.79	968.75	49.04	20.753		
7,100.00	7,088.23	7,004.57	6,969.63	25.40	26.09	169.88	-113.97	-685.81	1,036.25	986.49	49.76	20.825		
7,200.00	7,187.99	7,102.85	7,067.24	25.77	26.48	169.88	-116.12	-697.14	1,054.71	1,004.23	50.48	20.895		
7,300.00	7,287.75	7,201.13	7,164.84	26.14	26.86	169.88	-118.28	-708.47	1,073.17	1,021.97	51.19	20.963		
7,400.00	7,387.50	7,300.59	7,262.44	26.50	27.25	169.88	-120.44	-719.80	1,091.63	1,039.71	51.92	21.027		
7,500.00	7,487.26	7,402.31	7,360.04	26.87	27.65	169.87	-122.59	-731.13	1,110.08	1,057.44	52.65	21.086		
7,600.00	7,587.02	7,504.03	7,457.65	27.24	28.05	169.87	-124.75	-742.46	1,128.54	1,075.17	53.38	21.143		
7,700.00	7,686.77	7,594.26	7,555.25	27.61	28.40	169.87	-126.91	-753.79	1,147.00	1,092.94	54.07	21.215		
7,800.00	7,786.53	7,707.46	7,652.85	27.98	28.85	169.87	-129.06	-765.12	1,165.46	1,110.62	54.84	21.253		
7,900.00	7,886.29	7,809.18	7,750.45	28.35	29.25	169.87	-131.22	-776.46	1,183.92	1,128.35	55.57	21.305		
8,000.00	7,986.04	7,899.10	7,848.05	28.72	29.56	169.86	-133.37	-787.79	1,202.38	1,146.16	56.22	21.387		
8,100.00	8,085.80	7,987.38	7,945.66	29.09	29.95	169.86	-135.53	-799.12	1,220.84	1,163.90	56.94	21.442		
8,200.00	8,185.56	8,085.66	8,043.26	29.46	30.33	169.86	-137.69	-810.45	1,239.30	1,181.64	57.66	21.494		
8,300.00	8,285.31	8,183.95	8,140.86	29.83	30.72	169.86	-139.84	-821.78	1,257.76	1,199.38	58.38	21.546		
8,400.00	8,385.07	8,282.23	8,238.46	30.20	31.11	169.86	-142.00	-833.11	1,276.22	1,217.12	59.09	21.596		
8,500.00	8,484.83	8,380.51	8,336.07	30.56	31.49	169.86	-144.16	-844.44	1,294.67	1,234.86	59.81	21.645		
8,600.00	8,584.58	8,517.94	8,472.73	30.93	32.02	169.86	-146.85	-858.60	1,312.01	1,251.22	60.79	21.584		
8,700.00	8,684.34	8,668.80	8,623.24	31.30	32.58	169.90	-148.76	-868.66	1,325.59	1,263.81	61.77	21.459		
8,800.00	8,784.10	8,821.06	8,775.42	31.67	33.11	169.96	-149.57	-872.87	1,335.25	1,272.56	62.69	21.301		
8,900.00	8,883.85	8,931.79	8,886.15	32.04	33.47	170.01	-149.59	-873.00	1,342.20	1,278.79	63.41	21.165		
9,000.00	8,983.61	9,031.54	8,985.91	32.41	33.80	170.06	-149.59	-873.00	1,349.07	1,284.96	64.11	21.043		
9,100.00	9,083.37	9,131.30	9,085.67	32.78	34.12	170.11	-149.59	-873.00	1,355.94	1,291.13	64.81	20.923		
9,200.00	9,183.12	9,236.53	9,190.88	33.15	34.46	170.21	-148.59	-873.01	1,362.75	1,297.23	65.52	20.800		
9,300.00	9,282.88	9,352.00	9,304.68	33.52	34.82	171.03	-130.24	-873.14	1,368.65	1,302.41	66.24	20.661		
9,400.00	9,382.64	9,456.10	9,402.28	33.89	35.11	172.57	-94.45	-873.40	1,374.09	1,307.16	66.93	20.531		
9,428.07	9,410.64	9,482.62	9,425.98	33.99	35.17	173.08	-82.55	-873.48	1,375.72	1,308.61	67.11	20.499		
9,500.00	9,482.43	9,544.87	9,479.25	34.26	35.32	174.44	-50.41	-873.72	1,379.79	1,312.23	67.56	20.422		
9,600.00	9,582.36	9,618.33	9,537.18	34.62	35.46	176.32	-5.32	-874.04	1,385.37	1,317.25	68.12	20.336		
9,694.65	9,677.00	9,675.43	9,577.95	34.95	35.55	-86.55	34.62	-874.33	1,391.55	1,323.00	68.54	20.302		
9,700.00	9,682.35	9,678.33	9,579.91	34.97	35.56	-86.46	36.76	-874.34	1,391.94	1,323.38	68.56	20.302		
9,800.00	9,782.35	9,727.23	9,611.33	35.31	35.62	-84.92	74.22	-874.61	1,401.84	1,333.00	68.84	20.364		
9,900.00	9,882.35	9,767.26	9,634.59	35.65	35.67	-83.59	106.78	-874.85	1,416.82	1,347.88	68.94	20.553		
10,000.00	9,982.35	9,800.00	9,651.89	35.99	35.71	-82.46	134.57	-875.05	1,437.20	1,368.36	68.85	20.876		
10,044.69	10,027.04	9,813.27	9,658.45	36.14	35.72	-81.99	146.10	-875.13	1,448.10	1,379.35	68.75	21.065		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	9,814.75	9,659.16	36.16	35.72	-81.38	147.40	-875.14	1,449.46	1,380.73	68.73	21.089		
10,100.00	10,082.26	9,829.21	9,665.97	36.32	35.73	-79.53	160.16	-875.23	1,462.69	1,394.10	68.58	21.327		
10,150.00	10,131.76	9,850.00	9,675.18	36.49	35.75	-77.45	178.79	-875.37	1,476.47	1,408.03	68.45	21.571		
10,200.00	10,180.46	9,860.46	9,679.56	36.65	35.76	-75.70	188.30	-875.44	1,490.57	1,422.36	68.21	21.852		
10,250.00	10,227.98	9,877.04	9,686.14	36.81	35.77	-73.78	203.51	-875.55	1,504.85	1,436.86	67.99	22.132		
10,300.00	10,273.98	9,900.00	9,694.52	36.95	35.79	-71.75	224.88	-875.70	1,519.13	1,451.32	67.80	22.405		
10,350.00	10,318.11	9,911.65	9,698.45	37.09	35.80	-70.08	235.85	-875.78	1,533.16	1,465.63	67.52	22.706		
10,400.00	10,360.01	9,929.56	9,704.04	37.21	35.81	-68.35	252.86	-875.90	1,546.85	1,479.56	67.29	22.989		
10,450.00	10,399.38	9,950.00	9,709.78	37.32	35.83	-66.67	272.48	-876.04	1,560.03	1,492.96	67.07	23.260		
10,500.00	10,435.92	9,966.33	9,713.85	37.42	35.85	-65.19	288.30	-876.16	1,572.54	1,505.70	66.84	23.528		
10,550.00	10,469.35	9,985.11	9,717.98	37.51	35.87	-63.79	306.61	-876.29	1,584.27	1,517.63	66.64	23.774		
10,600.00	10,499.41	10,000.00	9,720.82	37.59	35.88	-62.58	321.23	-876.40	1,595.10	1,528.66	66.44	24.007		
10,650.00	10,525.87	10,023.27	9,724.50	37.66	35.91	-61.40	344.20	-876.56	1,604.90	1,538.57	66.33	24.197		
10,700.00	10,548.54	10,050.00	9,727.58	37.74	35.95	-60.34	370.75	-876.75	1,613.65	1,547.39	66.26	24.355		
10,750.00	10,567.24	10,050.00	9,727.58	37.84	35.95	-59.68	370.75	-876.75	1,621.23	1,555.12	66.11	24.523		
10,800.00	10,581.83	10,081.59	9,729.61	37.97	36.00	-58.90	402.27	-876.98	1,627.39	1,561.24	66.15	24.603		
10,850.00	10,592.19	10,106.33	9,730.00	38.11	36.04	-58.37	419.70	-877.11	1,632.34	1,566.15	66.20	24.659		
10,900.00	10,598.26	10,148.64	9,730.00	38.25	36.13	-57.92	469.31	-877.46	1,635.56	1,569.20	66.36	24.647		
10,944.69	10,600.00	10,206.72	9,730.00	38.39	36.29	-57.79	513.96	-877.79	1,636.48	1,569.86	66.62	24.564		
11,000.00	10,600.00	10,248.59	9,730.00	38.56	36.42	-57.79	569.27	-878.18	1,636.47	1,569.57	66.90	24.461		
11,100.00	10,600.00	10,348.59	9,730.00	38.91	36.77	-57.79	669.26	-878.91	1,636.46	1,568.90	67.56	24.224		
11,200.00	10,600.00	10,448.59	9,730.00	39.31	37.20	-57.79	769.26	-879.63	1,636.45	1,568.15	68.30	23.958		
11,300.00	10,600.00	10,548.59	9,730.00	39.76	37.68	-57.79	869.26	-880.35	1,636.44	1,567.30	69.14	23.668		
11,400.00	10,600.00	10,648.59	9,730.00	40.25	38.21	-57.79	969.26	-881.07	1,636.43	1,566.36	70.06	23.356		
11,500.00	10,600.00	10,748.59	9,730.00	40.79	38.79	-57.79	1,069.25	-881.79	1,636.42	1,565.34	71.07	23.025		
11,600.00	10,600.00	10,848.59	9,730.00	41.37	39.41	-57.79	1,169.25	-882.51	1,636.40	1,564.25	72.16	22.678		
11,700.00	10,600.00	10,948.59	9,730.00	41.99	40.08	-57.79	1,269.25	-883.23	1,636.39	1,563.07	73.32	22.318		
11,800.00	10,600.00	11,048.59	9,730.00	42.65	40.79	-57.79	1,369.25	-883.95	1,636.38	1,561.83	74.56	21.949		
11,900.00	10,600.00	11,148.59	9,730.00	43.35	41.54	-57.79	1,469.24	-884.67	1,636.37	1,560.51	75.86	21.571		
12,000.00	10,600.00	11,248.59	9,730.00	44.09	42.32	-57.79	1,569.24	-885.40	1,636.36	1,559.13	77.23	21.188		
12,100.00	10,600.00	11,348.59	9,730.00	44.86	43.14	-57.79	1,669.24	-886.12	1,636.35	1,557.69	78.66	20.803		
12,200.00	10,600.00	11,448.59	9,730.00	45.67	43.99	-57.79	1,769.23	-886.84	1,636.34	1,556.19	80.15	20.416		
12,300.00	10,600.00	11,548.59	9,730.00	46.50	44.88	-57.79	1,869.23	-887.56	1,636.33	1,554.63	81.70	20.029		
12,400.00	10,600.00	11,648.59	9,730.00	47.37	45.79	-57.79	1,969.23	-888.28	1,636.31	1,553.02	83.30	19.644		
12,500.00	10,600.00	11,748.59	9,730.00	48.26	46.73	-57.79	2,069.23	-889.00	1,636.30	1,551.36	84.94	19.263		
12,600.00	10,600.00	11,848.59	9,730.00	49.18	47.69	-57.79	2,169.22	-889.72	1,636.29	1,549.65	86.64	18.886		
12,700.00	10,600.00	11,948.59	9,730.00	50.13	48.68	-57.78	2,269.22	-890.44	1,636.28	1,547.90	88.38	18.514		
12,800.00	10,600.00	12,048.59	9,730.00	51.10	49.69	-57.78	2,369.22	-891.16	1,636.27	1,546.11	90.16	18.149		
12,900.00	10,600.00	12,148.59	9,730.00	52.09	50.72	-57.78	2,469.22	-891.89	1,636.26	1,544.28	91.98	17.789		
13,000.00	10,600.00	12,248.59	9,730.00	53.10	51.77	-57.78	2,569.21	-892.61	1,636.25	1,542.41	93.84	17.437		
13,100.00	10,600.00	12,348.59	9,730.00	54.14	52.85	-57.78	2,669.21	-893.33	1,636.24	1,540.51	95.73	17.093		
13,200.00	10,600.00	12,448.59	9,730.00	55.19	53.94	-57.78	2,769.21	-894.05	1,636.22	1,538.57	97.65	16.756		
13,300.00	10,600.00	12,548.59	9,730.00	56.26	55.04	-57.78	2,869.21	-894.77	1,636.21	1,536.61	99.61	16.427		
13,400.00	10,600.00	12,648.59	9,730.00	57.35	56.17	-57.78	2,969.20	-895.49	1,636.20	1,534.61	101.59	16.106		
13,500.00	10,600.00	12,748.59	9,730.00	58.45	57.30	-57.78	3,069.20	-896.21	1,636.19	1,532.59	103.60	15.793		
13,600.00	10,600.00	12,848.59	9,730.00	59.57	58.45	-57.78	3,169.20	-896.93	1,636.18	1,530.54	105.64	15.489		
13,700.00	10,600.00	12,948.59	9,730.00	60.71	59.62	-57.78	3,269.20	-897.65	1,636.17	1,528.47	107.70	15.192		
13,800.00	10,600.00	13,048.59	9,730.00	61.85	60.80	-57.78	3,369.19	-898.37	1,636.16	1,526.37	109.78	14.904		
13,900.00	10,600.00	13,148.59	9,730.00	63.01	61.98	-57.78	3,469.19	-899.10	1,636.15	1,524.26	111.89	14.623		
14,000.00	10,600.00	13,248.59	9,730.00	64.18	63.18	-57.78	3,569.19	-899.82	1,636.13	1,522.12	114.01	14.350		
14,100.00	10,600.00	13,348.59	9,730.00	65.37	64.39	-57.78	3,669.19	-900.54	1,636.12	1,519.96	116.16	14.085		
14,200.00	10,600.00	13,448.59	9,730.00	66.56	65.62	-57.78	3,769.18	-901.26	1,636.11	1,517.79	118.32	13.827		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 14H - 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	
14,300.00	10,600.00	13,548.59	9,730.00	67.76	66.85	-57.78	3,869.18	-901.98	1,636.10	1,515.59	120.51	13.577	
14,400.00	10,600.00	13,648.59	9,730.00	68.98	68.08	-57.78	3,969.18	-902.70	1,636.09	1,513.39	122.70	13.334	
14,500.00	10,600.00	13,748.59	9,730.00	70.20	69.33	-57.78	4,069.18	-903.42	1,636.08	1,511.16	124.92	13.097	
14,600.00	10,600.00	13,848.59	9,730.00	71.43	70.59	-57.78	4,169.17	-904.14	1,636.07	1,508.92	127.14	12.868	
14,700.00	10,600.00	13,948.59	9,730.00	72.67	71.85	-57.78	4,269.17	-904.86	1,636.06	1,506.67	129.39	12.645	
14,800.00	10,600.00	14,048.59	9,730.00	73.92	73.12	-57.78	4,369.17	-905.59	1,636.04	1,504.40	131.64	12.428	
14,900.00	10,600.00	14,148.59	9,730.00	75.17	74.40	-57.78	4,469.16	-906.31	1,636.03	1,502.12	133.91	12.218	
15,000.00	10,600.00	14,248.59	9,730.00	76.44	75.68	-57.78	4,569.16	-907.03	1,636.02	1,499.83	136.19	12.013	
15,100.00	10,600.00	14,348.59	9,730.00	77.70	76.97	-57.78	4,669.16	-907.75	1,636.01	1,497.53	138.48	11.814	
15,200.00	10,600.00	14,448.59	9,730.00	78.98	78.26	-57.78	4,769.16	-908.47	1,636.00	1,495.22	140.78	11.621	
15,300.00	10,600.00	14,548.59	9,730.00	80.26	79.56	-57.78	4,869.15	-909.19	1,635.99	1,492.90	143.09	11.433	
15,400.00	10,600.00	14,648.59	9,730.00	81.55	80.87	-57.78	4,969.15	-909.91	1,635.98	1,490.56	145.41	11.250	
15,484.47	10,600.00	14,733.06	9,730.00	82.64	81.98	-57.78	5,053.62	-910.52	1,635.97	1,488.59	147.38	11.100	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.60	1.60	0.50	0.50	-90.38	-0.40	-60.00	60.00					
100.00	100.00	101.60	101.60	0.52	0.52	-90.38	-0.40	-60.00	60.00	58.96	1.04	57.859		
200.00	200.00	201.60	201.60	0.70	0.71	-90.38	-0.40	-60.00	60.00	58.59	1.41	42.607		
300.00	300.00	301.60	301.60	0.99	0.99	-90.38	-0.40	-60.00	60.00	58.02	1.98	30.310		
400.00	400.00	401.60	401.60	1.31	1.31	-90.38	-0.40	-60.00	60.00	57.38	2.62	22.871		
500.00	500.00	501.60	501.60	1.65	1.65	-90.38	-0.40	-60.00	60.00	56.70	3.30	18.195		
600.00	600.00	601.60	601.60	1.99	2.00	-90.38	-0.40	-60.00	60.00	56.01	3.99	15.050		
700.00	700.00	701.60	701.60	2.34	2.34	-90.38	-0.40	-60.00	60.00	55.32	4.68	12.809		
800.00	800.00	801.60	801.60	2.69	2.70	-90.38	-0.40	-60.00	60.00	54.61	5.39	11.139		
900.00	900.00	901.60	901.60	3.04	3.05	-90.38	-0.40	-60.00	60.00	53.91	6.09	9.848		
1,000.00	1,000.00	1,001.60	1,001.60	3.40	3.40	-90.38	-0.40	-60.00	60.00	53.20	6.80	8.822		
1,100.00	1,100.00	1,101.60	1,101.60	3.75	3.76	-90.38	-0.40	-60.00	60.00	52.49	7.51	7.989		
1,200.00	1,200.00	1,201.60	1,201.60	4.11	4.11	-90.38	-0.40	-60.00	60.00	51.78	8.22	7.298		
1,300.00	1,300.00	1,301.60	1,301.60	4.46	4.47	-90.38	-0.40	-60.00	60.00	51.07	8.93	6.716		
1,400.00	1,400.00	1,401.60	1,401.60	4.82	4.83	-90.38	-0.40	-60.00	60.00	50.35	9.65	6.220		
1,500.00	1,500.00	1,501.60	1,501.60	5.18	5.18	-90.38	-0.40	-60.00	60.00	49.64	10.36	5.792		
1,600.00	1,600.00	1,601.60	1,601.60	5.53	5.54	-90.38	-0.40	-60.00	60.00	48.93	11.07	5.418		
1,700.00	1,700.00	1,701.60	1,701.60	5.89	5.90	-90.38	-0.40	-60.00	60.00	48.21	11.79	5.090		
1,800.00	1,800.00	1,801.60	1,801.60	6.25	6.25	-90.38	-0.40	-60.00	60.00	47.50	12.50	4.799 Alert		
1,900.00	1,900.00	1,901.60	1,901.60	6.61	6.61	-90.38	-0.40	-60.00	60.00	46.78	13.22	4.540 Alert		
2,000.00	2,000.00	2,001.60	2,001.60	6.96	6.97	-90.38	-0.40	-60.00	60.00	46.07	13.93	4.307 Alert, CC, ES		
2,100.00	2,099.99	2,101.59	2,101.59	7.31	7.33	174.22	-0.40	-60.00	60.87	46.23	14.64	4.158 Alert		
2,200.00	2,199.96	2,201.56	2,201.56	7.65	7.68	174.46	-0.40	-60.00	63.47	48.14	15.33	4.139 Alert, SF		
2,300.00	2,299.86	2,301.46	2,301.46	7.99	8.04	174.81	-0.40	-60.00	67.82	51.78	16.03	4.230 Alert		
2,399.87	2,399.54	2,401.14	2,401.14	8.34	8.40	175.23	-0.40	-60.00	73.89	57.16	16.73	4.416 Alert		
2,500.00	2,499.43	2,501.03	2,501.03	8.69	8.76	175.64	-0.40	-60.00	80.85	63.42	17.43	4.638 Alert		
2,600.00	2,599.19	2,600.79	2,600.79	9.03	9.11	175.99	-0.40	-60.00	87.81	69.67	18.13	4.842 Alert		
2,700.00	2,698.94	2,700.54	2,700.54	9.39	9.47	176.28	-0.40	-60.00	94.76	75.93	18.84	5.031		
2,800.00	2,798.70	2,800.30	2,800.30	9.74	9.83	176.54	-0.40	-60.00	101.72	82.18	19.54	5.206		
2,900.00	2,898.46	2,900.06	2,900.06	10.09	10.18	176.76	-0.40	-60.00	108.68	88.44	20.25	5.368		
3,000.00	2,998.21	3,000.19	2,999.81	10.45	10.54	176.96	-0.40	-60.00	115.65	94.69	20.95	5.520		
3,100.00	3,097.97	3,100.43	3,099.57	10.80	10.90	177.13	-0.40	-60.00	122.61	100.95	21.66	5.661		
3,200.00	3,197.73	3,200.67	3,199.33	11.16	11.26	177.28	-0.40	-60.00	129.58	107.21	22.37	5.792		
3,300.00	3,297.48	3,300.92	3,299.08	11.52	11.62	177.42	-0.40	-60.00	136.54	113.46	23.08	5.916		
3,400.00	3,397.24	3,401.16	3,398.84	11.88	11.98	177.55	-0.40	-60.00	143.51	119.72	23.79	6.032		
3,500.00	3,497.00	3,498.60	3,498.60	12.24	12.33	177.66	-0.40	-60.00	150.48	125.98	24.49	6.144		
3,600.00	3,596.75	3,600.11	3,600.10	12.60	12.67	177.52	-1.10	-59.48	156.89	131.70	25.19	6.228		
3,700.00	3,696.51	3,701.75	3,701.71	12.96	13.01	176.90	-3.25	-57.88	162.19	136.31	25.88	6.268		
3,800.00	3,796.27	3,801.71	3,801.60	13.32	13.34	176.07	-6.15	-55.72	166.90	140.34	26.56	6.284		
3,900.00	3,896.02	3,901.57	3,901.40	13.68	13.67	175.28	-9.04	-53.56	171.63	144.39	27.24	6.300		
4,000.00	3,995.78	4,001.43	4,001.19	14.04	14.00	174.53	-11.94	-51.41	176.40	148.47	27.93	6.316		
4,100.00	4,095.54	4,101.29	4,100.99	14.40	14.33	173.83	-14.83	-49.25	181.20	152.58	28.62	6.332		
4,200.00	4,195.29	4,201.15	4,200.79	14.77	14.66	173.16	-17.73	-47.09	186.02	156.72	29.31	6.348		
4,300.00	4,295.05	4,301.01	4,300.58	15.13	15.00	172.52	-20.63	-44.93	190.87	160.87	30.00	6.363		
4,400.00	4,394.81	4,400.87	4,400.38	15.49	15.33	171.91	-23.52	-42.78	195.74	165.05	30.69	6.378		
4,500.00	4,494.56	4,500.74	4,500.17	15.86	15.67	171.34	-26.42	-40.62	200.63	169.24	31.38	6.393		
4,600.00	4,594.32	4,600.60	4,599.97	16.22	16.01	170.79	-29.31	-38.46	205.54	173.46	32.08	6.407		
4,700.00	4,694.08	4,700.46	4,699.76	16.59	16.35	170.27	-32.21	-36.30	210.47	177.69	32.78	6.421		
4,800.00	4,793.83	4,800.32	4,799.56	16.95	16.69	169.77	-35.11	-34.15	215.41	181.93	33.48	6.435		
4,900.00	4,893.59	4,900.18	4,899.35	17.32	17.03	169.30	-38.00	-31.99	220.37	186.19	34.18	6.448		
5,000.00	4,993.35	5,000.04	4,999.15	17.68	17.37	168.84	-40.90	-29.83	225.34	190.47	34.88	6.461		
5,100.00	5,093.10	5,100.10	5,098.94	18.05	17.72	168.41	-43.79	-27.67	230.33	194.75	35.58	6.474		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,200.24	5,198.74	18.42	18.06	167.99	-46.69	-25.51	235.33	199.05	36.28	6.486		
5,300.00	5,292.62	5,300.38	5,298.53	18.78	18.41	167.59	-49.59	-23.36	240.34	203.36	36.99	6.498		
5,400.00	5,392.37	5,399.48	5,398.33	19.15	18.75	167.21	-52.48	-21.20	245.37	207.68	37.69	6.510		
5,500.00	5,492.13	5,499.34	5,498.12	19.52	19.10	166.84	-55.38	-19.04	250.40	212.01	38.39	6.522		
5,600.00	5,591.89	5,599.20	5,597.92	19.88	19.44	166.48	-58.28	-16.88	255.44	216.34	39.10	6.533		
5,700.00	5,691.64	5,700.94	5,697.71	20.25	19.80	166.15	-61.17	-14.73	260.50	220.68	39.81	6.543		
5,800.00	5,791.40	5,801.08	5,797.51	20.62	20.15	165.82	-64.07	-12.57	265.56	225.04	40.52	6.554		
5,900.00	5,891.16	5,901.22	5,897.30	20.98	20.50	165.50	-66.96	-10.41	270.63	229.40	41.23	6.564		
6,000.00	5,990.91	6,001.36	5,997.10	21.35	20.84	165.20	-69.86	-8.25	275.70	233.76	41.94	6.574		
6,100.00	6,090.67	6,101.50	6,096.90	21.72	21.19	164.91	-72.76	-6.10	280.79	238.14	42.65	6.583		
6,200.00	6,190.42	6,201.64	6,196.69	22.09	21.54	164.63	-75.65	-3.94	285.88	242.52	43.36	6.593		
6,300.00	6,290.18	6,301.77	6,296.49	22.45	21.90	164.36	-78.55	-1.78	290.98	246.91	44.07	6.602		
6,400.00	6,389.94	6,401.91	6,396.28	22.82	22.25	164.09	-81.44	0.38	296.09	251.30	44.79	6.611		
6,500.00	6,489.69	6,502.05	6,496.08	23.19	22.60	163.84	-84.34	2.53	301.20	255.70	45.50	6.620		
6,600.00	6,589.45	6,602.19	6,595.87	23.56	22.95	163.60	-87.24	4.69	306.31	260.10	46.21	6.629		
6,700.00	6,689.21	6,702.33	6,695.67	23.93	23.30	163.36	-90.13	6.85	311.44	264.51	46.92	6.637		
6,800.00	6,788.96	6,802.47	6,795.46	24.29	23.66	163.13	-93.03	9.01	316.56	268.93	47.64	6.645		
6,900.00	6,888.72	6,902.61	6,895.26	24.66	24.01	162.91	-95.93	11.16	321.70	273.34	48.35	6.653		
7,000.00	6,988.48	7,002.75	6,995.05	25.03	24.36	162.69	-98.82	13.32	326.83	277.76	49.07	6.661		
7,100.00	7,088.23	7,097.11	7,094.85	25.40	24.69	162.49	-101.72	15.48	331.97	282.21	49.76	6.671		
7,200.00	7,187.99	7,203.03	7,194.64	25.77	25.07	162.28	-104.61	17.64	337.12	286.62	50.50	6.676		
7,300.00	7,287.75	7,303.17	7,294.44	26.14	25.42	162.09	-107.51	19.79	342.27	291.05	51.21	6.683		
7,400.00	7,387.50	7,403.31	7,394.23	26.50	25.78	161.90	-110.41	21.95	347.42	295.49	51.93	6.690		
7,500.00	7,487.26	7,503.45	7,494.03	26.87	26.13	161.71	-113.30	24.11	352.58	299.93	52.65	6.697		
7,600.00	7,587.02	7,603.59	7,593.82	27.24	26.49	161.53	-116.20	26.27	357.74	304.38	53.36	6.704		
7,700.00	7,686.77	7,703.73	7,693.62	27.61	26.84	161.36	-119.09	28.42	362.90	308.82	54.08	6.710		
7,800.00	7,786.53	7,803.87	7,793.41	27.98	27.20	161.19	-121.99	30.58	368.07	313.27	54.80	6.717		
7,900.00	7,886.29	7,904.01	7,893.21	28.35	27.55	161.03	-124.89	32.74	373.24	317.73	55.52	6.723		
8,000.00	7,986.04	8,004.14	7,993.01	28.72	27.91	160.87	-127.78	34.90	378.42	322.18	56.23	6.729		
8,100.00	8,085.80	8,104.28	8,092.80	29.09	28.26	160.71	-130.68	37.05	383.59	326.64	56.95	6.735		
8,200.00	8,185.56	8,204.42	8,192.60	29.46	28.62	160.56	-133.57	39.21	388.77	331.10	57.67	6.741		
8,300.00	8,285.31	8,304.56	8,292.39	29.83	28.98	160.41	-136.47	41.37	393.95	335.56	58.39	6.747		
8,400.00	8,385.07	8,404.70	8,392.19	30.20	29.33	160.27	-139.37	43.53	399.14	340.03	59.11	6.752		
8,500.00	8,484.83	8,495.16	8,491.98	30.56	29.66	160.13	-142.26	45.68	404.32	344.53	59.79	6.762		
8,600.00	8,584.58	8,595.02	8,591.78	30.93	30.01	159.99	-145.16	47.84	409.51	349.00	60.51	6.767		
8,700.00	8,684.34	8,693.99	8,690.68	31.30	30.36	159.87	-147.98	49.94	414.73	353.50	61.23	6.774		
8,800.00	8,784.10	8,789.87	8,786.55	31.67	30.70	159.96	-149.36	50.97	420.61	358.69	61.92	6.793		
8,900.00	8,883.85	8,888.78	8,885.45	32.04	31.05	160.28	-149.40	51.00	427.14	364.53	62.62	6.822		
9,000.00	8,983.61	8,988.53	8,985.21	32.41	31.39	160.59	-149.40	51.00	433.72	370.40	63.32	6.850		
9,100.00	9,083.37	9,088.29	9,084.97	32.78	31.73	160.89	-149.40	51.00	440.30	376.28	64.02	6.877		
9,200.00	9,183.12	9,193.84	9,190.49	33.15	32.10	161.32	-148.42	50.99	446.72	381.96	64.76	6.898		
9,300.00	9,282.88	9,310.85	9,305.80	33.52	32.49	163.97	-129.75	50.86	450.13	384.65	65.49	6.874		
9,400.00	9,382.64	9,416.12	9,404.38	33.89	32.81	168.77	-93.26	50.60	451.93	385.79	66.14	6.833		
9,428.07	9,410.64	9,442.88	9,428.24	33.99	32.89	170.34	-81.15	50.51	452.73	386.41	66.32	6.827		
9,500.00	9,482.43	9,505.60	9,481.76	34.26	33.06	174.52	-48.50	50.27	455.80	389.10	66.70	6.834		
9,600.00	9,582.36	9,579.40	9,539.70	34.62	33.26	-179.76	-2.88	49.94	464.30	397.42	66.87	6.943		
9,694.65	9,677.00	9,636.59	9,580.30	34.95	33.42	-79.40	37.37	49.65	479.55	413.19	66.36	7.226		
9,700.00	9,682.35	9,639.50	9,582.25	34.97	33.42	-79.14	39.53	49.64	480.66	414.35	66.31	7.249		
9,800.00	9,782.35	9,688.35	9,613.41	35.31	33.55	-74.72	77.13	49.37	508.03	443.16	64.87	7.832		
9,900.00	9,882.35	9,728.25	9,636.41	35.65	33.66	-71.03	109.73	49.13	547.53	484.78	62.75	8.725		
10,000.00	9,982.35	9,761.17	9,653.64	35.99	33.75	-67.99	137.77	48.93	597.91	537.61	60.30	9.916		
10,044.69	10,027.04	9,774.03	9,659.93	36.14	33.78	-66.81	148.98	48.85	623.48	564.31	59.18	10.536		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	9,775.50	9,660.63	36.16	33.79	-65.90	150.28	48.84	626.63	567.58	59.04	10.613		
10,100.00	10,082.26	9,789.89	9,667.33	36.32	33.82	-61.33	163.01	48.75	656.49	598.67	57.83	11.353		
10,150.00	10,131.76	9,800.00	9,671.85	36.49	33.85	-57.32	172.05	48.68	686.55	630.04	56.51	12.149		
10,200.00	10,180.46	9,821.02	9,680.73	36.65	33.91	-52.88	191.11	48.55	716.30	660.76	55.54	12.897		
10,250.00	10,227.98	9,837.55	9,687.22	36.81	33.95	-49.15	206.31	48.44	745.52	691.04	54.48	13.684		
10,300.00	10,273.98	9,850.00	9,691.81	36.95	33.99	-45.99	217.88	48.35	773.92	720.54	53.37	14.501		
10,350.00	10,318.11	9,872.08	9,699.34	37.09	34.05	-42.80	238.64	48.20	801.15	748.60	52.55	15.246		
10,400.00	10,360.01	9,900.00	9,707.70	37.21	34.13	-39.86	265.27	48.01	827.24	775.34	51.90	15.940		
10,450.00	10,399.38	9,900.00	9,707.70	37.32	34.13	-38.10	265.27	48.01	851.66	800.94	50.72	16.792		
10,500.00	10,435.92	9,926.69	9,714.48	37.42	34.20	-35.90	291.08	47.83	874.39	824.24	50.15	17.436		
10,550.00	10,469.35	9,950.00	9,719.40	37.51	34.27	-34.10	313.86	47.66	895.45	845.88	49.57	18.065		
10,600.00	10,499.41	9,964.42	9,721.98	37.59	34.31	-32.73	328.05	47.56	914.57	865.65	48.92	18.693		
10,650.00	10,525.87	9,983.57	9,724.86	37.66	34.36	-31.49	346.98	47.42	931.73	883.29	48.44	19.234		
10,700.00	10,548.54	10,000.00	9,726.82	37.74	34.41	-30.48	363.29	47.30	946.82	898.79	48.02	19.716		
10,750.00	10,567.24	10,022.32	9,728.74	37.84	34.47	-29.61	385.53	47.14	959.74	911.99	47.75	20.098		
10,800.00	10,581.83	10,050.00	9,729.91	37.97	34.55	-28.87	413.18	46.95	970.55	922.96	47.60	20.391		
10,850.00	10,592.19	10,063.19	9,730.00	38.11	34.59	-28.40	426.37	46.85	978.94	931.47	47.47	20.622		
10,900.00	10,598.26	10,112.80	9,730.00	38.25	34.74	-27.98	475.98	46.49	984.30	936.75	47.55	20.702		
10,944.69	10,600.00	10,157.45	9,730.00	38.39	34.89	-27.86	520.62	46.17	985.83	938.16	47.68	20.677		
11,000.00	10,600.00	10,212.76	9,730.00	38.56	35.08	-27.86	575.93	45.77	985.83	937.95	47.88	20.589		
11,100.00	10,600.00	10,312.76	9,730.00	38.91	35.48	-27.85	675.93	45.05	985.82	937.51	48.31	20.404		
11,200.00	10,600.00	10,412.76	9,730.00	39.31	35.94	-27.85	775.93	44.33	985.82	937.00	48.82	20.193		
11,300.00	10,600.00	10,512.76	9,730.00	39.76	36.45	-27.85	875.92	43.61	985.81	936.41	49.40	19.956		
11,400.00	10,600.00	10,612.76	9,730.00	40.25	37.01	-27.85	975.92	42.89	985.81	935.76	50.04	19.699		
11,500.00	10,600.00	10,712.76	9,730.00	40.79	37.61	-27.85	1,075.92	42.17	985.80	935.04	50.76	19.422		
11,600.00	10,600.00	10,812.76	9,730.00	41.37	38.26	-27.85	1,175.92	41.45	985.79	934.26	51.53	19.130		
11,700.00	10,600.00	10,912.76	9,730.00	41.99	38.96	-27.85	1,275.91	40.73	985.79	933.42	52.37	18.825		
11,800.00	10,600.00	11,012.76	9,730.00	42.65	39.70	-27.85	1,375.91	40.01	985.78	932.52	53.26	18.509		
11,900.00	10,600.00	11,112.76	9,730.00	43.35	40.47	-27.85	1,475.91	39.29	985.77	931.56	54.21	18.185		
12,000.00	10,600.00	11,212.76	9,730.00	44.09	41.29	-27.85	1,575.90	38.57	985.77	930.56	55.21	17.856		
12,100.00	10,600.00	11,312.76	9,730.00	44.86	42.13	-27.85	1,675.90	37.84	985.76	929.50	56.26	17.522		
12,200.00	10,600.00	11,412.76	9,730.00	45.67	43.01	-27.85	1,775.90	37.12	985.75	928.40	57.35	17.188		
12,300.00	10,600.00	11,512.76	9,730.00	46.50	43.92	-27.85	1,875.90	36.40	985.75	927.26	58.49	16.853		
12,400.00	10,600.00	11,612.76	9,730.00	47.37	44.86	-27.85	1,975.89	35.68	985.74	926.07	59.67	16.519		
12,500.00	10,600.00	11,712.76	9,730.00	48.26	45.83	-27.85	2,075.89	34.96	985.73	924.84	60.89	16.188		
12,600.00	10,600.00	11,812.76	9,730.00	49.18	46.82	-27.84	2,175.89	34.24	985.73	923.58	62.15	15.861		
12,700.00	10,600.00	11,912.76	9,730.00	50.13	47.84	-27.84	2,275.89	33.52	985.72	922.28	63.44	15.538		
12,800.00	10,600.00	12,012.76	9,730.00	51.10	48.87	-27.84	2,375.88	32.80	985.72	920.95	64.76	15.221		
12,900.00	10,600.00	12,112.76	9,730.00	52.09	49.93	-27.84	2,475.88	32.08	985.71	919.59	66.11	14.909		
13,000.00	10,600.00	12,212.76	9,730.00	53.10	51.01	-27.84	2,575.88	31.36	985.70	918.21	67.50	14.604		
13,100.00	10,600.00	12,312.76	9,730.00	54.14	52.11	-27.84	2,675.88	30.64	985.70	916.79	68.91	14.305		
13,200.00	10,600.00	12,412.76	9,730.00	55.19	53.22	-27.84	2,775.87	29.92	985.69	915.35	70.34	14.013		
13,300.00	10,600.00	12,512.76	9,730.00	56.26	54.35	-27.84	2,875.87	29.20	985.68	913.88	71.80	13.728		
13,400.00	10,600.00	12,612.76	9,730.00	57.35	55.50	-27.84	2,975.87	28.48	985.68	912.40	73.28	13.451		
13,500.00	10,600.00	12,712.76	9,730.00	58.45	56.66	-27.84	3,075.87	27.76	985.67	910.89	74.78	13.181		
13,600.00	10,600.00	12,812.76	9,730.00	59.57	57.83	-27.84	3,175.86	27.03	985.66	909.36	76.30	12.918		
13,700.00	10,600.00	12,912.76	9,730.00	60.71	59.02	-27.84	3,275.86	26.31	985.66	907.82	77.84	12.662		
13,800.00	10,600.00	13,012.76	9,730.00	61.85	60.21	-27.84	3,375.86	25.59	985.65	906.25	79.40	12.414		
13,900.00	10,600.00	13,112.76	9,730.00	63.01	61.42	-27.84	3,475.86	24.87	985.64	904.67	80.97	12.172		
14,000.00	10,600.00	13,212.76	9,730.00	64.18	62.64	-27.83	3,575.85	24.15	985.64	903.08	82.56	11.938		
14,100.00	10,600.00	13,312.76	9,730.00	65.37	63.87	-27.83	3,675.85	23.43	985.63	901.46	84.17	11.710		
14,200.00	10,600.00	13,412.76	9,730.00	66.56	65.11	-27.83	3,775.85	22.71	985.63	899.84	85.79	11.489		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,300.00	10,600.00	13,512.76	9,730.00	67.76	66.36	-27.83	3,875.85	21.99	985.62	898.20	87.42	11.275	
14,400.00	10,600.00	13,612.76	9,730.00	68.98	67.61	-27.83	3,975.84	21.27	985.61	896.55	89.06	11.067	
14,500.00	10,600.00	13,712.76	9,730.00	70.20	68.88	-27.83	4,075.84	20.55	985.61	894.89	90.72	10.865	
14,600.00	10,600.00	13,812.76	9,730.00	71.43	70.15	-27.83	4,175.84	19.83	985.60	893.22	92.38	10.669	
14,700.00	10,600.00	13,912.76	9,730.00	72.67	71.43	-27.83	4,275.83	19.11	985.59	891.53	94.06	10.478	
14,800.00	10,600.00	14,012.76	9,730.00	73.92	72.71	-27.83	4,375.83	18.39	985.59	889.84	95.75	10.294	
14,900.00	10,600.00	14,112.76	9,730.00	75.17	74.00	-27.83	4,475.83	17.67	985.58	888.14	97.44	10.114	
15,000.00	10,600.00	14,212.76	9,730.00	76.44	75.30	-27.83	4,575.83	16.94	985.57	886.42	99.15	9.940	
15,100.00	10,600.00	14,312.76	9,730.00	77.70	76.60	-27.83	4,675.82	16.22	985.57	884.70	100.86	9.771	
15,200.00	10,600.00	14,412.76	9,730.00	78.98	77.91	-27.83	4,775.82	15.50	985.56	882.98	102.59	9.607	
15,300.00	10,600.00	14,512.76	9,730.00	80.26	79.22	-27.83	4,875.82	14.78	985.56	881.24	104.32	9.448	
15,400.00	10,600.00	14,612.76	9,730.00	81.55	80.54	-27.82	4,975.82	14.06	985.55	879.50	106.05	9.293	
15,484.47	10,600.00	14,697.23	9,730.00	82.64	81.66	-27.82	5,060.29	13.45	985.54	878.02	107.52	9.166	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	-88.65	37.58	-1,596.33	1,596.78					
100.00	100.00	106.20	93.80	0.52	0.52	-88.65	37.58	-1,596.33	1,596.78	1,595.73	1.04	1,532.825		
200.00	200.00	206.20	193.80	0.70	0.72	-88.65	37.58	-1,596.33	1,596.78	1,595.36	1.42	1,124.503		
300.00	300.00	306.20	293.80	0.99	1.01	-88.65	37.58	-1,596.33	1,596.78	1,594.78	1.99	800.831		
400.00	400.00	406.20	393.80	1.31	1.33	-88.65	37.58	-1,596.33	1,596.78	1,594.14	2.64	605.126		
500.00	500.00	506.20	493.80	1.65	1.67	-88.65	37.58	-1,596.33	1,596.78	1,593.46	3.31	481.920		
600.00	600.00	606.20	593.80	1.99	2.01	-88.65	37.58	-1,596.33	1,596.78	1,592.77	4.00	398.922		
700.00	700.00	706.20	693.80	2.34	2.36	-88.65	37.58	-1,596.33	1,596.78	1,592.08	4.70	339.714		
800.00	800.00	806.20	793.80	2.69	2.71	-88.65	37.58	-1,596.33	1,596.78	1,591.37	5.40	295.533		
900.00	900.00	906.20	893.80	3.04	3.07	-88.65	37.58	-1,596.33	1,596.78	1,590.67	6.11	261.380		
1,000.00	1,000.00	1,006.20	993.80	3.40	3.42	-88.65	37.58	-1,596.33	1,596.78	1,589.96	6.82	234.224		
1,100.00	1,100.00	1,106.20	1,093.80	3.75	3.77	-88.65	37.58	-1,596.33	1,596.78	1,589.25	7.53	212.133		
1,200.00	1,200.00	1,206.20	1,193.80	4.11	4.13	-88.65	37.58	-1,596.33	1,596.78	1,588.54	8.24	193.822		
1,300.00	1,300.00	1,306.20	1,293.80	4.46	4.49	-88.65	37.58	-1,596.33	1,596.78	1,587.83	8.95	178.402		
1,400.00	1,400.00	1,406.20	1,393.80	4.82	4.84	-88.65	37.58	-1,596.33	1,596.78	1,587.11	9.66	165.243		
1,500.00	1,500.00	1,506.20	1,493.80	5.18	5.20	-88.65	37.58	-1,596.33	1,596.78	1,586.40	10.38	153.883		
1,600.00	1,600.00	1,606.20	1,593.80	5.53	5.56	-88.65	37.58	-1,596.33	1,596.78	1,585.69	11.09	143.978		
1,700.00	1,700.00	1,706.20	1,693.80	5.89	5.91	-88.65	37.58	-1,596.33	1,596.78	1,584.97	11.80	135.267		
1,800.00	1,800.00	1,806.20	1,793.80	6.25	6.27	-88.65	37.58	-1,596.33	1,596.78	1,584.26	12.52	127.547		
1,900.00	1,900.00	1,906.20	1,893.80	6.61	6.63	-88.65	37.58	-1,596.33	1,596.78	1,583.54	13.23	120.658		
2,000.00	2,000.00	2,006.20	1,993.80	6.96	6.99	-88.65	37.58	-1,596.33	1,596.78	1,582.83	13.95	114.473 CC, ES		
2,100.00	2,099.99	2,106.21	2,093.79	7.31	7.34	175.87	37.58	-1,596.33	1,597.65	1,582.99	14.65	109.023		
2,200.00	2,199.96	2,206.24	2,193.76	7.65	7.70	175.88	37.58	-1,596.33	1,600.26	1,584.91	15.35	104.242		
2,300.00	2,299.86	2,306.34	2,293.66	7.99	8.06	175.89	37.58	-1,596.33	1,604.61	1,588.56	16.05	99.973		
2,399.87	2,399.54	2,406.66	2,393.34	8.34	8.42	175.90	37.58	-1,596.33	1,610.69	1,593.94	16.75	96.154		
2,500.00	2,499.43	2,506.77	2,493.23	8.69	8.78	175.91	37.58	-1,596.33	1,617.65	1,600.20	17.45	92.686		
2,600.00	2,599.19	2,607.01	2,592.99	9.03	9.14	175.93	37.58	-1,596.33	1,624.61	1,606.45	18.16	89.480		
2,700.00	2,698.94	2,707.26	2,692.74	9.39	9.49	175.95	37.58	-1,596.33	1,631.56	1,612.70	18.86	86.507		
2,800.00	2,798.70	2,807.50	2,792.50	9.74	9.85	175.97	37.58	-1,596.33	1,638.52	1,618.95	19.57	83.743		
2,900.00	2,898.46	2,907.74	2,892.26	10.09	10.21	175.98	37.58	-1,596.33	1,645.48	1,625.20	20.27	81.167		
3,000.00	2,998.21	3,007.99	2,992.01	10.45	10.57	176.00	37.58	-1,596.33	1,652.43	1,631.45	20.98	78.761		
3,100.00	3,097.97	3,108.23	3,091.77	10.80	10.93	176.02	37.58	-1,596.33	1,659.39	1,637.70	21.69	76.509		
3,200.00	3,197.73	3,208.47	3,191.53	11.16	11.29	176.03	37.58	-1,596.33	1,666.35	1,643.95	22.40	74.397		
3,300.00	3,297.48	3,308.72	3,291.28	11.52	11.65	176.05	37.58	-1,596.33	1,673.30	1,650.19	23.11	72.412		
3,400.00	3,397.24	3,408.96	3,391.04	11.88	12.01	176.07	37.58	-1,596.33	1,680.26	1,656.44	23.82	70.544		
3,500.00	3,497.00	3,490.80	3,490.80	12.24	12.30	176.08	37.58	-1,596.33	1,687.22	1,662.75	24.46	68.968		
3,600.00	3,596.75	3,577.17	3,577.17	12.60	12.60	176.08	37.17	-1,596.65	1,694.53	1,669.42	25.11	67.483		
3,700.00	3,696.51	3,662.07	3,662.05	12.96	12.88	176.05	35.76	-1,597.73	1,702.71	1,676.97	25.74	66.153		
3,800.00	3,796.27	3,748.39	3,748.31	13.32	13.16	175.98	33.32	-1,599.60	1,711.75	1,685.38	26.37	64.917		
3,900.00	3,896.02	3,847.91	3,847.74	13.68	13.49	175.88	30.04	-1,602.11	1,721.14	1,694.09	27.05	63.631		
4,000.00	3,995.78	3,947.42	3,947.18	14.04	13.82	175.79	26.76	-1,604.62	1,730.53	1,702.80	27.73	62.404		
4,100.00	4,095.54	4,046.94	4,046.61	14.40	14.15	175.70	23.49	-1,607.14	1,739.93	1,711.52	28.42	61.232		
4,200.00	4,195.29	4,146.46	4,146.04	14.77	14.48	175.60	20.21	-1,609.65	1,749.34	1,720.24	29.10	60.112		
4,300.00	4,295.05	4,245.98	4,245.47	15.13	14.81	175.51	16.93	-1,612.16	1,758.75	1,728.96	29.79	59.040		
4,400.00	4,394.81	4,345.49	4,344.90	15.49	15.15	175.42	13.66	-1,614.67	1,768.16	1,737.68	30.48	58.013		
4,500.00	4,494.56	4,445.01	4,444.33	15.86	15.48	175.33	10.38	-1,617.18	1,777.58	1,746.41	31.17	57.030		
4,600.00	4,594.32	4,544.53	4,543.77	16.22	15.82	175.24	7.11	-1,619.69	1,787.00	1,755.14	31.86	56.086		
4,700.00	4,694.08	4,644.05	4,643.20	16.59	16.16	175.16	3.83	-1,622.20	1,796.42	1,763.87	32.56	55.181		
4,800.00	4,793.83	4,743.56	4,742.63	16.95	16.50	175.07	0.55	-1,624.71	1,805.85	1,772.60	33.25	54.312		
4,900.00	4,893.59	4,843.08	4,842.06	17.32	16.84	174.98	-2.72	-1,627.23	1,815.29	1,781.34	33.95	53.476		
5,000.00	4,993.35	4,942.60	4,941.49	17.68	17.18	174.90	-6.00	-1,629.74	1,824.72	1,790.08	34.64	52.673		
5,100.00	5,093.10	5,042.12	5,040.93	18.05	17.52	174.81	-9.28	-1,632.25	1,834.16	1,798.82	35.34	51.900		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,141.63	5,140.36	18.42	17.87	174.73	-12.55	-1,634.76	1,843.61	1,807.57	36.04	51.155		
5,300.00	5,292.62	5,241.15	5,239.79	18.78	18.21	174.65	-15.83	-1,637.27	1,853.06	1,816.32	36.74	50.438		
5,400.00	5,392.37	5,340.67	5,339.22	19.15	18.55	174.57	-19.10	-1,639.78	1,862.51	1,825.07	37.44	49.747		
5,500.00	5,492.13	5,440.19	5,438.65	19.52	18.90	174.49	-22.38	-1,642.29	1,871.97	1,833.83	38.14	49.080		
5,600.00	5,591.89	5,539.70	5,538.08	19.88	19.24	174.41	-25.66	-1,644.80	1,881.43	1,842.58	38.84	48.436		
5,700.00	5,691.64	5,639.22	5,637.52	20.25	19.59	174.33	-28.93	-1,647.32	1,890.89	1,851.35	39.55	47.814		
5,800.00	5,791.40	5,738.74	5,736.95	20.62	19.94	174.25	-32.21	-1,649.83	1,900.36	1,860.11	40.25	47.214		
5,900.00	5,891.16	5,838.26	5,836.38	20.98	20.28	174.17	-35.49	-1,652.34	1,909.83	1,868.88	40.95	46.633		
6,000.00	5,990.91	5,937.77	5,935.81	21.35	20.63	174.10	-38.76	-1,654.85	1,919.30	1,877.65	41.66	46.071		
6,100.00	6,090.67	6,037.29	6,035.24	21.72	20.98	174.02	-42.04	-1,657.36	1,928.78	1,886.42	42.36	45.528		
6,200.00	6,190.42	6,136.81	6,134.68	22.09	21.33	173.94	-45.31	-1,659.87	1,938.26	1,895.19	43.07	45.002		
6,300.00	6,290.18	6,236.33	6,234.11	22.45	21.68	173.87	-48.59	-1,662.38	1,947.75	1,903.97	43.78	44.492		
6,400.00	6,389.94	6,335.84	6,333.54	22.82	22.03	173.80	-51.87	-1,664.89	1,957.24	1,912.75	44.48	43.998		
6,500.00	6,489.69	6,435.36	6,432.97	23.19	22.38	173.72	-55.14	-1,667.40	1,966.73	1,921.53	45.19	43.519		
6,600.00	6,589.45	6,534.88	6,532.40	23.56	22.73	173.65	-58.42	-1,669.92	1,976.22	1,930.32	45.90	43.054		
6,700.00	6,689.21	6,634.40	6,631.83	23.93	23.08	173.58	-61.69	-1,672.43	1,985.72	1,939.11	46.61	42.604		
6,800.00	6,788.96	6,733.91	6,731.27	24.29	23.43	173.51	-64.97	-1,674.94	1,995.22	1,947.90	47.32	42.166		
6,900.00	6,888.72	6,833.43	6,830.70	24.66	23.78	173.44	-68.25	-1,677.45	2,004.72	1,956.69	48.03	41.741		
7,000.00	6,988.48	6,932.95	6,930.13	25.03	24.13	173.37	-71.52	-1,679.96	2,014.23	1,965.49	48.74	41.328		
7,100.00	7,088.23	7,032.47	7,029.56	25.40	24.49	173.30	-74.80	-1,682.47	2,023.73	1,974.29	49.45	40.927		
7,200.00	7,187.99	7,131.98	7,128.99	25.77	24.84	173.23	-78.08	-1,684.98	2,033.25	1,983.09	50.16	40.537		
7,300.00	7,287.75	7,231.50	7,228.43	26.14	25.19	173.16	-81.35	-1,687.49	2,042.76	1,991.89	50.87	40.158		
7,400.00	7,387.50	7,331.02	7,327.86	26.50	25.54	173.10	-84.63	-1,690.01	2,052.28	2,000.70	51.58	39.789		
7,500.00	7,487.26	7,430.54	7,427.29	26.87	25.90	173.03	-87.90	-1,692.52	2,061.80	2,009.51	52.29	39.429		
7,600.00	7,587.02	7,530.05	7,526.72	27.24	26.25	172.96	-91.18	-1,695.03	2,071.32	2,018.32	53.00	39.079		
7,700.00	7,686.77	7,629.57	7,626.15	27.61	26.60	172.90	-94.46	-1,697.54	2,080.85	2,027.13	53.71	38.739		
7,800.00	7,786.53	7,729.09	7,725.58	27.98	26.96	172.83	-97.73	-1,700.05	2,090.37	2,035.95	54.43	38.407		
7,900.00	7,886.29	7,828.61	7,825.02	28.35	27.31	172.77	-101.01	-1,702.56	2,099.91	2,044.77	55.14	38.083		
8,000.00	7,986.04	7,928.12	7,924.45	28.72	27.67	172.71	-104.29	-1,705.07	2,109.44	2,053.59	55.85	37.768		
8,100.00	8,085.80	8,027.64	8,023.88	29.09	28.02	172.64	-107.56	-1,707.58	2,118.97	2,062.41	56.57	37.460		
8,200.00	8,185.56	8,127.16	8,123.31	29.46	28.38	172.58	-110.84	-1,710.10	2,128.51	2,071.23	57.28	37.160		
8,300.00	8,285.31	8,226.68	8,222.74	29.83	28.73	172.52	-114.11	-1,712.61	2,138.05	2,080.06	57.99	36.867		
8,400.00	8,385.07	8,326.19	8,322.18	30.20	29.09	172.46	-117.39	-1,715.12	2,147.60	2,088.89	58.71	36.582		
8,500.00	8,484.83	8,425.71	8,421.61	30.56	29.44	172.40	-120.67	-1,717.63	2,157.14	2,097.72	59.42	36.303		
8,600.00	8,584.58	8,525.23	8,521.04	30.93	29.80	172.34	-123.94	-1,720.14	2,166.69	2,106.56	60.14	36.030		
8,700.00	8,684.34	8,624.75	8,620.47	31.30	30.15	172.28	-127.22	-1,722.65	2,176.24	2,115.39	60.85	35.764		
8,800.00	8,784.10	8,724.26	8,719.90	31.67	30.51	172.22	-130.50	-1,725.16	2,185.79	2,124.23	61.56	35.504		
8,900.00	8,883.85	8,823.78	8,819.33	32.04	30.86	172.16	-133.77	-1,727.67	2,195.35	2,133.07	62.28	35.250		
9,000.00	8,983.61	8,923.30	8,918.77	32.41	31.22	172.10	-137.05	-1,730.19	2,204.91	2,141.91	62.99	35.002		
9,100.00	9,083.37	9,022.81	9,018.20	32.78	31.58	172.04	-140.32	-1,732.70	2,214.47	2,150.76	63.71	34.759		
9,200.00	9,183.12	9,122.33	9,117.63	33.15	31.93	171.99	-143.60	-1,735.21	2,224.03	2,159.60	64.43	34.521		
9,300.00	9,282.88	9,221.85	9,217.06	33.52	32.29	171.93	-146.88	-1,737.72	2,233.59	2,168.45	65.14	34.289		
9,400.00	9,382.64	9,321.37	9,316.49	33.89	32.65	171.88	-150.15	-1,740.23	2,243.16	2,177.30	65.86	34.061		
9,428.07	9,410.64	9,349.30	9,344.41	33.99	32.75	171.86	-151.07	-1,740.93	2,245.84	2,179.79	66.06	33.998		
9,500.00	9,482.43	9,420.94	9,415.98	34.26	33.00	171.83	-153.43	-1,742.74	2,252.06	2,185.49	66.57	33.829		
9,600.00	9,582.36	9,520.70	9,515.65	34.62	33.36	171.78	-156.72	-1,745.26	2,258.48	2,191.19	67.29	33.565		
9,694.65	9,677.00	9,672.05	9,666.96	34.95	33.90	-92.80	-159.41	-1,747.33	2,261.03	2,192.83	68.19	33.157		
9,700.00	9,682.35	9,680.72	9,675.62	34.97	33.93	-92.80	-159.42	-1,747.33	2,261.03	2,192.79	68.24	33.133		
9,800.00	9,782.35	9,781.24	9,776.15	35.31	34.27	-92.80	-159.42	-1,747.33	2,261.03	2,192.10	68.93	32.802		
9,900.00	9,882.35	9,881.24	9,876.15	35.65	34.61	-92.80	-159.42	-1,747.33	2,261.03	2,191.41	69.62	32.478		
10,000.00	9,982.35	9,981.24	9,976.15	35.99	34.96	-92.80	-159.42	-1,747.33	2,261.03	2,190.73	70.30	32.161		
10,044.69	10,027.04	10,025.93	10,020.84	36.14	35.11	-92.80	-159.42	-1,747.33	2,261.03	2,190.42	70.61	32.021		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	10,031.24	10,026.15	36.16	35.13	-92.38	-159.42	-1,747.33	2,261.03	2,190.38	70.65	32.004		
10,100.00	10,082.26	10,090.94	10,085.74	36.32	35.33	-92.38	-156.41	-1,747.35	2,261.04	2,190.01	71.02	31.835		
10,150.00	10,131.76	10,150.76	10,144.82	36.49	35.53	-92.36	-147.18	-1,747.42	2,261.00	2,189.61	71.39	31.670		
10,200.00	10,180.46	10,210.42	10,202.46	36.65	35.72	-92.32	-131.91	-1,747.53	2,260.94	2,189.19	71.75	31.512		
10,250.00	10,227.98	10,269.79	10,257.94	36.81	35.89	-92.26	-110.84	-1,747.68	2,260.84	2,188.75	72.09	31.361		
10,300.00	10,273.98	10,328.76	10,310.59	36.95	36.06	-92.18	-84.34	-1,747.87	2,260.71	2,188.29	72.42	31.217		
10,350.00	10,318.11	10,387.23	10,359.84	37.09	36.21	-92.07	-52.86	-1,748.09	2,260.55	2,187.82	72.74	31.079		
10,400.00	10,360.01	10,445.12	10,405.18	37.21	36.36	-91.95	-16.92	-1,748.35	2,260.38	2,187.34	73.04	30.946		
10,450.00	10,399.38	10,502.34	10,446.22	37.32	36.50	-91.82	22.93	-1,748.63	2,260.20	2,186.86	73.34	30.819		
10,500.00	10,435.92	10,558.85	10,482.64	37.42	36.63	-91.67	66.10	-1,748.94	2,260.01	2,186.38	73.63	30.695		
10,550.00	10,469.35	10,614.60	10,514.24	37.51	36.77	-91.50	112.00	-1,749.27	2,259.82	2,185.91	73.91	30.575		
10,600.00	10,499.41	10,669.55	10,540.87	37.59	36.90	-91.33	160.04	-1,749.61	2,259.64	2,185.45	74.19	30.458		
10,650.00	10,525.87	10,723.69	10,562.50	37.66	37.03	-91.14	209.65	-1,749.97	2,259.47	2,185.00	74.47	30.343		
10,700.00	10,548.54	10,777.01	10,579.13	37.74	37.16	-90.95	260.29	-1,750.33	2,259.32	2,184.58	74.74	30.230		
10,750.00	10,567.24	10,829.52	10,590.84	37.84	37.29	-90.75	311.46	-1,750.69	2,259.19	2,184.18	75.01	30.119		
10,800.00	10,581.83	10,881.24	10,597.74	37.97	37.42	-90.55	362.70	-1,751.06	2,259.08	2,183.80	75.28	30.009		
10,850.00	10,592.19	10,932.17	10,600.00	38.11	37.55	-90.35	413.56	-1,751.42	2,259.01	2,183.46	75.55	29.902		
10,900.00	10,598.26	10,981.79	10,600.00	38.25	37.68	-90.20	463.17	-1,751.78	2,258.97	2,183.15	75.82	29.795		
10,944.69	10,600.00	11,026.43	10,600.00	38.39	37.81	-90.16	507.82	-1,752.10	2,258.95	2,182.88	76.07	29.694		
11,000.00	10,600.00	11,081.74	10,600.00	38.56	37.99	-90.16	563.13	-1,752.49	2,258.94	2,182.53	76.41	29.563		
11,100.00	10,600.00	11,181.74	10,600.00	38.91	38.34	-90.16	663.12	-1,753.20	2,258.92	2,181.82	77.10	29.297		
11,200.00	10,600.00	11,281.74	10,600.00	39.31	38.75	-90.16	763.12	-1,753.92	2,258.90	2,181.00	77.90	28.998		
11,300.00	10,600.00	11,381.74	10,600.00	39.76	39.21	-90.16	863.12	-1,754.63	2,258.88	2,180.09	78.79	28.669		
11,400.00	10,600.00	11,481.74	10,600.00	40.25	39.72	-90.16	963.12	-1,755.35	2,258.86	2,179.08	79.78	28.312		
11,500.00	10,600.00	11,581.74	10,600.00	40.79	40.27	-90.16	1,063.11	-1,756.06	2,258.84	2,177.97	80.87	27.932		
11,600.00	10,600.00	11,681.74	10,600.00	41.37	40.87	-90.16	1,163.11	-1,756.77	2,258.82	2,176.78	82.04	27.533		
11,700.00	10,600.00	11,781.74	10,600.00	41.99	41.51	-90.16	1,263.11	-1,757.49	2,258.80	2,175.50	83.30	27.117		
11,800.00	10,600.00	11,881.74	10,600.00	42.65	42.19	-90.16	1,363.11	-1,758.20	2,258.78	2,174.14	84.64	26.687		
11,900.00	10,600.00	11,981.74	10,600.00	43.35	42.91	-90.16	1,463.10	-1,758.91	2,258.76	2,172.70	86.06	26.247		
12,000.00	10,600.00	12,081.74	10,600.00	44.09	43.66	-90.16	1,563.10	-1,759.63	2,258.74	2,171.19	87.55	25.800		
12,100.00	10,600.00	12,181.74	10,600.00	44.86	44.45	-90.16	1,663.10	-1,760.34	2,258.72	2,169.61	89.11	25.348		
12,200.00	10,600.00	12,281.74	10,600.00	45.67	45.27	-90.16	1,763.10	-1,761.06	2,258.70	2,167.96	90.74	24.892		
12,300.00	10,600.00	12,381.74	10,600.00	46.50	46.13	-90.16	1,863.09	-1,761.77	2,258.67	2,166.24	92.43	24.437		
12,400.00	10,600.00	12,481.74	10,600.00	47.37	47.01	-90.16	1,963.09	-1,762.48	2,258.65	2,164.47	94.18	23.982		
12,500.00	10,600.00	12,581.74	10,600.00	48.26	47.92	-90.16	2,063.09	-1,763.20	2,258.63	2,162.64	95.99	23.530		
12,600.00	10,600.00	12,681.74	10,600.00	49.18	48.86	-90.16	2,163.09	-1,763.91	2,258.61	2,160.76	97.85	23.082		
12,700.00	10,600.00	12,781.74	10,600.00	50.13	49.83	-90.16	2,263.08	-1,764.63	2,258.59	2,158.83	99.76	22.640		
12,800.00	10,600.00	12,881.74	10,600.00	51.10	50.81	-90.16	2,363.08	-1,765.34	2,258.57	2,156.85	101.72	22.204		
12,900.00	10,600.00	12,981.74	10,600.00	52.09	51.82	-90.16	2,463.08	-1,766.05	2,258.55	2,154.83	103.72	21.775		
13,000.00	10,600.00	13,081.74	10,600.00	53.10	52.85	-90.16	2,563.08	-1,766.77	2,258.53	2,152.76	105.77	21.353		
13,100.00	10,600.00	13,181.74	10,600.00	54.14	53.90	-90.16	2,663.07	-1,767.48	2,258.51	2,150.65	107.85	20.940		
13,200.00	10,600.00	13,281.74	10,600.00	55.19	54.97	-90.16	2,763.07	-1,768.19	2,258.49	2,148.51	109.98	20.536		
13,300.00	10,600.00	13,381.74	10,600.00	56.26	56.05	-90.16	2,863.07	-1,768.91	2,258.47	2,146.33	112.14	20.140		
13,400.00	10,600.00	13,481.74	10,600.00	57.35	57.16	-90.16	2,963.07	-1,769.62	2,258.45	2,144.12	114.33	19.754		
13,500.00	10,600.00	13,581.74	10,600.00	58.45	58.27	-90.16	3,063.06	-1,770.34	2,258.43	2,141.87	116.55	19.377		
13,600.00	10,600.00	13,681.74	10,600.00	59.57	59.41	-90.16	3,163.06	-1,771.05	2,258.41	2,139.60	118.81	19.009		
13,700.00	10,600.00	13,781.74	10,600.00	60.71	60.55	-90.16	3,263.06	-1,771.76	2,258.39	2,137.30	121.09	18.651		
13,800.00	10,600.00	13,881.74	10,600.00	61.85	61.71	-90.16	3,363.06	-1,772.48	2,258.36	2,134.97	123.40	18.302		
13,900.00	10,600.00	13,981.74	10,600.00	63.01	62.88	-90.16	3,463.05	-1,773.19	2,258.34	2,132.62	125.73	17.962		
14,000.00	10,600.00	14,081.74	10,600.00	64.18	64.07	-90.16	3,563.05	-1,773.90	2,258.32	2,130.24	128.09	17.631		
14,100.00	10,600.00	14,181.74	10,600.00	65.37	65.26	-90.16	3,663.05	-1,774.62	2,258.30	2,127.84	130.47	17.310		
14,200.00	10,600.00	14,281.74	10,600.00	66.56	66.46	-90.16	3,763.05	-1,775.33	2,258.28	2,125.42	132.87	16.997		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 16H - 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	
14,300.00	10,600.00	14,381.74	10,600.00	67.76	67.68	-90.16	3,863.04	-1,776.05	2,258.26	2,122.98	135.29	16.692	
14,400.00	10,600.00	14,481.74	10,600.00	68.98	68.90	-90.16	3,963.04	-1,776.76	2,258.24	2,120.51	137.73	16.397	
14,500.00	10,600.00	14,581.74	10,600.00	70.20	70.13	-90.16	4,063.04	-1,777.47	2,258.22	2,118.04	140.18	16.109	
14,600.00	10,600.00	14,681.74	10,600.00	71.43	71.38	-90.16	4,163.03	-1,778.19	2,258.20	2,115.54	142.66	15.829	
14,700.00	10,600.00	14,781.74	10,600.00	72.67	72.63	-90.16	4,263.03	-1,778.90	2,258.18	2,113.03	145.15	15.558	
14,800.00	10,600.00	14,881.74	10,600.00	73.92	73.88	-90.16	4,363.03	-1,779.61	2,258.16	2,110.50	147.66	15.293	
14,900.00	10,600.00	14,981.74	10,600.00	75.17	75.15	-90.16	4,463.03	-1,780.33	2,258.14	2,107.96	150.18	15.036	
15,000.00	10,600.00	15,081.74	10,600.00	76.44	76.42	-90.16	4,563.02	-1,781.04	2,258.12	2,105.40	152.71	14.787	
15,100.00	10,600.00	15,181.74	10,600.00	77.70	77.69	-90.16	4,663.02	-1,781.76	2,258.10	2,102.83	155.26	14.544	
15,200.00	10,600.00	15,281.74	10,600.00	78.98	78.98	-90.16	4,763.02	-1,782.47	2,258.08	2,100.25	157.82	14.308	
15,300.00	10,600.00	15,381.74	10,600.00	80.26	80.27	-90.16	4,863.02	-1,783.18	2,258.06	2,097.66	160.40	14.078	
15,400.00	10,600.00	15,481.74	10,600.00	81.55	81.56	-90.16	4,963.01	-1,783.90	2,258.03	2,095.05	162.98	13.855	
15,484.47	10,600.00	15,566.21	10,600.00	82.64	82.66	-90.16	5,047.48	-1,784.50	2,258.02	2,092.85	165.17	13.671 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	6.10	-6.10	0.50	0.50	-88.62	37.77	-1,566.33	1,566.79					
100.00	100.00	106.10	93.90	0.52	0.52	-88.62	37.77	-1,566.33	1,566.79	1,565.75	1.04	1,504.193		
200.00	200.00	206.10	193.90	0.70	0.72	-88.62	37.77	-1,566.33	1,566.79	1,565.37	1.42	1,103.585		
300.00	300.00	306.10	293.90	0.99	1.01	-88.62	37.77	-1,566.33	1,566.79	1,564.79	1.99	785.914		
400.00	400.00	406.10	393.90	1.31	1.33	-88.62	37.77	-1,566.33	1,566.79	1,564.15	2.64	593.837		
500.00	500.00	506.10	493.90	1.65	1.67	-88.62	37.77	-1,566.33	1,566.79	1,563.48	3.31	472.918		
600.00	600.00	606.10	593.90	1.99	2.01	-88.62	37.77	-1,566.33	1,566.79	1,562.79	4.00	391.464		
700.00	700.00	706.10	693.90	2.34	2.36	-88.62	37.77	-1,566.33	1,566.79	1,562.09	4.70	333.359		
800.00	800.00	806.10	793.90	2.69	2.71	-88.62	37.77	-1,566.33	1,566.79	1,561.39	5.40	290.002		
900.00	900.00	906.10	893.90	3.04	3.07	-88.62	37.77	-1,566.33	1,566.79	1,560.68	6.11	256.486		
1,000.00	1,000.00	1,006.10	993.90	3.40	3.42	-88.62	37.77	-1,566.33	1,566.79	1,559.97	6.82	229.837		
1,100.00	1,100.00	1,093.90	1,093.90	3.75	3.73	-88.62	37.77	-1,566.33	1,566.79	1,559.30	7.48	209.365		
1,200.00	1,200.00	1,228.43	1,228.42	4.11	4.19	-88.63	37.48	-1,564.92	1,565.75	1,557.45	8.30	188.639		
1,300.00	1,300.00	1,365.07	1,364.97	4.46	4.66	-88.66	36.52	-1,560.33	1,562.38	1,553.26	9.11	171.424		
1,400.00	1,400.00	1,501.40	1,501.07	4.82	5.13	-88.71	34.91	-1,552.57	1,556.66	1,546.73	9.93	156.801		
1,500.00	1,500.00	1,637.28	1,636.49	5.18	5.61	-88.79	32.65	-1,541.69	1,548.61	1,537.87	10.74	144.196		
1,600.00	1,600.00	1,772.55	1,771.01	5.53	6.09	-88.88	29.76	-1,527.73	1,538.25	1,526.70	11.55	133.213		
1,700.00	1,700.00	1,876.63	1,874.33	5.89	6.47	-88.97	27.22	-1,515.50	1,526.45	1,514.18	12.26	124.458		
1,800.00	1,800.00	1,975.90	1,972.88	6.25	6.83	-89.06	24.79	-1,503.81	1,514.63	1,501.66	12.97	116.773		
1,900.00	1,900.00	2,075.17	2,071.44	6.61	7.20	-89.14	22.36	-1,492.12	1,502.81	1,489.13	13.68	109.867		
2,000.00	2,000.00	2,174.45	2,169.99	6.96	7.57	-89.23	19.94	-1,480.43	1,491.00	1,476.61	14.39	103.629		
2,100.00	2,099.99	2,273.82	2,268.64	7.31	7.95	175.22	17.51	-1,468.73	1,480.06	1,464.97	15.09	98.090		
2,200.00	2,199.96	2,373.37	2,367.47	7.65	8.32	175.14	15.08	-1,457.01	1,470.85	1,455.06	15.78	93.191		
2,300.00	2,299.86	2,473.07	2,466.45	7.99	8.70	175.07	12.64	-1,445.27	1,463.37	1,446.89	16.48	88.790		
2,399.87	2,399.54	2,572.76	2,565.41	8.34	9.08	175.01	10.20	-1,433.53	1,457.64	1,440.46	17.18	84.836		
2,500.00	2,499.43	2,672.76	2,664.68	8.69	9.46	174.94	7.76	-1,421.75	1,452.76	1,434.88	17.89	81.218		
2,600.00	2,599.19	2,772.62	2,763.83	9.03	9.84	174.87	5.32	-1,409.99	1,447.89	1,429.30	18.59	77.869		
2,700.00	2,698.94	2,872.49	2,862.97	9.39	10.23	174.80	2.88	-1,398.23	1,443.03	1,423.73	19.30	74.757		
2,800.00	2,798.70	2,972.36	2,962.11	9.74	10.61	174.73	0.43	-1,386.48	1,438.17	1,418.15	20.01	71.861		
2,900.00	2,898.46	3,072.22	3,061.25	10.09	11.00	174.66	-2.01	-1,374.72	1,433.30	1,412.58	20.73	69.157		
3,000.00	2,998.21	3,172.09	3,160.39	10.45	11.38	174.59	-4.45	-1,362.96	1,428.44	1,407.01	21.44	66.629		
3,100.00	3,097.97	3,271.96	3,259.53	10.80	11.77	174.52	-6.89	-1,351.20	1,423.59	1,401.43	22.15	64.260		
3,200.00	3,197.73	3,371.82	3,358.67	11.16	12.16	174.45	-9.33	-1,339.44	1,418.73	1,395.86	22.87	62.037		
3,300.00	3,297.48	3,471.69	3,457.82	11.52	12.55	174.37	-11.77	-1,327.68	1,413.88	1,390.29	23.59	59.945		
3,400.00	3,397.24	3,571.55	3,556.96	11.88	12.93	174.30	-14.21	-1,315.92	1,409.03	1,384.73	24.30	57.975		
3,500.00	3,497.00	3,671.42	3,656.10	12.24	13.32	174.23	-16.65	-1,304.16	1,404.18	1,379.16	25.02	56.116		
3,600.00	3,596.75	3,771.29	3,755.24	12.60	13.71	174.15	-19.10	-1,292.40	1,399.34	1,373.59	25.74	54.360		
3,700.00	3,696.51	3,871.15	3,854.38	12.96	14.10	174.08	-21.54	-1,280.64	1,394.49	1,368.03	26.46	52.697		
3,800.00	3,796.27	3,971.02	3,953.52	13.32	14.49	174.00	-23.98	-1,268.88	1,389.65	1,362.47	27.18	51.121		
3,900.00	3,896.02	4,070.88	4,052.66	13.68	14.88	173.93	-26.42	-1,257.12	1,384.81	1,356.91	27.91	49.626		
4,000.00	3,995.78	4,170.75	4,151.80	14.04	15.27	173.85	-28.86	-1,245.36	1,379.98	1,351.35	28.63	48.205		
4,100.00	4,095.54	4,270.62	4,250.95	14.40	15.66	173.78	-31.30	-1,233.60	1,375.14	1,345.79	29.35	46.853		
4,200.00	4,195.29	4,370.48	4,350.09	14.77	16.05	173.70	-33.74	-1,221.84	1,370.31	1,340.24	30.07	45.566		
4,300.00	4,295.05	4,470.35	4,449.23	15.13	16.44	173.62	-36.18	-1,210.08	1,365.48	1,334.69	30.80	44.338		
4,400.00	4,394.81	4,570.22	4,548.37	15.49	16.83	173.54	-38.62	-1,198.32	1,360.66	1,329.13	31.52	43.166		
4,500.00	4,494.56	4,670.08	4,647.51	15.86	17.23	173.46	-41.07	-1,186.56	1,355.83	1,323.59	32.25	42.046		
4,600.00	4,594.32	4,769.95	4,746.65	16.22	17.62	173.39	-43.51	-1,174.80	1,351.01	1,318.04	32.97	40.975		
4,700.00	4,694.08	4,869.81	4,845.79	16.59	18.01	173.31	-45.95	-1,163.04	1,346.19	1,312.50	33.70	39.950		
4,800.00	4,793.83	4,969.68	4,944.94	16.95	18.40	173.22	-48.39	-1,151.28	1,341.38	1,306.95	34.42	38.968		
4,900.00	4,893.59	5,069.55	5,044.08	17.32	18.79	173.14	-50.83	-1,139.52	1,336.56	1,301.41	35.15	38.025		
5,000.00	4,893.35	5,169.41	5,143.22	17.68	19.19	173.06	-53.27	-1,127.76	1,331.75	1,295.88	35.88	37.121		
5,100.00	5,093.10	5,269.28	5,242.36	18.05	19.58	172.98	-55.71	-1,116.00	1,326.95	1,290.34	36.60	36.253		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,369.15	5,341.50	18.42	19.97	172.90	-58.15	-1,104.24	1,322.14	1,284.81	37.33	35.418		
5,300.00	5,292.62	5,469.01	5,440.64	18.78	20.36	172.81	-60.59	-1,092.48	1,317.34	1,279.28	38.06	34.614		
5,400.00	5,392.37	5,568.88	5,539.78	19.15	20.76	172.73	-63.04	-1,080.72	1,312.54	1,273.75	38.79	33.841		
5,500.00	5,492.13	5,668.74	5,638.92	19.52	21.15	172.65	-65.48	-1,068.97	1,307.74	1,268.23	39.51	33.096		
5,600.00	5,591.89	5,768.61	5,738.07	19.88	21.54	172.56	-67.92	-1,057.21	1,302.95	1,262.71	40.24	32.378		
5,700.00	5,691.64	5,868.48	5,837.21	20.25	21.94	172.47	-70.36	-1,045.45	1,298.16	1,257.19	40.97	31.685		
5,800.00	5,791.40	5,968.34	5,936.35	20.62	22.33	172.39	-72.80	-1,033.69	1,293.37	1,251.67	41.70	31.016		
5,900.00	5,891.16	6,068.21	6,035.49	20.98	22.72	172.30	-75.24	-1,021.93	1,288.58	1,246.15	42.43	30.371		
6,000.00	5,990.91	6,168.07	6,134.63	21.35	23.12	172.21	-77.68	-1,010.17	1,283.80	1,240.64	43.16	29.746		
6,100.00	6,090.67	6,267.94	6,233.77	21.72	23.51	172.12	-80.12	-998.41	1,279.02	1,235.13	43.89	29.143		
6,200.00	6,190.42	6,367.81	6,332.91	22.09	23.90	172.04	-82.57	-986.65	1,274.25	1,229.63	44.62	28.559		
6,300.00	6,290.18	6,467.67	6,432.06	22.45	24.30	171.95	-85.01	-974.89	1,269.47	1,224.13	45.35	27.994		
6,400.00	6,389.94	6,567.54	6,531.20	22.82	24.69	171.85	-87.45	-963.13	1,264.70	1,218.63	46.08	27.447		
6,500.00	6,489.69	6,667.41	6,630.34	23.19	25.09	171.76	-89.89	-951.37	1,259.94	1,213.13	46.81	26.917		
6,600.00	6,589.45	6,767.27	6,729.48	23.56	25.48	171.67	-92.33	-939.61	1,255.17	1,207.63	47.54	26.403		
6,700.00	6,689.21	6,867.14	6,828.62	23.93	25.87	171.58	-94.77	-927.85	1,250.41	1,202.14	48.27	25.905		
6,800.00	6,788.96	6,967.00	6,927.76	24.29	26.27	171.49	-97.21	-916.09	1,245.66	1,196.66	49.00	25.421		
6,900.00	6,888.72	7,066.87	7,026.90	24.66	26.66	171.39	-99.65	-904.33	1,240.90	1,191.17	49.73	24.952		
7,000.00	6,988.48	7,166.74	7,126.04	25.03	27.06	171.30	-102.09	-892.57	1,236.15	1,185.69	50.46	24.496		
7,100.00	7,088.23	7,266.60	7,225.19	25.40	27.45	171.20	-104.54	-880.81	1,231.41	1,180.21	51.20	24.053		
7,200.00	7,187.99	7,366.47	7,324.33	25.77	27.84	171.11	-106.98	-869.05	1,226.66	1,174.74	51.93	23.623		
7,300.00	7,287.75	7,466.33	7,423.47	26.14	28.24	171.01	-109.42	-857.29	1,221.92	1,169.26	52.66	23.204		
7,400.00	7,387.50	7,566.20	7,522.61	26.50	28.63	170.91	-111.86	-845.53	1,217.19	1,163.80	53.39	22.797		
7,500.00	7,487.26	7,666.07	7,621.75	26.87	29.03	170.81	-114.30	-833.77	1,212.45	1,158.33	54.12	22.401		
7,600.00	7,587.02	7,765.93	7,720.89	27.24	29.42	170.71	-116.74	-822.01	1,207.73	1,152.87	54.86	22.016		
7,700.00	7,686.77	7,865.80	7,820.03	27.61	29.81	170.61	-119.18	-810.25	1,203.00	1,147.41	55.59	21.641		
7,800.00	7,786.53	7,965.67	7,919.18	27.98	30.21	170.51	-121.62	-798.49	1,198.28	1,141.96	56.32	21.275		
7,900.00	7,886.29	8,065.53	8,018.32	28.35	30.60	170.41	-124.06	-786.73	1,193.56	1,136.50	57.06	20.919		
8,000.00	7,986.04	8,165.40	8,117.46	28.72	31.00	170.31	-126.51	-774.97	1,188.85	1,131.06	57.79	20.572		
8,100.00	8,085.80	8,265.26	8,216.60	29.09	31.39	170.21	-128.95	-763.21	1,184.13	1,125.61	58.52	20.234		
8,200.00	8,185.56	8,365.13	8,315.74	29.46	31.79	170.10	-131.39	-751.45	1,179.43	1,120.17	59.26	19.904		
8,300.00	8,285.31	8,465.00	8,414.88	29.83	32.18	170.00	-133.83	-739.70	1,174.73	1,114.74	59.99	19.582		
8,400.00	8,385.07	8,564.86	8,514.02	30.20	32.58	169.89	-136.27	-727.94	1,170.03	1,109.30	60.72	19.268		
8,500.00	8,484.83	8,664.73	8,613.17	30.56	32.97	169.78	-138.71	-716.18	1,165.33	1,103.87	61.46	18.961		
8,600.00	8,584.58	8,764.60	8,712.31	30.93	33.37	169.68	-141.15	-704.42	1,160.64	1,098.45	62.19	18.662		
8,700.00	8,684.34	8,864.46	8,811.45	31.30	33.76	169.57	-143.59	-692.66	1,155.95	1,093.03	62.93	18.370		
8,800.00	8,784.10	8,964.33	8,910.59	31.67	34.16	169.46	-146.03	-680.90	1,151.27	1,087.61	63.66	18.084		
8,900.00	8,883.85	9,064.19	9,009.73	32.04	34.55	169.35	-148.48	-669.14	1,146.59	1,082.20	64.40	17.805		
9,000.00	8,983.61	9,164.06	9,108.87	32.41	34.94	169.24	-150.92	-657.38	1,141.92	1,076.79	65.13	17.532		
9,100.00	9,083.37	9,263.93	9,208.01	32.78	35.34	169.13	-153.36	-645.62	1,137.25	1,071.38	65.87	17.266		
9,200.00	9,183.12	9,363.80	9,287.46	33.15	35.73	169.02	-155.80	-633.86	1,132.57	1,065.96	66.60	17.009		
9,300.00	9,282.88	9,463.67	9,365.04	33.52	36.12	168.91	-158.24	-622.10	1,127.89	1,060.54	67.33	16.752		
9,349.14	9,331.90	9,460.09	9,403.23	33.70	36.09	168.97	-157.23	-626.95	1,131.21	1,063.68	67.53	16.750		
9,400.00	9,382.64	9,500.00	9,443.05	33.89	36.24	168.96	-157.77	-624.35	1,131.46	1,063.60	67.86	16.674		
9,428.07	9,410.64	9,521.61	9,464.63	33.99	36.31	168.96	-158.03	-623.12	1,131.82	1,063.79	68.03	16.637		
9,500.00	9,482.43	9,577.67	9,520.62	34.26	36.51	168.95	-158.58	-620.47	1,132.76	1,064.29	68.47	16.544		
9,600.00	9,582.36	9,655.59	9,598.50	34.62	36.78	168.95	-159.07	-618.12	1,133.54	1,064.48	69.06	16.414		
9,694.65	9,677.00	9,740.20	9,670.90	34.95	37.07	168.95	-159.23	-617.33	1,133.70	1,064.08	69.62	16.284		
9,700.00	9,682.35	9,734.85	9,676.25	34.97	37.05	168.95	-159.23	-617.33	1,133.70	1,064.08	69.62	16.284		
9,800.00	9,782.35	9,833.35	9,776.25	35.31	37.36	168.95	-159.23	-617.33	1,133.70	1,063.41	70.29	16.129		
9,900.00	9,882.35	9,933.35	9,876.25	35.65	37.68	168.95	-159.23	-617.33	1,133.70	1,062.74	70.96	15.976		
10,000.00	9,982.35	10,033.35	9,976.25	35.99	38.00	168.95	-159.23	-617.33	1,133.70	1,062.07	71.64	15.825		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,078.04	10,020.94	36.14	38.14	-95.58	-159.23	-617.33	1,133.70	1,061.76	71.94	15.759		
10,050.00	10,032.35	10,083.35	10,026.25	36.16	38.16	-95.16	-159.23	-617.33	1,133.71	1,061.73	71.98	15.751		
10,100.00	10,082.26	10,144.05	10,086.84	36.32	38.35	-95.16	-156.10	-617.36	1,133.71	1,061.34	72.38	15.664		
10,150.00	10,131.76	10,204.85	10,146.87	36.49	38.54	-95.12	-146.56	-617.42	1,133.63	1,060.87	72.76	15.581		
10,200.00	10,180.46	10,265.46	10,205.35	36.65	38.71	-95.02	-130.78	-617.54	1,133.47	1,060.35	73.12	15.502		
10,250.00	10,227.98	10,325.73	10,261.53	36.81	38.87	-94.88	-109.05	-617.69	1,133.23	1,059.77	73.46	15.427		
10,300.00	10,273.98	10,385.53	10,314.72	36.95	39.01	-94.70	-81.77	-617.89	1,132.93	1,059.15	73.78	15.356		
10,350.00	10,318.11	10,444.75	10,364.31	37.09	39.13	-94.47	-49.45	-618.12	1,132.57	1,058.48	74.08	15.288		
10,400.00	10,360.01	10,503.30	10,409.80	37.21	39.23	-94.20	-12.63	-618.38	1,132.16	1,057.79	74.37	15.223		
10,450.00	10,399.38	10,561.10	10,450.79	37.32	39.32	-93.90	28.09	-618.67	1,131.74	1,057.08	74.65	15.160		
10,500.00	10,435.92	10,618.08	10,486.99	37.42	39.38	-93.57	72.07	-618.98	1,131.30	1,056.38	74.92	15.100		
10,550.00	10,469.35	10,674.21	10,518.20	37.51	39.43	-93.21	118.68	-619.32	1,130.86	1,055.68	75.19	15.041		
10,600.00	10,499.41	10,729.44	10,544.32	37.59	39.46	-92.82	167.33	-619.66	1,130.45	1,055.00	75.45	14.984		
10,650.00	10,525.87	10,783.78	10,565.32	37.66	39.49	-92.42	217.42	-620.02	1,130.07	1,054.37	75.70	14.928		
10,700.00	10,548.54	10,837.21	10,581.26	37.74	39.51	-92.00	268.40	-620.38	1,129.73	1,053.78	75.95	14.875		
10,750.00	10,567.24	10,889.76	10,592.24	37.84	39.52	-91.57	319.76	-620.75	1,129.45	1,053.26	76.20	14.823		
10,800.00	10,581.83	10,941.43	10,598.41	37.97	39.54	-91.13	371.04	-621.12	1,129.23	1,052.80	76.43	14.774		
10,850.00	10,592.19	10,992.06	10,600.00	38.11	39.58	-90.69	421.63	-621.48	1,129.08	1,052.41	76.66	14.728		
10,900.00	10,598.26	11,041.67	10,600.00	38.25	39.63	-90.40	471.25	-621.83	1,129.01	1,052.10	76.91	14.680		
10,944.69	10,600.00	11,086.32	10,600.00	38.39	39.69	-90.31	515.89	-622.15	1,128.99	1,051.84	77.14	14.635		
11,000.00	10,600.00	11,141.63	10,600.00	38.56	39.80	-90.31	571.20	-622.54	1,128.97	1,051.50	77.47	14.572		
11,100.00	10,600.00	11,241.63	10,600.00	38.91	40.07	-90.31	671.20	-623.26	1,128.95	1,050.81	78.15	14.447		
11,200.00	10,600.00	11,341.63	10,600.00	39.31	40.42	-90.31	771.19	-623.97	1,128.93	1,050.01	78.92	14.305		
11,300.00	10,600.00	11,441.63	10,600.00	39.76	40.84	-90.31	871.19	-624.68	1,128.91	1,049.12	79.79	14.148		
11,400.00	10,600.00	11,541.63	10,600.00	40.25	41.32	-90.31	971.19	-625.40	1,128.89	1,048.13	80.76	13.978		
11,500.00	10,600.00	11,641.63	10,600.00	40.79	41.84	-90.31	1,071.19	-626.11	1,128.87	1,047.05	81.82	13.797		
11,600.00	10,600.00	11,741.63	10,600.00	41.37	42.42	-90.31	1,171.18	-626.82	1,128.85	1,045.88	82.97	13.605		
11,700.00	10,600.00	11,841.63	10,600.00	41.99	43.03	-90.31	1,271.18	-627.54	1,128.83	1,044.62	84.21	13.406		
11,800.00	10,600.00	11,941.63	10,600.00	42.65	43.69	-90.31	1,371.18	-628.25	1,128.81	1,043.28	85.52	13.199		
11,900.00	10,600.00	12,041.63	10,600.00	43.35	44.38	-90.31	1,471.18	-628.96	1,128.78	1,041.87	86.91	12.987		
12,000.00	10,600.00	12,141.63	10,600.00	44.09	45.11	-90.31	1,571.17	-629.68	1,128.76	1,040.38	88.38	12.771		
12,100.00	10,600.00	12,241.63	10,600.00	44.86	45.87	-90.31	1,671.17	-630.39	1,128.74	1,038.82	89.92	12.553		
12,200.00	10,600.00	12,341.63	10,600.00	45.67	46.67	-90.31	1,771.17	-631.10	1,128.72	1,037.20	91.52	12.332		
12,300.00	10,600.00	12,441.63	10,600.00	46.50	47.49	-90.31	1,871.16	-631.82	1,128.70	1,035.51	93.19	12.111		
12,400.00	10,600.00	12,541.63	10,600.00	47.37	48.35	-90.31	1,971.16	-632.53	1,128.68	1,033.76	94.92	11.891		
12,500.00	10,600.00	12,641.63	10,600.00	48.26	49.23	-90.31	2,071.16	-633.24	1,128.66	1,031.95	96.71	11.671		
12,600.00	10,600.00	12,741.63	10,600.00	49.18	50.14	-90.31	2,171.16	-633.96	1,128.64	1,030.09	98.55	11.453		
12,700.00	10,600.00	12,841.63	10,600.00	50.13	51.08	-90.31	2,271.15	-634.67	1,128.61	1,028.18	100.43	11.237		
12,800.00	10,600.00	12,941.63	10,600.00	51.10	52.04	-90.31	2,371.15	-635.38	1,128.59	1,026.22	102.37	11.024		
12,900.00	10,600.00	13,041.63	10,600.00	52.09	53.02	-90.31	2,471.15	-636.10	1,128.57	1,024.22	104.36	10.815		
13,000.00	10,600.00	13,141.63	10,600.00	53.10	54.02	-90.31	2,571.15	-636.81	1,128.55	1,022.17	106.38	10.609		
13,100.00	10,600.00	13,241.63	10,600.00	54.14	55.04	-90.31	2,671.14	-637.52	1,128.53	1,020.08	108.45	10.406		
13,200.00	10,600.00	13,341.63	10,600.00	55.19	56.09	-90.31	2,771.14	-638.24	1,128.51	1,017.96	110.55	10.208		
13,300.00	10,600.00	13,441.63	10,600.00	56.26	57.15	-90.31	2,871.14	-638.95	1,128.49	1,015.80	112.69	10.014		
13,400.00	10,600.00	13,541.63	10,600.00	57.35	58.22	-90.31	2,971.14	-639.66	1,128.47	1,013.60	114.87	9.824		
13,500.00	10,600.00	13,641.63	10,600.00	58.45	59.31	-90.31	3,071.13	-640.37	1,128.45	1,011.37	117.07	9.639		
13,600.00	10,600.00	13,741.63	10,600.00	59.57	60.42	-90.31	3,171.13	-641.09	1,128.42	1,009.12	119.31	9.458		
13,700.00	10,600.00	13,841.63	10,600.00	60.71	61.54	-90.31	3,271.13	-641.80	1,128.40	1,006.83	121.57	9.282		
13,800.00	10,600.00	13,941.63	10,600.00	61.85	62.68	-90.31	3,371.13	-642.51	1,128.38	1,004.52	123.87	9.110		
13,900.00	10,600.00	14,041.63	10,600.00	63.01	63.83	-90.31	3,471.12	-643.23	1,128.36	1,002.18	126.18	8.942		
14,000.00	10,600.00	14,141.63	10,600.00	64.18	64.99	-90.31	3,571.12	-643.94	1,128.34	999.81	128.53	8.779		
14,100.00	10,600.00	14,241.63	10,600.00	65.37	66.16	-90.31	3,671.12	-644.65	1,128.32	997.43	130.89	8.620		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	14,341.63	10,600.00	66.56	67.34	-90.31	3,771.12	-645.37	1,128.30	995.02	133.28	8.466	
14,300.00	10,600.00	14,441.63	10,600.00	67.76	68.54	-90.31	3,871.11	-646.08	1,128.28	992.59	135.68	8.315	
14,400.00	10,600.00	14,541.63	10,600.00	68.98	69.74	-90.31	3,971.11	-646.79	1,128.26	990.14	138.11	8.169	
14,500.00	10,600.00	14,641.63	10,600.00	70.20	70.96	-90.31	4,071.11	-647.51	1,128.23	987.68	140.56	8.027	
14,600.00	10,600.00	14,741.63	10,600.00	71.43	72.18	-90.31	4,171.11	-648.22	1,128.21	985.19	143.02	7.889	
14,700.00	10,600.00	14,841.63	10,600.00	72.67	73.41	-90.31	4,271.10	-648.93	1,128.19	982.69	145.50	7.754	
14,800.00	10,600.00	14,941.63	10,600.00	73.92	74.65	-90.31	4,371.10	-649.65	1,128.17	980.18	147.99	7.623	
14,900.00	10,600.00	15,041.63	10,600.00	75.17	75.89	-90.31	4,471.10	-650.36	1,128.15	977.65	150.50	7.496	
15,000.00	10,600.00	15,141.63	10,600.00	76.44	77.15	-90.31	4,571.10	-651.07	1,128.13	975.10	153.03	7.372	
15,100.00	10,600.00	15,241.63	10,600.00	77.70	78.41	-90.31	4,671.09	-651.79	1,128.11	972.54	155.57	7.252	
15,200.00	10,600.00	15,341.63	10,600.00	78.98	79.67	-90.31	4,771.09	-652.50	1,128.09	969.97	158.12	7.135	
15,300.00	10,600.00	15,441.63	10,600.00	80.26	80.95	-90.31	4,871.09	-653.21	1,128.06	967.39	160.68	7.021	
15,400.00	10,600.00	15,541.63	10,600.00	81.55	82.23	-90.31	4,971.09	-653.93	1,128.04	964.79	163.25	6.910	
15,484.47	10,600.00	15,626.10	10,600.00	82.64	83.31	-90.31	5,055.55	-654.53	1,128.03	962.59	165.44	6.818	CC, ES, SF

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
0.00	0.00	1.00	1.00	0.50	0.00	-90.33	-4.82	-831.57	831.59							
100.00	100.00	100.82	100.82	0.52	0.14	-90.32	-4.59	-831.58	831.60	830.93	0.66	1,257.292				
200.00	200.00	204.20	204.19	0.70	0.47	-90.26	-3.82	-831.44	831.45	830.28	1.17	710.440				
300.00	300.00	303.60	303.59	0.99	0.82	-90.18	-2.55	-831.02	831.02	829.21	1.81	458.670				
400.00	400.00	401.25	401.23	1.31	1.17	-90.07	-0.95	-830.89	830.89	828.41	2.48	334.516				
500.00	500.00	501.52	501.48	1.65	1.53	-89.94	0.80	-830.86	830.87	827.68	3.18	261.211				
600.00	600.00	603.53	603.48	1.99	1.90	-89.88	1.78	-830.61	830.62	826.73	3.89	213.491				
637.21	637.21	638.25	638.21	2.12	2.02	-89.86	1.97	-830.55	830.55	826.41	4.14	200.508	CC			
700.00	700.00	696.23	696.18	2.34	2.22	-89.86	2.06	-830.73	830.74	826.18	4.56	182.097	ES			
800.00	800.00	791.54	791.49	2.69	2.55	-89.88	1.78	-831.63	831.68	826.45	5.24	158.791				
900.00	900.00	890.37	890.30	3.04	2.89	-89.91	1.36	-832.78	832.85	826.93	5.93	140.490				
1,000.00	1,000.00	989.39	989.32	3.40	3.23	-89.93	0.98	-834.18	834.27	827.64	6.62	125.931				
1,100.00	1,100.00	1,089.35	1,089.27	3.75	3.58	-89.96	0.56	-835.54	835.62	828.30	7.33	114.032				
1,200.00	1,200.00	1,194.66	1,194.57	4.11	3.95	-89.98	0.24	-836.84	836.86	828.81	8.05	103.903				
1,300.00	1,300.00	1,296.65	1,296.56	4.46	4.31	-89.97	0.39	-837.39	837.40	828.63	8.77	95.463				
1,400.00	1,400.00	1,397.16	1,397.07	4.82	4.66	-89.98	0.27	-837.90	837.91	828.43	9.48	88.365				
1,500.00	1,500.00	1,496.85	1,496.75	5.18	5.02	-89.99	0.10	-838.36	838.37	828.18	10.19	82.274				
1,600.00	1,600.00	1,591.02	1,590.92	5.53	5.35	-89.95	0.76	-839.05	839.11	828.23	10.88	77.118				
1,700.00	1,700.00	1,686.54	1,686.42	5.89	5.69	-89.84	2.32	-840.57	840.70	829.12	11.58	72.610				
1,800.00	1,800.00	1,786.27	1,786.12	6.25	6.05	-89.74	3.76	-842.32	842.46	830.17	12.29	68.539				
1,900.00	1,900.00	1,889.03	1,888.86	6.61	6.42	-89.68	4.74	-844.02	844.12	831.10	13.02	64.849				
2,000.00	2,000.00	1,989.63	1,989.45	6.96	6.78	-89.66	5.06	-845.38	845.47	831.74	13.73	61.565				
2,100.00	2,099.99	2,088.40	2,088.21	7.31	7.13	174.87	5.02	-846.79	847.77	833.34	14.43	58.743				
2,200.00	2,199.96	2,185.45	2,185.25	7.65	7.47	174.88	5.10	-848.40	852.04	836.92	15.12	56.365				
2,300.00	2,299.86	2,285.13	2,284.91	7.99	7.83	174.93	5.53	-850.26	858.25	842.44	15.81	54.274				
2,399.87	2,399.54	2,385.68	2,385.44	8.34	8.19	174.98	5.82	-852.07	866.12	849.61	16.51	52.447				
2,500.00	2,499.43	2,487.41	2,487.16	8.69	8.56	175.02	5.87	-853.73	874.70	857.48	17.22	50.793				
2,600.00	2,599.19	2,584.82	2,584.55	9.03	8.90	175.07	5.98	-855.36	883.32	865.40	17.91	49.314				
2,700.00	2,698.94	2,683.46	2,683.18	9.39	9.26	175.13	6.33	-857.16	892.08	873.47	18.61	47.937				
2,800.00	2,798.70	2,782.73	2,782.43	9.74	9.61	175.20	6.98	-859.06	900.95	881.64	19.31	46.654				
2,900.00	2,898.46	2,883.88	2,883.55	10.09	9.98	175.30	7.97	-860.89	909.72	889.70	20.02	45.438				
3,000.00	2,998.21	2,984.56	2,984.22	10.45	10.34	175.40	8.99	-862.58	918.35	897.62	20.73	44.301				
3,100.00	3,097.97	3,085.27	3,084.91	10.80	10.70	175.51	10.24	-864.14	926.87	905.43	21.44	43.232				
3,200.00	3,197.73	3,186.95	3,186.57	11.16	11.06	175.64	11.88	-865.56	935.24	913.09	22.15	42.217				
3,300.00	3,297.48	3,289.64	3,289.22	11.52	11.43	175.80	13.95	-866.69	943.34	920.47	22.87	41.248				
3,400.00	3,397.24	3,388.86	3,388.42	11.88	11.78	175.97	16.18	-867.62	951.29	927.71	23.57	40.354				
3,500.00	3,497.00	3,489.52	3,489.04	12.24	12.14	176.14	18.55	-868.55	959.23	934.94	24.28	39.502				
3,600.00	3,596.75	3,586.62	3,586.11	12.60	12.49	176.31	21.02	-869.56	967.29	942.31	24.98	38.723				
3,700.00	3,696.51	3,693.98	3,693.43	12.96	12.87	176.52	24.10	-870.25	974.98	949.27	25.72	37.914				
3,800.00	3,796.27	3,794.83	3,794.23	13.32	13.22	176.69	26.71	-870.55	982.34	955.91	26.43	37.173				
3,900.00	3,896.02	3,899.23	3,898.61	13.68	13.59	176.86	29.19	-870.57	989.41	962.26	27.15	36.443				
4,000.00	3,995.78	4,005.85	4,005.18	14.04	13.96	177.05	32.00	-869.92	995.88	968.00	27.88	35.724				
4,100.00	4,095.54	4,111.62	4,110.94	14.40	14.32	177.17	33.63	-868.61	1,001.68	973.08	28.60	35.028				
4,200.00	4,195.29	4,215.93	4,215.21	14.77	14.68	177.31	35.69	-866.77	1,006.98	977.67	29.31	34.356				
4,300.00	4,295.05	4,303.08	4,302.31	15.13	14.99	177.47	38.24	-865.33	1,012.48	982.51	29.97	33.782				
4,400.00	4,394.81	4,401.45	4,400.62	15.49	15.33	177.68	41.67	-864.98	1,019.27	988.60	30.67	33.230				
4,500.00	4,494.56	4,566.78	4,565.75	15.86	15.89	177.86	43.93	-858.66	1,022.46	990.90	31.56	32.401				
4,600.00	4,594.32	4,674.20	4,672.88	16.22	16.25	177.83	42.80	-850.90	1,022.15	989.89	32.26	31.685				
4,700.00	4,694.08	4,796.19	4,794.43	16.59	16.66	177.79	41.15	-840.73	1,020.77	987.79	32.98	30.950				
4,800.00	4,793.83	4,913.49	4,911.03	16.95	17.05	177.66	37.69	-828.42	1,017.07	983.38	33.69	30.193				
4,900.00	4,893.59	5,004.30	5,001.27	17.32	17.36	177.53	34.59	-818.71	1,013.14	978.77	34.37	29.479				
5,000.00	4,993.35	5,082.26	5,078.86	17.68	17.62	177.42	32.15	-811.49	1,010.68	975.65	35.03	28.848				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
5,100.00	5,093.10	5,177.72	5,173.99	18.05	17.95	177.32	29.70	-804.01	1,009.68	973.96	35.72	28.264				
5,163.75	5,156.70	5,231.90	5,228.00	18.28	18.11	177.27	28.36	-799.86	1,009.20	973.08	36.12	27.940				
5,200.00	5,192.86	5,255.06	5,251.10	18.42	18.15	177.25	27.91	-798.42	1,009.44	973.13	36.31	27.803				
5,300.00	5,292.62	5,346.85	5,342.76	18.78	18.17	177.18	26.15	-793.79	1,011.27	974.58	36.69	27.564				
5,400.00	5,392.37	5,443.42	5,439.19	19.15	18.18	177.06	23.56	-789.42	1,013.59	976.53	37.06	27.351				
5,500.00	5,492.13	5,536.57	5,532.20	19.52	18.20	176.89	19.94	-785.59	1,016.28	978.84	37.44	27.147				
5,600.00	5,591.89	5,625.90	5,621.37	19.88	18.23	176.66	15.47	-782.78	1,019.91	982.09	37.82	26.968				
5,700.00	5,691.64	5,715.10	5,710.38	20.25	18.25	176.38	10.03	-780.97	1,024.63	986.42	38.21	26.819				
5,800.00	5,791.40	5,804.23	5,799.29	20.62	18.29	176.06	3.84	-780.07	1,030.38	991.78	38.59	26.699				
5,900.00	5,891.16	5,894.64	5,889.48	20.98	18.32	175.74	-2.41	-780.10	1,037.18	998.20	38.98	26.605				
6,000.00	5,990.91	5,986.95	5,981.59	21.35	18.37	175.43	-8.56	-780.76	1,044.73	1,005.35	39.38	26.528				
6,100.00	6,090.67	6,076.89	6,071.35	21.72	18.42	175.16	-13.90	-782.12	1,053.11	1,013.33	39.78	26.473				
6,200.00	6,190.42	6,167.07	6,161.40	22.09	18.47	174.94	-18.40	-784.36	1,062.49	1,022.30	40.18	26.442				
6,300.00	6,290.18	6,260.64	6,254.86	22.45	18.53	174.78	-21.94	-787.25	1,072.49	1,031.90	40.59	26.421				
6,400.00	6,389.94	6,351.06	6,345.18	22.82	18.59	174.70	-24.09	-790.69	1,083.22	1,042.22	41.00	26.420				
6,500.00	6,489.69	6,439.62	6,433.64	23.19	18.66	174.68	-25.08	-794.84	1,094.83	1,053.43	41.40	26.443				
6,600.00	6,589.45	6,523.55	6,517.42	23.56	18.72	174.67	-25.75	-799.79	1,107.64	1,065.85	41.79	26.504				
6,700.00	6,689.21	6,603.65	6,597.29	23.93	18.79	174.66	-26.44	-805.75	1,121.98	1,079.82	42.16	26.610				
6,800.00	6,788.96	6,681.52	6,674.83	24.29	18.86	174.65	-27.15	-812.90	1,138.07	1,095.54	42.52	26.764				
6,900.00	6,888.72	6,772.65	6,765.44	24.66	18.94	174.63	-28.10	-822.62	1,155.59	1,112.65	42.94	26.911				
7,000.00	6,988.48	6,874.80	6,866.99	25.03	19.05	174.60	-29.33	-833.50	1,173.11	1,129.69	43.42	27.020				
7,100.00	7,088.23	6,982.37	6,974.01	25.40	19.17	174.56	-30.78	-844.35	1,190.09	1,146.16	43.92	27.094				
7,200.00	7,187.99	7,088.35	7,079.52	25.77	19.29	174.53	-32.15	-854.28	1,206.34	1,161.91	44.43	27.151				
7,300.00	7,287.75	7,173.34	7,164.09	26.14	19.40	174.50	-33.33	-862.50	1,222.89	1,178.05	44.85	27.268				
7,400.00	7,387.50	7,254.04	7,244.30	26.50	19.51	174.47	-34.52	-871.29	1,240.66	1,195.42	45.24	27.422				
7,500.00	7,487.26	7,350.15	7,339.72	26.87	19.65	174.43	-36.07	-882.69	1,259.39	1,213.67	45.72	27.545				
7,600.00	7,587.02	7,451.48	7,440.35	27.24	19.80	174.38	-37.71	-894.52	1,277.93	1,231.70	46.23	27.642				
7,700.00	7,686.77	7,553.72	7,541.90	27.61	19.96	174.34	-39.43	-906.18	1,296.21	1,249.45	46.75	27.725				
7,800.00	7,786.53	7,660.32	7,647.86	27.98	20.14	174.30	-41.09	-917.85	1,314.03	1,266.73	47.30	27.780				
7,900.00	7,886.29	7,764.36	7,751.32	28.35	20.32	174.25	-42.89	-928.55	1,331.19	1,283.35	47.84	27.825				
8,000.00	7,986.04	7,851.72	7,838.17	28.72	20.48	174.21	-44.50	-937.88	1,348.75	1,300.45	48.30	27.922				
8,100.00	8,085.80	7,956.61	7,942.42	29.09	20.67	174.15	-46.72	-949.26	1,366.48	1,317.62	48.86	27.967				
8,200.00	8,185.56	8,060.14	8,045.39	29.46	20.87	174.09	-48.99	-959.75	1,383.50	1,334.08	49.42	27.997				
8,300.00	8,285.31	8,152.18	8,136.87	29.83	21.05	174.02	-51.28	-969.54	1,401.02	1,351.10	49.92	28.066				
8,400.00	8,385.07	8,257.02	8,241.14	30.20	21.27	173.94	-54.07	-980.20	1,418.07	1,367.58	50.49	28.086				
8,500.00	8,484.83	8,352.27	8,335.83	30.56	21.47	173.87	-56.64	-990.19	1,435.45	1,384.43	51.02	28.136				
8,600.00	8,584.58	8,450.59	8,433.59	30.93	21.68	173.79	-59.51	-1,000.24	1,452.58	1,401.01	51.57	28.169				
8,700.00	8,684.34	8,549.28	8,531.66	31.30	21.90	173.70	-62.81	-1,010.76	1,470.15	1,418.03	52.12	28.206				
8,800.00	8,784.10	8,659.49	8,641.26	31.67	22.15	173.58	-66.67	-1,021.70	1,487.00	1,434.26	52.74	28.194				
8,900.00	8,883.85	8,762.13	8,743.37	32.04	22.39	173.47	-70.46	-1,031.40	1,503.38	1,450.06	53.33	28.193				
9,000.00	8,983.61	8,880.66	8,861.35	32.41	22.66	173.35	-74.95	-1,041.82	1,519.15	1,465.16	53.99	28.138				
9,100.00	9,083.37	9,006.35	8,986.63	32.78	22.96	173.21	-79.71	-1,050.83	1,533.29	1,478.60	54.68	28.039				
9,200.00	9,183.12	9,123.07	9,103.09	33.15	23.23	173.09	-84.06	-1,057.35	1,545.84	1,490.50	55.34	27.935				
9,300.00	9,282.88	9,227.59	9,207.42	33.52	23.48	173.00	-87.61	-1,062.53	1,557.78	1,501.84	55.94	27.847				
9,400.00	9,382.64	9,341.18	9,320.84	33.89	23.74	172.92	-90.88	-1,067.60	1,569.24	1,512.66	56.58	27.734				
9,428.07	9,410.64	9,372.75	9,352.38	33.99	23.82	172.90	-91.72	-1,068.80	1,572.26	1,515.50	56.76	27.700				
9,500.00	9,482.43	9,452.46	9,432.01	34.26	24.01	172.86	-93.76	-1,071.56	1,579.11	1,521.89	57.21	27.600				
9,600.00	9,582.36	9,578.28	9,557.76	34.62	24.30	172.78	-96.90	-1,074.52	1,585.29	1,527.39	57.90	27.382				
9,694.65	9,677.00	9,696.81	9,676.24	34.95	24.58	-91.85	-100.21	-1,075.44	1,587.27	1,528.74	58.52	27.122				
9,700.00	9,682.35	9,703.51	9,682.94	34.97	24.59	-91.86	-100.39	-1,075.44	1,587.27	1,528.71	58.56	27.106				
9,800.00	9,782.35	9,814.94	9,794.33	35.31	24.84	-91.96	-103.32	-1,074.88	1,586.85	1,527.68	59.17	26.820				
9,900.00	9,882.35	9,942.78	9,922.09	35.65	25.13	-92.10	-107.07	-1,072.63	1,585.16	1,525.35	59.81	26.502				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,000.00	9,982.35	10,043.93	10,023.15	35.99	25.36	-92.23	-110.47	-1,069.92	1,582.62	1,522.22	60.39	26.205		
10,044.69	10,027.04	10,086.16	10,065.34	36.14	25.45	-92.28	-111.77	-1,068.84	1,581.53	1,520.88	60.65	26.078		
10,050.00	10,032.35	10,091.17	10,070.35	36.16	25.46	-91.87	-111.91	-1,068.72	1,581.40	1,520.73	60.68	26.063		
10,100.00	10,082.26	10,138.39	10,117.53	36.32	25.57	-92.12	-113.22	-1,067.60	1,580.37	1,519.41	60.96	25.926		
10,150.00	10,131.76	10,185.16	10,164.28	36.49	25.68	-92.48	-114.48	-1,066.57	1,579.60	1,518.36	61.24	25.795		
10,200.00	10,180.46	10,231.04	10,210.13	36.65	25.78	-92.94	-115.67	-1,065.63	1,579.17	1,517.66	61.51	25.673		
10,224.90	10,204.29	10,253.46	10,232.54	36.73	25.84	-93.20	-116.23	-1,065.20	1,579.11	1,517.47	61.65	25.616		
10,250.00	10,227.98	10,275.73	10,254.80	36.81	25.89	-93.48	-116.76	-1,064.79	1,579.18	1,517.40	61.78	25.561		
10,300.00	10,273.98	10,322.13	10,301.19	36.95	26.00	-94.12	-117.83	-1,063.97	1,579.71	1,517.66	62.05	25.459		
10,350.00	10,318.11	10,369.18	10,348.21	37.09	26.11	-94.85	-118.99	-1,063.04	1,580.81	1,518.49	62.32	25.367		
10,400.00	10,360.01	10,413.74	10,392.74	37.21	26.21	-95.58	-120.16	-1,062.06	1,582.62	1,520.05	62.57	25.292		
10,450.00	10,399.38	10,455.48	10,434.45	37.32	26.31	-96.27	-121.31	-1,061.05	1,585.35	1,522.53	62.82	25.237		
10,500.00	10,435.92	10,493.97	10,472.91	37.42	26.40	-96.87	-122.41	-1,060.03	1,589.18	1,526.13	63.05	25.204		
10,550.00	10,469.35	10,528.72	10,507.64	37.51	26.48	-97.31	-123.45	-1,059.04	1,594.31	1,531.03	63.27	25.197		
10,600.00	10,499.41	10,559.67	10,538.55	37.59	26.56	-97.56	-124.43	-1,058.11	1,600.90	1,537.42	63.48	25.220		
10,650.00	10,525.87	10,586.54	10,565.40	37.66	26.62	-97.57	-125.31	-1,057.26	1,609.10	1,545.43	63.67	25.274		
10,700.00	10,548.54	10,608.63	10,587.47	37.74	26.67	-97.29	-126.05	-1,056.54	1,619.01	1,555.17	63.84	25.361		
10,750.00	10,567.24	10,626.56	10,605.38	37.84	26.72	-96.71	-126.66	-1,055.94	1,630.69	1,566.70	63.99	25.483		
10,800.00	10,581.83	10,640.09	10,618.89	37.97	26.75	-95.79	-127.13	-1,055.47	1,644.15	1,580.03	64.13	25.640		
10,850.00	10,592.19	10,649.13	10,627.92	38.11	26.77	-94.53	-127.44	-1,055.16	1,659.36	1,595.12	64.24	25.831		
10,900.00	10,598.26	10,653.63	10,632.41	38.25	26.78	-92.90	-127.60	-1,055.01	1,676.20	1,611.87	64.33	26.055		
10,944.69	10,600.00	10,653.80	10,632.58	38.39	26.78	-91.15	-127.61	-1,055.00	1,692.54	1,628.15	64.40	26.283		
11,000.00	10,600.00	10,651.76	10,630.54	38.56	26.78	-91.08	-127.53	-1,055.07	1,714.22	1,649.75	64.47	26.589		
11,100.00	10,600.00	10,648.09	10,626.88	38.91	26.77	-90.95	-127.41	-1,055.20	1,757.16	1,692.55	64.61	27.196		
11,200.00	10,600.00	10,644.44	10,623.24	39.31	26.76	-90.81	-127.28	-1,055.32	1,804.61	1,739.85	64.76	27.866		
11,300.00	10,600.00	10,640.82	10,619.62	39.76	26.75	-90.68	-127.15	-1,055.45	1,856.24	1,791.33	64.91	28.595		
11,400.00	10,600.00	10,637.22	10,616.02	40.25	26.74	-90.55	-127.03	-1,055.57	1,911.70	1,846.63	65.07	29.378		
11,500.00	10,600.00	12,289.86	11,290.40	40.79	35.56	-110.84	1,062.31	-1,308.55	1,938.10	1,865.15	72.96	26.565		
11,600.00	10,600.00	12,392.41	11,290.50	41.37	36.78	-110.84	1,164.85	-1,309.30	1,938.13	1,863.46	74.67	25.956		
11,700.00	10,600.00	12,496.14	11,290.24	41.99	38.07	-110.83	1,268.57	-1,310.14	1,938.11	1,861.62	76.50	25.336		
11,800.00	10,600.00	12,602.50	11,289.08	42.65	39.47	-110.80	1,374.93	-1,311.02	1,937.81	1,859.36	78.45	24.701		
11,861.28	10,600.00	12,654.78	11,288.84	43.08	40.18	-110.79	1,427.21	-1,311.39	1,937.69	1,858.14	79.55	24.357		
11,900.00	10,600.00	12,688.66	11,288.79	43.35	40.64	-110.79	1,461.08	-1,311.70	1,937.74	1,857.48	80.26	24.143		
12,000.00	10,600.00	12,784.24	11,288.73	44.09	41.97	-110.78	1,556.65	-1,312.80	1,938.11	1,855.86	82.25	23.565		
12,100.00	10,600.00	12,868.40	11,288.58	44.86	43.19	-110.77	1,640.81	-1,314.28	1,939.00	1,854.83	84.17	23.037		
12,200.00	10,600.00	12,952.94	11,288.27	45.67	44.44	-110.75	1,725.31	-1,316.55	1,940.69	1,854.53	86.16	22.525		
12,300.00	10,600.00	13,039.99	11,287.83	46.50	45.76	-110.71	1,812.31	-1,319.62	1,943.13	1,854.89	88.24	22.022		
12,400.00	10,600.00	13,154.42	11,287.44	47.37	47.53	-110.66	1,926.66	-1,323.75	1,945.73	1,854.99	90.73	21.444		
12,500.00	10,600.00	13,230.17	11,287.87	48.26	48.72	-110.65	2,002.37	-1,326.20	1,948.28	1,855.53	92.75	21.006		
12,600.00	10,600.00	13,323.24	11,290.16	49.18	50.21	-110.69	2,095.35	-1,329.65	1,951.92	1,856.89	95.03	20.540		
12,700.00	10,600.00	13,405.02	11,291.66	50.13	51.53	-110.70	2,177.04	-1,333.07	1,955.83	1,858.63	97.20	20.122		
12,800.00	10,600.00	13,482.93	11,292.61	51.10	52.82	-110.69	2,254.81	-1,337.60	1,961.00	1,861.65	99.35	19.738		
12,900.00	10,600.00	13,589.48	11,293.72	52.09	54.60	-110.65	2,361.12	-1,344.63	1,966.87	1,864.88	101.99	19.285		
13,000.00	10,600.00	13,709.56	11,292.38	53.10	56.63	-110.55	2,480.98	-1,351.91	1,971.43	1,866.53	104.91	18.792		
13,100.00	10,600.00	13,811.99	11,291.47	54.14	58.38	-110.47	2,583.24	-1,357.61	1,975.65	1,868.07	107.58	18.365		
13,200.00	10,600.00	13,971.66	11,289.49	55.19	61.11	-110.38	2,742.79	-1,363.25	1,977.56	1,866.41	111.15	17.791		
13,300.00	10,600.00	14,066.51	11,287.66	56.26	62.74	-110.31	2,837.58	-1,365.91	1,978.83	1,865.07	113.76	17.394		
13,400.00	10,600.00	14,160.73	11,286.39	57.35	64.37	-110.25	2,931.75	-1,368.64	1,980.39	1,864.00	116.39	17.015		
13,500.00	10,600.00	14,249.78	11,285.90	58.45	65.92	-110.22	3,020.76	-1,371.30	1,982.32	1,863.37	118.95	16.665		
13,600.00	10,600.00	14,327.99	11,285.84	59.57	67.29	-110.19	3,098.92	-1,374.13	1,985.03	1,863.68	121.35	16.358		
13,700.00	10,600.00	14,405.47	11,287.21	60.71	68.66	-110.20	3,176.31	-1,377.60	1,989.11	1,865.37	123.74	16.075		
13,800.00	10,600.00	14,514.72	11,290.21	61.85	70.59	-110.25	3,285.43	-1,381.96	1,993.09	1,866.44	126.65	15.737		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
13,900.00	10,600.00	14,601.26	11,293.32	63.01	72.13	-110.30	3,371.84	-1,385.57	1,997.55	1,868.36	129.19	15.462		
14,000.00	10,600.00	14,719.44	11,296.34	64.18	74.25	-110.34	3,489.85	-1,390.86	2,001.97	1,869.68	132.29	15.133		
14,100.00	10,600.00	14,832.72	11,296.90	65.37	76.29	-110.32	3,603.04	-1,395.38	2,005.17	1,869.81	135.36	14.814		
14,200.00	10,600.00	14,935.53	11,297.73	66.56	78.14	-110.31	3,705.78	-1,399.19	2,008.24	1,869.98	138.26	14.525		
14,300.00	10,600.00	15,026.94	11,298.51	67.76	79.79	-110.30	3,797.13	-1,402.60	2,011.35	1,870.36	140.99	14.266		
14,400.00	10,600.00	15,148.51	11,298.04	68.98	82.00	-110.25	3,918.59	-1,407.61	2,014.43	1,870.17	144.27	13.963		
14,500.00	10,600.00	15,253.22	11,296.19	70.20	83.91	-110.17	4,023.21	-1,411.51	2,016.63	1,869.34	147.29	13.691		
14,600.00	10,600.00	15,350.21	11,294.25	71.43	85.68	-110.09	4,120.11	-1,415.10	2,018.73	1,868.53	150.21	13.440		
14,700.00	10,600.00	15,435.15	11,292.65	72.67	87.24	-110.02	4,204.97	-1,418.67	2,021.35	1,868.42	152.93	13.218		
14,800.00	10,600.00	15,528.86	11,290.94	73.92	88.96	-109.94	4,298.55	-1,423.12	2,024.50	1,868.68	155.82	12.993		
14,900.00	10,600.00	15,629.68	11,289.03	75.17	90.83	-109.85	4,399.23	-1,428.03	2,027.74	1,868.89	158.85	12.765		
15,000.00	10,600.00	15,722.07	11,288.44	76.44	92.53	-109.80	4,491.53	-1,432.29	2,031.18	1,869.46	161.72	12.560		
15,100.00	10,600.00	15,812.55	11,288.85	77.70	94.21	-109.77	4,581.90	-1,436.53	2,035.05	1,870.50	164.54	12.368		
15,200.00	10,600.00	15,916.73	11,289.69	78.98	96.14	-109.76	4,685.96	-1,441.40	2,039.03	1,871.41	167.61	12.165		
15,300.00	10,600.00	15,977.00	11,290.28	80.26	97.26	-109.75	4,746.17	-1,444.12	2,043.30	1,873.43	169.87	12.028		
15,400.00	10,600.00	15,977.00	11,290.28	81.55	97.26	-109.75	4,746.17	-1,444.12	2,051.55	1,880.78	170.77	12.014 SF		
15,484.47	10,600.00	15,977.00	11,290.28	82.64	97.26	-109.75	4,746.17	-1,444.12	2,062.27	1,891.02	171.26	12.042		

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.00	1.00	0.50	0.00	-90.33	-4.82	-831.57	831.59					
100.00	100.00	100.82	100.82	0.52	0.14	-90.32	-4.59	-831.58	831.60	830.93	0.66	1,257.292		
200.00	200.00	204.20	204.19	0.70	0.47	-90.26	-3.82	-831.44	831.45	830.28	1.17	710.440		
300.00	300.00	303.60	303.59	0.99	0.82	-90.18	-2.55	-831.02	831.02	829.21	1.81	458.670		
400.00	400.00	401.25	401.23	1.31	1.17	-90.07	-0.95	-830.89	830.89	828.41	2.48	334.516		
500.00	500.00	501.52	501.48	1.65	1.53	-89.94	0.80	-830.86	830.87	827.68	3.18	261.211		
600.00	600.00	603.53	603.48	1.99	1.90	-89.88	1.78	-830.61	830.62	826.73	3.89	213.491		
637.21	637.21	638.25	638.21	2.12	2.02	-89.86	1.97	-830.55	830.55	826.41	4.14	200.508 CC		
700.00	700.00	696.23	696.18	2.34	2.22	-89.86	2.06	-830.73	830.74	826.18	4.56	182.097 ES		
800.00	800.00	791.54	791.49	2.69	2.55	-89.88	1.78	-831.63	831.68	826.45	5.24	158.791		
900.00	900.00	890.37	890.30	3.04	2.89	-89.91	1.36	-832.78	832.85	826.93	5.93	140.490		
1,000.00	1,000.00	989.39	989.32	3.40	3.23	-89.93	0.98	-834.18	834.27	827.64	6.62	125.931		
1,100.00	1,100.00	1,089.35	1,089.27	3.75	3.58	-89.96	0.56	-835.54	835.62	828.30	7.33	114.032		
1,200.00	1,200.00	1,194.66	1,194.57	4.11	3.95	-89.98	0.24	-836.84	836.86	828.81	8.05	103.903		
1,300.00	1,300.00	1,296.65	1,296.56	4.46	4.31	-89.97	0.39	-837.39	837.40	828.63	8.77	95.463		
1,400.00	1,400.00	1,397.16	1,397.07	4.82	4.66	-89.98	0.27	-837.90	837.91	828.43	9.48	88.365		
1,500.00	1,500.00	1,496.85	1,496.75	5.18	5.02	-89.99	0.10	-838.36	838.37	828.18	10.19	82.274		
1,600.00	1,600.00	1,591.02	1,590.92	5.53	5.35	-89.95	0.76	-839.05	839.11	828.23	10.88	77.118		
1,700.00	1,700.00	1,686.54	1,686.42	5.89	5.69	-89.84	2.32	-840.57	840.70	829.12	11.58	72.610		
1,800.00	1,800.00	1,786.27	1,786.12	6.25	6.05	-89.74	3.76	-842.32	842.46	830.17	12.29	68.539		
1,900.00	1,900.00	1,889.03	1,888.86	6.61	6.42	-89.68	4.74	-844.02	844.12	831.10	13.02	64.849		
2,000.00	2,000.00	1,989.63	1,989.45	6.96	6.78	-89.66	5.06	-845.38	845.47	831.74	13.73	61.565		
2,100.00	2,099.99	2,088.40	2,088.21	7.31	7.13	174.87	5.02	-846.79	847.77	833.34	14.43	58.743		
2,200.00	2,199.96	2,185.45	2,185.25	7.65	7.47	174.88	5.10	-848.40	852.04	836.92	15.12	56.365		
2,300.00	2,299.86	2,285.13	2,284.91	7.99	7.83	174.93	5.53	-850.26	858.25	842.44	15.81	54.274		
2,399.87	2,399.54	2,385.68	2,385.44	8.34	8.19	174.98	5.82	-852.07	866.12	849.61	16.51	52.447		
2,500.00	2,499.43	2,487.41	2,487.16	8.69	8.56	175.02	5.87	-853.73	874.70	857.48	17.22	50.793		
2,600.00	2,599.19	2,584.82	2,584.55	9.03	8.90	175.07	5.98	-855.36	883.32	865.40	17.91	49.314		
2,700.00	2,698.94	2,683.46	2,683.18	9.39	9.26	175.13	6.33	-857.16	892.08	873.47	18.61	47.937		
2,800.00	2,798.70	2,782.73	2,782.43	9.74	9.61	175.20	6.98	-859.06	900.95	881.64	19.31	46.654		
2,900.00	2,898.46	2,883.88	2,883.55	10.09	9.98	175.30	7.97	-860.89	909.72	889.70	20.02	45.438		
3,000.00	2,998.21	2,984.56	2,984.22	10.45	10.34	175.40	8.99	-862.58	918.35	897.62	20.73	44.301		
3,100.00	3,097.97	3,085.27	3,084.91	10.80	10.70	175.51	10.24	-864.14	926.87	905.43	21.44	43.232		
3,200.00	3,197.73	3,186.95	3,186.57	11.16	11.06	175.64	11.88	-865.56	935.24	913.09	22.15	42.217		
3,300.00	3,297.48	3,289.64	3,289.22	11.52	11.43	175.80	13.95	-866.69	943.34	920.47	22.87	41.248		
3,400.00	3,397.24	3,388.86	3,388.42	11.88	11.78	175.97	16.18	-867.62	951.29	927.71	23.57	40.354		
3,500.00	3,497.00	3,489.52	3,489.04	12.24	12.14	176.14	18.55	-868.55	959.23	934.94	24.28	39.502		
3,600.00	3,596.75	3,586.62	3,586.11	12.60	12.49	176.31	21.02	-869.56	967.29	942.31	24.98	38.723		
3,700.00	3,696.51	3,693.98	3,693.43	12.96	12.87	176.52	24.10	-870.25	974.98	949.27	25.72	37.914		
3,800.00	3,796.27	3,794.83	3,794.23	13.32	13.22	176.69	26.71	-870.55	982.34	955.91	26.43	37.173		
3,900.00	3,896.02	3,899.23	3,898.61	13.68	13.59	176.86	29.19	-870.57	989.41	962.26	27.15	36.443		
4,000.00	3,995.78	4,005.85	4,005.18	14.04	13.96	177.05	32.00	-869.92	995.88	968.00	27.88	35.724		
4,100.00	4,095.54	4,111.62	4,110.94	14.40	14.32	177.17	33.63	-868.61	1,001.68	973.08	28.60	35.028		
4,200.00	4,195.29	4,215.93	4,215.21	14.77	14.68	177.31	35.69	-866.77	1,006.98	977.67	29.31	34.356		
4,300.00	4,295.05	4,303.08	4,302.31	15.13	14.99	177.47	38.24	-865.33	1,012.48	982.51	29.97	33.782		
4,400.00	4,394.81	4,401.45	4,400.62	15.49	15.33	177.68	41.67	-864.98	1,019.27	988.60	30.67	33.230		
4,500.00	4,494.56	4,566.78	4,565.75	15.86	15.89	177.86	43.93	-858.66	1,022.46	990.90	31.56	32.401		
4,600.00	4,594.32	4,674.20	4,672.88	16.22	16.25	177.83	42.80	-850.90	1,022.15	989.89	32.26	31.685		
4,700.00	4,694.08	4,796.19	4,794.43	16.59	16.66	177.79	41.15	-840.73	1,020.77	987.79	32.98	30.950		
4,800.00	4,793.83	4,913.49	4,911.03	16.95	17.05	177.66	37.69	-828.42	1,017.07	983.38	33.69	30.193		
4,900.00	4,893.59	5,004.30	5,001.27	17.32	17.36	177.53	34.59	-818.71	1,013.14	978.77	34.37	29.479		
5,000.00	4,993.35	5,082.26	5,078.86	17.68	17.62	177.42	32.15	-811.49	1,010.68	975.65	35.03	28.848		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,094.31	5,087.42	5,162.44	5,158.78	18.03	17.80	177.34	30.18	-805.47	1,010.05	974.48	35.57	28.396		
5,100.00	5,093.10	5,167.32	5,163.65	18.05	17.81	177.34	30.08	-805.13	1,010.05	974.45	35.60	28.372		
5,200.00	5,192.86	5,253.01	5,249.16	18.42	17.96	177.27	28.43	-799.91	1,010.84	974.72	36.12	27.984		
5,300.00	5,292.62	5,346.83	5,342.84	18.78	17.99	177.20	26.64	-795.19	1,012.68	976.18	36.51	27.739		
5,400.00	5,392.37	5,443.38	5,439.27	19.15	18.01	177.09	24.05	-790.81	1,015.00	978.12	36.88	27.521		
5,500.00	5,492.13	5,536.54	5,532.27	19.52	18.03	176.91	20.44	-786.98	1,017.69	980.43	37.26	27.310		
5,600.00	5,591.89	5,625.86	5,621.44	19.88	18.05	176.69	15.96	-784.17	1,021.32	983.67	37.65	27.126		
5,700.00	5,691.64	5,715.05	5,710.44	20.25	18.09	176.41	10.52	-782.36	1,026.04	988.00	38.04	26.973		
5,800.00	5,791.40	5,804.17	5,799.34	20.62	18.12	176.09	4.33	-781.47	1,031.78	993.35	38.43	26.847		
5,900.00	5,891.16	5,894.56	5,889.51	20.98	18.16	175.77	-1.91	-781.49	1,038.58	999.76	38.83	26.749		
6,000.00	5,990.91	5,986.87	5,981.61	21.35	18.21	175.45	-8.07	-782.15	1,046.13	1,006.90	39.23	26.668		
6,100.00	6,090.67	6,076.79	6,071.37	21.72	18.26	175.19	-13.41	-783.51	1,054.51	1,014.88	39.63	26.609		
6,200.00	6,190.42	6,166.95	6,161.39	22.09	18.32	174.97	-17.91	-785.75	1,063.88	1,023.84	40.03	26.574		
6,300.00	6,290.18	6,260.52	6,254.84	22.45	18.38	174.81	-21.44	-788.64	1,073.88	1,033.43	40.45	26.548		
6,400.00	6,389.94	6,350.92	6,345.15	22.82	18.45	174.73	-23.59	-792.08	1,084.61	1,043.75	40.86	26.544		
6,500.00	6,489.69	6,439.47	6,433.60	23.19	18.52	174.70	-24.59	-796.23	1,096.21	1,054.95	41.27	26.564		
6,600.00	6,589.45	6,523.40	6,517.37	23.56	18.59	174.69	-25.26	-801.17	1,109.02	1,067.36	41.66	26.621		
6,700.00	6,689.21	6,603.47	6,597.23	23.93	18.66	174.68	-25.95	-807.12	1,123.36	1,081.33	42.04	26.724		
6,800.00	6,788.96	6,681.33	6,674.75	24.29	18.73	174.67	-26.66	-814.28	1,139.44	1,097.04	42.40	26.874		
6,900.00	6,888.72	6,772.40	6,765.30	24.66	18.82	174.65	-27.61	-823.99	1,156.96	1,114.14	42.82	27.019		
7,000.00	6,988.48	6,874.54	6,866.85	25.03	18.93	174.62	-28.84	-834.86	1,174.48	1,131.18	43.30	27.124		
7,100.00	7,088.23	6,982.11	6,973.86	25.40	19.05	174.59	-30.29	-845.72	1,191.46	1,147.65	43.81	27.195		
7,200.00	7,187.99	7,088.11	7,079.38	25.77	19.18	174.55	-31.65	-855.65	1,207.72	1,163.40	44.32	27.249		
7,300.00	7,287.75	7,173.13	7,163.99	26.14	19.30	174.52	-32.83	-863.87	1,224.27	1,179.52	44.74	27.363		
7,400.00	7,387.50	7,253.83	7,244.20	26.50	19.41	174.49	-34.02	-872.65	1,242.03	1,196.89	45.14	27.514		
7,500.00	7,487.26	7,349.87	7,339.56	26.87	19.55	174.45	-35.57	-884.05	1,260.76	1,215.14	45.62	27.635		
7,600.00	7,587.02	7,451.21	7,440.19	27.24	19.71	174.41	-37.21	-895.88	1,279.30	1,233.16	46.14	27.729		
7,700.00	7,686.77	7,553.45	7,541.74	27.61	19.87	174.36	-38.94	-907.54	1,297.58	1,250.91	46.66	27.809		
7,800.00	7,786.53	7,660.05	7,647.69	27.98	20.05	174.32	-40.60	-919.21	1,315.40	1,268.19	47.21	27.861		
7,900.00	7,886.29	7,764.15	7,751.22	28.35	20.24	174.28	-42.40	-929.92	1,332.56	1,284.80	47.76	27.902		
8,000.00	7,986.04	7,851.46	7,838.02	28.72	20.40	174.23	-44.01	-939.24	1,350.12	1,301.89	48.22	27.997		
8,100.00	8,085.80	7,956.33	7,942.25	29.09	20.60	174.17	-46.22	-950.62	1,367.85	1,319.07	48.78	28.039		
8,200.00	8,185.56	8,059.94	8,045.30	29.46	20.80	174.11	-48.50	-961.12	1,384.87	1,335.52	49.34	28.066		
8,300.00	8,285.31	8,151.88	8,136.69	29.83	20.98	174.05	-50.79	-970.90	1,402.38	1,352.54	49.85	28.133		
8,400.00	8,385.07	8,256.81	8,241.04	30.20	21.20	173.97	-53.58	-981.57	1,419.43	1,369.01	50.42	28.150		
8,500.00	8,484.83	8,352.01	8,335.67	30.56	21.41	173.89	-56.15	-991.56	1,436.82	1,385.86	50.96	28.198		
8,600.00	8,584.58	8,450.39	8,433.49	30.93	21.62	173.81	-59.01	-1,001.61	1,453.95	1,402.44	51.51	28.228		
8,700.00	8,684.34	8,549.00	8,531.49	31.30	21.85	173.72	-62.31	-1,012.12	1,471.52	1,419.45	52.07	28.263		
8,800.00	8,784.10	8,659.25	8,641.13	31.67	22.10	173.60	-66.17	-1,023.07	1,488.36	1,435.67	52.69	28.249		
8,900.00	8,883.85	8,761.91	8,743.26	32.04	22.34	173.49	-69.96	-1,032.77	1,504.75	1,451.47	53.28	28.245		
9,000.00	8,983.61	8,880.40	8,861.21	32.41	22.62	173.37	-74.45	-1,043.19	1,520.52	1,466.58	53.94	28.187		
9,100.00	9,083.37	9,006.13	8,986.52	32.78	22.92	173.23	-79.21	-1,052.20	1,534.66	1,480.02	54.64	28.086		
9,200.00	9,183.12	9,122.90	9,103.02	33.15	23.20	173.11	-83.56	-1,058.73	1,547.21	1,491.91	55.30	27.980		
9,300.00	9,282.88	9,227.43	9,207.36	33.52	23.45	173.02	-87.12	-1,063.91	1,559.15	1,503.25	55.90	27.890		
9,400.00	9,382.64	9,341.00	9,320.77	33.89	23.72	172.94	-90.39	-1,068.98	1,570.61	1,514.06	56.55	27.774		
9,428.07	9,410.64	9,372.59	9,352.32	33.99	23.79	172.92	-91.23	-1,070.18	1,573.64	1,516.91	56.73	27.739		
9,500.00	9,482.43	9,452.28	9,431.94	34.26	23.98	172.88	-93.27	-1,072.94	1,580.48	1,523.29	57.19	27.638		
9,600.00	9,582.36	9,578.13	9,557.72	34.62	24.28	172.80	-96.40	-1,075.91	1,586.66	1,528.79	57.87	27.418		
9,694.65	9,677.00	9,696.70	9,676.23	34.95	24.56	-91.83	-99.72	-1,076.83	1,588.64	1,530.14	58.50	27.156		
9,700.00	9,682.35	9,703.39	9,682.93	34.97	24.58	-91.84	-99.90	-1,076.83	1,588.64	1,530.11	58.54	27.140		
9,800.00	9,782.35	9,814.85	9,794.35	35.31	24.83	-91.94	-102.83	-1,076.27	1,588.22	1,529.07	59.15	26.852		
9,900.00	9,882.35	9,942.72	9,922.14	35.65	25.12	-92.08	-106.58	-1,074.02	1,586.54	1,526.74	59.80	26.531		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,000.00	9,982.35	10,043.88	10,023.21	35.99	25.35	-92.21	-109.98	-1,071.31	1,583.99	1,523.61	60.38	26.233		
10,044.69	10,027.04	10,086.10	10,065.39	36.14	25.45	-92.26	-111.28	-1,070.23	1,582.90	1,522.26	60.64	26.105		
10,050.00	10,032.35	10,091.12	10,070.40	36.16	25.46	-91.85	-111.42	-1,070.11	1,582.78	1,522.11	60.67	26.090		
10,100.00	10,082.26	10,138.33	10,117.58	36.32	25.57	-92.10	-112.73	-1,068.99	1,581.74	1,520.79	60.95	25.952		
10,150.00	10,131.76	10,185.10	10,164.33	36.49	25.68	-92.46	-113.98	-1,067.96	1,580.97	1,519.74	61.23	25.820		
10,200.00	10,180.46	10,230.98	10,210.18	36.65	25.78	-92.92	-115.18	-1,067.02	1,580.53	1,519.03	61.51	25.698		
10,225.53	10,204.89	10,253.95	10,233.14	36.73	25.84	-93.18	-115.75	-1,066.58	1,580.47	1,518.83	61.64	25.639		
10,250.00	10,227.98	10,275.66	10,254.84	36.81	25.89	-93.46	-116.27	-1,066.18	1,580.53	1,518.76	61.77	25.585		
10,300.00	10,273.98	10,322.06	10,301.22	36.95	26.00	-94.10	-117.34	-1,065.36	1,581.06	1,519.02	62.05	25.482		
10,350.00	10,318.11	10,369.11	10,348.24	37.09	26.11	-94.83	-118.50	-1,064.44	1,582.15	1,519.83	62.31	25.390		
10,400.00	10,360.01	10,413.67	10,392.78	37.21	26.22	-95.56	-119.67	-1,063.45	1,583.95	1,521.38	62.57	25.314		
10,450.00	10,399.38	10,455.41	10,434.50	37.32	26.32	-96.25	-120.82	-1,062.44	1,586.66	1,523.84	62.82	25.258		
10,500.00	10,435.92	10,493.91	10,472.96	37.42	26.41	-96.85	-121.92	-1,061.42	1,590.48	1,527.43	63.05	25.224		
10,550.00	10,469.35	10,528.67	10,507.69	37.51	26.49	-97.29	-122.96	-1,060.43	1,595.59	1,532.32	63.27	25.217 SF		
10,600.00	10,499.41	10,559.61	10,538.61	37.59	26.57	-97.55	-123.93	-1,059.50	1,602.16	1,538.68	63.48	25.239		
10,650.00	10,525.87	10,586.49	10,565.46	37.66	26.63	-97.56	-124.81	-1,058.65	1,610.34	1,546.67	63.67	25.292		
10,700.00	10,548.54	10,608.58	10,587.53	37.74	26.68	-97.28	-125.55	-1,057.93	1,620.23	1,556.39	63.84	25.379		
10,750.00	10,567.24	10,626.52	10,605.44	37.84	26.73	-96.70	-126.17	-1,057.33	1,631.89	1,567.89	64.00	25.500		
10,800.00	10,581.83	10,640.05	10,618.95	37.97	26.76	-95.78	-126.63	-1,056.87	1,645.33	1,581.20	64.13	25.656		
10,850.00	10,592.19	10,649.08	10,627.98	38.11	26.78	-94.52	-126.95	-1,056.56	1,660.50	1,596.26	64.25	25.846		
10,900.00	10,598.26	10,653.58	10,632.47	38.25	26.79	-92.90	-127.11	-1,056.40	1,677.33	1,612.99	64.34	26.070		
10,944.69	10,600.00	10,653.75	10,632.64	38.39	26.79	-91.16	-127.11	-1,056.39	1,693.64	1,629.24	64.40	26.297		
11,000.00	10,600.00	10,651.71	10,630.61	38.56	26.79	-91.08	-127.04	-1,056.46	1,715.29	1,650.81	64.48	26.603		
11,100.00	10,600.00	10,648.05	10,626.94	38.91	26.78	-90.95	-126.91	-1,056.59	1,758.17	1,693.56	64.62	27.209		
11,200.00	10,600.00	10,644.40	10,623.30	39.31	26.77	-90.81	-126.79	-1,056.72	1,805.57	1,740.80	64.77	27.878		
11,300.00	10,600.00	10,640.78	10,619.68	39.76	26.76	-90.68	-126.66	-1,056.84	1,857.14	1,792.22	64.92	28.606		
11,400.00	10,600.00	10,637.17	10,616.08	40.25	26.75	-90.55	-126.53	-1,056.97	1,912.55	1,847.47	65.08	29.388		
11,500.00	10,600.00	10,633.59	10,612.50	40.79	26.74	-90.42	-126.41	-1,057.09	1,971.47	1,906.23	65.24	30.220		
11,600.00	10,600.00	10,630.03	10,608.94	41.37	26.74	-90.29	-126.29	-1,057.21	2,033.60	1,968.21	65.39	31.099		
11,700.00	10,600.00	10,626.48	10,605.41	41.99	26.73	-90.16	-126.17	-1,057.33	2,098.65	2,033.10	65.54	32.020		
11,800.00	10,600.00	10,622.96	10,601.89	42.65	26.72	-90.03	-126.04	-1,057.45	2,166.35	2,100.67	65.69	32.980		
11,900.00	10,600.00	10,619.46	10,598.39	43.35	26.71	-89.90	-125.92	-1,057.57	2,236.48	2,170.65	65.83	33.975		
12,000.00	10,600.00	10,615.98	10,594.91	44.09	26.70	-89.78	-125.81	-1,057.68	2,308.80	2,242.84	65.96	35.003		
12,100.00	10,600.00	10,612.51	10,591.45	44.86	26.69	-89.65	-125.69	-1,057.80	2,383.12	2,317.03	66.09	36.059		
12,200.00	10,600.00	10,609.07	10,588.01	45.67	26.68	-89.53	-125.57	-1,057.91	2,459.25	2,393.04	66.21	37.143		
12,300.00	10,600.00	10,605.65	10,584.59	46.50	26.68	-89.40	-125.46	-1,058.03	2,537.04	2,470.71	66.33	38.251		
12,400.00	10,600.00	10,602.24	10,581.19	47.37	26.67	-89.28	-125.34	-1,058.14	2,616.33	2,549.90	66.44	39.380		
12,500.00	10,600.00	10,598.86	10,577.81	48.26	26.66	-89.15	-125.23	-1,058.25	2,697.00	2,630.46	66.54	40.530		
12,600.00	10,600.00	10,595.49	10,574.45	49.18	26.65	-89.03	-125.11	-1,058.36	2,778.92	2,712.28	66.64	41.698		
12,700.00	10,600.00	10,592.14	10,571.10	50.13	26.64	-88.91	-125.00	-1,058.47	2,861.98	2,795.24	66.74	42.883		
12,800.00	10,600.00	10,588.81	10,567.78	51.10	26.64	-88.79	-124.89	-1,058.58	2,946.10	2,879.27	66.83	44.083		
12,900.00	10,600.00	10,585.50	10,564.47	52.09	26.63	-88.67	-124.78	-1,058.68	3,031.17	2,964.25	66.92	45.296		
13,000.00	10,600.00	10,582.21	10,561.18	53.10	26.62	-88.55	-124.67	-1,058.79	3,117.13	3,050.13	67.00	46.522		
13,100.00	10,600.00	10,578.96	10,557.94	54.14	26.61	-88.43	-124.56	-1,058.89	3,203.90	3,136.81	67.08	47.759		
13,200.00	10,600.00	10,575.79	10,554.77	55.19	26.60	-88.31	-124.46	-1,058.99	3,291.41	3,224.25	67.16	49.006		
13,300.00	10,600.00	10,572.65	10,551.63	56.26	26.60	-88.20	-124.36	-1,059.09	3,379.62	3,312.38	67.24	50.263		
13,400.00	10,600.00	10,569.53	10,548.51	57.35	26.59	-88.09	-124.25	-1,059.19	3,468.46	3,401.15	67.31	51.528		
13,500.00	10,600.00	10,566.44	10,545.43	58.45	26.58	-87.97	-124.15	-1,059.29	3,557.90	3,490.51	67.38	52.800		
13,600.00	10,600.00	10,563.37	10,542.37	59.57	26.57	-87.86	-124.05	-1,059.39	3,647.88	3,580.42	67.45	54.080		
13,700.00	10,600.00	10,560.34	10,539.33	60.71	26.57	-87.75	-123.96	-1,059.48	3,738.36	3,670.84	67.52	55.365		
13,800.00	10,600.00	10,557.32	10,536.32	61.85	26.56	-87.64	-123.86	-1,059.57	3,829.32	3,761.73	67.59	56.657		
13,900.00	10,600.00	10,554.34	10,533.34	63.01	26.55	-87.53	-123.76	-1,059.66	3,920.71	3,853.06	67.65	57.953		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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)			
14,000.00	10,600.00	10,551.38	10,530.38	64.18	26.55	-87.43	-123.67	-1,059.76	4,012.51	3,944.80	67.72	59.254		
14,100.00	10,600.00	10,548.44	10,527.44	65.37	26.54	-87.32	-123.58	-1,059.84	4,104.70	4,036.92	67.78	60.559		
14,200.00	10,600.00	10,545.53	10,524.53	66.56	26.53	-87.21	-123.48	-1,059.93	4,197.24	4,129.39	67.84	61.867		
14,300.00	10,600.00	10,542.64	10,521.65	67.76	26.52	-87.11	-123.39	-1,060.02	4,290.11	4,222.20	67.90	63.179		
14,400.00	10,600.00	10,539.77	10,518.79	68.98	26.52	-87.01	-123.30	-1,060.11	4,383.29	4,315.33	67.96	64.494		
14,500.00	10,600.00	10,536.93	10,515.95	70.20	26.51	-86.90	-123.22	-1,060.19	4,476.77	4,408.74	68.02	65.811		
14,600.00	10,600.00	10,534.12	10,513.14	71.43	26.50	-86.80	-123.13	-1,060.27	4,570.52	4,502.43	68.08	67.130		
14,700.00	10,600.00	10,531.32	10,510.34	72.67	26.50	-86.70	-123.04	-1,060.36	4,664.52	4,596.38	68.14	68.451		
14,800.00	10,600.00	10,528.55	10,507.57	73.92	26.49	-86.60	-122.96	-1,060.44	4,758.77	4,690.57	68.20	69.774		
14,900.00	10,600.00	10,525.80	10,504.83	75.17	26.48	-86.50	-122.87	-1,060.52	4,853.25	4,784.99	68.26	71.097		
15,000.00	10,600.00	10,523.07	10,502.10	76.44	26.48	-86.40	-122.79	-1,060.60	4,947.95	4,879.62	68.32	72.422		
15,100.00	10,600.00	10,520.37	10,499.40	77.70	26.47	-86.30	-122.71	-1,060.68	5,042.84	4,974.46	68.38	73.748		
15,200.00	10,600.00	10,517.69	10,496.72	78.98	26.46	-86.21	-122.62	-1,060.75	5,137.93	5,069.49	68.44	75.074		
15,300.00	10,600.00	10,515.03	10,494.06	80.26	26.46	-86.11	-122.54	-1,060.83	5,233.20	5,164.70	68.50	76.400		
15,400.00	10,600.00	10,512.38	10,491.42	81.55	26.45	-86.01	-122.46	-1,060.90	5,328.64	5,260.09	68.56	77.727		
15,484.47	10,600.00	10,510.17	10,489.21	82.64	26.45	-85.93	-122.40	-1,060.97	5,409.39	5,340.79	68.61	78.847		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.40	1.40	0.50	0.00	-90.33	-4.46	-781.61	781.62					
100.00	100.00	94.71	94.71	0.52	0.16	-90.32	-4.34	-782.02	782.06	781.40	0.67	1,173.417		
200.00	200.00	188.01	188.00	0.70	0.31	-90.29	-3.98	-783.23	783.36	782.36	1.00	785.843		
300.00	300.00	284.82	284.79	0.99	0.60	-90.24	-3.28	-785.17	785.35	783.79	1.57	501.197		
400.00	400.00	383.83	383.77	1.31	0.95	-90.15	-2.09	-787.36	787.56	785.33	2.24	352.023		
500.00	500.00	484.84	484.74	1.65	1.31	-90.08	-1.05	-789.63	789.81	786.88	2.93	269.544		
600.00	600.00	589.20	589.08	1.99	1.68	-89.98	0.23	-791.56	791.66	788.01	3.64	217.263		
700.00	700.00	693.57	693.43	2.34	2.05	-89.86	1.91	-792.91	792.95	788.59	4.36	181.809		
800.00	800.00	792.05	791.89	2.69	2.39	-89.75	3.42	-793.98	794.05	788.99	5.06	157.007		
900.00	900.00	890.12	889.94	3.04	2.73	-89.69	4.27	-795.28	795.37	789.62	5.75	138.245		
1,000.00	1,000.00	988.83	988.64	3.40	3.07	-89.64	5.07	-796.84	796.96	790.51	6.45	123.523		
1,100.00	1,100.00	1,091.58	1,091.38	3.75	3.43	-89.59	5.68	-798.28	798.36	791.20	7.17	111.414		
1,200.00	1,200.00	1,193.11	1,192.90	4.11	3.78	-89.59	5.79	-799.51	799.58	791.70	7.88	101.520		
1,300.00	1,300.00	1,299.25	1,299.04	4.46	4.15	-89.58	5.84	-800.34	800.36	791.76	8.60	93.042		
1,400.00	1,400.00	1,400.42	1,400.21	4.82	4.41	-89.61	5.47	-800.36	800.38	791.16	9.22	86.834		
1,500.00	1,500.00	1,495.56	1,495.35	5.18	4.58	-89.61	5.42	-800.80	800.84	791.09	9.75	82.175		
1,600.00	1,600.00	1,592.36	1,592.14	5.53	4.69	-89.59	5.74	-801.79	801.86	791.65	10.21	78.536		
1,700.00	1,700.00	1,691.82	1,691.59	5.89	4.74	-89.56	6.10	-802.99	803.07	792.45	10.62	75.613		
1,800.00	1,800.00	1,796.37	1,796.13	6.25	4.82	-89.58	5.95	-804.02	804.06	793.00	11.06	72.700		
1,900.00	1,900.00	1,899.62	1,899.38	6.61	4.93	-89.63	5.21	-804.50	804.52	793.00	11.52	69.819		
2,000.00	2,000.00	1,997.49	1,997.25	6.96	5.05	-89.69	4.39	-805.01	805.04	793.03	12.01	67.054		
2,100.00	2,099.99	2,108.05	2,107.81	7.31	5.21	174.78	3.58	-804.72	805.63	793.11	12.51	64.382		
2,200.00	2,199.96	2,208.03	2,207.78	7.65	5.37	174.77	3.12	-803.88	807.39	794.38	13.01	62.037		
2,300.00	2,299.86	2,305.90	2,305.65	7.99	5.55	174.75	2.56	-803.28	811.11	797.58	13.53	59.935		
2,399.87	2,399.54	2,406.17	2,405.91	8.34	5.75	174.73	1.80	-802.76	816.66	802.59	14.07	58.027		
2,500.00	2,499.43	2,506.06	2,505.80	8.69	5.96	174.74	1.28	-802.10	822.95	808.32	14.63	56.250		
2,600.00	2,599.19	2,604.54	2,604.28	9.03	6.18	174.75	0.75	-801.63	829.42	814.22	15.20	54.578		
2,700.00	2,698.94	2,704.30	2,704.03	9.39	6.42	174.78	0.60	-801.21	835.94	820.16	15.78	52.981		
2,800.00	2,798.70	2,804.02	2,803.75	9.74	6.66	174.83	0.64	-800.78	842.46	826.09	16.37	51.467		
2,900.00	2,898.46	2,901.50	2,901.24	10.09	6.91	174.89	0.93	-800.46	849.08	832.11	16.96	50.060		
3,000.00	2,998.21	3,000.68	3,000.41	10.45	7.16	174.96	1.38	-800.39	855.96	838.39	17.57	48.730		
3,100.00	3,097.97	3,100.24	3,099.97	10.80	7.43	175.03	1.76	-800.30	862.82	844.64	18.18	47.462		
3,200.00	3,197.73	3,203.31	3,203.04	11.16	7.71	175.09	2.18	-800.09	869.57	850.75	18.81	46.223		
3,300.00	3,297.48	3,302.81	3,302.53	11.52	7.99	175.16	2.60	-799.63	876.06	856.62	19.44	45.057		
3,400.00	3,397.24	3,398.46	3,398.19	11.88	8.26	175.23	3.06	-799.45	882.83	862.76	20.07	43.992		
3,500.00	3,497.00	3,498.90	3,498.63	12.24	8.55	175.29	3.48	-799.49	889.82	869.11	20.71	42.962		
3,600.00	3,596.75	3,597.76	3,597.49	12.60	8.84	175.35	3.84	-799.53	896.81	875.46	21.36	41.994		
3,700.00	3,696.51	3,700.03	3,699.75	12.96	9.15	175.42	4.28	-799.43	903.67	881.66	22.02	41.045		
3,800.00	3,796.27	3,797.20	3,796.92	13.32	9.45	175.47	4.62	-799.39	910.60	887.93	22.66	40.177		
3,900.00	3,896.02	3,897.97	3,897.69	13.68	9.76	175.53	5.05	-799.47	917.63	894.30	23.33	39.335		
4,000.00	3,995.78	4,001.39	4,001.11	14.04	10.08	175.61	5.75	-799.18	924.32	900.31	24.01	38.503		
4,100.00	4,095.54	4,101.68	4,101.40	14.40	10.39	175.69	6.39	-798.72	930.83	906.15	24.68	37.721		
4,200.00	4,195.29	4,202.45	4,202.16	14.77	10.71	175.76	7.01	-798.21	937.28	911.93	25.35	36.970		
4,300.00	4,295.05	4,311.91	4,311.61	15.13	11.06	175.84	7.75	-797.21	943.36	917.30	26.06	36.200		
4,400.00	4,394.81	4,435.42	4,435.07	15.49	11.46	175.92	8.43	-793.78	947.58	920.77	26.81	35.346		
4,500.00	4,494.56	4,557.01	4,556.49	15.86	11.86	175.97	8.44	-787.43	949.32	921.78	27.54	34.467		
4,600.00	4,594.32	4,671.60	4,670.76	16.22	12.23	175.99	8.03	-778.93	948.81	920.55	28.26	33.580		
4,700.00	4,694.08	4,776.84	4,775.67	16.59	12.58	175.96	6.74	-770.56	947.79	918.84	28.95	32.740		
4,800.00	4,793.83	4,886.07	4,884.42	16.95	12.95	175.84	4.00	-760.77	945.70	916.05	29.65	31.895		
4,900.00	4,893.59	4,988.52	4,986.36	17.32	13.30	175.70	1.08	-751.00	943.05	912.70	30.34	31.080		
5,000.00	4,993.35	5,079.77	5,077.19	17.68	13.61	175.60	-1.36	-742.52	940.66	909.64	31.02	30.326		
5,100.00	5,093.10	5,167.15	5,164.25	18.05	13.91	175.51	-3.31	-735.50	939.54	907.85	31.69	29.652		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,157.68	5,150.64	5,220.48	5,217.44	18.26	14.09	175.47	-4.33	-731.69	939.40	907.33	32.08	29.287		
5,200.00	5,192.86	5,259.62	5,256.49	18.42	14.23	175.45	-5.04	-729.05	939.48	907.11	32.36	29.030		
5,300.00	5,292.62	5,361.18	5,357.82	18.78	14.58	175.37	-6.99	-722.48	939.93	906.87	33.06	28.430		
5,400.00	5,392.37	5,480.73	5,476.97	19.15	15.00	175.21	-10.37	-713.36	939.24	905.45	33.80	27.790		
5,500.00	5,492.13	5,587.14	5,582.87	19.52	15.38	175.04	-13.90	-703.58	936.95	902.44	34.51	27.152		
5,600.00	5,591.89	5,688.18	5,683.39	19.88	15.74	174.89	-17.10	-693.95	934.33	899.12	35.21	26.536		
5,700.00	5,691.64	5,790.74	5,785.42	20.25	16.11	174.73	-20.29	-683.95	931.50	895.58	35.92	25.936		
5,800.00	5,791.40	5,893.48	5,887.59	20.62	16.48	174.58	-23.43	-673.64	928.39	891.76	36.62	25.350		
5,900.00	5,891.16	5,995.96	5,989.47	20.98	16.86	174.43	-26.51	-663.02	924.95	887.62	37.33	24.777		
6,000.00	5,990.91	6,094.82	6,087.74	21.35	17.22	174.29	-29.43	-652.67	921.41	883.37	38.04	24.225		
6,100.00	6,090.67	6,190.92	6,183.31	21.72	17.58	174.17	-32.04	-642.91	918.19	879.46	38.74	23.703		
6,200.00	6,190.42	6,288.67	6,280.56	22.09	17.94	174.06	-34.47	-633.37	915.37	875.93	39.44	23.208		
6,300.00	6,290.18	6,388.25	6,379.65	22.45	18.31	173.96	-36.70	-623.72	912.63	872.48	40.15	22.730		
6,400.00	6,389.94	6,492.27	6,483.14	22.82	18.70	173.85	-39.02	-613.55	909.80	868.94	40.87	22.263		
6,500.00	6,489.69	6,598.80	6,589.02	23.19	19.10	173.67	-42.53	-602.37	906.27	864.68	41.59	21.793		
6,600.00	6,589.45	6,700.41	6,689.92	23.56	19.49	173.42	-47.03	-591.19	902.25	859.95	42.30	21.329		
6,700.00	6,689.21	6,799.25	6,788.06	23.93	19.87	173.19	-51.34	-580.32	898.24	855.23	43.02	20.881		
6,800.00	6,788.96	6,897.38	6,885.53	24.29	20.25	172.96	-55.44	-569.68	894.41	850.68	43.73	20.453		
6,900.00	6,888.72	6,994.51	6,982.04	24.66	20.62	172.75	-59.28	-559.40	890.85	846.41	44.44	20.044		
7,000.00	6,988.48	7,095.46	7,082.36	25.03	21.01	172.54	-63.10	-548.83	887.40	842.24	45.16	19.649		
7,100.00	7,088.23	7,192.30	7,178.58	25.40	21.38	172.29	-67.38	-538.79	884.09	838.21	45.88	19.270		
7,200.00	7,187.99	7,292.49	7,278.12	25.77	21.77	172.00	-72.40	-528.50	880.93	834.33	46.60	18.903		
7,300.00	7,287.75	7,392.13	7,377.10	26.14	22.16	171.70	-77.51	-518.27	877.79	830.46	47.33	18.548		
7,400.00	7,387.50	7,492.51	7,476.81	26.50	22.55	171.39	-82.72	-507.95	874.67	826.62	48.05	18.203		
7,500.00	7,487.26	7,594.13	7,577.74	26.87	22.95	171.08	-87.96	-497.35	871.42	822.64	48.78	17.865		
7,600.00	7,587.02	7,694.75	7,677.67	27.24	23.34	170.78	-92.97	-486.71	868.03	818.52	49.51	17.533		
7,700.00	7,686.77	7,794.17	7,776.42	27.61	23.73	170.50	-97.67	-476.20	864.66	814.43	50.23	17.213		
7,800.00	7,786.53	7,895.08	7,876.66	27.98	24.13	170.22	-102.32	-465.56	861.33	810.37	50.96	16.901		
7,900.00	7,886.29	7,996.47	7,977.35	28.35	24.53	169.92	-107.11	-454.61	857.78	806.09	51.70	16.593		
8,000.00	7,986.04	8,096.45	8,076.63	28.72	24.93	169.64	-111.72	-443.77	854.20	801.77	52.43	16.293		
8,100.00	8,085.80	8,196.58	8,176.06	29.09	25.33	169.35	-116.34	-432.90	850.61	797.45	53.16	16.001		
8,200.00	8,185.56	8,294.63	8,273.43	29.46	25.72	169.07	-120.83	-422.29	847.10	793.21	53.89	15.719		
8,300.00	8,285.31	8,393.71	8,371.84	29.83	26.11	168.77	-125.56	-411.78	843.82	789.20	54.62	15.448		
8,400.00	8,385.07	8,494.60	8,472.04	30.20	26.52	168.46	-130.40	-401.04	840.54	785.18	55.36	15.183		
8,500.00	8,484.83	8,595.42	8,572.16	30.56	26.92	168.16	-135.08	-390.18	837.14	781.04	56.10	14.923		
8,600.00	8,584.58	8,694.96	8,671.00	30.93	27.32	167.85	-139.74	-379.42	833.72	776.89	56.83	14.670		
8,700.00	8,684.34	8,794.25	8,769.61	31.30	27.72	167.55	-144.42	-368.73	830.39	772.82	57.57	14.424		
8,800.00	8,784.10	8,893.82	8,868.49	31.67	28.12	167.24	-149.12	-358.07	827.13	768.82	58.31	14.185		
8,900.00	8,883.85	8,988.44	8,962.53	32.04	28.50	166.98	-153.08	-348.33	824.24	765.20	59.04	13.961		
9,000.00	8,983.61	9,076.92	9,050.58	32.41	28.84	166.79	-156.13	-340.22	822.39	762.64	59.75	13.764		
9,094.95	9,078.33	9,162.23	9,135.59	32.76	29.17	166.65	-158.64	-333.53	821.84	761.42	60.42	13.602		
9,100.00	9,083.37	9,166.76	9,140.11	32.78	29.19	166.64	-158.76	-333.21	821.84	761.38	60.45	13.594		
9,200.00	9,183.12	9,266.22	9,239.28	33.15	29.57	166.49	-161.56	-326.13	821.96	760.78	61.18	13.435		
9,300.00	9,282.88	9,367.61	9,340.37	33.52	29.95	166.35	-164.37	-318.84	822.01	760.10	61.91	13.277		
9,302.64	9,285.51	9,370.29	9,343.04	33.53	29.96	166.34	-164.44	-318.65	822.01	760.08	61.93	13.273		
9,400.00	9,382.64	9,465.92	9,438.38	33.89	30.33	166.19	-167.21	-311.82	822.13	759.49	62.64	13.125		
9,428.07	9,410.64	9,494.75	9,467.12	33.99	30.44	166.14	-168.13	-309.75	822.16	759.32	62.85	13.082		
9,500.00	9,482.43	9,567.43	9,539.56	34.26	30.71	165.99	-170.59	-304.40	821.49	758.12	63.38	12.962		
9,600.00	9,582.36	9,662.36	9,634.17	34.62	31.08	165.71	-174.35	-297.56	818.63	754.54	64.09	12.772		
9,694.65	9,677.00	9,747.36	9,718.88	34.95	31.40	-99.18	-178.74	-292.12	814.53	749.78	64.75	12.580		
9,700.00	9,682.35	9,752.40	9,723.90	34.97	31.42	-99.20	-179.04	-291.82	814.27	749.48	64.79	12.568		
9,800.00	9,782.35	9,847.67	9,818.83	35.31	31.78	-99.69	-185.11	-286.42	809.71	744.21	65.50	12.362		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
9,900.00	9,882.35	9,948.95	9,919.66	35.65	32.16	-100.29	-192.68	-280.56	805.29	739.05	66.24	12.158		
10,000.00	9,982.35	10,048.33	10,018.49	35.99	32.54	-100.96	-201.18	-274.57	800.93	733.95	66.98	11.958		
10,044.69	10,027.04	10,093.40	10,063.29	36.14	32.71	-101.29	-205.21	-271.80	798.99	731.68	67.31	11.870		
10,050.00	10,032.35	10,098.75	10,068.61	36.16	32.73	-100.93	-205.69	-271.47	798.76	731.41	67.35	11.859		
10,100.00	10,082.26	10,150.78	10,120.33	36.32	32.94	-101.67	-210.38	-268.16	797.06	729.32	67.74	11.766		
10,150.00	10,131.76	10,202.96	10,172.17	36.49	33.14	-102.64	-215.03	-264.63	796.16	728.02	68.14	11.685		
10,171.05	10,152.38	10,224.56	10,193.64	36.56	33.22	-103.11	-216.95	-263.10	796.06	727.75	68.30	11.655 ES		
10,200.00	10,180.46	10,251.99	10,220.89	36.65	33.33	-103.75	-219.34	-261.15	796.28	727.76	68.53	11.620		
10,250.00	10,227.98	10,299.17	10,267.78	36.81	33.52	-104.95	-223.39	-257.74	797.78	728.85	68.92	11.575		
10,300.00	10,273.98	10,342.98	10,311.31	36.95	33.69	-106.11	-227.05	-254.57	800.94	731.64	69.30	11.557		
10,350.00	10,318.11	10,384.51	10,352.60	37.09	33.85	-107.21	-230.42	-251.62	806.12	736.44	69.68	11.569		
10,400.00	10,360.01	10,423.58	10,391.46	37.21	34.00	-108.17	-233.52	-248.89	813.59	743.54	70.05	11.615		
10,450.00	10,399.38	10,459.91	10,427.59	37.32	34.14	-108.92	-236.36	-246.38	823.61	753.21	70.40	11.699		
10,500.00	10,435.92	10,493.25	10,460.75	37.42	34.27	-109.37	-238.94	-244.11	836.38	765.64	70.73	11.824		
10,550.00	10,469.35	10,527.64	10,494.96	37.51	34.41	-109.71	-241.55	-241.71	851.99	780.92	71.07	11.988		
10,600.00	10,499.41	10,558.26	10,525.41	37.59	34.53	-109.62	-243.81	-239.45	870.47	799.09	71.38	12.195		
10,650.00	10,525.87	10,584.75	10,551.75	37.66	34.63	-109.02	-245.72	-237.40	891.88	820.23	71.65	12.447		
10,700.00	10,548.54	11,622.41	11,239.60	37.74	37.40	-137.22	243.07	-86.94	912.13	851.68	60.45	15.090		
10,750.00	10,567.24	11,669.77	11,240.79	37.84	37.50	-137.25	290.37	-88.97	900.04	838.93	61.11	14.729		
10,800.00	10,581.83	11,714.46	11,241.61	37.97	37.61	-137.20	334.98	-91.47	891.33	829.61	61.72	14.441		
10,850.00	10,592.19	11,760.90	11,242.00	38.11	37.75	-137.03	381.31	-94.59	886.08	823.81	62.27	14.229		
10,900.00	10,598.26	11,818.09	11,242.22	38.25	37.96	-136.71	438.37	-98.58	883.91	821.08	62.84	14.066		
10,914.01	10,599.18	11,834.20	11,242.19	38.30	38.02	-136.63	454.43	-99.66	883.81	820.82	62.98	14.032		
10,944.69	10,600.00	11,866.35	11,242.04	38.39	38.16	-136.45	486.52	-101.80	884.35	821.09	63.26	13.979		
11,000.00	10,600.00	11,919.69	11,241.61	38.56	38.41	-136.27	539.71	-105.61	886.48	822.75	63.73	13.911		
11,100.00	10,600.00	12,016.21	11,240.35	38.91	38.94	-135.89	635.91	-113.39	890.63	825.96	64.67	13.772		
11,200.00	10,600.00	12,123.87	11,238.93	39.31	39.63	-135.47	743.23	-121.90	894.72	828.88	65.83	13.590		
11,300.00	10,600.00	12,218.44	11,238.59	39.76	40.33	-135.21	837.61	-127.96	898.45	831.57	66.89	13.432		
11,400.00	10,600.00	12,339.36	11,238.71	40.25	41.33	-134.98	958.37	-134.02	901.57	833.24	68.33	13.194		
11,500.00	10,600.00	12,438.99	11,239.76	40.79	42.26	-134.94	1,057.95	-136.71	903.71	834.18	69.53	12.997		
11,600.00	10,600.00	12,545.55	11,240.87	41.37	43.33	-134.96	1,164.49	-138.26	904.94	834.07	70.87	12.769		
11,700.00	10,600.00	12,641.93	11,242.73	41.99	44.35	-135.04	1,260.85	-139.00	906.32	834.23	72.09	12.572		
11,800.00	10,600.00	12,743.84	11,245.35	42.65	45.49	-135.18	1,362.73	-139.22	907.78	834.35	73.43	12.362		
11,900.00	10,600.00	12,838.26	11,247.82	43.35	46.60	-135.32	1,457.11	-139.19	909.12	834.41	74.70	12.170		
12,000.00	10,600.00	12,932.20	11,251.07	44.09	47.74	-135.46	1,551.00	-140.04	911.69	835.67	76.02	11.993		
12,100.00	10,600.00	13,039.99	11,253.80	44.86	49.10	-135.56	1,658.74	-141.32	913.81	836.13	77.68	11.764		
12,200.00	10,600.00	13,151.99	11,254.78	45.67	50.55	-135.56	1,770.72	-143.01	914.98	835.44	79.54	11.503		
12,300.00	10,600.00	13,244.46	11,254.60	46.50	51.79	-135.51	1,863.18	-144.64	915.58	834.48	81.11	11.289		
12,400.00	10,600.00	13,363.96	11,253.99	47.37	53.44	-135.41	1,982.65	-147.10	916.23	832.90	83.33	10.996		
12,500.00	10,600.00	13,460.02	11,252.23	48.26	54.80	-135.29	2,078.67	-148.71	915.58	830.46	85.12	10.757		
12,528.06	10,600.00	13,483.89	11,251.78	48.52	55.14	-135.26	2,102.53	-149.27	915.52	829.96	85.57	10.700		
12,600.00	10,600.00	13,545.90	11,250.75	49.18	56.04	-135.15	2,164.51	-151.24	915.91	829.17	86.75	10.559		
12,700.00	10,600.00	13,643.49	11,249.32	50.13	57.47	-134.94	2,262.00	-155.12	917.17	828.45	88.72	10.337		
12,800.00	10,600.00	13,739.40	11,247.80	51.10	58.91	-134.71	2,357.81	-159.47	918.75	828.02	90.73	10.127		
12,900.00	10,600.00	13,846.91	11,245.52	52.09	60.54	-134.42	2,465.17	-164.62	920.16	827.05	93.11	9.882		
13,000.00	10,600.00	13,927.23	11,244.89	53.10	61.78	-134.26	2,545.40	-168.38	922.39	827.63	94.76	9.734		
13,100.00	10,600.00	14,032.91	11,245.48	54.14	63.42	-134.13	2,650.98	-172.80	925.25	828.20	97.05	9.534		
13,200.00	10,600.00	14,125.00	11,246.30	55.19	64.88	-134.03	2,742.99	-176.56	928.27	829.29	98.99	9.378		
13,300.00	10,600.00	14,224.95	11,247.61	56.26	66.48	-133.93	2,842.84	-180.93	931.80	830.63	101.17	9.210		
13,400.00	10,600.00	14,354.93	11,248.03	57.35	68.58	-133.83	2,972.76	-184.59	933.51	829.34	104.17	8.962		
13,500.00	10,600.00	14,473.37	11,246.75	58.45	70.51	-133.79	3,091.19	-185.08	932.51	825.69	106.82	8.730		
13,600.00	10,600.00	14,569.40	11,244.82	59.57	72.10	-133.73	3,187.20	-185.25	930.72	821.76	108.96	8.542		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,660.26	11,243.25	60.71	73.61	-133.65	3,278.04	-186.27	929.81	818.80	111.01	8.376	
13,737.75	10,600.00	14,694.22	11,242.68	61.14	74.17	-133.60	3,311.98	-186.96	929.72	817.93	111.79	8.317	
13,800.00	10,600.00	14,749.16	11,242.18	61.85	75.09	-133.55	3,366.92	-188.14	929.97	816.93	113.04	8.227	
13,900.00	10,600.00	14,845.20	11,242.40	63.01	76.71	-133.50	3,462.93	-190.16	931.11	815.89	115.22	8.081	
14,000.00	10,600.00	14,944.63	11,242.90	64.18	78.40	-133.47	3,562.34	-192.10	932.34	814.85	117.49	7.935	
14,100.00	10,600.00	15,046.11	11,243.96	65.37	80.13	-133.49	3,663.80	-193.55	933.57	813.77	119.79	7.793	
14,200.00	10,600.00	15,147.02	11,244.48	66.56	81.85	-133.47	3,764.69	-195.26	934.62	812.49	122.13	7.652	
14,300.00	10,600.00	15,253.74	11,244.97	67.76	83.69	-133.47	3,871.41	-196.59	935.31	810.68	124.63	7.505	
14,400.00	10,600.00	15,344.12	11,245.80	68.98	85.26	-133.50	3,961.78	-197.50	936.14	809.49	126.65	7.392	
14,500.00	10,600.00	15,455.04	11,247.41	70.20	87.18	-133.58	4,072.68	-197.96	936.91	807.72	129.19	7.252	
14,600.00	10,600.00	15,557.76	11,248.61	71.43	88.98	-133.69	4,175.39	-197.46	936.83	805.36	131.47	7.126	
14,617.91	10,600.00	15,574.46	11,248.76	71.65	89.27	-133.70	4,192.09	-197.42	936.82	804.97	131.84	7.106	
14,700.00	10,600.00	15,652.66	11,249.56	72.67	90.64	-133.76	4,270.29	-197.54	937.04	803.45	133.60	7.014	
14,800.00	10,600.00	15,753.32	11,249.93	73.92	92.41	-133.77	4,370.94	-198.44	937.42	801.45	135.97	6.894	
14,900.00	10,600.00	15,851.22	11,249.79	75.17	94.14	-133.73	4,468.83	-199.80	937.79	799.46	138.33	6.779	
15,000.00	10,600.00	15,948.19	11,249.56	76.44	95.86	-133.66	4,565.78	-201.90	938.66	797.93	140.73	6.670	
15,100.00	10,600.00	16,051.53	11,248.27	77.70	97.70	-133.52	4,669.07	-204.83	939.32	795.88	143.44	6.549	
15,200.00	10,600.00	16,134.00	11,246.86	78.98	99.17	-133.37	4,751.49	-207.38	940.02	794.49	145.53	6.459 SF	
15,300.00	10,600.00	16,134.00	11,246.86	80.26	99.17	-133.37	4,751.49	-207.38	947.71	803.49	144.22	6.571	
15,400.00	10,600.00	16,134.00	11,246.86	81.55	99.17	-133.37	4,751.49	-207.38	965.75	823.91	141.85	6.809	
15,484.47	10,600.00	16,134.00	11,246.86	82.64	99.17	-133.37	4,751.49	-207.38	988.65	849.50	139.15	7.105	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	89.59	7.24	1,017.49	1,017.66					
100.00	100.00	93.72	93.72	0.52	0.14	89.58	7.46	1,017.00	1,017.08	1,016.43	0.65	1,558.529		
200.00	200.00	197.58	197.57	0.70	0.44	89.54	8.18	1,015.68	1,015.82	1,014.67	1.14	887.730		
300.00	300.00	303.99	303.95	0.99	0.82	89.48	9.12	1,013.79	1,014.05	1,012.24	1.81	559.818		
400.00	400.00	398.06	398.01	1.31	1.16	89.43	10.16	1,012.13	1,012.29	1,009.82	2.47	409.835		
500.00	500.00	490.06	490.00	1.65	1.49	89.37	11.14	1,011.12	1,011.21	1,008.07	3.14	322.478		
600.00	600.00	584.92	584.85	1.99	1.83	89.32	12.02	1,010.73	1,010.80	1,006.98	3.82	264.797		
647.25	647.25	630.32	630.25	2.15	1.99	89.30	12.42	1,010.69	1,010.76	1,006.62	4.14	244.032		
700.00	700.00	681.56	681.49	2.34	2.17	89.27	12.83	1,010.72	1,010.80	1,006.30	4.51	224.350		
800.00	800.00	778.70	778.62	2.69	2.51	89.24	13.47	1,010.99	1,011.09	1,005.90	5.20	194.575		
900.00	900.00	876.69	876.61	3.04	2.85	89.20	14.15	1,011.51	1,011.63	1,005.74	5.89	171.718		
1,000.00	1,000.00	979.12	979.04	3.40	3.21	89.16	14.86	1,012.05	1,012.17	1,005.56	6.61	153.243		
1,100.00	1,100.00	1,085.06	1,084.98	3.75	3.59	89.13	15.40	1,012.09	1,012.21	1,004.87	7.34	137.973		
1,200.00	1,200.00	1,184.92	1,184.83	4.11	3.94	89.11	15.78	1,011.88	1,012.01	1,003.96	8.05	125.734		
1,300.00	1,300.00	1,284.78	1,284.69	4.46	4.30	89.08	16.24	1,011.73	1,011.86	1,003.10	8.76	115.485		
1,400.00	1,400.00	1,385.46	1,385.37	4.82	4.66	89.06	16.60	1,011.50	1,011.64	1,002.16	9.48	106.733		
1,500.00	1,500.00	1,485.46	1,485.37	5.18	5.02	89.03	17.12	1,011.26	1,011.41	1,001.21	10.19	99.230		
1,600.00	1,600.00	1,586.95	1,586.85	5.53	5.38	88.99	17.88	1,010.95	1,011.12	1,000.20	10.91	92.653		
1,700.00	1,700.00	1,686.49	1,686.39	5.89	5.74	88.92	19.05	1,010.55	1,010.74	999.11	11.63	86.932		
1,800.00	1,800.00	1,785.68	1,785.57	6.25	6.09	88.83	20.63	1,010.23	1,010.44	998.10	12.34	81.887		
1,900.00	1,900.00	1,884.23	1,884.10	6.61	6.45	88.74	22.25	1,010.02	1,010.26	997.21	13.05	77.414		
2,000.00	2,000.00	1,984.18	1,984.04	6.96	6.81	88.66	23.62	1,009.88	1,010.16	996.39	13.77	73.382		
2,100.00	2,099.99	2,084.18	2,084.04	7.31	7.16	-8.89	24.76	1,009.75	1,009.19	994.72	14.47	69.736		
2,200.00	2,199.96	2,184.79	2,184.64	7.65	7.52	-6.98	25.91	1,009.58	1,006.45	991.28	15.17	66.338		
2,300.00	2,299.86	2,284.00	2,283.85	7.99	7.88	-7.08	27.03	1,009.43	1,002.00	986.13	15.87	63.146		
2,399.87	2,399.54	2,384.69	2,384.52	8.34	8.24	-7.20	28.20	1,009.25	995.81	979.24	16.57	60.095		
2,500.00	2,499.43	2,485.85	2,485.68	8.69	8.60	-7.32	29.46	1,008.94	988.62	971.34	17.28	57.221		
2,600.00	2,599.19	2,586.76	2,586.58	9.03	8.97	-7.45	30.79	1,008.51	981.31	963.33	17.98	54.568		
2,700.00	2,698.94	2,687.53	2,687.34	9.39	9.33	-7.59	32.23	1,007.95	973.90	955.21	18.69	52.107		
2,800.00	2,798.70	2,788.51	2,788.30	9.74	9.69	-7.75	33.94	1,007.27	966.38	946.98	19.40	49.815		
2,900.00	2,898.46	2,888.32	2,888.08	10.09	10.05	-7.94	36.18	1,006.46	958.75	938.64	20.11	47.686		
3,000.00	2,998.21	2,987.57	2,987.30	10.45	10.41	-8.14	38.53	1,005.71	951.20	930.38	20.81	45.706		
3,100.00	3,097.97	3,086.45	3,086.15	10.80	10.76	-8.35	40.96	1,004.99	943.69	922.17	21.52	43.858		
3,200.00	3,197.73	3,184.15	3,183.82	11.16	11.11	-8.56	43.30	1,004.42	936.34	914.12	22.22	42.141		
3,300.00	3,297.48	3,281.74	3,281.38	11.52	11.46	-8.77	45.67	1,004.09	929.23	906.31	22.92	40.540		
3,400.00	3,397.24	3,380.05	3,379.66	11.88	11.82	-8.98	48.09	1,003.94	922.33	898.71	23.63	39.037		
3,500.00	3,497.00	3,479.06	3,478.64	12.24	12.17	-9.20	50.52	1,003.89	915.56	891.22	24.34	37.622		
3,600.00	3,596.75	3,578.64	3,578.18	12.60	12.53	-9.43	52.97	1,003.89	908.84	883.79	25.05	36.286		
3,700.00	3,696.51	3,678.04	3,677.56	12.96	12.89	-9.66	55.42	1,003.91	902.16	876.40	25.76	35.025		
3,800.00	3,796.27	3,777.53	3,777.02	13.32	13.24	-9.88	57.79	1,003.97	895.52	869.05	26.47	33.832		
3,900.00	3,896.02	3,878.73	3,878.20	13.68	13.61	-10.09	59.80	1,003.99	888.83	861.64	27.19	32.693		
4,000.00	3,995.78	3,980.27	3,979.73	14.04	13.97	-10.26	61.23	1,003.85	881.93	854.03	27.91	31.605		
4,100.00	4,095.54	4,079.55	4,079.01	14.40	14.33	-10.41	62.25	1,003.68	874.99	846.38	28.62	30.576		
4,200.00	4,195.29	4,179.11	4,178.56	14.77	14.68	-10.55	63.01	1,003.58	868.11	838.78	29.33	29.599		
4,300.00	4,295.05	4,279.84	4,279.29	15.13	15.04	-10.66	63.47	1,003.47	861.18	831.13	30.04	28.663		
4,400.00	4,394.81	4,380.37	4,379.82	15.49	15.40	-10.78	63.89	1,003.20	854.10	823.34	30.76	27.767		
4,500.00	4,494.56	4,474.70	4,474.15	15.86	15.73	-10.88	64.14	1,003.10	847.18	815.73	31.45	26.937		
4,600.00	4,494.32	4,562.58	4,562.02	16.22	16.03	-10.92	63.64	1,004.13	841.44	809.33	32.11	26.205		
4,700.00	4,694.08	4,652.92	4,652.31	16.59	16.34	-10.89	62.24	1,006.53	837.08	804.31	32.77	25.544		
4,800.00	4,793.83	4,747.11	4,746.43	16.95	16.65	-10.81	60.11	1,009.74	833.41	799.98	33.43	24.928		
4,900.00	4,893.59	4,834.11	4,833.28	17.32	16.93	-10.67	57.38	1,013.85	830.98	796.92	34.06	24.396		
5,000.00	4,993.35	4,922.11	4,921.03	17.68	17.22	-10.48	53.93	1,019.48	830.14	795.44	34.69	23.928		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)							
5,100.00	5,093.10	5,021.01	5,019.62	18.05	17.55	-10.26	50.13	1,026.48	830.01	794.63	35.38	23.463						
5,200.00	5,192.86	5,122.13	5,120.42	18.42	17.89	-10.08	46.86	1,033.69	829.99	793.92	36.07	23.010						
5,300.00	5,292.62	5,230.54	5,228.57	18.78	18.26	-9.94	44.02	1,040.58	829.25	792.44	36.81	22.531						
5,400.00	5,392.37	5,336.18	5,334.03	19.15	18.62	-9.83	41.66	1,046.41	827.71	790.18	37.53	22.057						
5,500.00	5,492.13	5,438.79	5,436.49	19.52	18.97	-9.75	39.59	1,051.51	825.64	787.41	38.23	21.594						
5,600.00	5,591.89	5,539.85	5,537.42	19.88	19.32	-9.67	37.63	1,056.33	823.38	784.44	38.94	21.146						
5,700.00	5,691.64	5,640.97	5,638.42	20.25	19.67	-9.60	35.78	1,061.01	820.98	781.34	39.64	20.710						
5,800.00	5,791.40	5,742.25	5,739.57	20.62	20.02	-9.54	34.01	1,065.51	818.41	778.06	40.35	20.284						
5,900.00	5,891.16	5,840.58	5,837.79	20.98	20.36	-9.48	32.31	1,069.94	815.89	774.85	41.04	19.880						
6,000.00	5,990.91	5,940.55	5,937.64	21.35	20.70	-9.42	30.64	1,074.54	813.49	771.75	41.74	19.488						
6,100.00	6,090.67	6,041.91	6,038.89	21.72	21.05	-9.37	29.06	1,079.09	810.98	768.53	42.45	19.104						
6,200.00	6,190.42	6,143.49	6,140.37	22.09	21.41	-9.32	27.61	1,083.46	808.29	765.13	43.16	18.727						
6,300.00	6,290.18	6,245.26	6,242.04	22.45	21.76	-9.30	26.35	1,087.60	805.38	761.50	43.87	18.357						
6,400.00	6,389.94	6,346.72	6,343.42	22.82	22.12	-9.28	25.26	1,091.50	802.26	757.68	44.59	17.994						
6,500.00	6,489.69	6,447.34	6,443.97	23.19	22.47	-9.27	24.17	1,095.22	798.99	753.70	45.29	17.640						
6,600.00	6,589.45	6,548.66	6,545.21	23.56	22.82	-9.25	23.10	1,098.88	795.64	749.64	46.01	17.295						
6,700.00	6,689.21	6,650.47	6,646.96	23.93	23.18	-9.26	22.22	1,102.31	792.06	745.34	46.72	16.954						
6,800.00	6,788.96	6,752.91	6,749.35	24.29	23.54	-9.27	21.40	1,105.48	788.21	740.78	47.44	16.616						
6,900.00	6,888.72	6,853.08	6,849.48	24.66	23.89	-9.28	20.64	1,108.38	784.16	736.01	48.14	16.288						
7,000.00	6,988.48	6,956.28	6,952.63	25.03	24.25	-9.29	19.85	1,111.17	779.92	731.05	48.86	15.961						
7,100.00	7,088.23	7,056.47	7,052.78	25.40	24.60	-9.31	19.05	1,113.64	775.44	725.87	49.57	15.643						
7,200.00	7,187.99	7,159.02	7,155.31	25.77	24.96	-9.32	18.20	1,115.96	770.76	720.47	50.29	15.327						
7,300.00	7,287.75	7,260.69	7,256.95	26.14	25.32	-9.33	17.30	1,117.96	765.77	714.77	51.00	15.015						
7,400.00	7,387.50	7,361.03	7,357.27	26.50	25.67	-9.31	16.11	1,119.82	760.66	708.95	51.71	14.710						
7,500.00	7,487.26	7,461.64	7,457.85	26.87	26.01	-9.27	14.53	1,121.64	755.48	703.06	52.42	14.413						
7,600.00	7,587.02	7,562.16	7,558.34	27.24	26.36	-9.21	12.71	1,123.34	750.16	697.04	53.12	14.121						
7,700.00	7,686.77	7,661.34	7,657.49	27.61	26.71	-9.13	10.67	1,125.06	744.88	691.05	53.83	13.838						
7,800.00	7,786.53	7,760.42	7,756.52	27.98	27.05	-9.03	8.37	1,126.89	739.69	685.16	54.53	13.565						
7,900.00	7,886.29	7,859.70	7,855.75	28.35	27.39	-8.91	5.90	1,128.84	734.61	679.37	55.23	13.300						
8,000.00	7,986.04	7,959.06	7,955.05	28.72	27.74	-8.76	3.06	1,130.88	729.59	673.65	55.94	13.043						
8,100.00	8,085.80	8,059.32	8,055.24	29.09	28.09	-8.60	0.04	1,132.97	724.61	667.96	56.65	12.792						
8,200.00	8,185.56	8,161.06	8,156.91	29.46	28.44	-8.42	-3.20	1,134.94	719.47	662.12	57.36	12.544						
8,300.00	8,285.31	8,260.70	8,256.47	29.83	28.79	-8.21	-6.72	1,136.71	714.17	656.11	58.06	12.300						
8,400.00	8,385.07	8,359.95	8,355.64	30.20	29.13	-7.97	-10.51	1,138.58	708.97	650.21	58.77	12.064						
8,500.00	8,484.83	8,459.57	8,455.16	30.56	29.48	-7.73	-14.34	1,140.51	703.84	644.37	59.47	11.835						
8,600.00	8,584.58	8,559.35	8,554.85	30.93	29.83	-7.49	-18.15	1,142.46	698.74	638.56	60.18	11.611						
8,700.00	8,684.34	8,659.77	8,655.18	31.30	30.18	-7.24	-22.01	1,144.38	693.61	632.72	60.89	11.392						
8,800.00	8,784.10	8,759.93	8,755.24	31.67	30.53	-6.99	-25.81	1,146.23	688.42	626.83	61.59	11.177						
8,900.00	8,883.85	8,860.20	8,855.44	32.04	30.88	-6.76	-29.39	1,148.03	683.21	620.90	62.30	10.966						
9,000.00	8,983.61	8,961.90	8,957.07	32.41	31.24	-6.56	-32.53	1,149.66	677.81	614.80	63.02	10.756						
9,100.00	9,083.37	9,063.47	9,058.59	32.78	31.59	-6.37	-35.61	1,151.01	672.16	608.44	63.73	10.547						
9,200.00	9,183.12	9,166.51	9,161.57	33.15	31.95	-6.13	-39.09	1,152.08	666.22	601.78	64.44	10.338						
9,300.00	9,282.88	9,269.14	9,264.14	33.52	32.31	-5.91	-42.41	1,152.47	659.64	594.49	65.15	10.125						
9,400.00	9,382.64	9,367.56	9,362.50	33.89	32.65	-5.67	-45.86	1,152.83	653.04	587.19	65.86	9.916						
9,428.07	9,410.64	9,394.97	9,389.89	33.99	32.74	-5.60	-46.87	1,152.97	651.24	585.19	66.05	9.859						
9,500.00	9,482.43	9,465.09	9,459.95	34.26	32.99	-5.37	-49.79	1,153.47	647.43	580.87	66.56	9.727						
9,600.00	9,582.36	9,562.64	9,557.36	34.62	33.33	-4.93	-54.99	1,154.46	644.71	577.44	67.26	9.585						
9,642.09	9,624.44	9,603.98	9,598.63	34.76	33.47	-4.74	-57.25	1,154.98	644.45	576.90	67.55	9.540						
9,694.65	9,677.00	9,662.08	9,656.64	34.95	33.68	-4.02	-60.47	1,155.48	644.59	576.66	67.93	9.489						
9,700.00	9,682.35	9,667.99	9,662.54	34.97	33.70	-4.02	-60.80	1,155.50	644.62	576.65	67.97	9.484						
9,800.00	9,782.35	9,777.75	9,772.11	35.31	34.08	-3.62	-67.19	1,155.00	644.29	575.63	68.67	9.383						
9,900.00	9,882.35	9,876.77	9,870.96	35.65	34.42	-3.18	-72.77	1,153.78	643.24	573.89	69.36	9.275						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,000.00	9,982.35	9,974.56	9,968.64	35.99	34.76	92.54	-77.44	1,152.92	642.55	572.51	70.05	9.173		
10,019.26	10,001.61	9,993.41	9,987.47	36.05	34.83	92.61	-78.24	1,152.79	642.46	572.28	70.18	9.155 CC		
10,044.69	10,027.04	10,013.11	10,007.15	36.14	34.90	92.68	-79.08	1,152.81	642.53	572.18	70.35	9.133		
10,050.00	10,032.35	10,017.63	10,011.67	36.16	34.91	93.12	-79.27	1,152.83	642.55	572.17	70.38	9.129		
10,100.00	10,082.26	10,060.10	10,054.10	36.32	35.06	93.40	-81.00	1,153.23	643.28	572.57	70.71	9.097		
10,150.00	10,131.76	10,109.12	10,103.08	36.49	35.23	94.03	-82.87	1,154.06	644.71	573.65	71.05	9.074		
10,200.00	10,180.46	10,159.75	10,153.68	36.65	35.41	95.00	-84.51	1,154.78	646.47	575.08	71.39	9.055		
10,250.00	10,227.98	10,206.65	10,200.55	36.81	35.58	96.15	-85.86	1,155.37	648.87	577.15	71.71	9.048		
10,300.00	10,273.98	10,251.63	10,245.51	36.95	35.74	97.44	-87.14	1,155.96	652.30	580.27	72.03	9.056		
10,350.00	10,318.11	10,293.18	10,287.04	37.09	35.88	98.74	-88.31	1,156.58	657.14	584.81	72.33	9.085		
10,400.00	10,360.01	10,332.22	10,326.06	37.21	36.02	99.98	-89.41	1,157.29	663.80	591.18	72.63	9.140		
10,450.00	10,399.38	10,369.46	10,363.28	37.32	36.15	101.13	-90.44	1,158.08	672.61	599.69	72.91	9.225		
10,500.00	10,435.92	10,404.74	10,398.54	37.42	36.28	102.09	-91.41	1,158.86	683.79	610.60	73.19	9.342		
10,550.00	10,469.35	10,436.89	10,430.66	37.51	36.39	102.73	-92.28	1,159.59	697.60	624.14	73.46	9.496		
10,600.00	10,499.41	10,465.66	10,459.41	37.59	36.50	102.97	-93.04	1,160.26	714.23	640.51	73.72	9.688		
10,650.00	10,525.87	10,493.06	10,486.81	37.66	36.56	102.86	-93.71	1,160.90	733.75	659.81	73.94	9.923		
10,700.00	10,548.54	10,517.84	10,511.58	37.74	36.61	102.28	-94.15	1,161.46	756.11	681.97	74.14	10.199		
10,750.00	10,567.24	10,538.69	10,532.42	37.84	36.64	101.07	-94.40	1,161.91	781.23	706.90	74.32	10.511		
10,800.00	10,581.83	11,124.49	11,015.80	37.97	36.85	127.49	175.95	1,146.84	808.49	742.89	65.60	12.324		
10,850.00	10,592.19	11,258.71	11,070.56	38.11	37.15	129.04	297.89	1,138.73	813.16	748.99	64.17	12.672		
10,900.00	10,598.26	11,428.99	11,097.35	38.25	37.79	129.45	465.47	1,134.21	812.27	748.52	63.76	12.740		
10,933.85	10,599.90	11,471.52	11,099.57	38.35	38.00	129.54	507.92	1,133.02	811.82	747.88	63.94	12.697		
10,944.69	10,600.00	11,485.13	11,100.21	38.39	38.06	129.58	521.51	1,132.58	811.87	747.88	63.98	12.688		
11,000.00	10,600.00	11,546.02	11,102.84	38.56	38.39	129.80	582.29	1,130.28	812.09	747.86	64.23	12.644		
11,100.00	10,600.00	11,645.48	11,107.39	38.91	39.00	130.21	681.56	1,125.95	812.26	747.54	64.71	12.551		
11,200.00	10,600.00	11,758.86	11,112.05	39.31	39.79	130.67	794.71	1,120.53	811.86	746.52	65.34	12.426		
11,300.00	10,600.00	11,853.28	11,115.27	39.76	40.53	131.02	888.97	1,115.90	810.93	744.90	66.03	12.281		
11,400.00	10,600.00	11,951.92	11,119.61	40.25	41.38	131.46	987.37	1,110.71	810.42	743.64	66.79	12.135		
11,500.00	10,600.00	12,056.91	11,123.11	40.79	42.36	131.85	1,092.17	1,105.58	809.53	741.83	67.69	11.959		
11,600.00	10,600.00	12,151.00	11,125.08	41.37	43.29	132.08	1,186.18	1,102.28	808.86	740.16	68.70	11.773		
11,658.75	10,600.00	12,207.23	11,126.07	41.73	43.88	132.18	1,242.39	1,100.85	808.77	739.41	69.37	11.659		
11,700.00	10,600.00	12,246.95	11,126.72	41.99	44.30	132.24	1,282.10	1,100.03	808.81	738.97	69.85	11.580		
11,800.00	10,600.00	12,343.27	11,128.45	42.65	45.37	132.38	1,378.38	1,098.27	809.21	738.13	71.08	11.385		
11,900.00	10,600.00	12,443.74	11,130.89	43.35	46.53	132.56	1,478.80	1,096.48	810.09	737.70	72.38	11.192		
12,000.00	10,600.00	12,562.33	11,131.31	44.09	47.97	132.64	1,597.37	1,094.42	809.60	735.63	73.96	10.946		
12,100.00	10,600.00	12,678.51	11,128.13	44.86	49.43	132.54	1,713.48	1,092.09	806.80	731.07	75.72	10.655		
12,200.00	10,600.00	12,781.63	11,124.18	45.67	50.79	132.43	1,816.49	1,089.35	802.79	725.33	77.46	10.364		
12,300.00	10,600.00	12,878.95	11,121.53	46.50	52.10	132.43	1,913.71	1,085.84	798.83	719.70	79.13	10.095		
12,400.00	10,600.00	12,972.86	11,120.77	47.37	53.41	132.56	2,007.52	1,081.50	795.41	714.69	80.72	9.854		
12,500.00	10,600.00	13,074.96	11,121.01	48.26	54.86	132.80	2,109.48	1,076.21	792.30	709.96	82.35	9.621		
12,600.00	10,600.00	13,174.03	11,121.38	49.18	56.31	133.05	2,208.40	1,070.83	789.12	705.14	83.98	9.397		
12,700.00	10,600.00	13,281.47	11,121.67	50.13	57.91	133.35	2,315.64	1,064.29	785.39	699.72	85.67	9.168		
12,800.00	10,600.00	13,380.98	11,122.05	51.10	59.42	133.67	2,414.93	1,057.63	781.32	694.02	87.31	8.949		
12,900.00	10,600.00	13,480.85	11,122.62	52.09	60.96	134.01	2,514.55	1,050.75	777.28	688.33	88.95	8.738		
13,000.00	10,600.00	13,580.51	11,123.16	53.10	62.52	134.35	2,613.98	1,043.98	773.30	682.69	90.61	8.534		
13,100.00	10,600.00	13,679.82	11,123.85	54.14	64.10	134.71	2,713.05	1,037.04	769.33	677.06	92.27	8.338		
13,200.00	10,600.00	13,773.30	11,123.81	55.19	65.59	134.96	2,806.37	1,031.63	765.73	671.73	94.00	8.146		
13,300.00	10,600.00	13,864.91	11,123.66	56.26	67.07	135.10	2,897.92	1,028.10	763.38	667.57	95.82	7.967		
13,400.00	10,600.00	13,960.73	11,123.30	57.35	68.62	135.19	2,993.69	1,025.40	761.65	663.89	97.76	7.791		
13,500.00	10,600.00	14,062.72	11,123.19	58.45	70.29	135.27	3,095.65	1,023.08	760.50	660.71	99.79	7.621		
13,600.00	10,600.00	14,175.42	11,121.98	59.57	72.16	135.36	3,208.28	1,019.35	757.91	655.97	101.93	7.435		
13,700.00	10,600.00	14,286.72	11,119.56	60.71	74.02	135.45	3,319.45	1,014.56	753.86	649.78	104.08	7.243		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,392.58	11,115.76	61.85	75.81	135.46	3,425.14	1,009.68	748.58	642.31	106.27	7.044	
13,900.00	10,600.00	14,498.94	11,111.27	63.01	77.62	135.47	3,531.26	1,004.30	742.54	634.05	108.49	6.844	
14,000.00	10,600.00	14,607.31	11,106.14	64.18	79.48	135.52	3,639.31	997.72	735.41	624.72	110.70	6.643	
14,100.00	10,600.00	14,709.24	11,100.61	65.37	81.25	135.55	3,740.87	990.99	727.43	614.54	112.89	6.444	
14,200.00	10,600.00	14,800.81	11,096.77	66.56	82.85	135.67	3,832.12	984.36	719.89	604.97	114.92	6.264	
14,300.00	10,600.00	14,886.75	11,094.53	67.76	84.35	135.83	3,917.84	978.81	714.03	597.15	116.87	6.109	
14,400.00	10,600.00	14,976.38	11,093.49	68.98	85.92	136.01	4,007.34	974.08	710.01	591.19	118.81	5.976	
14,500.00	10,600.00	15,083.29	11,092.31	70.20	87.80	136.23	4,114.09	968.32	705.98	585.14	120.84	5.842	
14,600.00	10,600.00	15,183.52	11,091.10	71.43	89.58	136.48	4,214.12	962.22	701.41	578.62	122.79	5.712	
14,700.00	10,600.00	15,281.42	11,090.47	72.67	91.32	136.76	4,311.84	956.17	697.19	572.53	124.66	5.593	
14,800.00	10,600.00	15,384.59	11,089.95	73.92	93.16	137.10	4,414.78	949.32	692.79	566.30	126.49	5.477	
14,900.00	10,600.00	15,486.05	11,089.36	75.17	94.98	137.47	4,515.97	942.00	687.97	559.71	128.26	5.364	
15,000.00	10,600.00	15,583.68	11,089.01	76.44	96.74	137.85	4,613.33	934.81	683.23	553.26	129.96	5.257	
15,100.00	10,600.00	15,679.18	11,089.43	77.70	98.47	138.27	4,708.57	927.72	679.07	547.51	131.57	5.161	
15,171.83	10,600.00	15,725.00	11,089.77	78.62	99.30	138.48	4,754.27	924.36	676.81	544.23	132.58	5.105 ES	
15,200.00	10,600.00	15,725.00	11,089.77	78.98	99.30	138.48	4,754.27	924.36	677.40	544.65	132.75	5.103 SF	
15,300.00	10,600.00	15,725.00	11,089.77	80.26	99.30	138.48	4,754.27	924.36	688.84	556.68	132.17	5.212	
15,400.00	10,600.00	15,725.00	11,089.77	81.55	99.30	138.48	4,754.27	924.36	714.24	584.32	129.92	5.497	
15,484.47	10,600.00	15,725.00	11,089.77	82.64	99.30	138.48	4,754.27	924.36	745.53	618.44	127.09	5.866	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
0.00	0.00	0.00	0.00	0.50	0.00	85.93	164.65	2,316.13	2,322.08							
100.00	100.00	91.61	91.61	0.52	0.13	85.94	164.34	2,315.89	2,321.75	2,321.10	0.65	3,567.144				
200.00	200.00	214.92	214.91	0.70	0.49	85.97	163.02	2,314.68	2,320.70	2,319.51	1.20	1,938.487				
300.00	300.00	319.16	319.12	0.99	0.87	86.01	161.28	2,312.90	2,318.88	2,317.02	1.86	1,248.402				
400.00	400.00	413.29	413.22	1.31	1.21	86.05	159.49	2,311.46	2,317.23	2,314.71	2.52	920.215				
500.00	500.00	506.58	506.49	1.65	1.55	86.09	157.71	2,310.30	2,315.85	2,312.66	3.19	725.714				
600.00	600.00	612.04	611.92	1.99	1.93	86.14	155.82	2,309.14	2,314.64	2,310.73	3.92	591.158				
700.00	700.00	708.61	708.47	2.34	2.28	86.17	154.33	2,307.90	2,313.25	2,308.64	4.61	501.596				
800.00	800.00	808.37	808.22	2.69	2.64	86.21	152.99	2,306.69	2,311.96	2,306.64	5.32	434.565				
900.00	900.00	909.21	909.05	3.04	3.00	86.22	152.23	2,305.40	2,310.63	2,304.60	6.03	382.965				
1,000.00	1,000.00	1,005.18	1,005.00	3.40	3.34	86.23	151.95	2,304.20	2,309.37	2,302.64	6.73	343.236				
1,100.00	1,100.00	1,099.09	1,098.90	3.75	3.67	86.23	151.87	2,303.22	2,308.31	2,300.90	7.41	311.351				
1,200.00	1,200.00	1,191.84	1,191.66	4.11	3.99	86.22	151.96	2,302.52	2,307.57	2,299.47	8.09	285.087				
1,300.00	1,300.00	1,290.46	1,290.27	4.46	4.34	86.22	152.28	2,302.00	2,307.07	2,298.27	8.79	262.366				
1,400.00	1,400.00	1,394.63	1,394.44	4.82	4.70	86.20	153.05	2,301.30	2,306.44	2,296.93	9.51	242.528				
1,500.00	1,500.00	1,494.58	1,494.38	5.18	5.04	86.16	154.25	2,300.48	2,305.70	2,295.49	10.21	225.802				
1,600.00	1,600.00	1,592.63	1,592.41	5.53	5.38	86.12	155.96	2,299.71	2,305.03	2,294.13	10.91	211.366				
1,700.00	1,700.00	1,687.75	1,687.51	5.89	5.71	86.07	157.95	2,299.06	2,304.50	2,292.91	11.59	198.841				
1,800.00	1,800.00	1,787.82	1,787.55	6.25	6.05	86.02	160.04	2,298.53	2,304.12	2,291.82	12.29	187.448				
1,900.00	1,900.00	1,879.72	1,879.43	6.61	6.37	85.97	162.04	2,298.14	2,303.85	2,290.88	12.97	177.672				
1,914.55	1,914.55	1,892.84	1,892.55	6.66	6.42	85.96	162.31	2,298.12	2,303.84	2,290.78	13.06	176.347				
2,000.00	2,000.00	1,978.60	1,978.29	6.96	6.71	85.91	164.17	2,297.99	2,303.84	2,290.18	13.67	168.576				
2,100.00	2,099.99	2,086.05	2,085.71	7.31	7.09	-9.63	166.61	2,297.64	2,302.83	2,288.44	14.39	160.050				
2,200.00	2,199.96	2,186.58	2,186.21	7.65	7.44	-9.71	169.03	2,297.11	2,299.90	2,284.82	15.08	152.520				
2,300.00	2,299.86	2,279.81	2,279.42	7.99	7.76	-9.79	171.27	2,296.76	2,295.40	2,279.66	15.75	145.768				
2,399.87	2,399.54	2,378.33	2,377.91	8.34	8.11	-9.88	173.53	2,296.56	2,289.36	2,272.93	16.43	139.305				
2,500.00	2,499.43	2,479.00	2,478.54	8.69	8.46	-9.98	176.11	2,296.31	2,282.43	2,265.30	17.13	133.227				
2,600.00	2,599.19	2,576.66	2,576.17	9.03	8.80	-10.07	178.69	2,296.13	2,275.59	2,257.77	17.82	127.697				
2,700.00	2,698.94	2,678.50	2,677.98	9.39	9.16	-10.17	181.23	2,295.87	2,268.67	2,250.15	18.53	122.463				
2,800.00	2,798.70	2,772.72	2,772.17	9.74	9.49	-10.26	183.55	2,295.77	2,261.90	2,242.70	19.21	117.776				
2,900.00	2,898.46	2,868.85	2,868.27	10.09	9.83	-10.35	186.14	2,295.81	2,255.31	2,235.41	19.89	113.373				
3,000.00	2,998.21	2,962.75	2,962.12	10.45	10.16	-10.45	188.88	2,296.04	2,248.94	2,228.37	20.57	109.312				
3,100.00	3,097.97	3,057.23	3,056.55	10.80	10.50	-10.56	191.78	2,296.49	2,242.83	2,221.58	21.26	105.509				
3,200.00	3,197.73	3,152.88	3,152.16	11.16	10.84	-10.66	194.84	2,297.16	2,236.95	2,215.01	21.95	101.929				
3,300.00	3,297.48	3,249.51	3,248.73	11.52	11.18	-10.78	198.23	2,297.92	2,231.20	2,208.56	22.64	98.552				
3,400.00	3,397.24	3,344.53	3,343.68	11.88	11.51	-10.90	201.61	2,298.88	2,225.68	2,202.36	23.33	95.405				
3,500.00	3,497.00	3,442.16	3,441.23	12.24	11.86	-11.02	205.31	2,299.95	2,220.29	2,196.26	24.03	92.404				
3,600.00	3,596.75	3,538.72	3,537.70	12.60	12.20	-11.15	209.15	2,301.13	2,215.05	2,190.32	24.72	89.589				
3,700.00	3,696.51	3,632.29	3,631.20	12.96	12.54	-11.27	212.74	2,302.42	2,209.97	2,184.56	25.41	86.970				
3,800.00	3,796.27	3,722.51	3,721.33	13.32	12.86	-11.40	216.37	2,304.06	2,205.34	2,179.26	26.08	84.545				
3,900.00	3,896.02	3,817.63	3,816.36	13.68	13.19	-11.52	220.16	2,306.07	2,201.02	2,174.24	26.78	82.198				
4,000.00	3,995.78	3,913.46	3,912.09	14.04	13.53	-11.65	223.79	2,308.29	2,196.90	2,169.42	27.47	79.968				
4,100.00	4,095.54	4,011.35	4,009.89	14.40	13.88	-11.77	227.29	2,310.75	2,192.95	2,164.77	28.17	77.834				
4,200.00	4,195.29	4,111.76	4,110.21	14.77	14.24	-11.89	230.84	2,313.26	2,189.00	2,160.11	28.89	75.778				
4,300.00	4,295.05	4,214.20	4,212.56	15.13	14.60	-12.00	234.09	2,315.86	2,185.05	2,155.44	29.61	73.802				
4,400.00	4,394.81	4,318.30	4,316.58	15.49	14.97	-12.12	237.30	2,318.25	2,180.86	2,150.53	30.33	71.896				
4,500.00	4,494.56	4,397.53	4,395.75	15.86	15.25	-12.21	239.75	2,320.24	2,176.93	2,145.97	30.97	70.296				
4,600.00	4,594.32	4,464.71	4,462.85	16.22	15.49	-12.28	241.65	2,322.88	2,174.37	2,142.81	31.55	68.914				
4,700.00	4,694.08	4,537.00	4,535.00	16.59	15.74	-12.32	242.87	2,327.11	2,173.46	2,141.32	32.15	67.607				
4,711.02	4,705.07	4,537.00	4,535.00	16.63	15.74	-12.32	242.87	2,327.11	2,173.44	2,141.25	32.18	67.536				
4,800.00	4,793.83	4,602.13	4,599.95	16.95	15.97	-12.35	243.34	2,331.93	2,173.98	2,141.27	32.71	66.467				
4,900.00	4,893.59	4,688.65	4,686.17	17.32	16.27	-12.36	243.55	2,339.15	2,175.47	2,142.12	33.35	65.228				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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)							
5,000.00	4,993.35	4,769.38	4,766.58	17.68	16.55	-12.37	243.42	2,346.34	2,177.51	2,143.54	33.97	64.103						
5,100.00	5,093.10	4,841.28	4,838.09	18.05	16.80	-12.35	242.47	2,353.73	2,180.77	2,146.22	34.54	63.131						
5,200.00	5,192.86	4,918.00	4,914.26	18.42	17.07	-12.30	240.66	2,362.69	2,185.26	2,150.13	35.13	62.198						
5,300.00	5,292.62	4,992.76	4,988.37	18.78	17.33	-12.25	238.62	2,372.28	2,190.86	2,155.15	35.71	61.348						
5,400.00	5,392.37	5,116.13	5,110.67	19.15	17.77	-12.17	235.55	2,388.25	2,196.70	2,160.18	36.52	60.148						
5,500.00	5,492.13	5,250.79	5,244.43	19.52	18.25	-12.09	232.43	2,403.41	2,200.77	2,163.39	37.38	58.873						
5,600.00	5,591.89	5,367.97	5,360.98	19.88	18.67	-12.03	229.80	2,415.35	2,203.83	2,165.67	38.16	57.751						
5,700.00	5,691.64	5,461.27	5,453.79	20.25	19.01	-11.99	227.78	2,424.65	2,206.68	2,167.84	38.84	56.820						
5,800.00	5,791.40	5,549.92	5,541.93	20.62	19.33	-11.94	225.71	2,433.85	2,209.91	2,170.41	39.49	55.960						
5,900.00	5,891.16	5,650.87	5,642.28	20.98	19.70	-11.89	223.35	2,444.55	2,213.38	2,173.18	40.20	55.057						
6,000.00	5,990.91	5,757.57	5,748.39	21.35	20.09	-11.83	220.87	2,455.61	2,216.60	2,175.66	40.94	54.143						
6,100.00	6,090.67	5,851.34	5,841.61	21.72	20.43	-11.78	218.74	2,465.40	2,219.92	2,178.30	41.62	53.338						
6,200.00	6,190.42	5,954.57	5,944.24	22.09	20.82	-11.72	215.92	2,476.20	2,223.20	2,180.85	42.34	52.504						
6,300.00	6,290.18	6,048.13	6,037.23	22.45	21.16	-11.65	213.01	2,486.14	2,226.62	2,183.59	43.02	51.753						
6,400.00	6,389.94	6,157.84	6,146.26	22.82	21.57	-11.58	209.96	2,497.92	2,230.20	2,186.42	43.78	50.943						
6,500.00	6,489.69	6,277.66	6,265.46	23.19	22.02	-11.50	206.33	2,509.48	2,232.61	2,188.03	44.58	50.084						
6,600.00	6,589.45	6,373.26	6,360.59	23.56	22.37	-11.43	203.27	2,518.56	2,234.90	2,189.64	45.27	49.369						
6,700.00	6,689.21	6,468.68	6,455.51	23.93	22.73	-11.36	200.36	2,527.85	2,237.45	2,191.49	45.96	48.680						
6,800.00	6,788.96	6,576.80	6,563.09	24.29	23.13	-11.30	197.61	2,538.29	2,239.97	2,193.26	46.71	47.953						
6,900.00	6,888.72	6,680.28	6,666.07	24.66	23.52	-11.24	194.51	2,547.96	2,242.14	2,194.70	47.44	47.262						
7,000.00	6,988.48	6,771.03	6,756.35	25.03	23.86	-11.17	191.49	2,556.60	2,244.46	2,196.34	48.11	46.649						
7,100.00	7,088.23	6,886.94	6,871.70	25.40	24.30	-11.09	187.92	2,567.48	2,246.67	2,197.77	48.90	45.945						
7,200.00	7,187.99	6,976.38	6,960.70	25.77	24.64	-11.03	185.08	2,575.91	2,248.89	2,199.32	49.57	45.370						
7,300.00	7,287.75	7,087.46	7,071.23	26.14	25.06	-10.95	181.34	2,586.18	2,250.94	2,200.60	50.33	44.721						
7,400.00	7,387.50	7,189.33	7,172.64	26.50	25.44	-10.87	177.75	2,595.20	2,252.57	2,201.52	51.06	44.119						
7,500.00	7,487.26	7,283.61	7,266.48	26.87	25.80	-10.80	174.76	2,603.79	2,254.51	2,202.76	51.75	43.566						
7,600.00	7,587.02	7,386.72	7,369.11	27.24	26.19	-10.73	171.51	2,613.13	2,256.40	2,203.92	52.48	42.996						
7,700.00	7,686.77	7,496.29	7,478.19	27.61	26.60	-10.66	167.90	2,622.87	2,258.11	2,204.87	53.24	42.415						
7,800.00	7,786.53	7,597.95	7,579.42	27.98	26.99	-10.58	164.42	2,631.47	2,259.39	2,205.42	53.96	41.869						
7,900.00	7,886.29	7,703.26	7,684.29	28.35	27.39	-10.50	160.55	2,640.42	2,260.68	2,205.98	54.70	41.326						
8,000.00	7,986.04	7,797.26	7,777.87	28.72	27.74	-10.41	156.78	2,648.32	2,261.86	2,206.47	55.40	40.830						
8,100.00	8,085.80	7,909.05	7,889.18	29.09	28.16	-10.32	152.25	2,657.74	2,263.08	2,206.91	56.17	40.293						
8,200.00	8,185.56	7,995.23	7,974.96	29.46	28.49	-10.23	148.23	2,665.00	2,264.23	2,207.40	56.83	39.845						
8,300.00	8,285.31	8,123.33	8,102.47	29.83	28.98	-10.08	141.81	2,675.39	2,265.05	2,207.38	57.66	39.281						
8,400.00	8,385.07	8,218.73	8,197.44	30.20	29.34	-9.97	136.66	2,682.74	2,265.44	2,207.07	58.36	38.816						
8,500.00	8,484.83	8,323.10	8,301.35	30.56	29.73	-9.84	130.86	2,690.71	2,265.76	2,206.66	59.10	38.337						
8,600.00	8,584.58	8,429.71	8,407.53	30.93	30.13	-9.72	125.60	2,698.65	2,265.96	2,206.11	59.85	37.862						
8,700.00	8,684.34	8,529.96	8,507.44	31.30	30.51	-9.62	121.05	2,705.68	2,265.76	2,205.19	60.57	37.408						
8,800.00	8,784.10	8,643.61	8,620.68	31.67	30.93	-9.51	115.87	2,713.81	2,265.73	2,204.39	61.34	36.936						
8,900.00	8,883.85	8,749.21	8,725.96	32.04	31.33	-9.41	111.11	2,720.45	2,264.81	2,202.73	62.08	36.480						
9,000.00	8,983.61	8,871.83	8,848.28	32.41	31.78	-9.32	106.69	2,727.61	2,263.53	2,200.64	62.89	35.993						
9,100.00	9,083.37	8,996.59	8,972.88	32.78	32.24	-9.27	103.68	2,733.25	2,260.97	2,197.28	63.69	35.498						
9,200.00	9,183.12	9,110.58	9,086.77	33.15	32.65	-9.25	101.74	2,737.58	2,257.78	2,193.32	64.46	35.028						
9,300.00	9,282.88	9,210.21	9,186.33	33.52	33.01	-9.23	99.98	2,740.86	2,254.06	2,188.88	65.17	34.586						
9,400.00	9,382.64	9,332.50	9,308.56	33.89	33.44	-9.22	98.63	2,744.56	2,250.15	2,184.19	65.96	34.114						
9,428.07	9,410.64	9,360.64	9,336.68	33.99	33.54	-9.22	98.49	2,745.23	2,248.88	2,182.71	66.16	33.991						
9,500.00	9,482.43	9,435.73	9,411.76	34.26	33.81	-9.22	98.16	2,746.94	2,246.20	2,179.51	66.69	33.684						
9,600.00	9,582.36	9,532.91	9,508.91	34.62	34.12	-9.22	97.79	2,749.01	2,244.57	2,177.21	67.36	33.323						
9,604.12	9,586.48	9,535.96	9,511.97	34.63	34.13	-9.22	97.77	2,749.08	2,244.57	2,177.19	67.38	33.313						
9,694.65	9,677.00	9,603.18	9,579.15	34.95	34.25	86.26	97.56	2,751.02	2,246.09	2,178.27	67.83	33.116						
9,700.00	9,682.35	9,607.15	9,583.12	34.97	34.26	86.26	97.54	2,751.16	2,246.28	2,178.43	67.85	33.106						
9,800.00	9,782.35	9,682.28	9,658.19	35.31	34.39	86.27	97.34	2,754.20	2,250.28	2,181.97	68.32	32.939						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
9,900.00	9,882.35	9,766.08	9,741.89	35.65	34.41	86.28	97.27	2,758.31	2,255.18	2,186.52	68.66	32.844		
10,000.00	9,982.35	11,386.80	10,972.81	35.99	35.70	72.64	540.05	2,394.88	2,218.34	2,153.26	65.08	34.087		
10,044.69	10,027.04	11,388.05	10,972.94	36.14	35.71	72.60	541.21	2,394.44	2,198.31	2,132.67	65.63	33.494		
10,050.00	10,032.35	11,388.20	10,972.96	36.16	35.71	73.27	541.36	2,394.39	2,195.97	2,130.27	65.70	33.425		
10,100.00	10,082.26	11,390.24	10,973.17	36.32	35.72	75.58	543.26	2,393.69	2,173.85	2,107.54	66.31	32.784		
10,150.00	10,131.76	11,393.33	10,973.50	36.49	35.74	77.90	546.14	2,392.63	2,151.67	2,084.76	66.90	32.162		
10,200.00	10,180.46	11,407.00	10,974.95	36.65	35.82	79.94	558.97	2,388.12	2,129.66	2,062.12	67.53	31.536		
10,250.00	10,227.98	11,407.00	10,974.95	36.81	35.82	82.35	558.97	2,388.12	2,107.74	2,039.69	68.05	30.973		
10,300.00	10,273.98	11,407.00	10,974.95	36.95	35.82	84.71	558.97	2,388.12	2,086.27	2,017.73	68.54	30.438		
10,350.00	10,318.11	11,421.23	10,976.43	37.09	35.91	86.67	572.39	2,383.62	2,065.30	1,996.22	69.08	29.896		
10,400.00	10,360.01	11,439.00	10,978.19	37.21	36.02	88.49	589.23	2,378.23	2,044.95	1,975.34	69.61	29.375		
10,450.00	10,399.38	11,457.02	10,979.88	37.32	36.14	90.26	606.36	2,372.90	2,025.25	1,955.13	70.12	28.883		
10,500.00	10,435.92	11,470.00	10,981.03	37.42	36.23	92.05	618.72	2,369.10	2,006.24	1,935.68	70.56	28.435		
10,550.00	10,469.35	11,470.00	10,981.03	37.51	36.23	93.96	618.72	2,369.10	1,988.40	1,917.52	70.87	28.055		
10,600.00	10,499.41	11,508.00	10,983.91	37.59	36.49	95.17	655.15	2,358.71	1,970.98	1,899.55	71.43	27.593		
10,650.00	10,525.87	11,524.27	10,984.88	37.66	36.60	96.62	670.89	2,354.68	1,955.07	1,883.27	71.80	27.228		
10,700.00	10,548.54	11,565.00	10,986.66	37.74	36.89	97.70	710.57	2,345.73	1,940.81	1,868.47	72.33	26.832		
10,750.00	10,567.24	11,565.00	10,986.66	37.84	36.89	99.10	710.57	2,345.73	1,927.17	1,854.64	72.53	26.571		
10,800.00	10,581.83	11,588.13	10,987.36	37.97	37.06	100.17	733.23	2,341.16	1,915.22	1,842.33	72.89	26.277		
10,850.00	10,592.19	11,624.21	10,988.31	38.11	37.33	101.10	768.63	2,334.25	1,904.42	1,831.09	73.32	25.973		
10,900.00	10,598.26	11,661.32	10,989.12	38.25	37.61	102.00	805.11	2,327.43	1,894.76	1,821.02	73.74	25.695		
10,944.69	10,600.00	11,703.95	10,989.85	38.39	37.97	102.78	847.04	2,319.78	1,887.04	1,812.84	74.20	25.433		
11,000.00	10,600.00	11,757.02	10,990.49	38.56	38.42	102.86	899.25	2,310.35	1,877.99	1,803.22	74.76	25.119		
11,100.00	10,600.00	11,857.97	10,991.48	38.91	39.36	103.01	998.59	2,292.36	1,861.52	1,785.57	75.95	24.509		
11,200.00	10,600.00	11,936.88	10,992.46	39.31	40.15	103.14	1,076.29	2,278.68	1,845.60	1,768.57	77.03	23.959		
11,300.00	10,600.00	12,020.30	10,993.40	39.76	41.03	103.26	1,158.59	2,265.05	1,830.64	1,752.38	78.26	23.393		
11,400.00	10,600.00	12,086.95	10,993.85	40.25	41.77	103.34	1,224.48	2,255.00	1,816.87	1,737.49	79.39	22.887		
11,500.00	10,600.00	12,151.17	10,994.43	40.79	42.49	103.42	1,288.14	2,246.63	1,805.07	1,724.52	80.55	22.408		
11,600.00	10,600.00	12,225.00	10,996.16	41.37	43.34	103.53	1,361.46	2,238.15	1,795.09	1,713.20	81.89	21.921		
11,700.00	10,600.00	12,318.18	10,998.51	41.99	44.45	103.68	1,454.08	2,228.26	1,786.05	1,702.52	83.53	21.382		
11,800.00	10,600.00	12,408.46	11,000.46	42.65	45.58	103.80	1,543.86	2,218.93	1,777.23	1,692.01	85.22	20.854		
11,900.00	10,600.00	12,484.37	11,002.30	43.35	46.55	103.91	1,619.41	2,211.74	1,769.32	1,682.52	86.80	20.383		
12,000.00	10,600.00	12,593.09	11,003.66	44.09	47.97	104.02	1,727.73	2,202.55	1,762.16	1,673.27	88.88	19.826		
12,100.00	10,600.00	12,678.05	11,003.67	44.86	49.12	104.07	1,812.39	2,195.45	1,754.77	1,664.04	90.73	19.340		
12,200.00	10,600.00	12,802.80	11,004.76	45.67	50.86	104.19	1,936.67	2,184.79	1,747.46	1,654.29	93.18	18.754		
12,300.00	10,600.00	12,872.99	11,006.60	46.50	51.87	104.29	2,006.56	2,178.57	1,740.16	1,645.22	94.93	18.330		
12,400.00	10,600.00	13,000.29	11,011.49	47.37	53.74	104.54	2,133.24	2,166.95	1,733.02	1,635.51	97.51	17.772		
12,500.00	10,600.00	13,099.16	11,015.03	48.26	55.25	104.72	2,231.58	2,157.41	1,725.28	1,625.50	99.77	17.292		
12,600.00	10,600.00	13,210.91	11,018.64	49.18	56.98	104.94	2,342.62	2,145.33	1,716.29	1,614.02	102.26	16.783		
12,700.00	10,600.00	13,284.13	11,021.48	50.13	58.13	105.09	2,415.39	2,137.84	1,708.15	1,603.90	104.24	16.386		
12,800.00	10,600.00	13,358.03	11,023.84	51.10	59.29	105.21	2,489.03	2,132.09	1,702.03	1,595.77	106.26	16.017		
12,900.00	10,600.00	13,422.07	11,025.45	52.09	60.29	105.29	2,552.94	2,128.42	1,697.67	1,589.52	108.15	15.697		
13,000.00	10,600.00	13,526.73	11,027.59	53.10	61.94	105.40	2,657.46	2,123.29	1,694.21	1,583.51	110.70	15.304		
13,100.00	10,600.00	13,640.48	11,029.02	54.14	63.76	105.50	2,771.01	2,116.92	1,689.85	1,576.41	113.44	14.896		
13,200.00	10,600.00	13,728.73	11,031.00	55.19	65.19	105.60	2,859.09	2,111.70	1,685.46	1,569.65	115.81	14.554		
13,300.00	10,600.00	13,807.80	11,034.19	56.26	66.48	105.74	2,937.97	2,107.41	1,682.02	1,564.00	118.03	14.251		
13,400.00	10,600.00	13,908.19	11,039.81	57.35	68.13	105.97	3,038.08	2,102.37	1,679.43	1,558.84	120.58	13.928		
13,500.00	10,600.00	13,997.33	11,043.86	58.45	69.60	106.13	3,127.02	2,098.16	1,676.85	1,553.86	122.99	13.634		
13,600.00	10,600.00	14,126.12	11,047.02	59.57	71.75	106.28	3,255.65	2,092.46	1,674.03	1,547.92	126.11	13.274		
13,700.00	10,600.00	14,213.51	11,048.33	60.71	73.22	106.36	3,342.93	2,088.26	1,670.55	1,541.95	128.60	12.991		
13,800.00	10,600.00	14,306.50	11,049.18	61.85	74.80	106.42	3,435.83	2,084.53	1,667.66	1,536.47	131.20	12.711		
13,900.00	10,600.00	14,410.18	11,048.79	63.01	76.56	106.44	3,539.44	2,080.70	1,664.71	1,530.69	134.03	12.421		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,000.00	10,600.00	14,485.94	11,048.94	64.18	77.85	106.46	3,615.16	2,078.38	1,662.53	1,526.15	136.38	12.191	
14,100.00	10,600.00	14,596.96	11,050.80	65.37	79.75	106.54	3,726.12	2,075.02	1,660.82	1,521.48	139.34	11.919	
14,200.00	10,600.00	14,670.08	11,052.58	66.56	81.00	106.62	3,799.19	2,073.07	1,659.61	1,517.98	141.63	11.718	
14,300.00	10,600.00	14,782.95	11,056.40	67.76	82.95	106.76	3,911.96	2,070.25	1,658.91	1,514.29	144.62	11.471	
14,400.00	10,600.00	14,901.08	11,060.05	68.98	85.01	106.92	4,029.94	2,065.50	1,656.58	1,508.86	147.72	11.214	
14,500.00	10,600.00	14,987.91	11,063.02	70.20	86.53	107.04	4,116.66	2,062.45	1,654.88	1,504.60	150.29	11.011	
14,600.00	10,600.00	15,092.15	11,066.35	71.43	88.37	107.19	4,220.76	2,058.23	1,652.63	1,499.46	153.17	10.790	
14,691.81	10,600.00	15,154.00	11,068.47	72.57	89.46	107.27	4,282.55	2,056.55	1,651.81	1,496.60	155.21	10.642	
14,700.00	10,600.00	15,160.41	11,068.71	72.67	89.57	107.28	4,288.96	2,056.43	1,651.82	1,496.41	155.41	10.629	
14,800.00	10,600.00	15,248.82	11,072.81	73.92	91.12	107.43	4,377.25	2,054.93	1,652.28	1,494.30	157.98	10.459	
14,900.00	10,600.00	15,362.69	11,078.73	75.17	93.13	107.64	4,490.96	2,052.86	1,652.84	1,491.81	161.03	10.264	
15,000.00	10,600.00	15,485.04	11,084.26	76.44	95.30	107.85	4,613.11	2,048.82	1,651.68	1,487.45	164.24	10.057	
15,100.00	10,600.00	15,582.11	11,087.56	77.70	97.04	107.98	4,710.07	2,045.83	1,650.48	1,483.46	167.03	9.881	
15,166.26	10,600.00	15,629.00	11,089.05	78.55	97.88	108.04	4,756.92	2,044.42	1,649.82	1,481.25	168.57	9.787 CC, ES	
15,200.00	10,600.00	15,629.00	11,089.05	78.98	97.88	108.04	4,756.92	2,044.42	1,650.17	1,481.30	168.87	9.772	
15,300.00	10,600.00	15,629.00	11,089.05	80.26	97.88	108.04	4,756.92	2,044.42	1,655.23	1,485.80	169.43	9.769 SF	
15,400.00	10,600.00	15,629.00	11,089.05	81.55	97.88	108.04	4,756.92	2,044.42	1,666.30	1,496.79	169.51	9.830	
15,484.47	10,600.00	15,629.00	11,089.05	82.64	97.88	108.04	4,756.92	2,044.42	1,680.23	1,511.02	169.21	9.930	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.90	0.90	0.50	0.50	-90.38	-0.20	-30.00	30.00				
100.00	100.00	100.90	100.90	0.52	0.52	-90.38	-0.20	-30.00	30.00	28.96	1.04	28.948	
200.00	200.00	200.90	200.90	0.70	0.70	-90.38	-0.20	-30.00	30.00	28.59	1.41	21.330	
300.00	300.00	300.90	300.90	0.99	0.99	-90.38	-0.20	-30.00	30.00	28.02	1.98	15.171	
400.00	400.00	400.90	400.90	1.31	1.31	-90.38	-0.20	-30.00	30.00	27.38	2.62	11.446	
500.00	500.00	500.90	500.90	1.65	1.65	-90.38	-0.20	-30.00	30.00	26.71	3.30	9.104	
600.00	600.00	600.90	600.90	1.99	1.99	-90.38	-0.20	-30.00	30.00	26.02	3.98	7.530	
700.00	700.00	700.90	700.90	2.34	2.34	-90.38	-0.20	-30.00	30.00	25.32	4.68	6.408	
800.00	800.00	800.90	800.90	2.69	2.69	-90.38	-0.20	-30.00	30.00	24.62	5.38	5.572	
900.00	900.00	900.90	900.90	3.04	3.05	-90.38	-0.20	-30.00	30.00	23.91	6.09	4.926 Alert	
1,000.00	1,000.00	1,000.90	1,000.90	3.40	3.40	-90.38	-0.20	-30.00	30.00	23.20	6.80	4.413 Alert	
1,100.00	1,100.00	1,100.90	1,100.90	3.75	3.76	-90.38	-0.20	-30.00	30.00	22.49	7.51	3.996 Alert	
1,200.00	1,200.00	1,200.90	1,200.90	4.11	4.11	-90.38	-0.20	-30.00	30.00	21.78	8.22	3.650 Alert	
1,300.00	1,300.00	1,300.90	1,300.90	4.46	4.47	-90.38	-0.20	-30.00	30.00	21.07	8.93	3.359 Alert	
1,400.00	1,400.00	1,400.90	1,400.90	4.82	4.82	-90.38	-0.20	-30.00	30.00	20.36	9.64	3.111 Alert	
1,500.00	1,500.00	1,500.90	1,500.90	5.18	5.18	-90.38	-0.20	-30.00	30.00	19.64	10.36	2.896 Alert	
1,600.00	1,600.00	1,600.90	1,600.90	5.53	5.54	-90.38	-0.20	-30.00	30.00	18.93	11.07	2.710 Alert	
1,700.00	1,700.00	1,700.90	1,700.90	5.89	5.89	-90.38	-0.20	-30.00	30.00	18.22	11.79	2.546 Alert	
1,800.00	1,800.00	1,800.90	1,800.90	6.25	6.25	-90.38	-0.20	-30.00	30.00	17.50	12.50	2.400 Minor Risk	
1,900.00	1,900.00	1,900.90	1,900.90	6.61	6.61	-90.38	-0.20	-30.00	30.00	16.79	13.21	2.270 Minor Risk	
2,000.00	2,000.00	2,000.90	2,000.90	6.96	6.97	-90.38	-0.20	-30.00	30.00	16.07	13.93	2.154 Minor Risk	
2,100.00	2,099.99	2,100.89	2,100.89	7.31	7.32	174.31	-0.20	-30.00	30.87	16.23	14.64	2.109 Minor Risk	
2,200.00	2,199.96	2,200.86	2,200.86	7.65	7.68	174.75	-0.20	-30.00	33.47	18.14	15.33	2.183 Minor Risk	
2,300.00	2,299.86	2,300.76	2,300.76	7.99	8.04	175.35	-0.20	-30.00	37.82	21.79	16.03	2.359 Minor Risk	
2,399.87	2,399.54	2,400.44	2,400.44	8.34	8.40	175.99	-0.20	-30.00	43.90	27.17	16.73	2.624 Alert	
2,500.00	2,499.43	2,500.33	2,500.33	8.69	8.75	176.54	-0.20	-30.00	50.87	33.44	17.43	2.918 Alert	
2,600.00	2,599.19	2,600.09	2,600.09	9.03	9.11	176.96	-0.20	-30.00	57.83	39.70	18.13	3.189 Alert	
2,700.00	2,698.94	2,699.84	2,699.84	9.39	9.47	177.28	-0.20	-30.00	64.79	45.96	18.83	3.440 Alert	
2,800.00	2,798.70	2,800.85	2,800.84	9.74	9.82	177.48	-0.33	-29.12	70.89	51.36	19.53	3.630 Alert	
2,900.00	2,898.46	2,902.04	2,902.00	10.09	10.16	177.52	-0.73	-26.48	75.23	55.01	20.21	3.721 Alert	
3,000.00	2,998.21	3,003.35	3,003.21	10.45	10.51	177.43	-1.39	-22.06	77.81	56.91	20.90	3.723 Alert	
3,100.00	3,097.97	3,104.73	3,104.39	10.80	10.85	177.22	-2.31	-15.87	78.63	57.06	21.58	3.644 Alert	
3,200.00	3,197.73	3,206.10	3,205.44	11.16	11.20	176.87	-3.50	-7.91	77.70	55.44	22.25	3.492 Alert	
3,300.00	3,297.48	3,307.41	3,306.27	11.52	11.56	176.36	-4.95	1.81	75.01	52.08	22.92	3.272 Alert	
3,400.00	3,397.24	3,408.58	3,406.77	11.88	11.91	175.64	-6.66	13.28	70.57	46.98	23.59	2.992 Alert	
3,500.00	3,497.00	3,509.56	3,506.87	12.24	12.27	174.58	-8.63	26.47	64.41	40.15	24.25	2.656 Alert	
3,600.00	3,596.75	3,610.29	3,606.46	12.60	12.63	173.01	-10.86	41.37	56.53	31.63	24.91	2.270 Minor Risk	
3,700.00	3,696.51	3,710.70	3,705.47	12.96	13.00	170.47	-13.33	57.94	47.01	21.44	25.57	1.839 Minor Risk	
3,800.00	3,796.27	3,810.74	3,803.79	13.32	13.37	165.89	-16.05	76.15	35.95	9.72	26.23	1.371 Major Risk	
3,900.00	3,896.02	3,909.93	3,901.16	13.68	13.75	156.73	-18.84	94.88	24.70	-2.30	27.00	0.915 Collision	
4,000.00	3,995.78	4,009.18	3,998.58	14.04	14.13	134.38	-21.64	113.62	15.01	-12.91	27.93	0.538 Collision	
4,078.77	4,074.36	4,087.36	4,075.32	14.33	14.43	94.71	-23.85	128.39	11.52	-17.23	28.76	0.401 Collision, CC, ES, SF	
4,100.00	4,095.54	4,108.43	4,096.01	14.40	14.51	82.12	-24.44	132.37	11.81	-17.08	28.89	0.409 Collision	
4,200.00	4,195.29	4,207.68	4,193.43	14.77	14.90	42.80	-27.24	151.11	18.77	-10.49	29.26	0.641 Collision	
4,300.00	4,295.05	4,306.93	4,290.86	15.13	15.29	27.95	-30.04	169.86	29.39	-0.43	29.82	0.985 Collision	
4,400.00	4,394.81	4,406.18	4,388.28	15.49	15.68	21.19	-32.84	188.61	40.91	10.43	30.48	1.342 Major Risk	
4,500.00	4,494.56	4,505.43	4,485.70	15.86	16.08	17.42	-35.64	207.35	52.75	21.58	31.17	1.692 Minor Risk	
4,600.00	4,594.32	4,604.68	4,583.13	16.22	16.48	15.04	-38.43	226.10	64.73	32.86	31.87	2.031 Minor Risk	
4,700.00	4,694.08	4,703.93	4,680.55	16.59	16.88	13.41	-41.23	244.84	76.78	44.21	32.57	2.357 Minor Risk	
4,800.00	4,793.83	4,803.18	4,777.98	16.95	17.28	12.22	-44.03	263.59	88.89	55.60	33.28	2.671 Alert	
4,900.00	4,893.59	4,902.43	4,875.40	17.32	17.69	11.31	-46.83	282.33	101.02	67.02	34.00	2.971 Alert	
5,000.00	4,993.35	5,001.68	4,972.82	17.68	18.10	10.60	-49.63	301.08	113.16	78.45	34.71	3.260 Alert	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	5,100.93	5,070.25	18.05	18.51	10.03	-52.43	319.83	125.33	89.90	35.43	3.538	Alert	
5,200.00	5,192.86	5,200.18	5,167.67	18.42	18.92	9.56	-55.23	338.57	137.50	101.36	36.14	3.804	Alert	
5,300.00	5,292.62	5,300.57	5,265.10	18.78	19.34	9.16	-58.03	357.32	149.68	112.81	36.87	4.060	Alert	
5,400.00	5,392.37	5,398.69	5,362.52	19.15	19.75	8.83	-60.82	376.06	161.87	124.29	37.58	4.307	Alert	
5,500.00	5,492.13	5,497.94	5,459.94	19.52	20.16	8.54	-63.62	394.81	174.06	135.76	38.30	4.544	Alert	
5,600.00	5,591.89	5,602.81	5,557.37	19.88	20.61	8.29	-66.42	413.55	186.25	147.21	39.04	4.770	Alert	
5,700.00	5,691.64	5,696.44	5,654.79	20.25	21.00	8.07	-69.22	432.30	198.45	158.71	39.74	4.993	Alert	
5,800.00	5,791.40	5,804.31	5,752.22	20.62	21.46	7.87	-72.02	451.05	210.65	170.15	40.50	5.201		
5,900.00	5,891.16	5,905.06	5,849.64	20.98	21.89	7.70	-74.82	469.79	222.86	181.63	41.23	5.405		
6,000.00	5,990.91	6,005.81	5,947.06	21.35	22.32	7.54	-77.62	488.54	235.06	193.10	41.96	5.602		
6,100.00	6,090.67	6,093.44	6,044.49	21.72	22.69	7.40	-80.42	507.28	247.27	204.63	42.64	5.799		
6,200.00	6,190.42	6,192.69	6,141.91	22.09	23.12	7.28	-83.21	526.03	259.47	216.11	43.36	5.984		
6,300.00	6,290.18	6,308.06	6,239.34	22.45	23.61	7.16	-86.01	544.77	271.68	227.53	44.15	6.154		
6,400.00	6,389.94	6,391.19	6,336.76	22.82	23.97	7.06	-88.81	563.52	283.89	239.08	44.82	6.335		
6,500.00	6,489.69	6,509.56	6,434.18	23.19	24.48	6.96	-91.61	582.27	296.10	250.49	45.61	6.491		
6,600.00	6,589.45	6,589.69	6,531.61	23.56	24.82	6.87	-94.41	601.01	308.31	262.04	46.27	6.663		
6,700.00	6,689.21	6,688.94	6,629.03	23.93	25.25	6.79	-97.21	619.76	320.53	273.53	47.00	6.820		
6,800.00	6,788.96	6,788.19	6,726.46	24.29	25.68	6.71	-100.01	638.50	332.74	285.01	47.73	6.972		
6,900.00	6,888.72	6,887.44	6,823.88	24.66	26.11	6.64	-102.81	657.25	344.95	296.50	48.45	7.119		
7,000.00	6,988.48	6,986.69	6,921.30	25.03	26.54	6.58	-105.60	675.99	357.16	307.98	49.18	7.262		
7,100.00	7,088.23	7,085.94	7,018.73	25.40	26.98	6.51	-108.40	694.74	369.38	319.47	49.91	7.401		
7,200.00	7,187.99	7,185.20	7,116.15	25.77	27.41	6.46	-111.20	713.49	381.59	330.95	50.64	7.535		
7,300.00	7,287.75	7,284.45	7,213.58	26.14	27.84	6.40	-114.00	732.23	393.81	342.44	51.37	7.666		
7,400.00	7,387.50	7,383.70	7,311.00	26.50	28.28	6.35	-116.80	750.98	406.02	353.92	52.10	7.793		
7,500.00	7,487.26	7,482.95	7,408.42	26.87	28.71	6.30	-119.60	769.72	418.24	365.41	52.83	7.916		
7,600.00	7,587.02	7,582.20	7,505.85	27.24	29.14	6.26	-122.40	788.47	430.45	376.89	53.56	8.036		
7,700.00	7,686.77	7,681.45	7,603.27	27.61	29.58	6.22	-125.19	807.21	442.67	388.38	54.29	8.153		
7,800.00	7,786.53	7,780.70	7,700.70	27.98	30.01	6.18	-127.99	825.96	454.89	399.86	55.03	8.267		
7,900.00	7,886.29	7,879.95	7,798.12	28.35	30.45	6.14	-130.79	844.71	467.10	411.35	55.76	8.378		
8,000.00	7,986.04	7,979.20	7,895.54	28.72	30.89	6.10	-133.59	863.45	479.32	422.83	56.49	8.485		
8,100.00	8,085.80	8,078.45	7,992.97	29.09	31.32	6.07	-136.39	882.20	491.54	434.31	57.22	8.590		
8,200.00	8,185.56	8,179.68	8,092.34	29.46	31.77	6.03	-139.24	901.29	503.73	445.75	57.98	8.688		
8,300.00	8,285.31	8,294.42	8,205.35	29.83	32.26	6.01	-142.16	920.84	514.06	455.17	58.89	8.729		
8,400.00	8,385.07	8,409.76	8,319.52	30.20	32.73	6.01	-144.59	937.11	521.40	461.65	59.76	8.725		
8,500.00	8,484.83	8,525.52	8,434.53	30.56	33.18	6.03	-146.51	950.00	525.73	465.15	60.58	8.678		
8,600.00	8,584.58	8,641.47	8,550.09	30.93	33.61	6.06	-147.92	959.44	527.03	465.67	61.36	8.590		
8,700.00	8,684.34	8,757.40	8,665.86	31.30	34.01	6.12	-148.81	965.42	525.29	463.21	62.08	8.461		
8,800.00	8,784.10	8,873.11	8,781.53	31.67	34.40	6.20	-149.19	967.92	520.53	457.78	62.75	8.295		
8,900.00	8,883.85	8,976.33	8,884.75	32.04	34.72	6.29	-149.20	968.00	513.67	450.24	63.44	8.097		
9,000.00	8,983.61	9,076.09	8,984.51	32.41	35.04	6.37	-149.20	968.00	506.74	442.61	64.14	7.901		
9,100.00	9,083.37	9,175.84	9,084.27	32.78	35.36	6.46	-149.20	968.00	499.81	434.98	64.83	7.709		
9,200.00	9,183.12	9,281.70	9,190.10	33.15	35.69	6.45	-148.25	967.99	492.72	427.22	65.50	7.523		
9,300.00	9,282.88	9,400.29	9,306.94	33.52	36.05	6.43	-129.24	967.85	482.58	416.53	66.05	7.306		
9,400.00	9,382.64	9,506.75	9,406.53	33.89	36.34	-0.09	-92.03	967.58	470.42	403.67	66.76	7.047		
9,428.07	9,410.64	9,533.76	9,430.55	33.99	36.40	-1.61	-79.70	967.49	467.20	400.20	67.00	6.973		
9,500.00	9,482.43	9,596.94	9,484.30	34.26	36.54	-5.73	-46.54	967.25	461.19	393.50	67.69	6.813		
9,548.96	9,531.35	9,635.14	9,514.91	34.43	36.62	-8.59	-23.70	967.08	459.86	391.70	68.15	6.747		
9,600.00	9,582.36	9,671.08	9,542.25	34.62	36.68	-11.51	-0.39	966.91	461.47	392.93	68.54	6.733		
9,694.65	9,677.00	9,728.36	9,582.66	34.95	36.77	78.93	40.17	966.61	473.93	405.16	68.77	6.891		
9,700.00	9,682.35	9,731.27	9,584.60	34.97	36.77	78.66	42.34	966.60	475.02	406.26	68.76	6.908		
9,800.00	9,782.35	9,780.06	9,615.49	35.31	36.84	74.17	80.09	966.32	502.12	434.08	68.05	7.379		
9,900.00	9,882.35	9,819.84	9,638.23	35.65	36.88	70.44	112.72	966.08	541.56	475.08	66.48	8.146		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	9,982.35	9,850.00	9,653.93	35.99	36.91	67.60	138.47	965.89	592.05	527.73	64.32	9.204		
10,044.69	10,027.04	9,865.37	9,661.40	36.14	36.92	66.17	151.90	965.80	617.70	554.32	63.38	9.746		
10,050.00	10,032.35	9,866.84	9,662.09	36.16	36.92	66.09	153.19	965.79	620.85	557.59	63.26	9.814		
10,100.00	10,082.26	9,881.15	9,668.69	36.32	36.93	61.49	165.89	965.69	650.84	588.71	62.12	10.477		
10,150.00	10,131.76	9,900.00	9,676.90	36.49	36.95	56.81	182.86	965.57	681.02	619.91	61.11	11.145		
10,200.00	10,180.46	9,912.16	9,681.89	36.65	36.95	52.95	193.94	965.49	710.95	651.04	59.91	11.867		
10,250.00	10,227.98	9,928.63	9,688.28	36.81	36.96	49.18	209.13	965.38	740.35	681.48	58.87	12.576		
10,300.00	10,273.98	9,950.00	9,695.92	36.95	36.98	45.59	229.08	965.23	768.93	710.94	57.99	13.259		
10,350.00	10,318.11	9,963.09	9,700.22	37.09	36.98	42.77	241.45	965.14	796.36	739.41	56.95	13.982		
10,400.00	10,360.01	9,980.94	9,705.64	37.21	36.99	40.12	258.45	965.02	822.52	766.43	56.09	14.665		
10,450.00	10,399.38	10,000.00	9,710.83	37.32	37.00	37.78	276.79	964.88	847.19	791.88	55.31	15.318		
10,500.00	10,435.92	10,017.61	9,715.09	37.42	37.01	35.80	293.88	964.76	870.22	815.65	54.57	15.946		
10,550.00	10,469.35	10,036.35	9,719.03	37.51	37.02	34.07	312.19	964.62	891.47	837.54	53.94	16.528		
10,600.00	10,499.41	10,050.00	9,721.53	37.59	37.03	32.67	325.61	964.52	910.87	857.55	53.32	17.082		
10,650.00	10,525.87	10,074.44	9,725.20	37.66	37.04	31.34	349.78	964.35	928.21	875.26	52.95	17.530		
10,700.00	10,548.54	10,100.00	9,727.94	37.74	37.06	30.23	375.18	964.16	943.56	890.89	52.66	17.916		
10,750.00	10,567.24	10,113.17	9,728.90	37.84	37.06	29.44	388.32	964.07	956.66	904.29	52.37	18.267		
10,800.00	10,581.83	10,132.70	9,729.78	37.97	37.08	28.75	407.83	963.92	967.61	915.36	52.25	18.519		
10,850.00	10,592.19	10,157.90	9,730.00	38.11	37.10	28.19	433.02	963.74	976.27	924.02	52.26	18.682		
10,900.00	10,598.26	10,207.52	9,730.00	38.25	37.15	27.77	482.64	963.37	981.64	929.22	52.42	18.725		
10,944.69	10,600.00	10,252.16	9,730.00	38.39	37.21	27.65	527.28	963.05	983.18	930.54	52.64	18.677		
11,000.00	10,600.00	10,307.47	9,730.00	38.56	37.31	27.65	582.59	962.64	983.18	930.23	52.95	18.567		
11,100.00	10,600.00	10,407.47	9,730.00	38.91	37.55	27.65	682.59	961.91	983.18	929.61	53.57	18.353		
11,200.00	10,600.00	10,507.47	9,730.00	39.31	37.88	27.65	782.59	961.18	983.19	928.93	54.25	18.122		
11,300.00	10,600.00	10,607.47	9,730.00	39.76	38.29	27.65	882.58	960.45	983.19	928.19	54.99	17.878		
11,400.00	10,600.00	10,707.47	9,730.00	40.25	38.77	27.65	982.58	959.71	983.19	927.40	55.79	17.623		
11,500.00	10,600.00	10,807.47	9,730.00	40.79	39.31	27.65	1,082.58	958.98	983.19	926.55	56.64	17.358		
11,600.00	10,600.00	10,907.47	9,730.00	41.37	39.91	27.65	1,182.57	958.25	983.19	925.64	57.55	17.084		
11,700.00	10,600.00	11,007.47	9,730.00	41.99	40.55	27.65	1,282.57	957.52	983.19	924.68	58.51	16.805		
11,800.00	10,600.00	11,107.47	9,730.00	42.65	41.24	27.65	1,382.57	956.79	983.19	923.68	59.51	16.521		
11,900.00	10,600.00	11,207.47	9,730.00	43.35	41.98	27.65	1,482.57	956.05	983.19	922.63	60.56	16.235		
12,000.00	10,600.00	11,307.47	9,730.00	44.09	42.75	27.65	1,582.56	955.32	983.19	921.54	61.65	15.948		
12,100.00	10,600.00	11,407.47	9,730.00	44.86	43.56	27.65	1,682.56	954.59	983.19	920.41	62.78	15.660		
12,200.00	10,600.00	11,507.47	9,730.00	45.67	44.40	27.65	1,782.56	953.86	983.20	919.24	63.96	15.373		
12,300.00	10,600.00	11,607.47	9,730.00	46.50	45.28	27.65	1,882.56	953.13	983.20	918.03	65.16	15.088		
12,400.00	10,600.00	11,707.47	9,730.00	47.37	46.18	27.65	1,982.55	952.39	983.20	916.79	66.41	14.805		
12,500.00	10,600.00	11,807.47	9,730.00	48.26	47.11	27.65	2,082.55	951.66	983.20	915.52	67.68	14.526		
12,600.00	10,600.00	11,907.47	9,730.00	49.18	48.07	27.65	2,182.55	950.93	983.20	914.21	68.99	14.251		
12,700.00	10,600.00	12,007.47	9,730.00	50.13	49.05	27.65	2,282.54	950.20	983.20	912.87	70.33	13.980		
12,800.00	10,600.00	12,107.47	9,730.00	51.10	50.06	27.65	2,382.54	949.47	983.20	911.51	71.69	13.715		
12,900.00	10,600.00	12,207.47	9,730.00	52.09	51.09	27.65	2,482.54	948.73	983.20	910.12	73.08	13.454		
13,000.00	10,600.00	12,307.47	9,730.00	53.10	52.13	27.65	2,582.54	948.00	983.20	908.71	74.49	13.198		
13,100.00	10,600.00	12,407.47	9,730.00	54.14	53.20	27.65	2,682.53	947.27	983.21	907.27	75.93	12.949		
13,200.00	10,600.00	12,507.47	9,730.00	55.19	54.29	27.65	2,782.53	946.54	983.21	905.82	77.39	12.704		
13,300.00	10,600.00	12,607.47	9,730.00	56.26	55.39	27.65	2,882.53	945.81	983.21	904.34	78.87	12.466		
13,400.00	10,600.00	12,707.47	9,730.00	57.35	56.51	27.65	2,982.53	945.07	983.21	902.84	80.37	12.233		
13,500.00	10,600.00	12,807.47	9,730.00	58.45	57.64	27.65	3,082.52	944.34	983.21	901.32	81.89	12.007		
13,600.00	10,600.00	12,907.47	9,730.00	59.57	58.79	27.65	3,182.52	943.61	983.21	899.79	83.43	11.786		
13,700.00	10,600.00	13,007.47	9,730.00	60.71	59.95	27.65	3,282.52	942.88	983.21	898.23	84.98	11.570		
13,800.00	10,600.00	13,107.47	9,730.00	61.85	61.12	27.65	3,382.52	942.15	983.21	896.67	86.55	11.361		
13,900.00	10,600.00	13,207.47	9,730.00	63.01	62.30	27.65	3,482.51	941.41	983.21	895.09	88.13	11.157		
14,000.00	10,600.00	13,307.47	9,730.00	64.18	63.50	27.65	3,582.51	940.68	983.22	893.49	89.73	10.958		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,100.00	10,600.00	13,407.47	9,730.00	65.37	64.71	27.65	3,682.51	939.95	983.22	891.88	91.34	10.765	
14,200.00	10,600.00	13,507.47	9,730.00	66.56	65.92	27.65	3,782.50	939.22	983.22	890.26	92.96	10.577	
14,300.00	10,600.00	13,607.47	9,730.00	67.76	67.15	27.65	3,882.50	938.49	983.22	888.63	94.59	10.394	
14,400.00	10,600.00	13,707.47	9,730.00	68.98	68.39	27.65	3,982.50	937.75	983.22	886.98	96.24	10.216	
14,500.00	10,600.00	13,807.47	9,730.00	70.20	69.63	27.65	4,082.50	937.02	983.22	885.33	97.90	10.043	
14,600.00	10,600.00	13,907.47	9,730.00	71.43	70.88	27.65	4,182.49	936.29	983.22	883.66	99.56	9.875	
14,700.00	10,600.00	14,007.47	9,730.00	72.67	72.14	27.65	4,282.49	935.56	983.22	881.98	101.24	9.712	
14,800.00	10,600.00	14,107.47	9,730.00	73.92	73.41	27.65	4,382.49	934.83	983.22	880.30	102.93	9.553	
14,900.00	10,600.00	14,207.47	9,730.00	75.17	74.68	27.66	4,482.49	934.09	983.23	878.60	104.62	9.398	
15,000.00	10,600.00	14,307.47	9,730.00	76.44	75.96	27.66	4,582.48	933.36	983.23	876.90	106.33	9.247	
15,100.00	10,600.00	14,407.47	9,730.00	77.70	77.25	27.66	4,682.48	932.63	983.23	875.19	108.04	9.101	
15,200.00	10,600.00	14,507.47	9,730.00	78.98	78.54	27.66	4,782.48	931.90	983.23	873.47	109.76	8.958	
15,300.00	10,600.00	14,607.47	9,730.00	80.26	79.84	27.66	4,882.48	931.17	983.23	871.75	111.48	8.820	
15,400.00	10,600.00	14,707.47	9,730.00	81.55	81.14	27.66	4,982.47	930.43	983.23	870.02	113.22	8.685	
15,484.47	10,600.00	14,808.06	9,730.00	82.64	82.46	27.66	5,066.94	929.81	983.23	868.41	114.83	8.563	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.90	92.04	1,700.02	1,702.66					
100.00	100.00	77.50	77.50	0.52	0.51	86.90	92.04	1,700.02	1,702.51	1,701.48	1.03	1,655.346		
200.00	200.00	177.50	177.50	0.70	0.65	86.90	92.04	1,700.02	1,702.51	1,701.16	1.35	1,260.996		
300.00	300.00	277.50	277.50	0.99	0.92	86.90	92.04	1,700.02	1,702.51	1,700.61	1.91	893.225		
400.00	400.00	377.50	377.50	1.31	1.23	86.90	92.04	1,700.02	1,702.51	1,699.97	2.54	669.221		
500.00	500.00	477.50	477.50	1.65	1.57	86.90	92.04	1,700.02	1,702.51	1,699.30	3.22	529.467		
600.00	600.00	577.50	577.50	1.99	1.91	86.90	92.04	1,700.02	1,702.51	1,698.61	3.90	436.179		
700.00	700.00	677.50	677.50	2.34	2.26	86.90	92.04	1,700.02	1,702.51	1,697.91	4.60	370.119		
800.00	800.00	777.50	777.50	2.69	2.61	86.90	92.04	1,700.02	1,702.51	1,697.21	5.30	321.109		
900.00	900.00	877.50	877.50	3.04	2.96	86.90	92.04	1,700.02	1,702.51	1,696.51	6.01	283.395		
1,000.00	1,000.00	977.50	977.50	3.40	3.32	86.90	92.04	1,700.02	1,702.51	1,695.80	6.72	253.517		
1,100.00	1,100.00	1,077.50	1,077.50	3.75	3.67	86.90	92.04	1,700.02	1,702.51	1,695.09	7.43	229.286		
1,200.00	1,200.00	1,177.50	1,177.50	4.11	4.03	86.90	92.04	1,700.02	1,702.51	1,694.38	8.14	209.250		
1,300.00	1,300.00	1,277.50	1,277.50	4.46	4.38	86.90	92.04	1,700.02	1,702.51	1,693.66	8.85	192.413		
1,400.00	1,400.00	1,377.50	1,377.50	4.82	4.74	86.90	92.04	1,700.02	1,702.51	1,692.95	9.56	178.070		
1,500.00	1,500.00	1,477.50	1,477.50	5.18	5.10	86.90	92.04	1,700.02	1,702.51	1,692.24	10.27	165.708		
1,600.00	1,600.00	1,577.50	1,577.50	5.53	5.45	86.90	92.04	1,700.02	1,702.51	1,691.53	10.99	154.944		
1,700.00	1,700.00	1,677.50	1,677.50	5.89	5.81	86.90	92.04	1,700.02	1,702.51	1,690.81	11.70	145.488		
1,800.00	1,800.00	1,777.50	1,777.50	6.25	6.17	86.90	92.04	1,700.02	1,702.51	1,690.10	12.42	137.116		
1,900.00	1,900.00	1,877.50	1,877.50	6.61	6.53	86.90	92.04	1,700.02	1,702.51	1,689.38	13.13	129.653		
2,000.00	2,000.00	1,977.50	1,977.50	6.96	6.88	86.90	92.04	1,700.02	1,702.51	1,688.67	13.85	122.958		
2,100.00	2,099.99	2,077.49	2,077.49	7.31	7.24	-8.58	92.04	1,700.02	1,701.65	1,687.10	14.55	116.940		
2,200.00	2,199.96	2,177.46	2,177.46	7.65	7.60	-8.60	92.04	1,700.02	1,699.06	1,683.81	15.25	111.426		
2,300.00	2,299.86	2,277.36	2,277.36	7.99	7.96	-8.63	92.04	1,700.02	1,694.75	1,678.80	15.95	106.276		
2,399.87	2,399.54	2,377.04	2,377.04	8.34	8.31	-8.67	92.04	1,700.02	1,688.72	1,672.08	16.65	101.454		
2,500.00	2,499.43	2,476.93	2,476.93	8.69	8.67	-8.70	92.04	1,700.02	1,681.82	1,664.47	17.35	96.955		
2,600.00	2,599.19	2,576.69	2,576.69	9.03	9.03	-8.74	92.04	1,700.02	1,674.93	1,656.88	18.05	92.804		
2,700.00	2,698.94	2,676.44	2,676.44	9.39	9.38	-8.78	92.04	1,700.02	1,668.03	1,649.28	18.75	88.958		
2,800.00	2,798.70	2,772.50	2,772.50	9.74	9.72	-8.81	92.01	1,700.05	1,661.17	1,641.73	19.44	85.460		
2,900.00	2,898.46	2,858.24	2,858.24	10.09	10.01	-8.81	91.23	1,700.65	1,654.93	1,634.86	20.07	82.458		
3,000.00	2,998.21	2,944.06	2,944.02	10.45	10.29	-8.78	89.45	1,702.04	1,649.53	1,628.83	20.70	79.693		
3,100.00	3,097.97	3,029.91	3,029.80	10.80	10.57	-8.71	86.64	1,704.22	1,644.98	1,623.65	21.33	77.125		
3,200.00	3,197.73	3,124.23	3,123.98	11.16	10.89	-8.60	82.64	1,707.32	1,641.13	1,619.14	21.99	74.630		
3,300.00	3,297.48	3,224.10	3,223.70	11.52	11.22	-8.48	78.32	1,710.68	1,637.36	1,614.69	22.67	72.213		
3,400.00	3,397.24	3,323.97	3,323.42	11.88	11.55	-8.36	74.00	1,714.04	1,633.59	1,610.23	23.36	69.929		
3,500.00	3,497.00	3,423.84	3,423.14	12.24	11.89	-8.24	69.69	1,717.39	1,629.84	1,605.79	24.05	67.770		
3,600.00	3,596.75	3,523.71	3,522.86	12.60	12.23	-8.11	65.37	1,720.75	1,626.08	1,601.34	24.74	65.726		
3,700.00	3,696.51	3,623.58	3,622.58	12.96	12.57	-7.99	61.05	1,724.10	1,622.34	1,596.91	25.43	63.787		
3,800.00	3,796.27	3,723.44	3,722.30	13.32	12.91	-7.87	56.73	1,727.46	1,618.60	1,592.48	26.13	61.948		
3,900.00	3,896.02	3,823.31	3,822.02	13.68	13.25	-7.74	52.41	1,730.81	1,614.88	1,588.05	26.83	60.200		
4,000.00	3,995.78	3,923.18	3,921.74	14.04	13.60	-7.62	48.09	1,734.17	1,611.16	1,583.63	27.52	58.538		
4,100.00	4,095.54	4,023.05	4,021.45	14.40	13.94	-7.49	43.77	1,737.52	1,607.44	1,579.22	28.22	56.955		
4,200.00	4,195.29	4,122.92	4,121.17	14.77	14.29	-7.37	39.45	1,740.88	1,603.74	1,574.81	28.92	55.447		
4,300.00	4,295.05	4,222.79	4,220.89	15.13	14.64	-7.24	35.13	1,744.23	1,600.04	1,570.41	29.63	54.008		
4,400.00	4,394.81	4,322.66	4,320.61	15.49	14.99	-7.11	30.82	1,747.59	1,596.35	1,566.02	30.33	52.634		
4,500.00	4,494.56	4,422.53	4,420.33	15.86	15.34	-6.98	26.50	1,750.94	1,592.67	1,561.64	31.03	51.321		
4,600.00	4,594.32	4,522.40	4,520.05	16.22	15.69	-6.85	22.18	1,754.30	1,589.00	1,557.26	31.74	50.064		
4,700.00	4,694.08	4,622.26	4,619.77	16.59	16.04	-6.73	17.86	1,757.65	1,585.33	1,552.88	32.45	48.861		
4,800.00	4,793.83	4,722.13	4,719.49	16.95	16.39	-6.60	13.54	1,761.01	1,581.67	1,548.52	33.15	47.709		
4,900.00	4,893.59	4,822.00	4,819.21	17.32	16.74	-6.47	9.22	1,764.36	1,578.02	1,544.16	33.86	46.604		
5,000.00	4,993.35	4,921.87	4,918.93	17.68	17.09	-6.34	4.90	1,767.72	1,574.38	1,539.81	34.57	45.543		
5,100.00	5,093.10	5,021.74	5,018.64	18.05	17.45	-6.20	0.58	1,771.08	1,570.75	1,535.47	35.28	44.524		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,121.61	5,118.36	18.42	17.80	-6.07	-3.74	1,774.43	1,567.12	1,531.13	35.99	43.545		
5,300.00	5,292.62	5,221.48	5,218.08	18.78	18.16	-5.94	-8.05	1,777.79	1,563.51	1,526.81	36.70	42.603		
5,400.00	5,392.37	5,321.35	5,317.80	19.15	18.51	-5.81	-12.37	1,781.14	1,559.90	1,522.49	37.41	41.696		
5,500.00	5,492.13	5,421.22	5,417.52	19.52	18.87	-5.67	-16.69	1,784.50	1,556.30	1,518.18	38.12	40.823		
5,600.00	5,591.89	5,521.08	5,517.24	19.88	19.22	-5.54	-21.01	1,787.85	1,552.71	1,513.87	38.84	39.982		
5,700.00	5,691.64	5,620.95	5,616.96	20.25	19.58	-5.40	-25.33	1,791.21	1,549.13	1,509.58	39.55	39.171		
5,800.00	5,791.40	5,720.82	5,716.68	20.62	19.94	-5.27	-29.65	1,794.56	1,545.55	1,505.29	40.26	38.388		
5,900.00	5,891.16	5,820.69	5,816.40	20.98	20.29	-5.13	-33.97	1,797.92	1,541.99	1,501.01	40.98	37.632		
6,000.00	5,990.91	5,920.56	5,916.12	21.35	20.65	-4.99	-38.29	1,801.27	1,538.43	1,496.74	41.69	36.902		
6,100.00	6,090.67	6,020.43	6,015.84	21.72	21.01	-4.86	-42.61	1,804.63	1,534.88	1,492.48	42.40	36.197		
6,200.00	6,190.42	6,120.30	6,115.55	22.09	21.37	-4.72	-46.92	1,807.98	1,531.35	1,488.23	43.12	35.515		
6,300.00	6,290.18	6,220.17	6,215.27	22.45	21.72	-4.58	-51.24	1,811.34	1,527.82	1,483.98	43.83	34.855		
6,400.00	6,389.94	6,320.04	6,314.99	22.82	22.08	-4.44	-55.56	1,814.69	1,524.30	1,479.75	44.55	34.216		
6,500.00	6,489.69	6,419.90	6,414.71	23.19	22.44	-4.30	-59.88	1,818.05	1,520.78	1,475.52	45.27	33.597		
6,600.00	6,589.45	6,519.77	6,514.43	23.56	22.80	-4.16	-64.20	1,821.41	1,517.28	1,471.30	45.98	32.998		
6,700.00	6,689.21	6,619.64	6,614.15	23.93	23.16	-4.02	-68.52	1,824.76	1,513.79	1,467.09	46.70	32.417		
6,800.00	6,788.96	6,719.51	6,713.87	24.29	23.52	-3.87	-72.84	1,828.12	1,510.31	1,462.89	47.41	31.853		
6,900.00	6,888.72	6,819.38	6,813.59	24.66	23.88	-3.73	-77.16	1,831.47	1,506.83	1,458.70	48.13	31.307		
7,000.00	6,988.48	6,919.25	6,913.31	25.03	24.24	-3.59	-81.48	1,834.83	1,503.37	1,454.52	48.85	30.776		
7,100.00	7,088.23	7,019.12	7,013.03	25.40	24.60	-3.44	-85.79	1,838.18	1,499.91	1,450.34	49.57	30.261		
7,200.00	7,187.99	7,118.99	7,112.74	25.77	24.96	-3.30	-90.11	1,841.54	1,496.46	1,446.18	50.28	29.761		
7,300.00	7,287.75	7,218.86	7,212.46	26.14	25.32	-3.15	-94.43	1,844.89	1,493.03	1,442.03	51.00	29.274		
7,400.00	7,387.50	7,318.72	7,312.18	26.50	25.68	-3.01	-98.75	1,848.25	1,489.60	1,437.88	51.72	28.802		
7,500.00	7,487.26	7,418.59	7,411.90	26.87	26.04	-2.86	-103.07	1,851.60	1,486.18	1,433.75	52.44	28.342		
7,600.00	7,587.02	7,518.46	7,511.62	27.24	26.40	-2.71	-107.39	1,854.96	1,482.78	1,429.62	53.16	27.895		
7,700.00	7,686.77	7,618.33	7,611.34	27.61	26.77	-2.57	-111.71	1,858.31	1,479.38	1,425.51	53.87	27.460		
7,800.00	7,786.53	7,718.20	7,711.06	27.98	27.13	-2.42	-116.03	1,861.67	1,475.99	1,421.40	54.59	27.036		
7,900.00	7,886.29	7,818.07	7,810.78	28.35	27.49	-2.27	-120.35	1,865.02	1,472.61	1,417.30	55.31	26.624		
8,000.00	7,986.04	7,917.94	7,910.50	28.72	27.85	-2.12	-124.66	1,868.38	1,469.25	1,413.22	56.03	26.222		
8,100.00	8,085.80	8,017.81	8,010.22	29.09	28.21	-1.97	-128.98	1,871.74	1,465.89	1,409.14	56.75	25.831		
8,200.00	8,185.56	8,117.68	8,109.93	29.46	28.57	-1.81	-133.30	1,875.09	1,462.54	1,405.07	57.47	25.450		
8,300.00	8,285.31	8,217.54	8,209.65	29.83	28.94	-1.66	-137.62	1,878.45	1,459.21	1,401.02	58.19	25.078		
8,400.00	8,385.07	8,317.41	8,309.37	30.20	29.30	-1.51	-141.94	1,881.80	1,455.88	1,396.97	58.91	24.715		
8,500.00	8,484.83	8,417.28	8,409.09	30.56	29.66	-1.36	-146.26	1,885.16	1,452.56	1,392.94	59.63	24.361		
8,600.00	8,584.58	8,517.15	8,508.81	30.93	30.02	-1.20	-150.58	1,888.51	1,449.26	1,388.91	60.35	24.016		
8,700.00	8,684.34	8,620.69	8,612.19	31.30	30.40	-1.04	-155.03	1,891.97	1,445.95	1,384.87	61.08	23.674		
8,800.00	8,784.10	8,754.67	8,746.10	31.67	30.88	-0.92	-158.58	1,894.73	1,441.23	1,379.33	61.90	23.283		
8,900.00	8,883.85	8,869.93	8,861.35	32.04	31.28	-0.91	-158.96	1,895.02	1,434.50	1,371.86	62.64	22.899		
9,000.00	8,983.61	8,969.69	8,961.11	32.41	31.62	-0.91	-158.96	1,895.02	1,427.53	1,364.19	63.34	22.536		
9,100.00	9,083.37	9,069.44	9,060.87	32.78	31.95	-0.92	-158.96	1,895.02	1,420.56	1,356.51	64.04	22.182		
9,200.00	9,183.12	9,170.18	9,161.60	33.15	32.30	-0.92	-158.94	1,895.02	1,413.58	1,348.84	64.74	21.834		
9,300.00	9,282.88	9,294.78	9,285.11	33.52	32.70	-1.52	-144.46	1,894.91	1,405.64	1,340.16	65.48	21.467		
9,400.00	9,382.64	9,407.89	9,392.16	33.89	33.04	-3.00	-108.50	1,894.64	1,396.53	1,330.35	66.17	21.104		
9,428.07	9,410.64	9,436.66	9,418.08	33.99	33.11	-3.52	-96.04	1,894.55	1,393.95	1,327.58	66.36	21.004		
9,500.00	9,482.43	9,503.90	9,476.01	34.26	33.29	-4.93	-61.97	1,894.29	1,388.38	1,321.54	66.84	20.771		
9,600.00	9,582.36	9,582.46	9,538.07	34.62	33.47	-6.92	-13.90	1,893.92	1,384.70	1,317.24	67.47	20.524		
9,614.49	9,596.84	9,592.51	9,545.52	34.67	33.50	-7.20	-7.15	1,893.87	1,384.64	1,317.09	67.55	20.498 CC, ES		
9,694.65	9,677.00	9,642.73	9,580.89	34.95	33.61	86.79	28.46	1,893.60	1,386.72	1,318.76	67.97	20.403		
9,700.00	9,682.35	9,645.77	9,582.94	34.97	33.61	86.70	30.72	1,893.58	1,387.01	1,319.02	67.99	20.400		
9,800.00	9,782.35	9,696.69	9,615.27	35.31	33.72	85.08	70.03	1,893.28	1,394.91	1,326.55	68.36	20.404		
9,900.00	9,882.35	9,737.88	9,638.79	35.65	33.81	83.69	103.83	1,893.03	1,407.91	1,339.35	68.56	20.535		
10,000.00	9,982.35	9,771.55	9,656.18	35.99	33.89	82.51	132.66	1,892.81	1,426.40	1,357.83	68.57	20.802		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	9,784.64	9,662.47	36.14	33.92	82.04	144.14	1,892.72	1,436.48	1,367.97	68.51	20.968		
10,050.00	10,032.35	9,786.14	9,663.18	36.16	33.92	82.28	145.46	1,892.71	1,437.75	1,369.25	68.50	20.989		
10,100.00	10,082.26	9,800.00	9,669.52	36.32	33.95	80.53	157.78	1,892.62	1,450.13	1,381.74	68.39	21.205		
10,150.00	10,131.76	9,816.21	9,676.57	36.49	33.99	78.66	172.38	1,892.51	1,463.15	1,394.90	68.25	21.438		
10,200.00	10,180.46	9,832.38	9,683.18	36.65	34.03	76.79	187.13	1,892.39	1,476.62	1,408.54	68.08	21.689		
10,250.00	10,227.98	9,850.00	9,689.90	36.81	34.07	74.88	203.42	1,892.27	1,490.35	1,422.45	67.90	21.949		
10,300.00	10,273.98	9,866.46	9,695.73	36.95	34.11	73.05	218.81	1,892.15	1,504.15	1,436.46	67.69	22.221		
10,350.00	10,318.11	9,884.21	9,701.52	37.09	34.15	71.24	235.59	1,892.03	1,517.85	1,450.37	67.48	22.494		
10,400.00	10,360.01	9,900.00	9,706.23	37.21	34.19	69.55	250.66	1,891.91	1,531.29	1,464.03	67.25	22.769		
10,450.00	10,399.38	9,920.82	9,711.80	37.32	34.23	67.85	270.73	1,891.76	1,544.29	1,477.23	67.06	23.028		
10,500.00	10,435.92	9,950.00	9,718.37	37.42	34.30	66.11	299.15	1,891.54	1,556.81	1,489.88	66.93	23.262		
10,550.00	10,469.35	9,950.00	9,718.37	37.51	34.30	65.01	299.15	1,891.54	1,568.52	1,501.86	66.65	23.532		
10,600.00	10,499.41	9,977.84	9,723.29	37.59	34.37	63.57	326.55	1,891.33	1,579.37	1,512.81	66.55	23.731		
10,650.00	10,525.87	10,000.00	9,726.25	37.66	34.43	62.37	348.51	1,891.17	1,589.35	1,522.89	66.46	23.916		
10,700.00	10,548.54	10,016.83	9,727.92	37.74	34.47	61.38	365.26	1,891.04	1,598.28	1,531.91	66.37	24.081		
10,750.00	10,567.24	10,036.54	9,729.26	37.84	34.52	60.49	384.91	1,890.89	1,606.10	1,539.75	66.34	24.209		
10,800.00	10,581.83	10,056.35	9,729.92	37.97	34.57	59.75	404.71	1,890.74	1,612.73	1,546.36	66.36	24.302		
10,850.00	10,592.19	10,108.17	9,730.00	38.11	34.71	59.08	440.19	1,890.47	1,617.98	1,551.46	66.51	24.326		
10,900.00	10,598.26	10,141.45	9,730.00	38.25	34.81	58.63	489.81	1,890.09	1,621.12	1,554.45	66.68	24.313		
10,944.69	10,600.00	10,186.09	9,730.00	38.39	34.94	58.50	534.45	1,889.76	1,622.02	1,555.11	66.91	24.242		
11,000.00	10,600.00	10,241.40	9,730.00	38.56	35.13	58.50	589.76	1,889.33	1,622.01	1,554.76	67.25	24.118		
11,100.00	10,600.00	10,341.40	9,730.00	38.91	35.51	58.50	689.76	1,888.58	1,621.99	1,554.04	67.95	23.872		
11,200.00	10,600.00	10,441.40	9,730.00	39.31	35.95	58.50	789.75	1,887.82	1,621.97	1,553.24	68.73	23.600		
11,300.00	10,600.00	10,541.40	9,730.00	39.76	36.44	58.50	889.75	1,887.06	1,621.94	1,552.34	69.60	23.303		
11,400.00	10,600.00	10,641.40	9,730.00	40.25	36.98	58.50	989.75	1,886.30	1,621.92	1,551.36	70.56	22.986		
11,500.00	10,600.00	10,741.40	9,730.00	40.79	37.57	58.50	1,089.74	1,885.54	1,621.90	1,550.30	71.60	22.651		
11,600.00	10,600.00	10,841.40	9,730.00	41.37	38.21	58.50	1,189.74	1,884.78	1,621.88	1,549.15	72.73	22.301		
11,700.00	10,600.00	10,941.40	9,730.00	41.99	38.89	58.50	1,289.74	1,884.02	1,621.86	1,547.93	73.92	21.939		
11,800.00	10,600.00	11,041.40	9,730.00	42.65	39.61	58.50	1,389.73	1,883.26	1,621.84	1,546.64	75.19	21.569		
11,900.00	10,600.00	11,141.40	9,730.00	43.35	40.37	58.50	1,489.73	1,882.50	1,621.81	1,545.28	76.53	21.191		
12,000.00	10,600.00	11,241.40	9,730.00	44.09	41.17	58.50	1,589.73	1,881.74	1,621.79	1,543.86	77.94	20.809		
12,100.00	10,600.00	11,341.40	9,730.00	44.86	42.01	58.49	1,689.73	1,880.98	1,621.77	1,542.37	79.40	20.425		
12,200.00	10,600.00	11,441.40	9,730.00	45.67	42.88	58.49	1,789.72	1,880.22	1,621.75	1,540.83	80.92	20.041		
12,300.00	10,600.00	11,541.40	9,730.00	46.50	43.77	58.49	1,889.72	1,879.46	1,621.73	1,539.23	82.50	19.657		
12,400.00	10,600.00	11,641.40	9,730.00	47.37	44.70	58.49	1,989.72	1,878.70	1,621.71	1,537.58	84.13	19.277		
12,500.00	10,600.00	11,741.40	9,730.00	48.26	45.66	58.49	2,089.71	1,877.94	1,621.69	1,535.88	85.81	18.899		
12,600.00	10,600.00	11,841.40	9,730.00	49.18	46.64	58.49	2,189.71	1,877.18	1,621.66	1,534.13	87.53	18.527		
12,700.00	10,600.00	11,941.40	9,730.00	50.13	47.65	58.49	2,289.71	1,876.42	1,621.64	1,532.34	89.30	18.160		
12,800.00	10,600.00	12,041.40	9,730.00	51.10	48.67	58.49	2,389.71	1,875.66	1,621.62	1,530.51	91.11	17.799		
12,900.00	10,600.00	12,141.40	9,730.00	52.09	49.72	58.49	2,489.70	1,874.90	1,621.60	1,528.65	92.95	17.446		
13,000.00	10,600.00	12,241.40	9,730.00	53.10	50.79	58.49	2,589.70	1,874.14	1,621.58	1,526.74	94.83	17.099		
13,100.00	10,600.00	12,341.40	9,730.00	54.14	51.88	58.49	2,689.70	1,873.38	1,621.56	1,524.80	96.75	16.760		
13,200.00	10,600.00	12,441.40	9,730.00	55.19	52.99	58.49	2,789.69	1,872.62	1,621.53	1,522.83	98.70	16.429		
13,300.00	10,600.00	12,541.40	9,730.00	56.26	54.11	58.49	2,889.69	1,871.86	1,621.51	1,520.83	100.68	16.106		
13,400.00	10,600.00	12,641.40	9,730.00	57.35	55.25	58.49	2,989.69	1,871.10	1,621.49	1,518.81	102.69	15.791		
13,500.00	10,600.00	12,741.40	9,730.00	58.45	56.41	58.49	3,089.69	1,870.34	1,621.47	1,516.75	104.72	15.484		
13,600.00	10,600.00	12,841.40	9,730.00	59.57	57.57	58.49	3,189.68	1,869.58	1,621.45	1,514.67	106.78	15.185		
13,700.00	10,600.00	12,941.40	9,730.00	60.71	58.75	58.49	3,289.68	1,868.82	1,621.43	1,512.56	108.86	14.894		
13,800.00	10,600.00	13,041.40	9,730.00	61.85	59.94	58.49	3,389.68	1,868.06	1,621.40	1,510.44	110.97	14.611		
13,900.00	10,600.00	13,141.40	9,730.00	63.01	61.15	58.49	3,489.67	1,867.30	1,621.38	1,508.29	113.10	14.336		
14,000.00	10,600.00	13,241.40	9,730.00	64.18	62.36	58.49	3,589.67	1,866.54	1,621.36	1,506.12	115.24	14.069		
14,100.00	10,600.00	13,341.40	9,730.00	65.37	63.59	58.49	3,689.67	1,865.78	1,621.34	1,503.93	117.41	13.809		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	13,441.40	9,730.00	66.56	64.82	58.48	3,789.67	1,865.02	1,621.32	1,501.73	119.59	13.557	
14,300.00	10,600.00	13,541.40	9,730.00	67.76	66.06	58.48	3,889.66	1,864.26	1,621.30	1,499.50	121.79	13.312	
14,400.00	10,600.00	13,641.40	9,730.00	68.98	67.32	58.48	3,989.66	1,863.50	1,621.27	1,497.26	124.01	13.074	
14,500.00	10,600.00	13,741.40	9,730.00	70.20	68.58	58.48	4,089.66	1,862.74	1,621.25	1,495.01	126.24	12.842	
14,600.00	10,600.00	13,841.40	9,730.00	71.43	69.84	58.48	4,189.65	1,861.98	1,621.23	1,492.74	128.49	12.618	
14,700.00	10,600.00	13,941.40	9,730.00	72.67	71.12	58.48	4,289.65	1,861.22	1,621.21	1,490.46	130.75	12.399	
14,800.00	10,600.00	14,041.40	9,730.00	73.92	72.40	58.48	4,389.65	1,860.46	1,621.19	1,488.17	133.02	12.187	
14,900.00	10,600.00	14,141.40	9,730.00	75.17	73.69	58.48	4,489.65	1,859.70	1,621.17	1,485.86	135.31	11.981	
15,000.00	10,600.00	14,241.40	9,730.00	76.44	74.98	58.48	4,589.64	1,858.94	1,621.15	1,483.54	137.61	11.781	
15,100.00	10,600.00	14,341.40	9,730.00	77.70	76.28	58.48	4,689.64	1,858.18	1,621.12	1,481.21	139.91	11.587	
15,200.00	10,600.00	14,441.40	9,730.00	78.98	77.59	58.48	4,789.64	1,857.42	1,621.10	1,478.87	142.23	11.397	
15,300.00	10,600.00	14,541.40	9,730.00	80.26	78.90	58.48	4,889.63	1,856.66	1,621.08	1,476.52	144.56	11.214	
15,400.00	10,600.00	14,641.40	9,730.00	81.55	80.21	58.48	4,989.63	1,855.91	1,621.06	1,474.16	146.90	11.035	
15,484.47	10,600.00	14,725.87	9,730.00	82.64	81.33	58.48	5,074.10	1,855.26	1,621.04	1,472.16	148.88	10.888 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.95	92.21	1,730.02	1,732.63					
100.00	100.00	77.30	77.30	0.52	0.51	86.95	92.21	1,730.02	1,732.48	1,731.45	1.03	1,684.572		
200.00	200.00	177.30	177.30	0.70	0.65	86.95	92.21	1,730.02	1,732.48	1,731.13	1.35	1,283.624		
300.00	300.00	277.30	277.30	0.99	0.92	86.95	92.21	1,730.02	1,732.48	1,730.57	1.91	909.233		
400.00	400.00	377.30	377.30	1.31	1.23	86.95	92.21	1,730.02	1,732.48	1,729.94	2.54	681.175		
500.00	500.00	477.30	477.30	1.65	1.57	86.95	92.21	1,730.02	1,732.48	1,729.26	3.21	538.900		
600.00	600.00	577.30	577.30	1.99	1.91	86.95	92.21	1,730.02	1,732.48	1,728.58	3.90	443.935		
700.00	700.00	677.30	677.30	2.34	2.26	86.95	92.21	1,730.02	1,732.48	1,727.88	4.60	376.691		
800.00	800.00	777.30	777.30	2.69	2.61	86.95	92.21	1,730.02	1,732.48	1,727.18	5.30	326.804		
900.00	900.00	877.30	877.30	3.04	2.96	86.95	92.21	1,730.02	1,732.48	1,726.47	6.01	288.417		
1,000.00	1,000.00	977.30	977.30	3.40	3.32	86.95	92.21	1,730.02	1,732.48	1,725.76	6.71	258.007		
1,100.00	1,100.00	1,077.30	1,077.30	3.75	3.67	86.95	92.21	1,730.02	1,732.48	1,725.05	7.42	233.344		
1,200.00	1,200.00	1,177.30	1,177.30	4.11	4.03	86.95	92.21	1,730.02	1,732.48	1,724.34	8.14	212.952		
1,300.00	1,300.00	1,277.30	1,277.30	4.46	4.38	86.95	92.21	1,730.02	1,732.48	1,723.63	8.85	195.816		
1,400.00	1,400.00	1,377.30	1,377.30	4.82	4.74	86.95	92.21	1,730.02	1,732.48	1,722.92	9.56	181.218		
1,500.00	1,500.00	1,477.30	1,477.30	5.18	5.10	86.95	92.21	1,730.02	1,732.48	1,722.21	10.27	168.636		
1,600.00	1,600.00	1,577.30	1,577.30	5.53	5.45	86.95	92.21	1,730.02	1,732.48	1,721.49	10.99	157.681		
1,700.00	1,700.00	1,677.30	1,677.30	5.89	5.81	86.95	92.21	1,730.02	1,732.48	1,720.78	11.70	148.058		
1,800.00	1,800.00	1,777.30	1,777.30	6.25	6.17	86.95	92.21	1,730.02	1,732.48	1,720.06	12.42	139.538		
1,900.00	1,900.00	1,877.30	1,877.30	6.61	6.52	86.95	92.21	1,730.02	1,732.48	1,719.35	13.13	131.942		
2,000.00	2,000.00	1,977.30	1,977.30	6.96	6.88	86.95	92.21	1,730.02	1,732.48	1,718.63	13.85	125.129		
2,100.00	2,099.99	2,077.29	2,077.29	7.31	7.24	-8.53	92.21	1,730.02	1,731.62	1,717.07	14.55	119.005		
2,200.00	2,199.96	2,177.26	2,177.26	7.65	7.60	-8.55	92.21	1,730.02	1,729.03	1,713.78	15.25	113.396		
2,300.00	2,299.86	2,277.16	2,277.16	7.99	7.95	-8.58	92.21	1,730.02	1,724.71	1,708.77	15.95	108.160		
2,399.87	2,399.54	2,370.81	2,370.81	8.34	8.29	-8.62	92.20	1,730.06	1,718.73	1,702.11	16.62	103.410		
2,500.00	2,499.43	2,448.35	2,448.35	8.69	8.55	-8.64	92.04	1,730.85	1,712.83	1,695.61	17.23	99.428		
2,600.00	2,599.19	2,525.90	2,525.87	9.03	8.81	-8.65	91.65	1,732.66	1,708.25	1,690.42	17.83	95.811		
2,700.00	2,698.94	2,603.53	2,603.44	9.39	9.08	-8.65	91.05	1,735.51	1,704.96	1,686.53	18.43	92.500		
2,800.00	2,798.70	2,681.21	2,681.02	9.74	9.34	-8.64	90.22	1,739.39	1,702.99	1,683.95	19.03	89.468		
2,900.00	2,898.46	2,758.91	2,758.56	10.09	9.61	-8.62	89.18	1,744.29	1,702.32	1,682.69	19.64	86.692		
2,900.77	2,899.23	2,759.51	2,759.16	10.09	9.61	-8.62	89.17	1,744.33	1,702.32	1,682.68	19.64	86.672 CC, ES		
3,000.00	2,998.21	2,836.61	2,836.03	10.45	9.88	-8.60	87.92	1,750.23	1,702.97	1,682.73	20.24	84.151		
3,100.00	3,097.97	2,914.28	2,913.37	10.80	10.15	-8.56	86.45	1,757.18	1,704.92	1,684.09	20.84	81.825		
3,200.00	3,197.73	2,991.88	2,990.54	11.16	10.42	-8.52	84.76	1,765.16	1,708.19	1,686.75	21.43	79.696		
3,300.00	3,297.48	3,069.40	3,067.51	11.52	10.69	-8.47	82.85	1,774.15	1,712.76	1,690.73	22.03	77.750		
3,400.00	3,397.24	3,146.80	3,144.23	11.88	10.97	-8.40	80.73	1,784.13	1,718.64	1,696.02	22.62	75.973		
3,500.00	3,497.00	3,224.05	3,220.67	12.24	11.25	-8.33	78.40	1,795.11	1,725.83	1,702.61	23.21	74.351		
3,600.00	3,596.75	3,300.00	3,295.65	12.60	11.53	-8.26	75.91	1,806.89	1,734.31	1,710.52	23.79	72.892		
3,700.00	3,696.51	3,378.01	3,372.50	12.96	11.81	-8.17	73.12	1,820.00	1,744.10	1,719.72	24.38	71.530		
3,800.00	3,796.27	3,454.66	3,447.83	13.32	12.10	-8.08	70.18	1,833.87	1,755.18	1,730.22	24.96	70.311		
3,900.00	3,896.02	3,542.09	3,533.54	13.68	12.44	-7.96	66.61	1,850.71	1,767.41	1,741.81	25.60	69.035		
4,000.00	3,995.78	3,641.24	3,630.72	14.04	12.82	-7.83	62.53	1,869.95	1,779.82	1,753.51	26.31	67.656		
4,100.00	4,095.54	3,740.38	3,727.90	14.40	13.21	-7.71	58.45	1,889.19	1,792.23	1,765.22	27.01	66.343		
4,200.00	4,195.29	3,839.53	3,825.08	14.77	13.60	-7.58	54.37	1,908.43	1,804.66	1,776.93	27.72	65.093		
4,300.00	4,295.05	3,938.68	3,922.26	15.13	13.99	-7.46	50.29	1,927.67	1,817.09	1,788.65	28.44	63.901		
4,400.00	4,394.81	4,037.83	4,019.44	15.49	14.39	-7.34	46.20	1,946.91	1,829.53	1,800.38	29.15	62.763		
4,500.00	4,494.56	4,136.98	4,116.61	15.86	14.80	-7.22	42.12	1,966.15	1,841.98	1,812.11	29.86	61.677		
4,600.00	4,594.32	4,236.13	4,213.79	16.22	15.20	-7.10	38.04	1,985.39	1,854.43	1,823.85	30.58	60.639		
4,700.00	4,694.08	4,335.27	4,310.97	16.59	15.61	-6.98	33.96	2,004.63	1,866.90	1,835.60	31.30	59.646		
4,800.00	4,793.83	4,434.42	4,408.15	16.95	16.02	-6.87	29.88	2,023.87	1,879.37	1,847.35	32.02	58.696		
4,900.00	4,893.59	4,533.57	4,505.33	17.32	16.44	-6.75	25.80	2,043.11	1,891.85	1,859.11	32.74	57.785		
5,000.00	4,993.35	4,632.72	4,602.50	17.68	16.85	-6.64	21.72	2,062.35	1,904.34	1,870.87	33.46	56.912		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	4,731.87	4,699.68	18.05	17.27	-6.53	17.64	2,081.59	1,916.83	1,882.65	34.18	56.075		
5,200.00	5,192.86	4,831.02	4,796.86	18.42	17.69	-6.42	13.55	2,100.83	1,929.33	1,894.42	34.91	55.270		
5,300.00	5,292.62	4,930.17	4,894.04	18.78	18.11	-6.31	9.47	2,120.07	1,941.84	1,906.20	35.63	54.498		
5,400.00	5,392.37	5,029.31	4,991.22	19.15	18.54	-6.20	5.39	2,139.31	1,954.35	1,917.99	36.36	53.755		
5,500.00	5,492.13	5,128.46	5,088.40	19.52	18.96	-6.10	1.31	2,158.55	1,966.87	1,929.79	37.08	53.040		
5,600.00	5,591.89	5,227.61	5,185.57	19.88	19.39	-6.00	-2.77	2,177.79	1,979.40	1,941.59	37.81	52.352		
5,700.00	5,691.64	5,326.76	5,282.75	20.25	19.82	-5.89	-6.85	2,197.03	1,991.93	1,953.39	38.54	51.689		
5,800.00	5,791.40	5,425.91	5,379.93	20.62	20.24	-5.79	-10.93	2,216.27	2,004.47	1,965.21	39.27	51.050		
5,900.00	5,891.16	5,525.06	5,477.11	20.98	20.67	-5.69	-15.01	2,235.51	2,017.02	1,977.02	39.99	50.433		
6,000.00	5,990.91	5,624.21	5,574.29	21.35	21.11	-5.59	-19.10	2,254.75	2,029.57	1,988.85	40.72	49.838		
6,100.00	6,090.67	5,723.35	5,671.46	21.72	21.54	-5.49	-23.18	2,273.99	2,042.13	2,000.67	41.45	49.264		
6,200.00	6,190.42	5,822.50	5,768.64	22.09	21.97	-5.40	-27.26	2,293.23	2,054.69	2,012.51	42.18	48.709		
6,300.00	6,290.18	5,921.65	5,865.82	22.45	22.41	-5.30	-31.34	2,312.47	2,067.26	2,024.34	42.91	48.172		
6,400.00	6,389.94	6,020.80	5,963.00	22.82	22.84	-5.21	-35.42	2,331.71	2,079.83	2,036.19	43.65	47.653		
6,500.00	6,489.69	6,119.95	6,060.18	23.19	23.28	-5.12	-39.50	2,350.95	2,092.41	2,048.04	44.38	47.151		
6,600.00	6,589.45	6,219.10	6,157.35	23.56	23.71	-5.02	-43.58	2,370.19	2,105.00	2,059.89	45.11	46.665		
6,700.00	6,689.21	6,318.25	6,254.53	23.93	24.15	-4.93	-47.66	2,389.43	2,117.59	2,071.75	45.84	46.194		
6,800.00	6,788.96	6,417.39	6,351.71	24.29	24.59	-4.84	-51.74	2,408.67	2,130.19	2,083.61	46.57	45.738		
6,900.00	6,888.72	6,516.54	6,448.89	24.66	25.03	-4.75	-55.83	2,427.91	2,142.79	2,095.48	47.31	45.296		
7,000.00	6,988.48	6,615.69	6,546.07	25.03	25.47	-4.67	-59.91	2,447.15	2,155.39	2,107.35	48.04	44.867		
7,100.00	7,088.23	6,714.84	6,643.25	25.40	25.91	-4.58	-63.99	2,466.39	2,168.00	2,119.23	48.77	44.450		
7,200.00	7,187.99	6,813.99	6,740.42	25.77	26.35	-4.49	-68.07	2,485.63	2,180.62	2,131.11	49.51	44.046		
7,300.00	7,287.75	6,913.14	6,837.60	26.14	26.79	-4.41	-72.15	2,504.87	2,193.24	2,143.00	50.24	43.654		
7,400.00	7,387.50	7,012.28	6,934.78	26.50	27.23	-4.33	-76.23	2,524.11	2,205.87	2,154.89	50.98	43.273		
7,500.00	7,487.26	7,111.43	7,031.96	26.87	27.68	-4.24	-80.31	2,543.35	2,218.50	2,166.78	51.71	42.902		
7,600.00	7,587.02	7,210.58	7,129.14	27.24	28.12	-4.16	-84.39	2,562.59	2,231.13	2,178.68	52.45	42.542		
7,700.00	7,686.77	7,309.73	7,226.31	27.61	28.56	-4.08	-88.48	2,581.83	2,243.77	2,190.59	53.18	42.191		
7,800.00	7,786.53	7,408.88	7,323.49	27.98	29.01	-4.00	-92.56	2,601.07	2,256.41	2,202.50	53.92	41.850		
7,900.00	7,886.29	7,508.03	7,420.67	28.35	29.45	-3.92	-96.64	2,620.31	2,269.06	2,214.41	54.65	41.519		
8,000.00	7,986.04	7,607.18	7,517.85	28.72	29.89	-3.84	-100.72	2,639.55	2,281.71	2,226.32	55.39	41.195		
8,100.00	8,085.80	7,706.32	7,615.03	29.09	30.34	-3.77	-104.80	2,658.79	2,294.37	2,238.24	56.12	40.881		
8,200.00	8,185.56	7,805.47	7,712.21	29.46	30.78	-3.69	-108.88	2,678.03	2,307.03	2,250.17	56.86	40.574		
8,300.00	8,285.31	7,904.62	7,809.38	29.83	31.23	-3.61	-112.96	2,697.27	2,319.69	2,262.09	57.60	40.275		
8,400.00	8,385.07	8,003.77	7,906.56	30.20	31.68	-3.54	-117.04	2,716.51	2,332.36	2,274.03	58.33	39.984		
8,500.00	8,484.83	8,102.92	8,003.74	30.56	32.12	-3.46	-121.13	2,735.75	2,345.03	2,285.96	59.07	39.700		
8,600.00	8,584.58	8,203.85	8,101.52	30.93	32.57	-3.34	-125.21	2,755.00	2,357.70	2,297.89	59.80	39.416		
8,700.00	8,684.34	8,303.78	8,200.45	31.30	33.02	-3.23	-129.29	2,774.25	2,370.45	2,309.82	60.53	39.132		
8,800.00	8,784.10	8,403.71	8,299.32	31.67	33.47	-3.12	-133.37	2,793.50	2,383.20	2,321.75	61.26	38.848		
8,900.00	8,883.85	8,503.64	8,398.19	32.04	33.92	-3.01	-137.45	2,812.75	2,395.95	2,333.70	61.99	38.564		
9,000.00	8,983.61	8,603.57	8,497.12	32.41	34.37	-2.90	-141.53	2,832.00	2,408.70	2,345.65	62.72	38.280		
9,100.00	9,083.37	8,703.50	8,596.05	32.78	34.82	-2.79	-145.61	2,851.25	2,421.45	2,357.60	63.45	38.000		
9,200.00	9,183.12	8,803.43	8,694.98	33.15	35.27	-2.68	-149.69	2,870.50	2,434.20	2,369.55	64.18	37.720		
9,300.00	9,282.88	8,903.36	8,793.91	33.52	35.72	-2.57	-153.77	2,889.75	2,446.95	2,381.50	64.91	37.440		
9,400.00	9,382.64	9,003.29	8,892.84	33.89	36.17	-2.46	-157.85	2,909.00	2,459.70	2,393.45	65.64	37.160		
9,428.07	9,410.64	9,526.44	9,412.01	33.99	37.04	-4.73	-78.93	2,818.57	2,317.15	2,249.77	67.39	34.386		
9,500.00	9,482.43	9,592.77	9,469.57	34.26	37.18	-5.55	-46.05	2,818.32	2,312.28	2,244.41	67.87	34.069		
9,600.00	9,582.36	9,670.78	9,531.86	34.62	37.32	-6.71	0.82	2,817.96	2,308.83	2,240.31	68.52	33.696		
9,626.58	9,608.93	9,688.94	9,545.40	34.71	37.34	-7.01	12.91	2,817.87	2,308.66	2,239.98	68.68	33.613		
9,694.65	9,677.00	9,731.03	9,575.28	34.95	37.40	87.73	42.55	2,817.64	2,309.81	2,240.72	69.09	33.431		
9,700.00	9,682.35	9,734.09	9,577.36	34.97	37.40	87.67	44.79	2,817.63	2,310.00	2,240.88	69.12	33.419		
9,800.00	9,782.35	9,785.29	9,610.43	35.31	37.46	86.70	83.85	2,817.33	2,314.97	2,245.31	69.66	33.232		
9,900.00	9,882.35	9,826.89	9,634.65	35.65	37.49	85.87	117.66	2,817.07	2,323.01	2,252.88	70.13	33.124		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	9,982.35	9,861.02	9,652.64	35.99	37.52	85.15	146.65	2,816.85	2,334.41	2,263.89	70.52	33.103		
10,044.69	10,027.04	9,874.31	9,659.18	36.14	37.52	84.86	158.23	2,816.76	2,340.65	2,269.98	70.67	33.122		
10,050.00	10,032.35	9,875.83	9,659.91	36.16	37.52	85.17	159.56	2,816.75	2,341.43	2,270.75	70.68	33.125		
10,100.00	10,082.26	9,890.65	9,666.84	36.32	37.53	84.09	172.66	2,816.65	2,349.11	2,278.28	70.83	33.166		
10,150.00	10,131.76	9,900.00	9,671.04	36.49	37.54	83.08	181.01	2,816.59	2,357.22	2,286.29	70.93	33.232		
10,200.00	10,180.46	9,922.61	9,680.63	36.65	37.54	81.80	201.49	2,816.43	2,365.60	2,294.54	71.06	33.288		
10,250.00	10,227.98	9,939.53	9,687.27	36.81	37.55	80.63	217.05	2,816.32	2,374.19	2,303.03	71.16	33.365		
10,300.00	10,273.98	9,950.00	9,691.15	36.95	37.55	79.57	226.77	2,816.24	2,382.88	2,311.66	71.21	33.461		
10,350.00	10,318.11	9,974.82	9,699.63	37.09	37.56	78.31	250.09	2,816.06	2,391.49	2,320.18	71.31	33.536		
10,400.00	10,360.01	10,000.00	9,707.19	37.21	37.56	77.10	274.11	2,815.88	2,400.00	2,328.59	71.40	33.613		
10,450.00	10,399.38	10,011.62	9,710.33	37.32	37.56	76.13	285.30	2,815.80	2,408.22	2,336.78	71.44	33.712		
10,500.00	10,435.92	10,030.47	9,714.92	37.42	37.57	75.11	303.58	2,815.66	2,416.12	2,344.62	71.50	33.794		
10,550.00	10,469.35	10,050.00	9,719.05	37.51	37.57	74.16	322.67	2,815.51	2,423.59	2,352.03	71.56	33.866		
10,600.00	10,499.41	10,068.86	9,722.41	37.59	37.57	73.30	341.22	2,815.37	2,430.54	2,358.91	71.63	33.931		
10,650.00	10,525.87	10,100.00	9,726.63	37.66	37.57	72.40	372.07	2,815.14	2,436.97	2,365.21	71.76	33.961		
10,700.00	10,548.54	10,100.00	9,726.63	37.74	37.57	71.86	372.07	2,815.14	2,442.63	2,370.84	71.79	34.023		
10,750.00	10,567.24	10,127.72	9,728.96	37.84	37.58	71.20	399.69	2,814.93	2,447.58	2,375.64	71.94	34.024		
10,800.00	10,581.83	10,150.00	9,729.87	37.97	37.58	70.68	421.95	2,814.76	2,451.78	2,379.70	72.08	34.015		
10,850.00	10,592.19	10,175.29	9,730.00	38.11	37.59	70.25	447.24	2,814.56	2,455.13	2,382.88	72.25	33.980		
10,900.00	10,598.26	10,224.91	9,730.00	38.25	37.61	69.93	496.85	2,814.19	2,457.20	2,384.68	72.52	33.883		
10,944.69	10,600.00	10,269.55	9,730.00	38.39	37.64	69.83	541.50	2,813.85	2,457.79	2,385.00	72.79	33.766		
11,000.00	10,600.00	10,324.86	9,730.00	38.56	37.69	69.83	596.81	2,813.43	2,457.78	2,384.63	73.15	33.600		
11,100.00	10,600.00	10,424.86	9,730.00	38.91	37.84	69.83	696.80	2,812.66	2,457.75	2,383.87	73.88	33.267		
11,200.00	10,600.00	10,524.86	9,730.00	39.31	38.08	69.83	796.80	2,811.90	2,457.73	2,383.02	74.71	32.899		
11,300.00	10,600.00	10,624.86	9,730.00	39.76	38.41	69.83	896.80	2,811.14	2,457.70	2,382.07	75.63	32.498		
11,400.00	10,600.00	10,724.86	9,730.00	40.25	38.83	69.83	996.80	2,810.38	2,457.68	2,381.04	76.64	32.069		
11,500.00	10,600.00	10,824.86	9,730.00	40.79	39.33	69.83	1,096.79	2,809.62	2,457.65	2,379.91	77.74	31.615		
11,600.00	10,600.00	10,924.86	9,730.00	41.37	39.89	69.83	1,196.79	2,808.86	2,457.63	2,378.71	78.92	31.142		
11,700.00	10,600.00	11,024.86	9,730.00	41.99	40.51	69.83	1,296.79	2,808.10	2,457.60	2,377.42	80.18	30.652		
11,800.00	10,600.00	11,124.86	9,730.00	42.65	41.17	69.83	1,396.78	2,807.34	2,457.58	2,376.06	81.52	30.149		
11,900.00	10,600.00	11,224.86	9,730.00	43.35	41.88	69.83	1,496.78	2,806.58	2,457.55	2,374.63	82.92	29.636		
12,000.00	10,600.00	11,324.86	9,730.00	44.09	42.64	69.83	1,596.78	2,805.82	2,457.53	2,373.12	84.40	29.117		
12,100.00	10,600.00	11,424.86	9,730.00	44.86	43.43	69.83	1,696.77	2,805.06	2,457.50	2,371.56	85.94	28.594		
12,200.00	10,600.00	11,524.86	9,730.00	45.67	44.25	69.83	1,796.77	2,804.29	2,457.48	2,369.93	87.55	28.070		
12,300.00	10,600.00	11,624.86	9,730.00	46.50	45.11	69.83	1,896.77	2,803.53	2,457.45	2,368.24	89.21	27.547		
12,400.00	10,600.00	11,724.86	9,730.00	47.37	46.00	69.83	1,996.77	2,802.77	2,457.43	2,366.50	90.93	27.026		
12,500.00	10,600.00	11,824.86	9,730.00	48.26	46.91	69.83	2,096.76	2,802.01	2,457.40	2,364.70	92.70	26.510		
12,600.00	10,600.00	11,924.86	9,730.00	49.18	47.86	69.83	2,196.76	2,801.25	2,457.38	2,362.86	94.52	26.000		
12,700.00	10,600.00	12,024.86	9,730.00	50.13	48.83	69.83	2,296.76	2,800.49	2,457.35	2,360.97	96.38	25.496		
12,800.00	10,600.00	12,124.86	9,730.00	51.10	49.82	69.83	2,396.75	2,799.73	2,457.33	2,359.04	98.29	25.001		
12,900.00	10,600.00	12,224.86	9,730.00	52.09	50.83	69.83	2,496.75	2,798.97	2,457.30	2,357.06	100.24	24.514		
13,000.00	10,600.00	12,324.86	9,730.00	53.10	51.87	69.83	2,596.75	2,798.21	2,457.28	2,355.05	102.23	24.037		
13,100.00	10,600.00	12,424.86	9,730.00	54.14	52.92	69.83	2,696.75	2,797.45	2,457.25	2,353.00	104.25	23.570		
13,200.00	10,600.00	12,524.86	9,730.00	55.19	54.00	69.83	2,796.74	2,796.68	2,457.23	2,350.92	106.31	23.113		
13,300.00	10,600.00	12,624.86	9,730.00	56.26	55.09	69.83	2,896.74	2,795.92	2,457.20	2,348.80	108.40	22.667		
13,400.00	10,600.00	12,724.86	9,730.00	57.35	56.20	69.83	2,996.74	2,795.16	2,457.18	2,346.65	110.53	22.232		
13,500.00	10,600.00	12,824.86	9,730.00	58.45	57.32	69.83	3,096.73	2,794.40	2,457.15	2,344.47	112.68	21.807		
13,600.00	10,600.00	12,924.86	9,730.00	59.57	58.46	69.83	3,196.73	2,793.64	2,457.13	2,342.27	114.86	21.393		
13,700.00	10,600.00	13,024.86	9,730.00	60.71	59.61	69.83	3,296.73	2,792.88	2,457.10	2,340.04	117.06	20.990		
13,800.00	10,600.00	13,124.86	9,730.00	61.85	60.78	69.83	3,396.73	2,792.12	2,457.08	2,337.79	119.29	20.597		
13,900.00	10,600.00	13,224.86	9,730.00	63.01	61.95	69.83	3,496.72	2,791.36	2,457.05	2,335.51	121.54	20.215		
14,000.00	10,600.00	13,324.86	9,730.00	64.18	63.14	69.83	3,596.72	2,790.60	2,457.03	2,333.21	123.82	19.844		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	13,424.86	9,730.00	65.37	64.34	69.83	3,696.72	2,789.84	2,457.00	2,330.89	126.11	19.483	
14,200.00	10,600.00	13,524.86	9,730.00	66.56	65.55	69.83	3,796.71	2,789.07	2,456.98	2,328.55	128.43	19.131	
14,300.00	10,600.00	13,624.86	9,730.00	67.76	66.77	69.83	3,896.71	2,788.31	2,456.95	2,326.19	130.76	18.790	
14,400.00	10,600.00	13,724.86	9,730.00	68.98	68.00	69.83	3,996.71	2,787.55	2,456.93	2,323.82	133.11	18.458	
14,500.00	10,600.00	13,824.86	9,730.00	70.20	69.24	69.83	4,096.71	2,786.79	2,456.90	2,321.43	135.48	18.135	
14,600.00	10,600.00	13,924.86	9,730.00	71.43	70.48	69.83	4,196.70	2,786.03	2,456.88	2,319.02	137.86	17.822	
14,700.00	10,600.00	14,024.86	9,730.00	72.67	71.74	69.83	4,296.70	2,785.27	2,456.85	2,316.60	140.26	17.517	
14,800.00	10,600.00	14,124.86	9,730.00	73.92	73.00	69.83	4,396.70	2,784.51	2,456.83	2,314.16	142.67	17.221	
14,900.00	10,600.00	14,224.86	9,730.00	75.17	74.27	69.83	4,496.69	2,783.75	2,456.80	2,311.71	145.09	16.933	
15,000.00	10,600.00	14,324.86	9,730.00	76.44	75.54	69.83	4,596.69	2,782.99	2,456.78	2,309.25	147.53	16.653	
15,100.00	10,600.00	14,424.86	9,730.00	77.70	76.82	69.83	4,696.69	2,782.23	2,456.75	2,306.77	149.98	16.380	
15,200.00	10,600.00	14,524.86	9,730.00	78.98	78.11	69.82	4,796.68	2,781.47	2,456.73	2,304.29	152.44	16.116	
15,300.00	10,600.00	14,624.86	9,730.00	80.26	79.40	69.82	4,896.68	2,780.70	2,456.70	2,301.79	154.92	15.858	
15,400.00	10,600.00	14,724.86	9,730.00	81.55	80.70	69.82	4,996.68	2,779.94	2,456.68	2,299.28	157.40	15.608	
15,484.47	10,600.00	14,809.33	9,730.00	82.64	81.80	69.82	5,081.15	2,779.30	2,456.66	2,297.15	159.50	15.402 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.85	91.87	1,670.02	1,672.70					
100.00	100.00	77.60	77.60	0.52	0.51	86.85	91.87	1,670.02	1,672.55	1,671.52	1.03	1,626.168		
200.00	200.00	177.60	177.60	0.70	0.65	86.85	91.87	1,670.02	1,672.55	1,671.20	1.35	1,238.593		
300.00	300.00	277.60	277.60	0.99	0.92	86.85	91.87	1,670.02	1,672.55	1,670.64	1.91	877.365		
400.00	400.00	377.60	377.60	1.31	1.24	86.85	91.87	1,670.02	1,672.55	1,670.00	2.54	657.358		
500.00	500.00	477.60	477.60	1.65	1.57	86.85	91.87	1,670.02	1,672.55	1,669.33	3.22	520.093		
600.00	600.00	577.60	577.60	1.99	1.91	86.85	91.87	1,670.02	1,672.55	1,668.64	3.90	428.464		
700.00	700.00	677.60	677.60	2.34	2.26	86.85	91.87	1,670.02	1,672.55	1,667.95	4.60	363.577		
800.00	800.00	777.60	777.60	2.69	2.61	86.85	91.87	1,670.02	1,672.55	1,667.25	5.30	315.436		
900.00	900.00	877.60	877.60	3.04	2.96	86.85	91.87	1,670.02	1,672.55	1,666.54	6.01	278.390		
1,000.00	1,000.00	977.60	977.60	3.40	3.32	86.85	91.87	1,670.02	1,672.55	1,665.83	6.72	249.042		
1,100.00	1,100.00	1,077.60	1,077.60	3.75	3.67	86.85	91.87	1,670.02	1,672.55	1,665.12	7.43	225.240		
1,200.00	1,200.00	1,177.60	1,177.60	4.11	4.03	86.85	91.87	1,670.02	1,672.55	1,664.41	8.14	205.558		
1,300.00	1,300.00	1,277.60	1,277.60	4.46	4.38	86.85	91.87	1,670.02	1,672.55	1,663.70	8.85	189.019		
1,400.00	1,400.00	1,377.60	1,377.60	4.82	4.74	86.85	91.87	1,670.02	1,672.55	1,662.99	9.56	174.930		
1,500.00	1,500.00	1,477.60	1,477.60	5.18	5.10	86.85	91.87	1,670.02	1,672.55	1,662.27	10.27	162.786		
1,600.00	1,600.00	1,577.60	1,577.60	5.53	5.45	86.85	91.87	1,670.02	1,672.55	1,661.56	10.99	152.212		
1,700.00	1,700.00	1,677.60	1,677.60	5.89	5.81	86.85	91.87	1,670.02	1,672.55	1,660.85	11.70	142.923		
1,800.00	1,800.00	1,777.60	1,777.60	6.25	6.17	86.85	91.87	1,670.02	1,672.55	1,660.13	12.42	134.699		
1,900.00	1,900.00	1,877.60	1,877.60	6.61	6.53	86.85	91.87	1,670.02	1,672.55	1,659.42	13.13	127.368		
2,000.00	2,000.00	1,977.60	1,977.60	6.96	6.88	86.85	91.87	1,670.02	1,672.55	1,658.70	13.85	120.791		
2,100.00	2,099.99	2,077.59	2,077.59	7.31	7.24	-8.63	91.87	1,670.02	1,671.69	1,657.13	14.55	114.878		
2,200.00	2,199.96	2,177.56	2,177.56	7.65	7.60	-8.65	91.87	1,670.02	1,669.10	1,653.85	15.25	109.458		
2,300.00	2,299.86	2,277.46	2,277.46	7.99	7.96	-8.68	91.87	1,670.02	1,664.79	1,648.84	15.95	104.394		
2,399.87	2,399.54	2,377.14	2,377.14	8.34	8.31	-8.72	91.87	1,670.02	1,658.76	1,642.11	16.65	99.652		
2,500.00	2,499.43	2,477.03	2,477.03	8.69	8.67	-8.76	91.87	1,670.02	1,651.86	1,634.51	17.35	95.225		
2,600.00	2,599.19	2,576.79	2,576.79	9.03	9.03	-8.79	91.87	1,670.02	1,644.97	1,626.92	18.05	91.142		
2,700.00	2,698.94	2,676.54	2,676.54	9.39	9.38	-8.83	91.87	1,670.02	1,638.07	1,619.32	18.75	87.359		
2,800.00	2,798.70	2,776.30	2,776.30	9.74	9.74	-8.87	91.87	1,670.02	1,631.18	1,611.73	19.46	83.843		
2,900.00	2,898.46	2,876.06	2,876.06	10.09	10.10	-8.91	91.87	1,670.02	1,624.29	1,604.13	20.16	80.569		
3,000.00	2,998.21	2,975.81	2,975.81	10.45	10.46	-8.94	91.87	1,670.02	1,617.40	1,596.54	20.87	77.513		
3,100.00	3,097.97	3,075.57	3,075.57	10.80	10.81	-8.98	91.87	1,670.02	1,610.52	1,588.94	21.57	74.653		
3,200.00	3,197.73	3,175.33	3,175.33	11.16	11.17	-9.02	91.87	1,670.02	1,603.63	1,581.35	22.28	71.973		
3,300.00	3,297.48	3,275.08	3,275.08	11.52	11.53	-9.06	91.87	1,670.02	1,596.74	1,573.75	22.99	69.455		
3,400.00	3,397.24	3,374.84	3,374.84	11.88	11.88	-9.10	91.87	1,670.02	1,589.85	1,566.16	23.70	67.087		
3,500.00	3,497.00	3,474.60	3,474.60	12.24	12.24	-9.14	91.87	1,670.02	1,582.97	1,558.56	24.41	64.854		
3,600.00	3,596.75	3,574.35	3,574.35	12.60	12.60	-9.18	91.87	1,670.02	1,576.08	1,550.97	25.12	62.746		
3,700.00	3,696.51	3,674.11	3,674.11	12.96	12.96	-9.22	91.87	1,670.02	1,569.20	1,543.37	25.83	60.752		
3,800.00	3,796.27	3,773.87	3,773.87	13.32	13.31	-9.26	91.87	1,670.02	1,562.32	1,535.78	26.54	58.865		
3,900.00	3,896.02	3,873.62	3,873.62	13.68	13.67	-9.30	91.87	1,670.02	1,555.43	1,528.18	27.25	57.075		
4,000.00	3,995.78	3,973.38	3,973.38	14.04	14.03	-9.35	91.87	1,670.02	1,548.55	1,520.59	27.96	55.376		
4,100.00	4,095.54	4,077.29	4,077.29	14.40	14.39	-9.37	91.35	1,669.95	1,541.57	1,512.90	28.68	53.757		
4,200.00	4,195.29	4,182.65	4,182.62	14.77	14.73	-9.33	88.98	1,669.64	1,534.24	1,504.87	29.37	52.232		
4,300.00	4,295.05	4,285.56	4,285.45	15.13	15.06	-9.22	84.97	1,669.10	1,526.58	1,496.52	30.06	50.784		
4,400.00	4,394.81	4,385.22	4,385.02	15.49	15.39	-9.11	80.77	1,668.53	1,518.86	1,488.12	30.74	49.410		
4,500.00	4,494.56	4,484.87	4,484.58	15.86	15.71	-8.99	76.57	1,667.97	1,511.15	1,479.73	31.42	48.093		
4,600.00	4,594.32	4,584.53	4,584.15	16.22	16.04	-8.87	72.36	1,667.41	1,503.45	1,471.34	32.11	46.829		
4,700.00	4,694.08	4,684.18	4,683.71	16.59	16.37	-8.75	68.16	1,666.84	1,495.75	1,462.96	32.79	45.616		
4,800.00	4,793.83	4,783.84	4,783.28	16.95	16.70	-8.63	63.96	1,666.28	1,488.06	1,454.58	33.48	44.450		
4,900.00	4,893.59	4,883.49	4,882.84	17.32	17.03	-8.51	59.76	1,665.71	1,480.37	1,446.21	34.17	43.330		
5,000.00	4,993.35	4,983.15	4,982.41	17.68	17.36	-8.39	55.56	1,665.15	1,472.69	1,437.84	34.86	42.252		
5,100.00	5,093.10	5,082.80	5,081.97	18.05	17.70	-8.27	51.36	1,664.59	1,465.02	1,429.48	35.55	41.215		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,182.46	5,181.54	18.42	18.03	-8.14	47.15	1,664.02	1,457.36	1,421.12	36.24	40.216		
5,300.00	5,292.62	5,282.11	5,281.10	18.78	18.37	-8.01	42.95	1,663.46	1,449.70	1,412.77	36.93	39.253		
5,400.00	5,392.37	5,381.77	5,380.67	19.15	18.71	-7.89	38.75	1,662.89	1,442.05	1,404.42	37.63	38.325		
5,500.00	5,492.13	5,481.42	5,480.23	19.52	19.04	-7.76	34.55	1,662.33	1,434.40	1,396.08	38.32	37.429		
5,600.00	5,591.89	5,581.08	5,579.80	19.88	19.38	-7.63	30.35	1,661.77	1,426.77	1,387.75	39.02	36.565		
5,700.00	5,691.64	5,680.73	5,679.36	20.25	19.72	-7.50	26.14	1,661.20	1,419.14	1,379.42	39.72	35.731		
5,800.00	5,791.40	5,780.39	5,778.93	20.62	20.06	-7.36	21.94	1,660.64	1,411.52	1,371.10	40.42	34.924		
5,900.00	5,891.16	5,880.05	5,878.49	20.98	20.40	-7.23	17.74	1,660.08	1,403.90	1,362.79	41.12	34.145		
6,000.00	5,990.91	5,979.70	5,978.06	21.35	20.75	-7.09	13.54	1,659.51	1,396.30	1,354.48	41.82	33.391		
6,100.00	6,090.67	6,079.36	6,077.62	21.72	21.09	-6.95	9.34	1,658.95	1,388.70	1,346.18	42.52	32.661		
6,200.00	6,190.42	6,179.01	6,177.18	22.09	21.43	-6.81	5.14	1,658.38	1,381.11	1,337.89	43.22	31.955		
6,300.00	6,290.18	6,278.67	6,276.75	22.45	21.78	-6.67	0.93	1,657.82	1,373.53	1,329.61	43.92	31.271		
6,400.00	6,389.94	6,378.32	6,376.31	22.82	22.12	-6.53	-3.27	1,657.26	1,365.96	1,321.33	44.63	30.609		
6,500.00	6,489.69	6,477.98	6,475.88	23.19	22.47	-6.39	-7.47	1,656.69	1,358.39	1,313.06	45.33	29.966		
6,600.00	6,589.45	6,577.63	6,575.44	23.56	22.81	-6.24	-11.67	1,656.13	1,350.83	1,304.80	46.04	29.343		
6,700.00	6,689.21	6,677.29	6,675.01	23.93	23.16	-6.10	-15.87	1,655.56	1,343.29	1,296.55	46.74	28.739		
6,800.00	6,788.96	6,776.94	6,774.57	24.29	23.51	-5.95	-20.07	1,655.00	1,335.75	1,288.30	47.45	28.153		
6,900.00	6,888.72	6,876.60	6,874.14	24.66	23.85	-5.80	-24.28	1,654.44	1,328.22	1,280.07	48.15	27.583		
7,000.00	6,988.48	6,976.25	6,973.70	25.03	24.20	-5.64	-28.48	1,653.87	1,320.70	1,271.84	48.86	27.030		
7,100.00	7,088.23	7,075.91	7,073.27	25.40	24.55	-5.49	-32.68	1,653.31	1,313.19	1,263.62	49.57	26.493		
7,200.00	7,187.99	7,175.56	7,172.83	25.77	24.90	-5.33	-36.88	1,652.75	1,305.69	1,255.41	50.28	25.971		
7,300.00	7,287.75	7,275.22	7,272.40	26.14	25.25	-5.18	-41.08	1,652.18	1,298.20	1,247.21	50.98	25.463		
7,400.00	7,387.50	7,374.87	7,371.96	26.50	25.60	-5.02	-45.28	1,651.62	1,290.71	1,239.02	51.69	24.969		
7,500.00	7,487.26	7,474.53	7,471.53	26.87	25.95	-4.86	-49.49	1,651.05	1,283.24	1,230.84	52.40	24.488		
7,600.00	7,587.02	7,574.18	7,571.09	27.24	26.30	-4.69	-53.69	1,650.49	1,275.78	1,222.67	53.11	24.021		
7,700.00	7,686.77	7,673.84	7,670.66	27.61	26.65	-4.53	-57.89	1,649.93	1,268.33	1,214.51	53.82	23.565		
7,800.00	7,786.53	7,773.49	7,770.22	27.98	27.00	-4.36	-62.09	1,649.36	1,260.89	1,206.36	54.53	23.122		
7,900.00	7,886.29	7,873.15	7,869.79	28.35	27.35	-4.19	-66.29	1,648.80	1,253.46	1,198.22	55.24	22.690		
8,000.00	7,986.04	7,972.80	7,969.35	28.72	27.70	-4.02	-70.50	1,648.23	1,246.04	1,190.09	55.95	22.269		
8,100.00	8,085.80	8,072.46	8,068.92	29.09	28.06	-3.85	-74.70	1,647.67	1,238.63	1,181.97	56.67	21.858		
8,200.00	8,185.56	8,172.11	8,168.48	29.46	28.41	-3.67	-78.90	1,647.11	1,231.24	1,173.86	57.38	21.458		
8,300.00	8,285.31	8,271.77	8,268.05	29.83	28.76	-3.50	-83.10	1,646.54	1,223.85	1,165.76	58.09	21.068		
8,400.00	8,385.07	8,371.42	8,367.61	30.20	29.11	-3.32	-87.30	1,645.98	1,216.48	1,157.68	58.80	20.687		
8,500.00	8,484.83	8,471.08	8,467.18	30.56	29.47	-3.14	-91.50	1,645.41	1,209.12	1,149.60	59.52	20.316		
8,600.00	8,584.58	8,570.73	8,566.74	30.93	29.82	-2.95	-95.71	1,644.85	1,201.77	1,141.54	60.23	19.953		
8,700.00	8,684.34	8,670.39	8,666.31	31.30	30.17	-2.77	-99.91	1,644.29	1,194.43	1,133.49	60.94	19.600		
8,800.00	8,784.10	8,770.04	8,765.87	31.67	30.53	-2.58	-104.11	1,643.72	1,187.11	1,125.45	61.66	19.254		
8,900.00	8,883.85	8,869.70	8,865.44	32.04	30.88	-2.39	-108.31	1,643.16	1,179.80	1,117.43	62.37	18.916		
9,000.00	8,983.61	8,969.35	8,965.00	32.41	31.24	-2.20	-112.51	1,642.60	1,172.50	1,109.42	63.08	18.587		
9,100.00	9,083.37	9,069.01	9,064.57	32.78	31.59	-2.00	-116.71	1,642.03	1,165.22	1,101.42	63.80	18.264		
9,200.00	9,183.12	9,168.66	9,164.13	33.15	31.94	-1.80	-120.92	1,641.47	1,157.95	1,093.44	64.51	17.949		
9,300.00	9,282.88	9,268.32	9,263.69	33.52	32.30	-1.60	-125.12	1,640.90	1,150.69	1,085.46	65.23	17.641		
9,400.00	9,382.64	9,367.97	9,363.26	33.89	32.65	-1.40	-129.32	1,640.34	1,143.45	1,077.51	65.94	17.340		
9,428.07	9,410.64	9,404.05	9,391.21	33.99	32.78	-1.34	-130.50	1,640.18	1,141.42	1,075.25	66.17	17.249		
9,500.00	9,482.43	9,467.67	9,462.87	34.26	33.01	-1.19	-133.52	1,639.78	1,136.90	1,070.24	66.66	17.056		
9,600.00	9,582.36	9,566.73	9,561.84	34.62	33.36	-1.00	-137.41	1,639.25	1,132.89	1,065.52	67.37	16.816		
9,694.65	9,677.00	9,659.85	9,654.95	34.95	33.69	94.57	-139.07	1,639.03	1,131.62	1,063.59	68.03	16.635		
9,700.00	9,682.35	9,665.12	9,660.22	34.97	33.71	94.57	-139.09	1,639.03	1,131.62	1,063.56	68.06	16.626		
9,740.18	9,722.53	9,705.03	9,700.13	35.10	33.84	94.57	-139.13	1,639.02	1,131.62	1,063.28	68.34	16.558		
9,800.00	9,782.35	9,764.85	9,759.95	35.31	34.05	94.57	-139.13	1,639.02	1,131.62	1,062.87	68.75	16.460		
9,900.00	9,882.35	9,864.85	9,859.95	35.65	34.39	94.57	-139.13	1,639.02	1,131.62	1,062.18	69.44	16.297		
10,000.00	9,982.35	9,964.85	9,959.95	35.99	34.74	94.57	-139.13	1,639.02	1,131.62	1,061.49	70.13	16.137		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,009.54	10,004.64	36.14	34.89	94.57	-139.13	1,639.02	1,131.62	1,061.18	70.43	16.066		
10,050.00	10,032.35	10,014.85	10,009.95	36.16	34.91	94.99	-139.13	1,639.02	1,131.62	1,061.15	70.47	16.058		
10,100.00	10,082.26	10,071.76	10,066.83	36.32	35.10	95.06	-137.75	1,639.01	1,131.75	1,060.92	70.83	15.979		
10,150.00	10,131.76	10,132.41	10,127.00	36.49	35.31	95.11	-130.34	1,638.96	1,131.83	1,060.65	71.18	15.901		
10,200.00	10,180.46	10,193.14	10,186.12	36.65	35.50	95.11	-116.60	1,638.85	1,131.82	1,060.30	71.52	15.825		
10,250.00	10,227.98	10,253.78	10,243.38	36.81	35.69	95.06	-96.72	1,638.70	1,131.73	1,059.88	71.85	15.752		
10,300.00	10,273.98	10,314.21	10,298.03	36.95	35.86	94.96	-70.99	1,638.50	1,131.56	1,059.40	72.16	15.681		
10,350.00	10,318.11	10,374.29	10,349.38	37.09	36.03	94.81	-39.86	1,638.27	1,131.31	1,058.85	72.46	15.612		
10,400.00	10,360.01	10,433.90	10,396.83	37.21	36.19	94.63	-3.82	1,637.99	1,131.00	1,058.25	72.76	15.545		
10,450.00	10,399.38	10,492.93	10,439.88	37.32	36.34	94.40	36.53	1,637.69	1,130.64	1,057.60	73.05	15.479		
10,500.00	10,435.92	10,551.29	10,478.14	37.42	36.49	94.13	80.56	1,637.35	1,130.24	1,056.91	73.33	15.413		
10,550.00	10,469.35	10,608.90	10,511.32	37.51	36.63	93.83	127.63	1,636.99	1,129.82	1,056.20	73.62	15.347		
10,600.00	10,499.41	10,665.70	10,539.25	37.59	36.77	93.49	177.06	1,636.62	1,129.39	1,055.48	73.91	15.281		
10,650.00	10,525.87	10,721.66	10,561.84	37.66	36.90	93.13	228.22	1,636.23	1,128.96	1,054.76	74.20	15.216		
10,700.00	10,548.54	10,776.73	10,579.11	37.74	37.04	92.75	280.50	1,635.83	1,128.55	1,054.07	74.49	15.151		
10,750.00	10,567.24	10,830.92	10,591.12	37.84	37.17	92.35	333.32	1,635.43	1,128.18	1,053.40	74.78	15.086		
10,800.00	10,581.83	10,884.22	10,598.01	37.97	37.30	91.94	386.15	1,635.02	1,127.85	1,052.78	75.07	15.023		
10,850.00	10,592.19	10,936.39	10,600.00	38.11	37.43	91.51	438.27	1,634.63	1,127.58	1,052.22	75.36	14.962		
10,900.00	10,598.26	10,986.01	10,600.00	38.25	37.56	91.22	487.88	1,634.25	1,127.42	1,051.77	75.65	14.903		
10,944.69	10,600.00	11,030.66	10,600.00	38.39	37.69	91.14	532.52	1,633.91	1,127.37	1,051.46	75.91	14.851		
11,000.00	10,600.00	11,085.96	10,600.00	38.56	37.86	91.14	587.83	1,633.49	1,127.36	1,051.11	76.24	14.786		
11,100.00	10,600.00	11,185.96	10,600.00	38.91	38.22	91.14	687.83	1,632.73	1,127.33	1,050.40	76.93	14.653		
11,200.00	10,600.00	11,285.96	10,600.00	39.31	38.63	91.14	787.83	1,631.97	1,127.30	1,049.58	77.73	14.504		
11,300.00	10,600.00	11,385.96	10,600.00	39.76	39.08	91.14	887.82	1,631.20	1,127.28	1,048.66	78.62	14.339		
11,400.00	10,600.00	11,485.96	10,600.00	40.25	39.59	91.14	987.82	1,630.44	1,127.25	1,047.64	79.61	14.160		
11,500.00	10,600.00	11,585.96	10,600.00	40.79	40.14	91.14	1,087.82	1,629.68	1,127.22	1,046.54	80.69	13.970		
11,600.00	10,600.00	11,685.96	10,600.00	41.37	40.73	91.14	1,187.81	1,628.92	1,127.20	1,045.34	81.86	13.770		
11,700.00	10,600.00	11,785.96	10,600.00	41.99	41.37	91.14	1,287.81	1,628.16	1,127.17	1,044.05	83.12	13.561		
11,800.00	10,600.00	11,885.96	10,600.00	42.65	42.05	91.14	1,387.81	1,627.40	1,127.14	1,042.69	84.45	13.346		
11,900.00	10,600.00	11,985.96	10,600.00	43.35	42.77	91.14	1,487.81	1,626.64	1,127.12	1,041.25	85.87	13.126		
12,000.00	10,600.00	12,085.96	10,600.00	44.09	43.53	91.14	1,587.80	1,625.88	1,127.09	1,039.73	87.36	12.901		
12,100.00	10,600.00	12,185.96	10,600.00	44.86	44.32	91.14	1,687.80	1,625.11	1,127.06	1,038.14	88.92	12.675		
12,200.00	10,600.00	12,285.96	10,600.00	45.67	45.14	91.14	1,787.80	1,624.35	1,127.04	1,036.49	90.55	12.447		
12,300.00	10,600.00	12,385.96	10,600.00	46.50	45.99	91.14	1,887.79	1,623.59	1,127.01	1,034.77	92.24	12.218		
12,400.00	10,600.00	12,485.96	10,600.00	47.37	46.88	91.14	1,987.79	1,622.83	1,126.98	1,032.99	93.99	11.990		
12,500.00	10,600.00	12,585.96	10,600.00	48.26	47.79	91.14	2,087.79	1,622.07	1,126.96	1,031.16	95.80	11.764		
12,600.00	10,600.00	12,685.96	10,600.00	49.18	48.73	91.14	2,187.78	1,621.31	1,126.93	1,029.27	97.66	11.539		
12,700.00	10,600.00	12,785.96	10,600.00	50.13	49.69	91.14	2,287.78	1,620.55	1,126.90	1,027.33	99.57	11.318		
12,800.00	10,600.00	12,885.96	10,600.00	51.10	50.68	91.14	2,387.78	1,619.79	1,126.87	1,025.35	101.53	11.099		
12,900.00	10,600.00	12,985.96	10,600.00	52.09	51.69	91.14	2,487.78	1,619.02	1,126.85	1,023.31	103.53	10.884		
13,000.00	10,600.00	13,085.96	10,600.00	53.10	52.72	91.14	2,587.77	1,618.26	1,126.82	1,021.24	105.58	10.673		
13,100.00	10,600.00	13,185.96	10,600.00	54.14	53.77	91.14	2,687.77	1,617.50	1,126.79	1,019.13	107.66	10.466		
13,200.00	10,600.00	13,285.96	10,600.00	55.19	54.84	91.14	2,787.77	1,616.74	1,126.77	1,016.98	109.79	10.263		
13,300.00	10,600.00	13,385.96	10,600.00	56.26	55.93	91.14	2,887.76	1,615.98	1,126.74	1,014.79	111.95	10.065		
13,400.00	10,600.00	13,485.96	10,600.00	57.35	57.03	91.14	2,987.76	1,615.22	1,126.71	1,012.57	114.14	9.871		
13,500.00	10,600.00	13,585.96	10,600.00	58.45	58.15	91.14	3,087.76	1,614.46	1,126.69	1,010.32	116.36	9.683		
13,600.00	10,600.00	13,685.96	10,600.00	59.57	59.28	91.14	3,187.76	1,613.70	1,126.66	1,008.04	118.62	9.498		
13,700.00	10,600.00	13,785.96	10,600.00	60.71	60.43	91.14	3,287.75	1,612.93	1,126.63	1,005.73	120.90	9.319		
13,800.00	10,600.00	13,885.96	10,600.00	61.85	61.59	91.14	3,387.75	1,612.17	1,126.61	1,003.40	123.21	9.144		
13,900.00	10,600.00	13,985.96	10,600.00	63.01	62.76	91.14	3,487.75	1,611.41	1,126.58	1,001.04	125.54	8.974		
14,000.00	10,600.00	14,085.96	10,600.00	64.18	63.94	91.14	3,587.74	1,610.65	1,126.55	998.65	127.90	8.808		
14,100.00	10,600.00	14,185.96	10,600.00	65.37	65.14	91.14	3,687.74	1,609.89	1,126.53	996.25	130.28	8.647		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,285.96	10,600.00	66.56	66.34	91.14	3,787.74	1,609.13	1,126.50	993.82	132.68	8.490	
14,300.00	10,600.00	14,385.96	10,600.00	67.76	67.56	91.14	3,887.74	1,608.37	1,126.47	991.37	135.10	8.338	
14,400.00	10,600.00	14,485.96	10,600.00	68.98	68.78	91.14	3,987.73	1,607.60	1,126.44	988.90	137.54	8.190	
14,500.00	10,600.00	14,585.96	10,600.00	70.20	70.02	91.14	4,087.73	1,606.84	1,126.42	986.42	140.00	8.046	
14,600.00	10,600.00	14,685.96	10,600.00	71.43	71.26	91.14	4,187.73	1,606.08	1,126.39	983.92	142.47	7.906	
14,700.00	10,600.00	14,785.96	10,600.00	72.67	72.51	91.14	4,287.72	1,605.32	1,126.36	981.40	144.97	7.770	
14,800.00	10,600.00	14,885.96	10,600.00	73.92	73.77	91.14	4,387.72	1,604.56	1,126.34	978.86	147.47	7.638	
14,900.00	10,600.00	14,985.96	10,600.00	75.17	75.03	91.14	4,487.72	1,603.80	1,126.31	976.32	149.99	7.509	
15,000.00	10,600.00	15,085.96	10,600.00	76.44	76.30	91.14	4,587.72	1,603.04	1,126.28	973.75	152.53	7.384	
15,100.00	10,600.00	15,185.96	10,600.00	77.70	77.58	91.14	4,687.71	1,602.28	1,126.26	971.18	155.08	7.263	
15,200.00	10,600.00	15,285.96	10,600.00	78.98	78.87	91.14	4,787.71	1,601.51	1,126.23	968.59	157.64	7.144	
15,300.00	10,600.00	15,385.96	10,600.00	80.26	80.16	91.14	4,887.71	1,600.75	1,126.20	965.99	160.21	7.029	
15,400.00	10,600.00	15,485.96	10,600.00	81.55	81.45	91.14	4,987.70	1,599.99	1,126.18	963.38	162.80	6.918	
15,484.47	10,600.00	15,570.43	10,600.00	82.64	82.55	91.14	5,072.17	1,599.35	1,126.15	961.16	164.99	6.826	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	87.00	92.38	1,760.02	1,762.59					
100.00	100.00	77.20	77.20	0.52	0.51	87.00	92.38	1,760.02	1,762.45	1,761.42	1.03	1,713.756		
200.00	200.00	177.20	177.20	0.70	0.65	87.00	92.38	1,760.02	1,762.45	1,761.10	1.35	1,306.047		
300.00	300.00	277.20	277.20	0.99	0.92	87.00	92.38	1,760.02	1,762.45	1,760.54	1.91	925.106		
400.00	400.00	377.20	377.20	1.31	1.23	87.00	92.38	1,760.02	1,762.45	1,759.90	2.54	693.047		
500.00	500.00	477.20	477.20	1.65	1.57	87.00	92.38	1,760.02	1,762.45	1,759.23	3.21	548.280		
600.00	600.00	577.20	577.20	1.99	1.91	87.00	92.38	1,760.02	1,762.45	1,758.54	3.90	451.654		
700.00	700.00	677.20	677.20	2.34	2.26	87.00	92.38	1,760.02	1,762.45	1,757.85	4.60	383.236		
800.00	800.00	777.20	777.20	2.69	2.61	87.00	92.38	1,760.02	1,762.45	1,757.15	5.30	332.479		
900.00	900.00	877.20	877.20	3.04	2.96	87.00	92.38	1,760.02	1,762.45	1,756.44	6.01	293.423		
1,000.00	1,000.00	977.20	977.20	3.40	3.32	87.00	92.38	1,760.02	1,762.45	1,755.73	6.71	262.483		
1,100.00	1,100.00	1,077.20	1,077.20	3.75	3.67	87.00	92.38	1,760.02	1,762.45	1,755.02	7.42	237.392		
1,200.00	1,200.00	1,177.20	1,177.20	4.11	4.03	87.00	92.38	1,760.02	1,762.45	1,754.31	8.14	216.645		
1,300.00	1,300.00	1,277.20	1,277.20	4.46	4.38	87.00	92.38	1,760.02	1,762.45	1,753.60	8.85	199.211		
1,400.00	1,400.00	1,377.20	1,377.20	4.82	4.74	87.00	92.38	1,760.02	1,762.45	1,752.89	9.56	184.360		
1,500.00	1,500.00	1,477.20	1,477.20	5.18	5.10	87.00	92.38	1,760.02	1,762.45	1,752.17	10.27	171.559		
1,600.00	1,600.00	1,577.20	1,577.20	5.53	5.45	87.00	92.38	1,760.02	1,762.45	1,751.46	10.99	160.414		
1,700.00	1,700.00	1,677.20	1,677.20	5.89	5.81	87.00	92.38	1,760.02	1,762.45	1,750.75	11.70	150.623		
1,800.00	1,800.00	1,777.20	1,777.20	6.25	6.17	87.00	92.38	1,760.02	1,762.45	1,750.03	12.42	141.955		
1,900.00	1,900.00	1,877.20	1,877.20	6.61	6.52	87.00	92.38	1,760.02	1,762.45	1,749.32	13.13	134.228		
2,000.00	2,000.00	1,977.20	1,977.20	6.96	6.88	87.00	92.38	1,760.02	1,762.45	1,748.60	13.85	127.297		
2,100.00	2,099.99	2,059.54	2,059.54	7.31	7.17	-8.48	92.31	1,760.33	1,761.97	1,747.49	14.48	121.682		
2,200.00	2,199.96	2,136.66	2,136.65	7.65	7.43	-8.48	92.03	1,761.62	1,761.03	1,745.95	15.08	116.775		
2,300.00	2,299.86	2,213.79	2,213.75	7.99	7.70	-8.48	91.53	1,763.92	1,759.67	1,743.99	15.68	112.246		
2,399.87	2,399.54	2,290.83	2,290.71	8.34	7.96	-8.48	90.81	1,767.23	1,757.88	1,741.60	16.27	108.026		
2,500.00	2,499.43	2,368.10	2,367.85	8.69	8.22	-8.46	89.86	1,771.57	1,756.52	1,739.65	16.87	104.118		
2,554.30	2,553.60	2,410.00	2,409.65	8.88	8.37	-8.45	89.26	1,774.35	1,756.33	1,739.13	17.19	102.144 CC		
2,600.00	2,599.19	2,445.27	2,444.83	9.03	8.49	-8.44	88.69	1,776.92	1,756.46	1,738.99	17.47	100.557 ES		
2,700.00	2,698.94	2,522.43	2,521.71	9.39	8.76	-8.41	87.31	1,783.28	1,757.71	1,739.64	18.06	97.306		
2,800.00	2,798.70	2,600.00	2,598.90	9.74	9.03	-8.37	85.69	1,790.69	1,760.25	1,741.59	18.66	94.326		
2,900.00	2,898.46	2,676.58	2,675.01	10.09	9.30	-8.33	83.88	1,799.01	1,764.09	1,744.84	19.25	91.622		
3,000.00	2,998.21	2,753.51	2,751.34	10.45	9.57	-8.27	81.84	1,808.36	1,769.23	1,749.39	19.85	89.142		
3,100.00	3,097.97	2,830.32	2,827.42	10.80	9.85	-8.21	79.58	1,818.70	1,775.67	1,755.23	20.44	86.879		
3,200.00	3,197.73	2,912.60	2,908.75	11.16	10.15	-8.13	76.93	1,830.83	1,783.37	1,762.31	21.05	84.701		
3,300.00	3,297.48	3,012.22	3,007.18	11.52	10.52	-8.03	73.66	1,845.86	1,791.43	1,769.68	21.76	82.343		
3,400.00	3,397.24	3,111.85	3,105.62	11.88	10.89	-7.94	70.38	1,860.89	1,799.50	1,777.05	22.46	80.123		
3,500.00	3,497.00	3,211.48	3,204.05	12.24	11.26	-7.84	67.10	1,875.92	1,807.58	1,784.42	23.16	78.031		
3,600.00	3,596.75	3,311.11	3,302.49	12.60	11.64	-7.75	63.82	1,890.95	1,815.66	1,791.79	23.87	76.057		
3,700.00	3,696.51	3,410.74	3,400.92	12.96	12.02	-7.66	60.54	1,905.99	1,823.75	1,799.17	24.58	74.191		
3,800.00	3,796.27	3,510.37	3,499.36	13.32	12.40	-7.56	57.26	1,921.02	1,831.84	1,806.55	25.29	72.425		
3,900.00	3,896.02	3,610.00	3,597.79	13.68	12.79	-7.47	53.98	1,936.05	1,839.94	1,813.93	26.01	70.751		
4,000.00	3,995.78	3,709.63	3,696.22	14.04	13.18	-7.38	50.71	1,951.08	1,848.04	1,821.32	26.72	69.163		
4,100.00	4,095.54	3,809.26	3,794.66	14.40	13.57	-7.29	47.43	1,966.11	1,856.14	1,828.71	27.44	67.656		
4,200.00	4,195.29	3,908.89	3,893.09	14.77	13.96	-7.21	44.15	1,981.14	1,864.25	1,836.10	28.15	66.222		
4,300.00	4,295.05	4,008.52	3,991.53	15.13	14.35	-7.12	40.87	1,996.17	1,872.37	1,843.50	28.87	64.857		
4,400.00	4,394.81	4,108.15	4,089.96	15.49	14.74	-7.03	37.59	2,011.20	1,880.48	1,850.90	29.59	63.556		
4,500.00	4,494.56	4,207.78	4,188.40	15.86	15.14	-6.94	34.31	2,026.23	1,888.61	1,858.30	30.31	62.315		
4,600.00	4,594.32	4,307.40	4,286.83	16.22	15.53	-6.86	31.03	2,041.26	1,896.73	1,865.70	31.03	61.131		
4,700.00	4,694.08	4,407.03	4,385.26	16.59	15.93	-6.77	27.76	2,056.29	1,904.86	1,873.11	31.75	59.998		
4,800.00	4,793.83	4,506.66	4,483.70	16.95	16.33	-6.69	24.48	2,071.32	1,913.00	1,880.53	32.47	58.915		
4,900.00	4,893.59	4,606.29	4,582.13	17.32	16.73	-6.61	21.20	2,086.35	1,921.14	1,887.94	33.19	57.878		
5,000.00	4,993.35	4,705.92	4,680.57	17.68	17.13	-6.52	17.92	2,101.38	1,929.28	1,895.36	33.92	56.884		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	4,805.55	4,779.00	18.05	17.53	-6.44	14.64	2,116.41	1,937.43	1,902.79	34.64	55.931		
5,200.00	5,192.86	4,905.18	4,877.44	18.42	17.94	-6.36	11.36	2,131.45	1,945.58	1,910.21	35.36	55.016		
5,300.00	5,292.62	5,004.81	4,975.87	18.78	18.34	-6.28	8.08	2,146.48	1,953.73	1,917.64	36.09	54.137		
5,400.00	5,392.37	5,104.44	5,074.30	19.15	18.74	-6.20	4.80	2,161.51	1,961.89	1,925.08	36.81	53.293		
5,500.00	5,492.13	5,204.07	5,172.74	19.52	19.15	-6.12	1.53	2,176.54	1,970.05	1,932.52	37.54	52.480		
5,600.00	5,591.89	5,303.70	5,271.17	19.88	19.55	-6.04	-1.75	2,191.57	1,978.22	1,939.96	38.27	51.698		
5,700.00	5,691.64	5,403.33	5,369.61	20.25	19.96	-5.96	-5.03	2,206.60	1,986.39	1,947.40	38.99	50.944		
5,800.00	5,791.40	5,502.96	5,468.04	20.62	20.36	-5.88	-8.31	2,221.63	1,994.56	1,954.85	39.72	50.218		
5,900.00	5,891.16	5,602.59	5,566.48	20.98	20.77	-5.81	-11.59	2,236.66	2,002.74	1,962.30	40.45	49.517		
6,000.00	5,990.91	5,702.21	5,664.91	21.35	21.18	-5.73	-14.87	2,251.69	2,010.92	1,969.75	41.17	48.841		
6,100.00	6,090.67	5,801.84	5,763.35	21.72	21.59	-5.66	-18.15	2,266.72	2,019.11	1,977.21	41.90	48.188		
6,200.00	6,190.42	5,901.47	5,861.78	22.09	21.99	-5.58	-21.42	2,281.75	2,027.29	1,984.67	42.63	47.557		
6,300.00	6,290.18	6,001.10	5,960.21	22.45	22.40	-5.51	-24.70	2,296.78	2,035.48	1,992.13	43.36	46.947		
6,400.00	6,389.94	6,100.73	6,058.65	22.82	22.81	-5.43	-27.98	2,311.81	2,043.68	1,999.59	44.09	46.357		
6,500.00	6,489.69	6,200.36	6,157.08	23.19	23.22	-5.36	-31.26	2,326.84	2,051.88	2,007.06	44.81	45.786		
6,600.00	6,589.45	6,300.01	6,255.52	23.56	23.63	-5.29	-34.54	2,341.88	2,060.08	2,014.53	45.54	45.233		
6,700.00	6,689.21	6,400.38	6,353.95	23.93	24.04	-5.21	-37.82	2,356.91	2,068.28	2,022.01	46.28	44.695		
6,800.00	6,788.96	6,500.75	6,452.39	24.29	24.46	-5.14	-41.10	2,371.94	2,076.49	2,029.48	47.01	44.174		
6,900.00	6,888.72	6,601.12	6,550.82	24.66	24.87	-5.07	-44.38	2,386.97	2,084.70	2,036.96	47.74	43.668		
7,000.00	6,988.48	6,701.49	6,649.25	25.03	25.28	-5.00	-47.65	2,402.00	2,092.91	2,044.44	48.47	43.177		
7,100.00	7,088.23	6,801.86	6,747.69	25.40	25.70	-4.93	-50.93	2,417.03	2,101.13	2,051.93	49.21	42.702		
7,200.00	7,187.99	6,902.23	6,846.12	25.77	26.11	-4.86	-54.21	2,432.06	2,109.35	2,059.41	49.94	42.239		
7,300.00	7,287.75	7,002.61	6,944.56	26.14	26.53	-4.79	-57.49	2,447.09	2,117.58	2,066.90	50.67	41.791		
7,400.00	7,387.50	7,102.98	7,042.99	26.50	26.94	-4.73	-60.77	2,462.12	2,125.80	2,074.40	51.40	41.355		
7,500.00	7,487.26	7,203.35	7,141.43	26.87	27.36	-4.66	-64.05	2,477.15	2,134.03	2,081.89	52.14	40.931		
7,600.00	7,587.02	7,303.72	7,239.86	27.24	27.77	-4.59	-67.33	2,492.18	2,142.26	2,089.39	52.87	40.519		
7,700.00	7,686.77	7,404.09	7,338.29	27.61	28.19	-4.52	-70.60	2,507.21	2,150.50	2,096.89	53.60	40.118		
7,800.00	7,786.53	7,504.46	7,436.73	27.98	28.60	-4.46	-73.88	2,522.24	2,158.74	2,104.40	54.34	39.728		
7,900.00	7,886.29	7,604.83	7,535.16	28.35	29.02	-4.39	-77.16	2,537.27	2,166.98	2,111.90	55.07	39.348		
8,000.00	7,986.04	7,705.20	7,633.60	28.72	29.44	-4.33	-80.44	2,552.30	2,175.22	2,119.41	55.81	38.978		
8,100.00	8,085.80	7,805.57	7,732.03	29.09	29.85	-4.26	-83.72	2,567.34	2,183.47	2,126.93	56.54	38.618		
8,200.00	8,185.56	7,905.94	7,830.47	29.46	30.27	-4.20	-87.00	2,582.37	2,191.72	2,134.44	57.27	38.267		
8,300.00	8,285.31	7,993.69	7,928.90	29.83	30.63	-4.13	-90.28	2,597.40	2,199.97	2,142.01	57.96	37.956		
8,400.00	8,385.07	8,106.68	8,027.33	30.20	31.10	-4.07	-93.55	2,612.43	2,208.22	2,149.48	58.74	37.591		
8,500.00	8,484.83	8,207.05	8,125.77	30.56	31.52	-4.01	-96.83	2,627.46	2,216.48	2,157.00	59.48	37.266		
8,600.00	8,584.58	8,307.43	8,224.20	30.93	31.94	-3.95	-100.11	2,642.49	2,224.74	2,164.53	60.21	36.948		
8,700.00	8,684.34	8,407.80	8,322.64	31.30	32.35	-3.88	-103.39	2,657.52	2,233.00	2,172.05	60.95	36.639		
8,800.00	8,784.10	8,508.17	8,421.07	31.67	32.77	-3.82	-106.67	2,672.55	2,241.27	2,179.58	61.68	36.336		
8,900.00	8,883.85	8,608.54	8,519.51	32.04	33.19	-3.76	-109.95	2,687.58	2,249.53	2,187.12	62.42	36.041		
9,000.00	8,983.61	8,708.91	8,617.94	32.41	33.61	-3.70	-113.23	2,702.61	2,257.80	2,194.65	63.15	35.753		
9,100.00	9,083.37	8,809.28	8,716.38	32.78	34.02	-3.64	-116.51	2,717.64	2,266.07	2,202.19	63.89	35.471		
9,200.00	9,183.12	8,909.65	8,814.81	33.15	34.44	-3.58	-119.78	2,732.67	2,274.35	2,209.73	64.62	35.195		
9,300.00	9,282.88	8,989.98	8,913.24	33.52	34.78	-3.52	-123.06	2,747.70	2,282.63	2,217.35	65.28	34.966		
9,400.00	9,382.64	9,089.61	9,011.68	33.89	35.19	-3.46	-126.34	2,762.73	2,290.91	2,224.89	66.01	34.704		
9,428.07	9,410.64	9,117.58	9,039.31	33.99	35.31	-3.45	-127.26	2,766.95	2,293.23	2,227.01	66.22	34.631		
9,500.00	9,482.43	9,222.86	9,143.39	34.26	35.74	-3.39	-130.64	2,782.43	2,299.69	2,232.78	66.92	34.367		
9,600.00	9,582.36	9,468.33	9,387.39	34.62	36.69	-3.29	-136.28	2,808.28	2,306.54	2,238.30	68.25	33.796		
9,694.65	9,677.00	9,701.88	9,620.66	34.95	37.51	92.22	-138.53	2,818.62	2,309.60	2,240.30	69.30	33.329		
9,700.00	9,682.35	9,715.10	9,633.88	34.97	37.55	92.22	-138.57	2,818.79	2,309.67	2,240.32	69.35	33.306		
9,800.00	9,782.35	9,840.77	9,759.55	35.31	37.95	92.22	-138.62	2,819.02	2,309.76	2,239.69	70.07	32.964		
9,900.00	9,882.35	9,940.77	9,859.55	35.65	38.27	92.22	-138.62	2,819.02	2,309.76	2,239.02	70.75	32.649		
10,000.00	9,982.35	10,040.77	9,959.55	35.99	38.59	92.22	-138.62	2,819.02	2,309.76	2,238.34	71.42	32.340		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,085.46	10,004.24	36.14	38.73	92.22	-138.62	2,819.02	2,309.76	2,238.04	71.72	32.203		
10,050.00	10,032.35	10,090.77	10,009.55	36.16	38.74	92.64	-138.62	2,819.02	2,309.76	2,238.00	71.76	32.187		
10,100.00	10,082.26	10,148.31	10,067.06	36.32	38.92	92.68	-137.22	2,819.01	2,309.83	2,237.73	72.11	32.033		
10,150.00	10,131.76	10,210.07	10,128.32	36.49	39.11	92.70	-129.60	2,818.95	2,309.87	2,237.42	72.45	31.881		
10,200.00	10,180.46	10,271.89	10,188.45	36.65	39.29	92.70	-115.41	2,818.85	2,309.86	2,237.07	72.79	31.734		
10,250.00	10,227.98	10,333.58	10,246.60	36.81	39.45	92.67	-94.88	2,818.69	2,309.80	2,236.68	73.11	31.593		
10,300.00	10,273.98	10,395.01	10,301.97	36.95	39.60	92.61	-68.35	2,818.49	2,309.69	2,236.26	73.42	31.457		
10,350.00	10,318.11	10,456.01	10,353.83	37.09	39.72	92.53	-36.29	2,818.24	2,309.53	2,235.81	73.73	31.326		
10,400.00	10,360.01	10,516.45	10,401.57	37.21	39.83	92.42	0.73	2,817.96	2,309.35	2,235.33	74.02	31.199		
10,450.00	10,399.38	10,576.21	10,444.67	37.32	39.91	92.29	42.08	2,817.65	2,309.13	2,234.82	74.31	31.076		
10,500.00	10,435.92	10,635.19	10,482.77	37.42	39.98	92.15	87.07	2,817.31	2,308.89	2,234.30	74.59	30.956		
10,550.00	10,469.35	10,693.30	10,515.59	37.51	40.02	91.98	135.00	2,816.94	2,308.64	2,233.78	74.86	30.838		
10,600.00	10,499.41	10,750.50	10,542.99	37.59	40.05	91.80	185.18	2,816.56	2,308.39	2,233.25	75.14	30.721		
10,650.00	10,525.87	10,806.74	10,564.93	37.66	40.07	91.61	236.94	2,816.17	2,308.14	2,232.72	75.42	30.606		
10,700.00	10,548.54	10,862.00	10,581.43	37.74	40.08	91.40	289.65	2,815.76	2,307.90	2,232.21	75.69	30.491		
10,750.00	10,567.24	10,916.27	10,592.63	37.84	40.09	91.19	342.74	2,815.36	2,307.69	2,231.73	75.96	30.378		
10,800.00	10,581.83	10,969.57	10,598.69	37.97	40.10	90.97	395.66	2,814.96	2,307.50	2,231.26	76.24	30.267		
10,850.00	10,592.19	11,021.18	10,600.00	38.11	40.11	90.75	447.24	2,814.57	2,307.35	2,230.84	76.51	30.156		
10,900.00	10,598.26	11,070.79	10,600.00	38.25	40.14	90.61	496.86	2,814.19	2,307.27	2,230.48	76.79	30.048		
10,944.69	10,600.00	11,115.44	10,600.00	38.39	40.18	90.57	541.50	2,813.85	2,307.24	2,230.21	77.03	29.953		
11,000.00	10,600.00	11,170.75	10,600.00	38.56	40.24	90.57	596.81	2,813.43	2,307.22	2,229.87	77.35	29.828		
11,100.00	10,600.00	11,270.75	10,600.00	38.91	40.42	90.57	696.80	2,812.67	2,307.19	2,229.19	78.01	29.577		
11,200.00	10,600.00	11,370.75	10,600.00	39.31	40.69	90.57	796.80	2,811.91	2,307.17	2,228.40	78.77	29.291		
11,300.00	10,600.00	11,470.75	10,600.00	39.76	41.05	90.57	896.80	2,811.14	2,307.14	2,227.52	79.63	28.975		
11,400.00	10,600.00	11,570.75	10,600.00	40.25	41.47	90.57	996.80	2,810.38	2,307.11	2,226.53	80.58	28.631		
11,500.00	10,600.00	11,670.75	10,600.00	40.79	41.96	90.57	1,096.79	2,809.62	2,307.09	2,225.46	81.63	28.263		
11,600.00	10,600.00	11,770.75	10,600.00	41.37	42.51	90.57	1,196.79	2,808.86	2,307.06	2,224.29	82.77	27.874		
11,700.00	10,600.00	11,870.75	10,600.00	41.99	43.10	90.57	1,296.79	2,808.10	2,307.03	2,223.05	83.99	27.468		
11,800.00	10,600.00	11,970.75	10,600.00	42.65	43.74	90.57	1,396.78	2,807.34	2,307.01	2,221.71	85.29	27.048		
11,900.00	10,600.00	12,070.75	10,600.00	43.35	44.42	90.57	1,496.78	2,806.58	2,306.98	2,220.30	86.68	26.616		
12,000.00	10,600.00	12,170.75	10,600.00	44.09	45.13	90.57	1,596.78	2,805.82	2,306.96	2,218.82	88.14	26.175		
12,100.00	10,600.00	12,270.75	10,600.00	44.86	45.88	90.57	1,696.78	2,805.06	2,306.93	2,217.26	89.66	25.729		
12,200.00	10,600.00	12,370.75	10,600.00	45.67	46.67	90.57	1,796.77	2,804.30	2,306.90	2,215.64	91.26	25.278		
12,300.00	10,600.00	12,470.75	10,600.00	46.50	47.48	90.57	1,896.77	2,803.53	2,306.88	2,213.96	92.92	24.826		
12,400.00	10,600.00	12,570.75	10,600.00	47.37	48.33	90.57	1,996.77	2,802.77	2,306.85	2,212.21	94.64	24.375		
12,500.00	10,600.00	12,670.75	10,600.00	48.26	49.20	90.57	2,096.76	2,802.01	2,306.82	2,210.40	96.42	23.925		
12,600.00	10,600.00	12,770.75	10,600.00	49.18	50.11	90.57	2,196.76	2,801.25	2,306.80	2,208.55	98.25	23.479		
12,700.00	10,600.00	12,870.75	10,600.00	50.13	51.03	90.57	2,296.76	2,800.49	2,306.77	2,206.64	100.13	23.037		
12,800.00	10,600.00	12,970.75	10,600.00	51.10	51.98	90.57	2,396.75	2,799.73	2,306.74	2,204.68	102.06	22.601		
12,900.00	10,600.00	13,070.75	10,600.00	52.09	52.96	90.57	2,496.75	2,798.97	2,306.72	2,202.67	104.04	22.171		
13,000.00	10,600.00	13,170.75	10,600.00	53.10	53.95	90.57	2,596.75	2,798.21	2,306.69	2,200.63	106.06	21.748		
13,100.00	10,600.00	13,270.75	10,600.00	54.14	54.97	90.57	2,696.75	2,797.45	2,306.66	2,198.54	108.12	21.334		
13,200.00	10,600.00	13,370.75	10,600.00	55.19	56.01	90.57	2,796.74	2,796.69	2,306.64	2,196.41	110.22	20.927		
13,300.00	10,600.00	13,470.75	10,600.00	56.26	57.06	90.57	2,896.74	2,795.92	2,306.61	2,194.25	112.36	20.529		
13,400.00	10,600.00	13,570.75	10,600.00	57.35	58.13	90.57	2,996.74	2,795.16	2,306.58	2,192.05	114.53	20.140		
13,500.00	10,600.00	13,670.75	10,600.00	58.45	59.22	90.57	3,096.73	2,794.40	2,306.56	2,189.83	116.73	19.760		
13,600.00	10,600.00	13,770.75	10,600.00	59.57	60.32	90.57	3,196.73	2,793.64	2,306.53	2,187.57	118.96	19.388		
13,700.00	10,600.00	13,870.75	10,600.00	60.71	61.44	90.57	3,296.73	2,792.88	2,306.50	2,185.28	121.23	19.027		
13,800.00	10,600.00	13,970.75	10,600.00	61.85	62.57	90.57	3,396.73	2,792.12	2,306.48	2,182.96	123.51	18.674		
13,900.00	10,600.00	14,070.75	10,600.00	63.01	63.71	90.57	3,496.72	2,791.36	2,306.45	2,180.62	125.83	18.330		
14,000.00	10,600.00	14,170.75	10,600.00	64.18	64.87	90.57	3,596.72	2,790.60	2,306.42	2,178.26	128.17	17.995		
14,100.00	10,600.00	14,270.75	10,600.00	65.37	66.04	90.57	3,696.72	2,789.84	2,306.40	2,175.87	130.53	17.669		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,370.75	10,600.00	66.56	67.22	90.57	3,796.71	2,789.08	2,306.37	2,173.46	132.92	17.352	
14,300.00	10,600.00	14,470.75	10,600.00	67.76	68.41	90.57	3,896.71	2,788.31	2,306.34	2,171.02	135.32	17.044	
14,400.00	10,600.00	14,570.75	10,600.00	68.98	69.61	90.57	3,996.71	2,787.55	2,306.32	2,168.57	137.74	16.743	
14,500.00	10,600.00	14,670.75	10,600.00	70.20	70.81	90.57	4,096.71	2,786.79	2,306.29	2,166.10	140.19	16.451	
14,600.00	10,600.00	14,770.75	10,600.00	71.43	72.03	90.57	4,196.70	2,786.03	2,306.26	2,163.62	142.65	16.168	
14,700.00	10,600.00	14,870.75	10,600.00	72.67	73.26	90.57	4,296.70	2,785.27	2,306.24	2,161.11	145.13	15.891	
14,800.00	10,600.00	14,970.75	10,600.00	73.92	74.50	90.57	4,396.70	2,784.51	2,306.21	2,158.59	147.62	15.623	
14,900.00	10,600.00	15,070.75	10,600.00	75.17	75.74	90.57	4,496.69	2,783.75	2,306.19	2,156.06	150.13	15.362	
15,000.00	10,600.00	15,170.75	10,600.00	76.44	76.99	90.57	4,596.69	2,782.99	2,306.16	2,153.51	152.65	15.108	
15,100.00	10,600.00	15,270.75	10,600.00	77.70	78.25	90.57	4,696.69	2,782.23	2,306.13	2,150.95	155.19	14.860	
15,200.00	10,600.00	15,370.75	10,600.00	78.98	79.51	90.57	4,796.69	2,781.47	2,306.11	2,148.37	157.74	14.620	
15,300.00	10,600.00	15,470.75	10,600.00	80.26	80.78	90.57	4,896.68	2,780.71	2,306.08	2,145.78	160.30	14.386	
15,400.00	10,600.00	15,570.75	10,600.00	81.55	82.06	90.57	4,996.68	2,779.94	2,306.05	2,143.18	162.87	14.159	
15,484.47	10,600.00	15,655.22	10,600.00	82.64	83.14	90.57	5,081.15	2,779.30	2,306.03	2,140.98	165.05	13.971 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	-72.41	462.36	-1,458.80	1,530.43					
100.00	100.00	81.80	81.80	0.52	10.06	-72.41	462.36	-1,458.80	1,530.32	1,519.74	10.58	144.705		
200.00	200.00	181.80	181.80	0.70	10.33	-72.41	462.36	-1,458.80	1,530.32	1,519.29	11.03	138.769		
300.00	300.00	281.80	281.80	0.99	10.80	-72.41	462.36	-1,458.80	1,530.32	1,518.53	11.78	129.863		
400.00	400.00	381.80	381.80	1.31	11.45	-72.41	462.36	-1,458.80	1,530.32	1,517.56	12.75	119.979		
500.00	500.00	481.80	481.80	1.65	12.24	-72.41	462.36	-1,458.80	1,530.32	1,516.43	13.89	110.169		
600.00	600.00	581.80	581.80	1.99	13.17	-72.41	462.36	-1,458.80	1,530.32	1,515.16	15.16	100.968		
700.00	700.00	681.80	681.80	2.34	14.19	-72.41	462.36	-1,458.80	1,530.32	1,513.79	16.52	92.606		
800.00	800.00	781.80	781.80	2.69	15.28	-72.41	462.36	-1,458.80	1,530.32	1,512.34	17.98	85.136		
900.00	900.00	881.80	881.80	3.04	16.45	-72.41	462.36	-1,458.80	1,530.32	1,510.83	19.49	78.519		
1,000.00	1,000.00	981.80	981.80	3.40	17.66	-72.41	462.36	-1,458.80	1,530.32	1,509.26	21.06	72.677		
1,100.00	1,100.00	1,081.80	1,081.80	3.75	18.91	-72.41	462.36	-1,458.80	1,530.32	1,507.65	22.66	67.520		
1,200.00	1,200.00	1,181.80	1,181.80	4.11	20.20	-72.41	462.36	-1,458.80	1,530.32	1,506.01	24.31	62.958		
1,300.00	1,300.00	1,281.80	1,281.80	4.46	21.51	-72.41	462.36	-1,458.80	1,530.32	1,504.34	25.98	58.910		
1,400.00	1,400.00	1,381.80	1,381.80	4.82	22.85	-72.41	462.36	-1,458.80	1,530.32	1,502.65	27.67	55.306		
1,500.00	1,500.00	1,481.80	1,481.80	5.18	24.21	-72.41	462.36	-1,458.80	1,530.32	1,500.93	29.38	52.083		
1,600.00	1,600.00	1,581.80	1,581.80	5.53	25.58	-72.41	462.36	-1,458.80	1,530.32	1,499.21	31.11	49.189		
1,700.00	1,700.00	1,681.80	1,681.80	5.89	26.96	-72.41	462.36	-1,458.80	1,530.32	1,497.46	32.85	46.581		
1,800.00	1,800.00	1,781.80	1,781.80	6.25	28.36	-72.41	462.36	-1,458.80	1,530.32	1,495.71	34.61	44.221		
1,900.00	1,900.00	1,881.80	1,881.80	6.61	29.76	-72.41	462.36	-1,458.80	1,530.32	1,493.95	36.37	42.077		
2,000.00	2,000.00	1,981.80	1,981.80	6.96	31.18	-72.41	462.36	-1,458.80	1,530.32	1,492.18	38.14	40.122 CC		
2,100.00	2,099.99	2,081.79	2,081.79	7.31	32.60	-167.90	462.36	-1,458.80	1,531.17	1,491.26	39.91	38.364 ES		
2,200.00	2,199.96	2,181.76	2,181.76	7.65	34.03	-167.91	462.36	-1,458.80	1,533.73	1,492.05	41.68	36.799		
2,300.00	2,299.86	2,281.66	2,281.66	7.99	35.46	-167.94	462.36	-1,458.80	1,538.00	1,494.54	43.45	35.395		
2,399.87	2,399.54	2,381.34	2,381.34	8.34	36.90	-167.97	462.36	-1,458.80	1,543.96	1,498.73	45.23	34.136		
2,500.00	2,499.43	2,481.23	2,481.23	8.69	38.34	-168.03	462.36	-1,458.80	1,550.79	1,503.77	47.02	32.985		
2,600.00	2,599.19	2,580.99	2,580.99	9.03	39.78	-168.08	462.36	-1,458.80	1,557.61	1,508.81	48.80	31.916		
2,700.00	2,698.94	2,680.74	2,680.74	9.39	41.23	-168.13	462.36	-1,458.80	1,564.44	1,513.84	50.60	30.919		
2,800.00	2,798.70	2,780.50	2,780.50	9.74	42.68	-168.18	462.36	-1,458.80	1,571.26	1,518.87	52.39	29.989		
2,900.00	2,898.46	2,880.26	2,880.26	10.09	44.14	-168.24	462.36	-1,458.80	1,578.09	1,523.89	54.20	29.118		
3,000.00	2,998.21	2,980.01	2,980.01	10.45	45.59	-168.29	462.36	-1,458.80	1,584.92	1,528.91	56.00	28.301		
3,100.00	3,097.97	3,079.77	3,079.77	10.80	47.05	-168.34	462.36	-1,458.80	1,591.75	1,533.94	57.81	27.534		
3,200.00	3,197.73	3,179.53	3,179.53	11.16	48.51	-168.39	462.36	-1,458.80	1,598.58	1,538.96	59.62	26.812		
3,300.00	3,297.48	3,279.28	3,279.28	11.52	49.98	-168.44	462.36	-1,458.80	1,605.41	1,543.97	61.43	26.132		
3,400.00	3,397.24	3,379.04	3,379.04	11.88	51.44	-168.49	462.36	-1,458.80	1,612.24	1,548.99	63.25	25.490		
3,500.00	3,497.00	3,478.80	3,478.80	12.24	52.91	-168.54	462.36	-1,458.80	1,619.08	1,554.01	65.07	24.882		
3,600.00	3,596.75	3,578.55	3,578.55	12.60	54.37	-168.59	462.36	-1,458.80	1,625.91	1,559.02	66.89	24.307		
3,700.00	3,696.51	3,678.31	3,678.31	12.96	55.84	-168.63	462.36	-1,458.80	1,632.75	1,564.04	68.71	23.762		
3,800.00	3,796.27	3,778.07	3,778.07	13.32	57.31	-168.68	462.36	-1,458.80	1,639.59	1,569.05	70.54	23.245		
3,900.00	3,896.02	3,877.82	3,877.82	13.68	58.79	-168.73	462.36	-1,458.80	1,646.42	1,574.06	72.36	22.753		
4,000.00	3,995.78	3,977.58	3,977.58	14.04	60.26	-168.78	462.36	-1,458.80	1,653.26	1,579.08	74.19	22.285		
4,100.00	4,095.54	4,077.34	4,077.34	14.40	61.73	-168.82	462.36	-1,458.80	1,660.11	1,584.09	76.02	21.839		
4,200.00	4,195.29	4,177.09	4,177.09	14.77	63.21	-168.87	462.36	-1,458.80	1,666.95	1,589.10	77.85	21.413		
4,300.00	4,295.05	4,276.85	4,276.85	15.13	64.68	-168.92	462.36	-1,458.80	1,673.79	1,594.11	79.68	21.007		
4,400.00	4,394.81	4,376.61	4,376.61	15.49	66.16	-168.96	462.36	-1,458.80	1,680.64	1,599.13	81.51	20.619		
4,500.00	4,494.56	4,476.36	4,476.36	15.86	67.64	-169.01	462.36	-1,458.80	1,687.48	1,604.14	83.34	20.248		
4,600.00	4,594.32	4,576.12	4,576.12	16.22	69.11	-169.05	462.36	-1,458.80	1,694.33	1,609.15	85.18	19.892		
4,700.00	4,694.08	4,675.88	4,675.88	16.59	70.59	-169.10	462.36	-1,458.80	1,701.17	1,614.16	87.01	19.551		
4,800.00	4,793.83	4,775.63	4,775.63	16.95	72.07	-169.14	462.36	-1,458.80	1,708.02	1,619.18	88.85	19.224		
4,900.00	4,893.59	4,875.39	4,875.39	17.32	73.55	-169.19	462.36	-1,458.80	1,714.87	1,624.19	90.68	18.911		
5,000.00	4,993.35	4,975.15	4,975.15	17.68	75.03	-169.23	462.36	-1,458.80	1,721.72	1,629.20	92.52	18.609		
5,100.00	5,093.10	5,074.90	5,074.90	18.05	76.51	-169.27	462.36	-1,458.80	1,728.57	1,634.22	94.36	18.319		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
5,200.00	5,192.86	5,174.66	5,174.66	18.42	78.00	-169.32	462.36	-1,458.80	1,735.43	1,639.23	96.20	18.040				
5,300.00	5,292.62	5,274.42	5,274.42	18.78	79.48	-169.36	462.36	-1,458.80	1,742.28	1,644.24	98.04	17.772				
5,400.00	5,392.37	5,374.17	5,374.17	19.15	80.96	-169.40	462.36	-1,458.80	1,749.14	1,649.26	99.88	17.513				
5,500.00	5,492.13	5,473.93	5,473.93	19.52	82.44	-169.44	462.36	-1,458.80	1,755.99	1,654.27	101.72	17.264				
5,600.00	5,591.89	5,573.69	5,573.69	19.88	83.93	-169.48	462.36	-1,458.80	1,762.85	1,659.29	103.56	17.023				
5,700.00	5,691.64	5,673.44	5,673.44	20.25	85.41	-169.52	462.36	-1,458.80	1,769.70	1,664.31	105.40	16.791				
5,800.00	5,791.40	5,773.20	5,773.20	20.62	86.89	-169.57	462.36	-1,458.80	1,776.56	1,669.32	107.24	16.566				
5,900.00	5,891.16	5,872.96	5,872.96	20.98	88.38	-169.61	462.36	-1,458.80	1,783.42	1,674.34	109.08	16.349				
6,000.00	5,990.91	5,972.71	5,972.71	21.35	89.86	-169.65	462.36	-1,458.80	1,790.28	1,679.36	110.93	16.139 SF				
6,100.00	6,090.67	5,487.00	5,485.89	21.72	82.64	-169.45	462.36	-1,458.80	1,890.45	1,791.39	99.06	19.084				
6,200.00	6,190.42	5,487.00	5,485.89	22.09	82.64	-169.45	462.36	-1,458.80	1,930.15	1,832.33	97.82	19.731				
6,300.00	6,290.18	5,487.00	5,485.89	22.45	82.64	-169.45	462.36	-1,458.80	1,974.13	1,877.67	96.45	20.467				
6,400.00	6,389.94	5,487.00	5,485.89	22.82	82.64	-169.45	462.36	-1,458.80	2,022.10	1,927.12	94.98	21.290				
6,500.00	6,489.69	5,487.00	5,485.89	23.19	82.64	-169.45	462.36	-1,458.80	2,073.78	1,980.35	93.43	22.196				
6,600.00	6,589.45	5,487.00	5,485.89	23.56	82.64	-169.45	462.36	-1,458.80	2,128.91	2,037.07	91.84	23.182				
6,700.00	6,689.21	5,487.00	5,485.89	23.93	82.64	-169.45	462.36	-1,458.80	2,187.22	2,097.01	90.21	24.245				
6,800.00	6,788.96	5,487.00	5,485.89	24.29	82.64	-169.45	462.36	-1,458.80	2,248.47	2,159.89	88.59	25.382				
6,900.00	6,888.72	5,487.00	5,485.89	24.66	82.64	-169.45	462.36	-1,458.80	2,312.43	2,225.46	86.97	26.589				
7,000.00	6,988.48	5,487.00	5,485.89	25.03	82.64	-169.45	462.36	-1,458.80	2,378.87	2,293.50	85.37	27.864				
7,100.00	7,088.23	5,487.00	5,485.89	25.40	82.64	-169.45	462.36	-1,458.80	2,447.59	2,363.78	83.81	29.204				
7,200.00	7,187.99	5,487.00	5,485.89	25.77	82.64	-169.45	462.36	-1,458.80	2,518.41	2,436.12	82.29	30.604				
7,300.00	7,287.75	5,487.00	5,485.89	26.14	82.64	-169.45	462.36	-1,458.80	2,591.16	2,510.34	80.82	32.062				
7,400.00	7,387.50	5,487.00	5,485.89	26.50	82.64	-169.45	462.36	-1,458.80	2,665.67	2,586.27	79.40	33.574				
7,500.00	7,487.26	5,487.00	5,485.89	26.87	82.64	-169.45	462.36	-1,458.80	2,741.80	2,663.77	78.03	35.138				
7,600.00	7,587.02	5,487.00	5,485.89	27.24	82.64	-169.45	462.36	-1,458.80	2,819.43	2,742.71	76.72	36.749				
7,700.00	7,686.77	5,487.00	5,485.89	27.61	82.64	-169.45	462.36	-1,458.80	2,898.42	2,822.95	75.47	38.405				
7,800.00	7,786.53	5,487.00	5,485.89	27.98	82.64	-169.45	462.36	-1,458.80	2,978.68	2,904.40	74.28	40.102				
7,900.00	7,886.29	5,487.00	5,485.89	28.35	82.64	-169.45	462.36	-1,458.80	3,060.10	2,986.96	73.14	41.838				
8,000.00	7,986.04	5,487.00	5,485.89	28.72	82.64	-169.45	462.36	-1,458.80	3,142.60	3,070.54	72.06	43.608				
8,100.00	8,085.80	5,487.00	5,485.89	29.09	82.64	-169.45	462.36	-1,458.80	3,226.08	3,155.04	71.04	45.411				
8,200.00	8,185.56	5,487.00	5,485.89	29.46	82.64	-169.45	462.36	-1,458.80	3,310.49	3,240.41	70.07	47.242				
8,300.00	8,285.31	5,487.00	5,485.89	29.83	82.64	-169.45	462.36	-1,458.80	3,395.73	3,326.57	69.16	49.100				
8,400.00	8,385.07	5,487.00	5,485.89	30.20	82.64	-169.45	462.36	-1,458.80	3,481.77	3,413.47	68.30	50.981				
8,500.00	8,484.83	5,487.00	5,485.89	30.56	82.64	-169.45	462.36	-1,458.80	3,568.53	3,501.05	67.48	52.882				
8,600.00	8,584.58	5,487.00	5,485.89	30.93	82.64	-169.45	462.36	-1,458.80	3,655.97	3,589.25	66.71	54.801				
8,700.00	8,684.34	5,487.00	5,485.89	31.30	82.64	-169.45	462.36	-1,458.80	3,744.03	3,678.04	65.99	56.734				
8,800.00	8,784.10	5,487.00	5,485.89	31.67	82.64	-169.45	462.36	-1,458.80	3,832.68	3,767.37	65.31	58.680				
8,900.00	8,883.85	5,487.00	5,485.89	32.04	82.64	-169.45	462.36	-1,458.80	3,921.88	3,857.20	64.68	60.636				
9,000.00	8,983.61	5,487.00	5,485.89	32.41	82.64	-169.45	462.36	-1,458.80	4,011.59	3,947.51	64.08	62.599				
9,100.00	9,083.37	5,487.00	5,485.89	32.78	82.64	-169.45	462.36	-1,458.80	4,101.77	4,038.25	63.53	64.567				
9,200.00	9,183.12	5,487.00	5,485.89	33.15	82.64	-169.45	462.36	-1,458.80	4,192.40	4,129.39	63.01	66.539				
9,300.00	9,282.88	5,487.00	5,485.89	33.52	82.64	-169.45	462.36	-1,458.80	4,283.45	4,220.92	62.52	68.510				
9,400.00	9,382.64	5,487.00	5,485.89	33.89	82.64	-169.45	462.36	-1,458.80	4,374.88	4,312.81	62.07	70.481				
9,428.07	9,410.64	5,487.00	5,485.89	33.99	82.64	-169.45	462.36	-1,458.80	4,400.62	4,338.67	61.95	71.034				
9,500.00	9,482.43	5,487.00	5,485.89	34.26	82.64	-169.89	462.36	-1,458.80	4,466.42	4,404.78	61.64	72.457				
9,600.00	9,582.36	5,487.00	5,485.89	34.62	82.64	-170.44	462.36	-1,458.80	4,557.32	4,496.12	61.21	74.460				
9,694.65	9,677.00	5,487.00	5,485.89	34.95	82.64	-75.45	462.36	-1,458.80	4,642.71	4,581.93	60.78	76.381				
9,700.00	9,682.35	5,487.00	5,485.89	34.97	82.64	-75.45	462.36	-1,458.80	4,647.52	4,586.76	60.76	76.491				
9,800.00	9,782.35	5,487.00	5,485.89	35.31	82.64	-75.45	462.36	-1,458.80	4,737.63	4,677.30	60.33	78.530				
9,900.00	9,882.35	5,487.00	5,485.89	35.65	82.64	-75.45	462.36	-1,458.80	4,828.12	4,768.19	59.93	80.562				
10,000.00	9,982.35	5,487.00	5,485.89	35.99	82.64	-75.45	462.36	-1,458.80	4,918.99	4,859.43	59.56	82.587				
10,044.69	10,027.04	5,487.00	5,485.89	36.14	82.64	-75.45	462.36	-1,458.80	4,959.71	4,900.30	59.41	83.490				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	5,487.00	5,485.89	36.16	82.64	-73.89	462.36	-1,458.80	4,964.55	4,905.16	59.39	83.597		
10,100.00	10,082.26	5,487.00	5,485.89	36.32	82.64	-63.93	462.36	-1,458.80	5,009.84	4,950.63	59.21	84.613		
10,150.00	10,131.76	5,487.00	5,485.89	36.49	82.64	-55.46	462.36	-1,458.80	5,054.39	4,995.37	59.02	85.637		
10,200.00	10,180.46	5,487.00	5,485.89	36.65	82.64	-48.51	462.36	-1,458.80	5,097.89	5,039.06	58.83	86.660		
10,250.00	10,227.98	5,487.00	5,485.89	36.81	82.64	-42.91	462.36	-1,458.80	5,140.02	5,081.40	58.63	87.675		
10,300.00	10,273.98	5,487.00	5,485.89	36.95	82.64	-38.41	462.36	-1,458.80	5,180.52	5,122.10	58.42	88.674		
10,350.00	10,318.11	5,487.00	5,485.89	37.09	82.64	-34.79	462.36	-1,458.80	5,219.11	5,160.90	58.22	89.649		
10,400.00	10,360.01	5,487.00	5,485.89	37.21	82.64	-31.86	462.36	-1,458.80	5,255.55	5,197.53	58.02	90.589		
10,450.00	10,399.38	5,487.00	5,485.89	37.32	82.64	-29.49	462.36	-1,458.80	5,289.60	5,231.78	57.82	91.486		
10,500.00	10,435.92	5,487.00	5,485.89	37.42	82.64	-27.56	462.36	-1,458.80	5,321.05	5,263.42	57.63	92.330		
10,550.00	10,469.35	5,487.00	5,485.89	37.51	82.64	-25.98	462.36	-1,458.80	5,349.71	5,292.26	57.46	93.109		
10,600.00	10,499.41	5,487.00	5,485.89	37.59	82.64	-24.70	462.36	-1,458.80	5,375.42	5,318.12	57.30	93.814		
10,650.00	10,525.87	5,487.00	5,485.89	37.66	82.64	-23.66	462.36	-1,458.80	5,398.01	5,340.85	57.16	94.433		
10,700.00	10,548.54	5,487.00	5,485.89	37.74	82.64	-22.83	462.36	-1,458.80	5,417.36	5,360.31	57.05	94.957		
10,750.00	10,567.24	5,487.00	5,485.89	37.84	82.64	-22.18	462.36	-1,458.80	5,433.35	5,376.38	56.97	95.376		
10,800.00	10,581.83	5,487.00	5,485.89	37.97	82.64	-21.70	462.36	-1,458.80	5,445.89	5,388.98	56.92	95.682		
10,850.00	10,592.19	5,487.00	5,485.89	38.11	82.64	-21.36	462.36	-1,458.80	5,454.92	5,398.02	56.90	95.868		
10,900.00	10,598.26	5,487.00	5,485.89	38.25	82.64	-21.16	462.36	-1,458.80	5,460.37	5,403.45	56.92	95.929		
10,944.69	10,600.00	5,487.00	5,485.89	38.39	82.64	-21.10	462.36	-1,458.80	5,462.20	5,405.23	56.97	95.874		
11,000.00	10,600.00	5,487.00	5,485.89	38.56	82.64	-21.10	462.36	-1,458.80	5,462.96	5,405.89	57.07	95.720		
11,100.00	10,600.00	5,487.00	5,485.89	38.91	82.64	-21.10	462.36	-1,458.80	5,465.75	5,408.42	57.33	95.336		
11,200.00	10,600.00	5,487.00	5,485.89	39.31	82.64	-21.10	462.36	-1,458.80	5,470.37	5,412.68	57.69	94.822		
11,300.00	10,600.00	5,487.00	5,485.89	39.76	82.64	-21.10	462.36	-1,458.80	5,476.81	5,418.66	58.15	94.189		
11,400.00	10,600.00	5,487.00	5,485.89	40.25	82.64	-21.10	462.36	-1,458.80	5,485.06	5,426.36	58.70	93.447		
11,500.00	10,600.00	5,487.00	5,485.89	40.79	82.64	-21.10	462.36	-1,458.80	5,495.12	5,435.79	59.34	92.611		
11,600.00	10,600.00	5,487.00	5,485.89	41.37	82.64	-21.10	462.36	-1,458.80	5,506.98	5,446.93	60.06	91.694		
11,700.00	10,600.00	5,487.00	5,485.89	41.99	82.64	-21.10	462.36	-1,458.80	5,520.63	5,459.77	60.86	90.712		
11,800.00	10,600.00	5,487.00	5,485.89	42.65	82.64	-21.10	462.36	-1,458.80	5,536.05	5,474.32	61.73	89.679		
11,900.00	10,600.00	5,487.00	5,485.89	43.35	82.64	-21.10	462.36	-1,458.80	5,553.23	5,490.56	62.67	88.609		
12,000.00	10,600.00	5,487.00	5,485.89	44.09	82.64	-21.10	462.36	-1,458.80	5,572.15	5,508.48	63.67	87.514		
12,100.00	10,600.00	5,487.00	5,485.89	44.86	82.64	-21.10	462.36	-1,458.80	5,592.79	5,528.07	64.73	86.408		
12,200.00	10,600.00	5,487.00	5,485.89	45.67	82.64	-21.10	462.36	-1,458.80	5,615.14	5,549.31	65.83	85.300		
12,300.00	10,600.00	5,487.00	5,485.89	46.50	82.64	-21.10	462.36	-1,458.80	5,639.18	5,572.20	66.97	84.200		
12,400.00	10,600.00	5,487.00	5,485.89	47.37	82.64	-21.10	462.36	-1,458.80	5,664.87	5,596.72	68.16	83.117		
12,500.00	10,600.00	5,487.00	5,485.89	48.26	82.64	-21.10	462.36	-1,458.80	5,692.21	5,622.84	69.37	82.057		
12,600.00	10,600.00	5,487.00	5,485.89	49.18	82.64	-21.10	462.36	-1,458.80	5,721.17	5,650.56	70.61	81.027		
12,700.00	10,600.00	5,487.00	5,485.89	50.13	82.64	-21.10	462.36	-1,458.80	5,751.72	5,679.85	71.87	80.030		
12,800.00	10,600.00	5,487.00	5,485.89	51.10	82.64	-21.10	462.36	-1,458.80	5,783.84	5,710.69	73.15	79.070		
12,900.00	10,600.00	5,487.00	5,485.89	52.09	82.64	-21.10	462.36	-1,458.80	5,817.50	5,743.06	74.44	78.151		
13,000.00	10,600.00	5,487.00	5,485.89	53.10	82.64	-21.10	462.36	-1,458.80	5,852.67	5,776.93	75.74	77.274		
13,100.00	10,600.00	5,487.00	5,485.89	54.14	82.64	-21.10	462.36	-1,458.80	5,889.33	5,812.29	77.04	76.441		
13,200.00	10,600.00	5,487.00	5,485.89	55.19	82.64	-21.10	462.36	-1,458.80	5,927.46	5,849.11	78.35	75.653		
13,300.00	10,600.00	5,487.00	5,485.89	56.26	82.64	-21.10	462.36	-1,458.80	5,967.01	5,887.35	79.66	74.909		
13,400.00	10,600.00	5,487.00	5,485.89	57.35	82.64	-21.10	462.36	-1,458.80	6,007.97	5,927.01	80.96	74.211		
13,500.00	10,600.00	5,487.00	5,485.89	58.45	82.64	-21.10	462.36	-1,458.80	6,050.31	5,968.05	82.25	73.556		
13,600.00	10,600.00	5,487.00	5,485.89	59.57	82.64	-21.10	462.36	-1,458.80	6,093.99	6,010.45	83.54	72.946		
13,700.00	10,600.00	5,487.00	5,485.89	60.71	82.64	-21.10	462.36	-1,458.80	6,138.99	6,054.17	84.82	72.379		
13,800.00	10,600.00	5,487.00	5,485.89	61.85	82.64	-21.10	462.36	-1,458.80	6,185.28	6,099.20	86.08	71.854		
13,900.00	10,600.00	5,487.00	5,485.89	63.01	82.64	-21.10	462.36	-1,458.80	6,232.83	6,145.50	87.33	71.369		
14,000.00	10,600.00	5,487.00	5,485.89	64.18	82.64	-21.10	462.36	-1,458.80	6,281.61	6,193.05	88.57	70.925		
14,100.00	10,600.00	5,487.00	5,485.89	65.37	82.64	-21.10	462.36	-1,458.80	6,331.60	6,241.81	89.79	70.519		
14,200.00	10,600.00	5,487.00	5,485.89	66.56	82.64	-21.10	462.36	-1,458.80	6,382.76	6,291.77	90.99	70.150		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
14,300.00	10,600.00	5,487.00	5,485.89	67.76	82.64	-21.10	462.36	-1,458.80	6,435.07	6,342.90	92.17	69.818		
14,400.00	10,600.00	5,487.00	5,485.89	68.98	82.64	-21.10	462.36	-1,458.80	6,488.50	6,395.17	93.33	69.520		
14,500.00	10,600.00	5,487.00	5,485.89	70.20	82.64	-21.10	462.36	-1,458.80	6,543.02	6,448.54	94.48	69.255		
14,600.00	10,600.00	5,487.00	5,485.89	71.43	82.64	-21.10	462.36	-1,458.80	6,598.61	6,503.01	95.60	69.022		
14,700.00	10,600.00	5,487.00	5,485.89	72.67	82.64	-21.10	462.36	-1,458.80	6,655.23	6,558.53	96.70	68.820		
14,800.00	10,600.00	5,487.00	5,485.89	73.92	82.64	-21.10	462.36	-1,458.80	6,712.87	6,615.08	97.79	68.647		
14,900.00	10,600.00	5,487.00	5,485.89	75.17	82.64	-21.10	462.36	-1,458.80	6,771.49	6,672.64	98.85	68.503		
15,000.00	10,600.00	5,487.00	5,485.89	76.44	82.64	-21.10	462.36	-1,458.80	6,831.07	6,731.18	99.89	68.386		
15,100.00	10,600.00	5,487.00	5,485.89	77.70	82.64	-21.10	462.36	-1,458.80	6,891.59	6,790.68	100.91	68.295		
15,200.00	10,600.00	5,487.00	5,485.89	78.98	82.64	-21.10	462.36	-1,458.80	6,953.02	6,851.12	101.91	68.229		
15,300.00	10,600.00	5,487.00	5,485.89	80.26	82.64	-21.10	462.36	-1,458.80	7,015.34	6,912.46	102.88	68.186		
15,400.00	10,600.00	5,487.00	5,485.89	81.55	82.64	-21.10	462.36	-1,458.80	7,078.53	6,974.69	103.84	68.167		
15,484.47	10,600.00	5,487.00	5,485.89	82.64	82.64	-21.10	462.36	-1,458.80	7,132.55	7,027.92	104.63	68.168		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	38.44	3,124.12	2,479.28	3,988.51					
100.00	100.00	65.00	65.00	0.52	0.96	38.44	3,124.12	2,479.28	3,988.35	3,986.87	1.48	2,692.521		
200.00	200.00	165.00	165.00	0.70	2.37	38.44	3,124.12	2,479.28	3,988.35	3,985.28	3.08	1,296.403		
300.00	300.00	265.00	265.00	0.99	3.85	38.44	3,124.12	2,479.28	3,988.35	3,983.52	4.84	824.284		
400.00	400.00	365.00	365.00	1.31	5.34	38.44	3,124.12	2,479.28	3,988.35	3,981.71	6.65	599.870		
500.00	500.00	465.00	465.00	1.65	6.83	38.44	3,124.12	2,479.28	3,988.35	3,979.88	8.48	470.433		
600.00	600.00	565.00	565.00	1.99	8.33	38.44	3,124.12	2,479.28	3,988.35	3,978.04	10.32	386.589		
700.00	700.00	665.00	665.00	2.34	9.82	38.44	3,124.12	2,479.28	3,988.35	3,976.19	12.16	327.971		
800.00	800.00	765.00	765.00	2.69	11.32	38.44	3,124.12	2,479.28	3,988.35	3,974.35	14.01	284.724		
900.00	900.00	865.00	865.00	3.04	12.81	38.44	3,124.12	2,479.28	3,988.35	3,972.50	15.86	251.520		
1,000.00	1,000.00	965.00	965.00	3.40	14.31	38.44	3,124.12	2,479.28	3,988.35	3,970.65	17.71	225.234		
1,100.00	1,100.00	1,065.00	1,065.00	3.75	15.81	38.44	3,124.12	2,479.28	3,988.35	3,968.79	19.56	203.912		
1,200.00	1,200.00	1,165.00	1,165.00	4.11	17.30	38.44	3,124.12	2,479.28	3,988.35	3,966.94	21.41	186.271		
1,300.00	1,300.00	1,265.00	1,265.00	4.46	18.80	38.44	3,124.12	2,479.28	3,988.35	3,965.09	23.26	171.435		
1,400.00	1,400.00	1,365.00	1,365.00	4.82	20.30	38.44	3,124.12	2,479.28	3,988.35	3,963.24	25.12	158.785		
1,500.00	1,500.00	1,465.00	1,465.00	5.18	21.79	38.44	3,124.12	2,479.28	3,988.35	3,961.38	26.97	147.872		
1,600.00	1,600.00	1,565.00	1,565.00	5.53	23.29	38.44	3,124.12	2,479.28	3,988.35	3,959.53	28.83	138.361		
1,700.00	1,700.00	1,665.00	1,665.00	5.89	24.79	38.44	3,124.12	2,479.28	3,988.35	3,957.67	30.68	129.999		
1,800.00	1,800.00	1,765.00	1,765.00	6.25	26.29	38.44	3,124.12	2,479.28	3,988.35	3,955.82	32.53	122.589		
1,900.00	1,900.00	1,865.00	1,865.00	6.61	27.78	38.44	3,124.12	2,479.28	3,988.35	3,953.96	34.39	115.977		
2,000.00	2,000.00	1,965.00	1,965.00	6.96	29.28	38.44	3,124.12	2,479.28	3,988.35	3,952.11	36.24	110.042		
2,100.00	2,099.99	2,064.99	2,064.99	7.31	30.78	-57.06	3,124.12	2,479.28	3,987.88	3,949.79	38.09	104.699		
2,200.00	2,199.96	2,164.96	2,164.96	7.65	32.27	-57.10	3,124.12	2,479.28	3,986.46	3,946.53	39.93	99.847		
2,300.00	2,299.86	2,264.86	2,264.86	7.99	33.77	-57.17	3,124.12	2,479.28	3,984.09	3,942.32	41.76	95.397		
2,399.87	2,399.54	2,364.54	2,364.54	8.34	35.26	-57.27	3,124.12	2,479.28	3,980.78	3,937.18	43.60	91.303		
2,500.00	2,499.43	2,464.43	2,464.43	8.69	36.76	-57.36	3,124.12	2,479.28	3,977.01	3,931.56	45.44	87.518		
2,600.00	2,599.19	2,564.19	2,564.19	9.03	38.25	-57.44	3,124.12	2,479.28	3,973.24	3,925.96	47.28	84.030		
2,700.00	2,698.94	2,663.94	2,663.94	9.39	39.75	-57.53	3,124.12	2,479.28	3,969.49	3,920.36	49.13	80.800		
2,800.00	2,798.70	2,763.70	2,763.70	9.74	41.24	-57.61	3,124.12	2,479.28	3,965.74	3,914.77	50.97	77.803		
2,900.00	2,898.46	2,863.46	2,863.46	10.09	42.73	-57.70	3,124.12	2,479.28	3,962.00	3,909.19	52.82	75.012		
3,000.00	2,998.21	2,963.21	2,963.21	10.45	44.23	-57.78	3,124.12	2,479.28	3,958.28	3,903.61	54.67	72.409		
3,100.00	3,097.97	3,062.97	3,062.97	10.80	45.72	-57.87	3,124.12	2,479.28	3,954.56	3,898.04	56.51	69.975		
3,200.00	3,197.73	3,162.73	3,162.73	11.16	47.22	-57.95	3,124.12	2,479.28	3,950.85	3,892.48	58.36	67.694		
3,300.00	3,297.48	3,262.48	3,262.48	11.52	48.71	-58.04	3,124.12	2,479.28	3,947.14	3,886.93	60.21	65.553		
3,400.00	3,397.24	3,362.24	3,362.24	11.88	50.20	-58.13	3,124.12	2,479.28	3,943.45	3,881.39	62.06	63.538		
3,500.00	3,497.00	3,462.00	3,462.00	12.24	51.70	-58.21	3,124.12	2,479.28	3,939.77	3,875.85	63.92	61.640		
3,600.00	3,596.75	3,561.75	3,561.75	12.60	53.19	-58.30	3,124.12	2,479.28	3,936.09	3,870.32	65.77	59.848		
3,700.00	3,696.51	3,661.51	3,661.51	12.96	54.68	-58.38	3,124.12	2,479.28	3,932.42	3,864.80	67.62	58.153		
3,800.00	3,796.27	3,761.27	3,761.27	13.32	56.18	-58.47	3,124.12	2,479.28	3,928.77	3,859.29	69.48	56.549		
3,900.00	3,896.02	3,861.02	3,861.02	13.68	57.67	-58.56	3,124.12	2,479.28	3,925.12	3,853.79	71.33	55.028		
4,000.00	3,995.78	3,960.78	3,960.78	14.04	59.17	-58.64	3,124.12	2,479.28	3,921.48	3,848.29	73.18	53.584		
4,100.00	4,095.54	4,060.54	4,060.54	14.40	60.66	-58.73	3,124.12	2,479.28	3,917.85	3,842.81	75.04	52.211		
4,200.00	4,195.29	4,160.29	4,160.29	14.77	62.15	-58.82	3,124.12	2,479.28	3,914.23	3,837.33	76.89	50.904		
4,300.00	4,295.05	4,260.05	4,260.05	15.13	63.65	-58.90	3,124.12	2,479.28	3,910.61	3,831.86	78.75	49.658		
4,400.00	4,394.81	4,359.81	4,359.81	15.49	65.14	-58.99	3,124.12	2,479.28	3,907.01	3,826.40	80.61	48.470		
4,500.00	4,494.56	4,459.56	4,459.56	15.86	66.64	-59.08	3,124.12	2,479.28	3,903.42	3,820.95	82.46	47.335		
4,600.00	4,594.32	4,559.32	4,559.32	16.22	68.13	-59.17	3,124.12	2,479.28	3,899.83	3,815.51	84.32	46.250		
4,700.00	4,694.08	4,659.08	4,659.08	16.59	69.62	-59.26	3,124.12	2,479.28	3,896.25	3,810.08	86.18	45.212		
4,800.00	4,793.83	4,758.83	4,758.83	16.95	71.12	-59.34	3,124.12	2,479.28	3,892.69	3,804.65	88.04	44.217		
4,900.00	4,893.59	4,858.59	4,858.59	17.32	72.61	-59.43	3,124.12	2,479.28	3,889.13	3,799.24	89.89	43.264		
5,000.00	4,993.35	4,958.35	4,958.35	17.68	74.10	-59.52	3,124.12	2,479.28	3,885.58	3,793.83	91.75	42.349		
5,100.00	5,093.10	5,058.10	5,058.10	18.05	75.60	-59.61	3,124.12	2,479.28	3,882.04	3,788.43	93.61	41.470		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,157.86	5,157.86	18.42	77.09	-59.70	3,124.12	2,479.28	3,878.51	3,783.05	95.47	40.626		
5,300.00	5,292.62	5,257.62	5,257.62	18.78	78.59	-59.79	3,124.12	2,479.28	3,874.99	3,777.67	97.33	39.814		
5,400.00	5,392.37	5,357.37	5,357.37	19.15	80.08	-59.88	3,124.12	2,479.28	3,871.48	3,772.30	99.19	39.032		
5,500.00	5,492.13	5,457.13	5,457.13	19.52	81.57	-59.96	3,124.12	2,479.28	3,867.98	3,766.94	101.05	38.279		
5,600.00	5,591.89	5,556.89	5,556.89	19.88	83.07	-60.05	3,124.12	2,479.28	3,864.49	3,761.58	102.91	37.554		
5,700.00	5,691.64	5,656.64	5,656.64	20.25	84.56	-60.14	3,124.12	2,479.28	3,861.01	3,756.24	104.77	36.854		
5,800.00	5,791.40	5,756.40	5,756.40	20.62	86.06	-60.23	3,124.12	2,479.28	3,857.53	3,750.91	106.62	36.179		
5,900.00	5,891.16	5,856.16	5,856.16	20.98	87.55	-60.32	3,124.12	2,479.28	3,854.07	3,745.59	108.48	35.526		
6,000.00	5,990.91	5,955.91	5,955.91	21.35	89.04	-60.41	3,124.12	2,479.28	3,850.62	3,740.27	110.34	34.896		
6,100.00	6,090.67	6,055.67	6,055.67	21.72	90.54	-60.50	3,124.12	2,479.28	3,847.17	3,734.97	112.21	34.287		
6,200.00	6,190.42	6,155.42	6,155.42	22.09	92.03	-60.59	3,124.12	2,479.28	3,843.74	3,729.67	114.07	33.698		
6,300.00	6,290.18	6,255.18	6,255.18	22.45	93.52	-60.68	3,124.12	2,479.28	3,840.31	3,724.38	115.93	33.127		
6,400.00	6,389.94	6,354.94	6,354.94	22.82	95.02	-60.77	3,124.12	2,479.28	3,836.89	3,719.11	117.79	32.575		
6,500.00	6,489.69	6,454.69	6,454.69	23.19	96.51	-60.86	3,124.12	2,479.28	3,833.49	3,713.84	119.65	32.040		
6,600.00	6,589.45	6,554.45	6,554.45	23.56	98.01	-60.96	3,124.12	2,479.28	3,830.09	3,708.58	121.51	31.521		
6,700.00	6,689.21	6,654.21	6,654.21	23.93	99.50	-61.05	3,124.12	2,479.28	3,826.70	3,703.34	123.37	31.018		
6,800.00	6,788.96	6,753.96	6,753.96	24.29	100.99	-61.14	3,124.12	2,479.28	3,823.33	3,698.10	125.23	30.530		
6,900.00	6,888.72	6,853.72	6,853.72	24.66	102.49	-61.23	3,124.12	2,479.28	3,819.96	3,692.87	127.09	30.057		
7,000.00	6,988.48	6,953.48	6,953.48	25.03	103.98	-61.32	3,124.12	2,479.28	3,816.60	3,687.65	128.95	29.597		
7,100.00	7,088.23	7,053.23	7,053.23	25.40	105.48	-61.41	3,124.12	2,479.28	3,813.25	3,682.44	130.81	29.150		
7,200.00	7,187.99	7,152.99	7,152.99	25.77	106.97	-61.50	3,124.12	2,479.28	3,809.92	3,677.24	132.68	28.716		
7,300.00	7,287.75	7,252.75	7,252.75	26.14	108.46	-61.60	3,124.12	2,479.28	3,806.59	3,672.05	134.54	28.294		
7,400.00	7,387.50	7,352.50	7,352.50	26.50	109.96	-61.69	3,124.12	2,479.28	3,803.27	3,666.87	136.40	27.883		
7,500.00	7,487.26	7,452.26	7,452.26	26.87	111.45	-61.78	3,124.12	2,479.28	3,799.96	3,661.70	138.26	27.484		
7,600.00	7,587.02	7,552.02	7,552.02	27.24	112.94	-61.87	3,124.12	2,479.28	3,796.66	3,656.54	140.12	27.095		
7,700.00	7,686.77	7,651.77	7,651.77	27.61	114.44	-61.97	3,124.12	2,479.28	3,793.37	3,651.39	141.98	26.717		
7,800.00	7,786.53	7,751.53	7,751.53	27.98	115.93	-62.06	3,124.12	2,479.28	3,790.10	3,646.25	143.85	26.348		
7,900.00	7,886.29	7,851.29	7,851.29	28.35	117.43	-62.15	3,124.12	2,479.28	3,786.83	3,641.12	145.71	25.989		
8,000.00	7,986.04	7,951.04	7,951.04	28.72	118.92	-62.25	3,124.12	2,479.28	3,783.57	3,636.00	147.57	25.639		
8,100.00	8,085.80	8,050.80	8,050.80	29.09	120.41	-62.34	3,124.12	2,479.28	3,780.32	3,630.89	149.43	25.298		
8,200.00	8,185.56	8,150.56	8,150.56	29.46	121.91	-62.43	3,124.12	2,479.28	3,777.08	3,625.79	151.30	24.965		
8,300.00	8,285.31	8,250.31	8,250.31	29.83	123.40	-62.53	3,124.12	2,479.28	3,773.85	3,620.70	153.16	24.640		
8,400.00	8,385.07	8,350.07	8,350.07	30.20	124.90	-62.62	3,124.12	2,479.28	3,770.64	3,615.62	155.02	24.323		
8,500.00	8,484.83	8,449.83	8,449.83	30.56	126.39	-62.71	3,124.12	2,479.28	3,767.43	3,610.54	156.88	24.014		
8,600.00	8,584.58	8,549.58	8,549.58	30.93	127.88	-62.81	3,124.12	2,479.28	3,764.23	3,605.48	158.75	23.712		
8,700.00	8,684.34	8,649.34	8,649.34	31.30	129.38	-62.90	3,124.12	2,479.28	3,761.04	3,600.43	160.61	23.418		
8,800.00	8,784.10	8,749.10	8,749.10	31.67	130.87	-63.00	3,124.12	2,479.28	3,757.86	3,595.39	162.47	23.129		
8,900.00	8,883.85	8,848.85	8,848.85	32.04	132.36	-63.09	3,124.12	2,479.28	3,754.70	3,590.36	164.33	22.848		
9,000.00	8,983.61	8,948.61	8,948.61	32.41	133.86	-63.19	3,124.12	2,479.28	3,751.54	3,585.34	166.20	22.573		
9,100.00	9,083.37	9,048.37	9,048.37	32.78	135.35	-63.28	3,124.12	2,479.28	3,748.39	3,580.34	168.06	22.304		
9,200.00	9,183.12	9,148.12	9,148.12	33.15	136.85	-63.38	3,124.12	2,479.28	3,745.26	3,575.34	169.92	22.041		
9,300.00	9,282.88	9,247.88	9,247.88	33.52	138.34	-63.47	3,124.12	2,479.28	3,742.13	3,570.35	171.79	21.784		
9,400.00	9,382.64	9,347.64	9,347.64	33.89	139.83	-63.57	3,124.12	2,479.28	3,739.02	3,565.37	173.65	21.532		
9,428.07	9,410.64	9,375.64	9,375.64	33.99	140.25	-63.59	3,124.12	2,479.28	3,738.14	3,563.97	174.17	21.462		
9,500.00	9,482.43	9,447.43	9,447.43	34.26	141.33	-63.63	3,124.12	2,479.28	3,736.21	3,560.70	175.51	21.288		
9,600.00	9,582.36	9,547.36	9,547.36	34.62	142.82	-63.66	3,124.12	2,479.28	3,734.53	3,554.61	176.85	21.128		
9,694.65	9,677.00	9,642.00	9,642.00	34.95	144.31	-63.69	3,124.12	2,479.28	3,733.01	3,549.07	178.19	20.977		
9,700.00	9,682.35	9,647.35	9,647.35	34.97	144.33	-63.69	3,124.12	2,479.28	3,733.01	3,549.07	178.19	20.977		
9,800.00	9,782.35	9,747.35	9,747.35	35.31	145.82	-63.72	3,124.12	2,479.28	3,731.51	3,544.04	179.53	20.826		
9,900.00	9,882.35	9,847.35	9,847.35	35.65	147.31	-63.75	3,124.12	2,479.28	3,730.01	3,539.01	180.87	20.675		
10,000.00	9,982.35	9,947.35	9,947.35	35.99	148.80	-63.78	3,124.12	2,479.28	3,728.51	3,534.01	182.21	20.524		
10,044.69	10,027.04	10,002.04	10,002.04	36.14	149.81	-63.81	3,124.12	2,479.28	3,727.01	3,529.01	183.55	20.373		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	10,000.62	9,997.35	36.16	149.63	32.23	3,124.12	2,479.28	3,733.99	3,548.28	185.71	20.107		
10,100.00	10,082.26	10,049.29	10,047.26	36.32	151.33	32.37	3,124.12	2,479.28	3,731.75	3,544.18	187.58	19.894		
10,150.00	10,131.76	10,098.79	10,096.76	36.49	153.06	32.75	3,124.12	2,479.28	3,725.85	3,536.37	189.48	19.664		
10,200.00	10,180.46	10,147.48	10,145.46	36.65	154.77	33.38	3,124.12	2,479.28	3,716.33	3,524.99	191.34	19.423		
10,250.00	10,227.98	10,195.01	10,192.98	36.81	156.43	34.26	3,124.12	2,479.28	3,703.28	3,510.12	193.15	19.173		
10,300.00	10,273.98	10,241.01	10,238.98	36.95	158.04	35.43	3,124.12	2,479.28	3,686.80	3,491.90	194.91	18.916		
10,350.00	10,318.11	10,285.13	10,283.11	37.09	159.59	36.90	3,124.12	2,479.28	3,667.06	3,470.48	196.58	18.654		
10,400.00	10,360.01	10,327.04	10,325.01	37.21	161.05	38.72	3,124.12	2,479.28	3,644.21	3,446.04	198.17	18.390		
10,450.00	10,399.38	10,366.41	10,364.38	37.32	162.43	40.94	3,124.12	2,479.28	3,618.46	3,418.81	199.65	18.124		
10,500.00	10,435.92	10,402.95	10,400.92	37.42	163.71	43.58	3,124.12	2,479.28	3,590.03	3,389.01	201.03	17.859		
10,550.00	10,469.35	10,436.37	10,434.35	37.51	164.88	46.72	3,124.12	2,479.28	3,559.17	3,356.89	202.28	17.595		
10,600.00	10,499.41	10,466.43	10,464.41	37.59	165.93	50.41	3,124.12	2,479.28	3,526.14	3,322.74	203.40	17.336		
10,650.00	10,525.87	10,492.90	10,490.87	37.66	166.86	54.69	3,124.12	2,479.28	3,491.23	3,286.85	204.38	17.082		
10,700.00	10,548.54	10,515.57	10,513.54	37.74	167.65	59.58	3,124.12	2,479.28	3,454.74	3,249.51	205.23	16.834		
10,750.00	10,567.24	10,534.27	10,532.24	37.84	168.31	65.08	3,124.12	2,479.28	3,416.96	3,211.05	205.92	16.594		
10,800.00	10,581.83	10,548.85	10,546.83	37.97	168.82	71.10	3,124.12	2,479.28	3,378.23	3,171.77	206.46	16.363		
10,850.00	10,592.19	10,559.22	10,557.19	38.11	169.18	77.52	3,124.12	2,479.28	3,338.86	3,132.01	206.84	16.142		
10,900.00	10,598.26	10,565.29	10,563.26	38.25	169.39	84.12	3,124.12	2,479.28	3,299.17	3,092.09	207.07	15.932		
10,944.69	10,600.00	10,567.03	10,565.00	38.39	169.45	90.00	3,124.12	2,479.28	3,263.68	3,056.54	207.15	15.755		
11,000.00	10,600.00	10,567.03	10,565.00	38.56	169.45	90.00	3,124.12	2,479.28	3,220.04	3,012.87	207.17	15.543		
11,100.00	10,600.00	10,567.03	10,565.00	38.91	169.45	90.00	3,124.12	2,479.28	3,142.07	2,934.84	207.23	15.162		
11,200.00	10,600.00	10,567.03	10,565.00	39.31	169.45	90.00	3,124.12	2,479.28	3,065.38	2,858.05	207.33	14.785		
11,300.00	10,600.00	10,567.03	10,565.00	39.76	169.45	90.00	3,124.12	2,479.28	2,990.07	2,782.59	207.47	14.412		
11,400.00	10,600.00	10,567.03	10,565.00	40.25	169.45	90.00	3,124.12	2,479.28	2,916.24	2,708.57	207.66	14.043		
11,500.00	10,600.00	10,567.03	10,565.00	40.79	169.45	90.00	3,124.12	2,479.28	2,844.01	2,636.10	207.90	13.679		
11,600.00	10,600.00	10,567.03	10,565.00	41.37	169.45	90.00	3,124.12	2,479.28	2,773.50	2,565.29	208.21	13.321		
11,700.00	10,600.00	10,567.03	10,565.00	41.99	169.45	90.00	3,124.12	2,479.28	2,704.85	2,496.28	208.57	12.968		
11,800.00	10,600.00	10,567.03	10,565.00	42.65	169.45	90.00	3,124.12	2,479.28	2,638.21	2,429.21	209.01	12.622		
11,900.00	10,600.00	10,567.03	10,565.00	43.35	169.45	90.00	3,124.12	2,479.28	2,573.74	2,364.21	209.52	12.284		
12,000.00	10,600.00	10,567.03	10,565.00	44.09	169.45	90.00	3,124.12	2,479.28	2,511.58	2,301.46	210.12	11.953		
12,100.00	10,600.00	10,567.03	10,565.00	44.86	169.45	90.00	3,124.12	2,479.28	2,451.94	2,241.14	210.80	11.632		
12,200.00	10,600.00	10,567.03	10,565.00	45.67	169.45	90.00	3,124.12	2,479.28	2,394.98	2,183.41	211.57	11.320		
12,300.00	10,600.00	10,567.03	10,565.00	46.50	169.45	90.00	3,124.12	2,479.28	2,340.91	2,128.48	212.43	11.020		
12,400.00	10,600.00	10,567.03	10,565.00	47.37	169.45	90.00	3,124.12	2,479.28	2,289.93	2,076.55	213.38	10.732		
12,500.00	10,600.00	10,567.03	10,565.00	48.26	169.45	90.00	3,124.12	2,479.28	2,242.26	2,027.84	214.42	10.457		
12,600.00	10,600.00	10,567.03	10,565.00	49.18	169.45	90.00	3,124.12	2,479.28	2,198.11	1,982.56	215.55	10.198		
12,700.00	10,600.00	10,567.03	10,565.00	50.13	169.45	90.00	3,124.12	2,479.28	2,157.69	1,940.93	216.75	9.955		
12,800.00	10,600.00	10,567.03	10,565.00	51.10	169.45	90.00	3,124.12	2,479.28	2,121.21	1,903.19	218.02	9.729		
12,900.00	10,600.00	10,567.03	10,565.00	52.09	169.45	90.00	3,124.12	2,479.28	2,088.90	1,869.54	219.36	9.523		
13,000.00	10,600.00	10,567.03	10,565.00	53.10	169.45	90.00	3,124.12	2,479.28	2,060.93	1,840.20	220.73	9.337		
13,100.00	10,600.00	10,567.03	10,565.00	54.14	169.45	90.00	3,124.12	2,479.28	2,037.49	1,815.35	222.14	9.172		
13,200.00	10,600.00	10,567.03	10,565.00	55.19	169.45	90.00	3,124.12	2,479.28	2,018.74	1,795.19	223.55	9.030		
13,300.00	10,600.00	10,567.03	10,565.00	56.26	169.45	90.00	3,124.12	2,479.28	2,004.80	1,779.85	224.96	8.912		
13,400.00	10,600.00	10,567.03	10,565.00	57.35	169.45	90.00	3,124.12	2,479.28	1,995.79	1,769.45	226.34	8.818		
13,500.00	10,600.00	10,567.03	10,565.00	58.45	169.45	90.00	3,124.12	2,479.28	1,991.76	1,764.09	227.67	8.748		
13,530.32	10,600.00	10,567.03	10,565.00	58.79	169.45	90.00	3,124.12	2,479.28	1,991.53	1,763.46	228.07	8.732 CC, ES		
13,600.00	10,600.00	10,567.03	10,565.00	59.57	169.45	90.00	3,124.12	2,479.28	1,992.75	1,763.80	228.95	8.704		
13,700.00	10,600.00	10,567.03	10,565.00	60.71	169.45	90.00	3,124.12	2,479.28	1,998.74	1,768.59	230.15	8.684 SF		
13,800.00	10,600.00	10,567.03	10,565.00	61.85	169.45	90.00	3,124.12	2,479.28	2,009.71	1,778.44	231.27	8.690		
13,900.00	10,600.00	10,567.03	10,565.00	63.01	169.45	90.00	3,124.12	2,479.28	2,025.55	1,793.26	232.29	8.720		
14,000.00	10,600.00	10,567.03	10,565.00	64.18	169.45	90.00	3,124.12	2,479.28	2,046.16	1,812.96	233.21	8.774		
14,100.00	10,600.00	10,567.03	10,565.00	65.37	169.45	90.00	3,124.12	2,479.28	2,071.41	1,837.38	234.02	8.851		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	10,567.03	10,565.00	66.56	169.45	90.00	3,124.12	2,479.28	2,101.11	1,866.38	234.73	8.951	
14,300.00	10,600.00	10,567.03	10,565.00	67.76	169.45	90.00	3,124.12	2,479.28	2,135.09	1,899.75	235.34	9.072	
14,400.00	10,600.00	10,567.03	10,565.00	68.98	169.45	90.00	3,124.12	2,479.28	2,173.14	1,937.29	235.85	9.214	
14,500.00	10,600.00	10,567.03	10,565.00	70.20	169.45	90.00	3,124.12	2,479.28	2,215.06	1,978.79	236.27	9.375	
14,600.00	10,600.00	10,567.03	10,565.00	71.43	169.45	90.00	3,124.12	2,479.28	2,260.62	2,024.02	236.60	9.555	
14,700.00	10,600.00	10,567.03	10,565.00	72.67	169.45	90.00	3,124.12	2,479.28	2,309.62	2,072.77	236.85	9.751	
14,800.00	10,600.00	10,567.03	10,565.00	73.92	169.45	90.00	3,124.12	2,479.28	2,361.84	2,124.81	237.03	9.964	
14,900.00	10,600.00	10,567.03	10,565.00	75.17	169.45	90.00	3,124.12	2,479.28	2,417.07	2,179.92	237.15	10.192	
15,000.00	10,600.00	10,567.03	10,565.00	76.44	169.45	90.00	3,124.12	2,479.28	2,475.11	2,237.89	237.22	10.434	
15,100.00	10,600.00	10,567.03	10,565.00	77.70	169.45	90.00	3,124.12	2,479.28	2,535.76	2,298.53	237.23	10.689	
15,200.00	10,600.00	10,567.03	10,565.00	78.98	169.45	90.00	3,124.12	2,479.28	2,598.85	2,361.65	237.20	10.956	
15,300.00	10,600.00	10,567.03	10,565.00	80.26	169.45	90.00	3,124.12	2,479.28	2,664.20	2,427.06	237.14	11.235	
15,400.00	10,600.00	10,567.03	10,565.00	81.55	169.45	90.00	3,124.12	2,479.28	2,731.65	2,494.60	237.05	11.523	
15,484.47	10,600.00	10,567.03	10,565.00	82.64	169.45	90.00	3,124.12	2,479.28	2,790.14	2,553.19	236.96	11.775	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 @ 3689.00ft

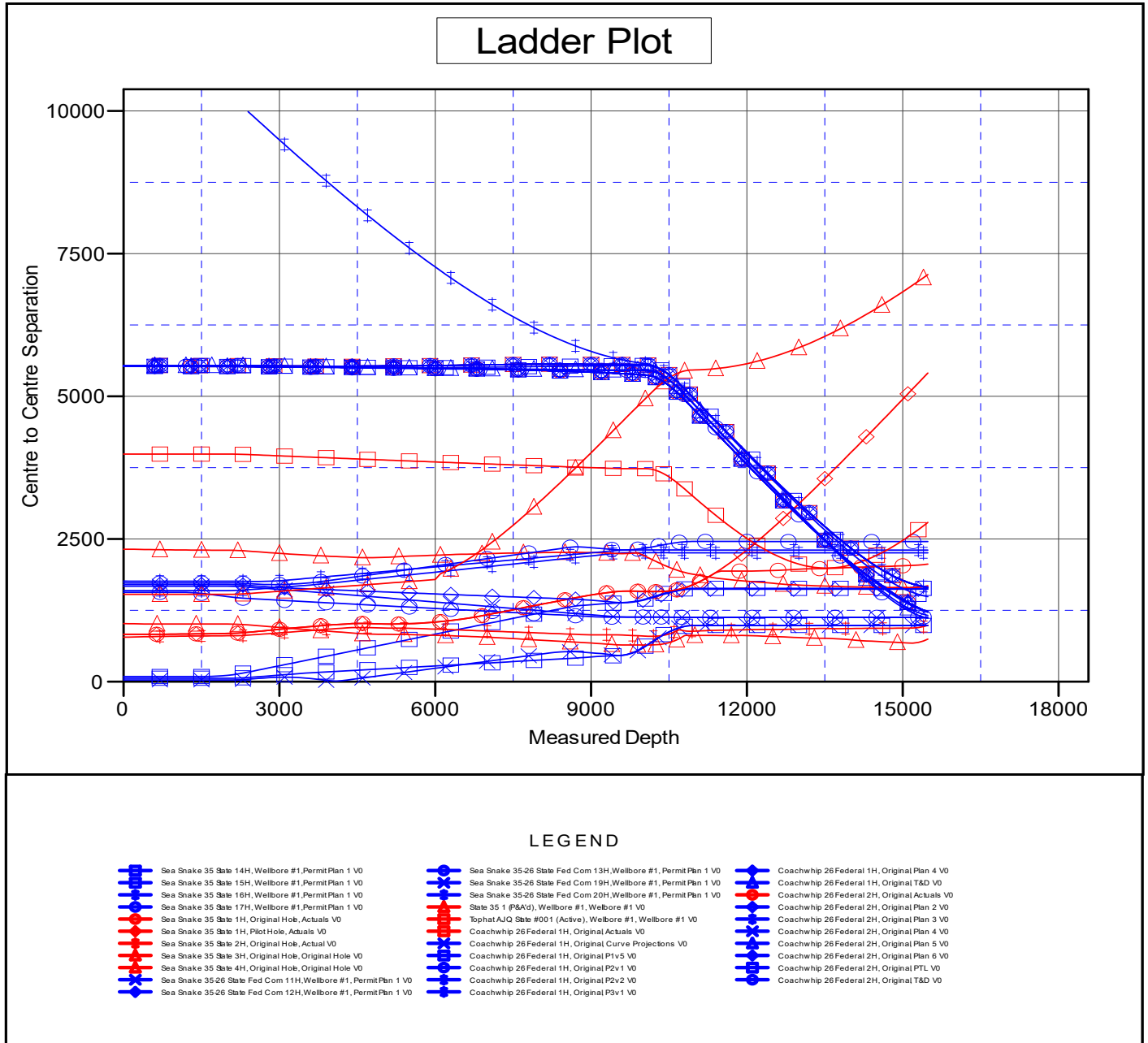
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 18H

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 @ 3689.00ft

Offset Depths are relative to Offset Datum

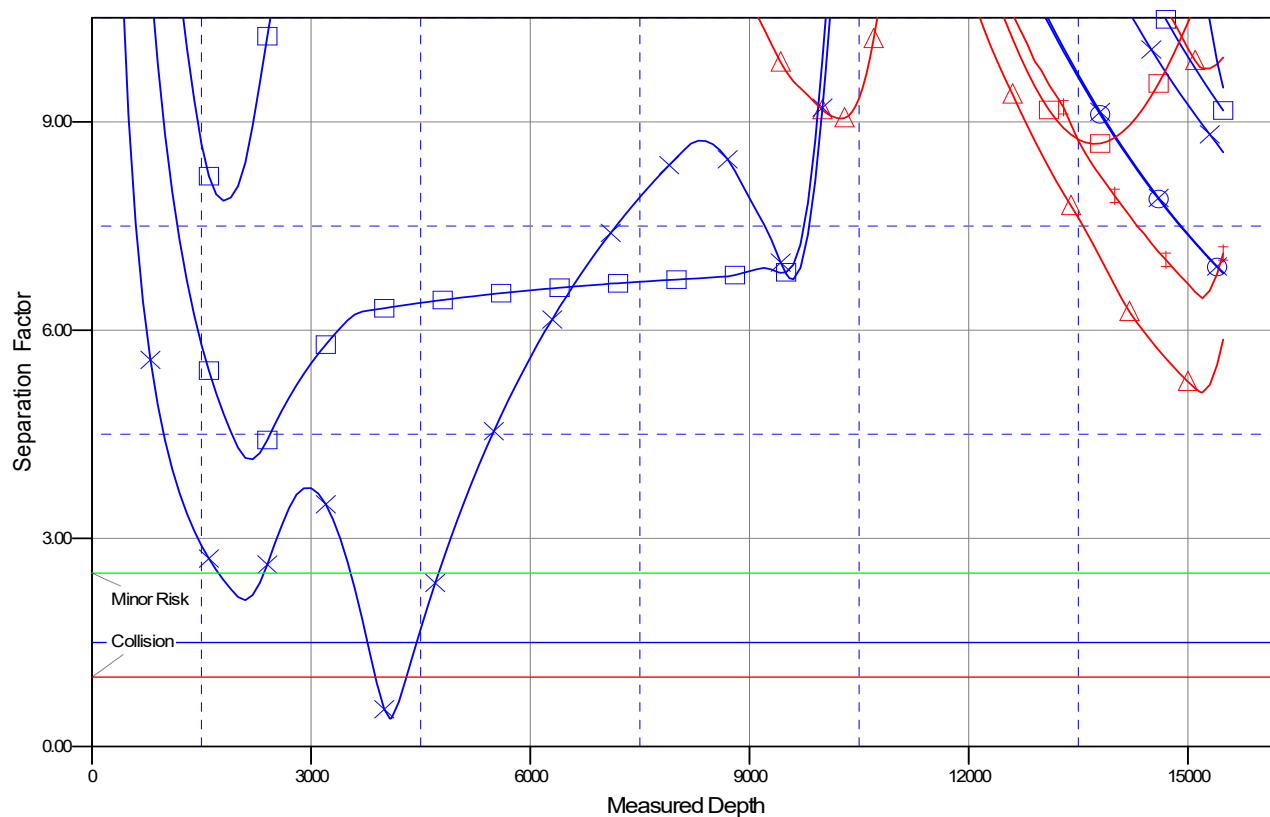
Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 18H

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 35-26 State Fed Com 13H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original Plan 4 V0
Sea Snake 35 State 15H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 19H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original T&D V0
Sea Snake 35 State 16H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 20H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 2H, Original Actuals V0
Sea Snake 35 State 17H, Wellbore #1, Permit Plan 1 V0	State 35 1 (P&A), Wellbore #1, Wellbore #1 V0	Coachwhip 26 Federal 2H, Original Plan 2 V0
Sea Snake 35 State 1H, Original Hob, Actuals V0	Tophat A/JQ Site #001 (Active), Wellbore #1, Wellbore #1 V0	Coachwhip 26 Federal 2H, Original Plan 3 V0
Sea Snake 35 State 1H, Plot Hole, Actuals V0	Coachwhip 26 Federal 1H, Original Actuals V0	Coachwhip 26 Federal 2H, Original Plan 4 V0
Sea Snake 35 State 2H, Original Hob, Actual V0	Coachwhip 26 Federal 1H, Original Curve Projections V0	Coachwhip 26 Federal 2H, Original Plan 5 V0
Sea Snake 35 State 3H, Original Hob, Original Hole V0	Coachwhip 26 Federal 1H, Original P1v5 V0	Coachwhip 26 Federal 2H, Original Plan 6 V0
Sea Snake 35 State 4H, Original Hob, Original Hole V0	Coachwhip 26 Federal 1H, Original P2v1 V0	Coachwhip 26 Federal 2H, Original PTL V0
Sea Snake 35-26 State Fed Com 11H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original P2v2 V0	Coachwhip 26 Federal 2H, Original T&D V0
Sea Snake 35-26 State Fed Com 12H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original P3v1 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

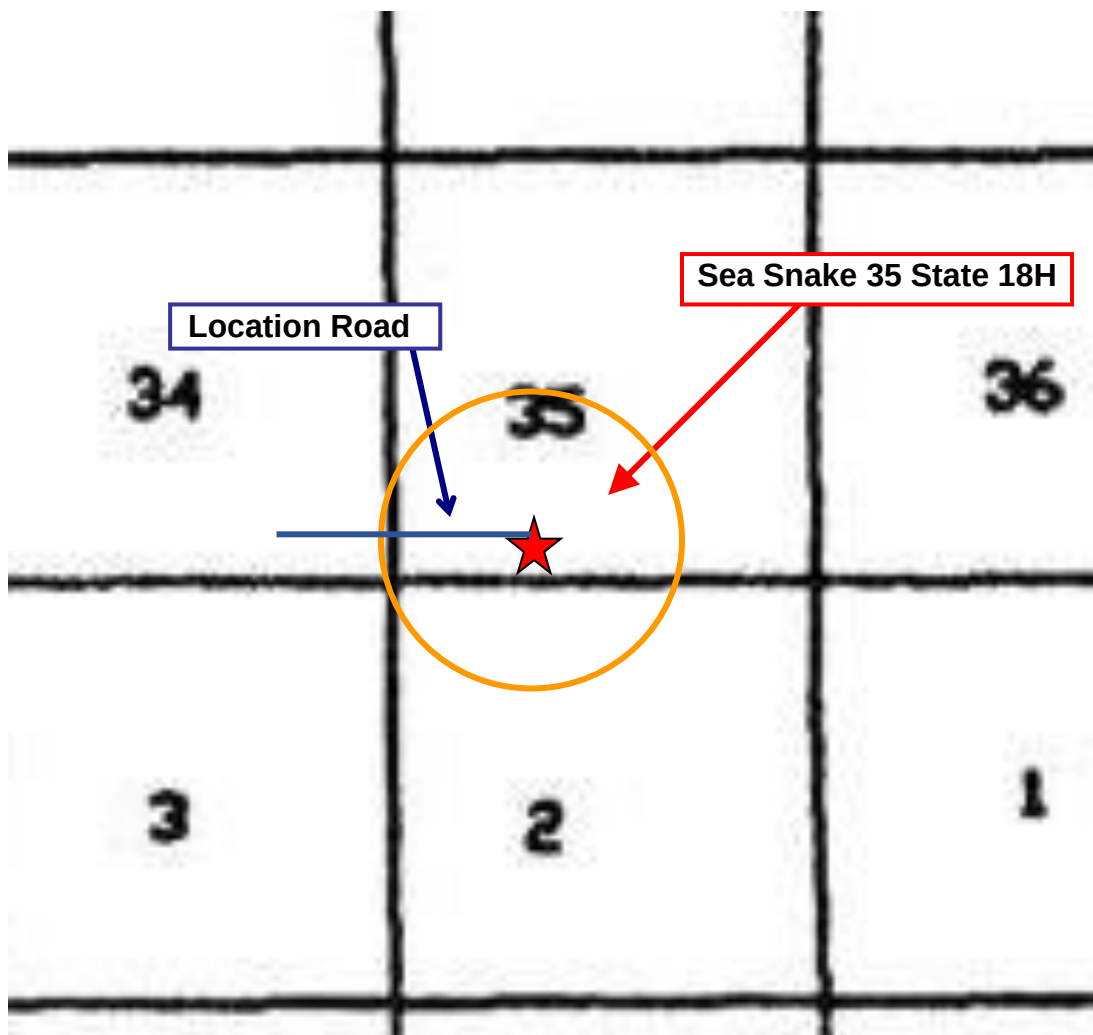
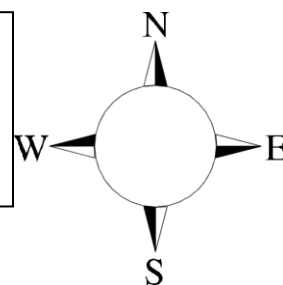
Sea Snake 35 State 18H

**Sec-35 T-23S R-33E
199' FSL & 2127' FWL
LAT. = 32.254422' N (NAD83)
LONG = 103.544784' W**

Lea County NM

Sea Snake 35 State 18H

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:

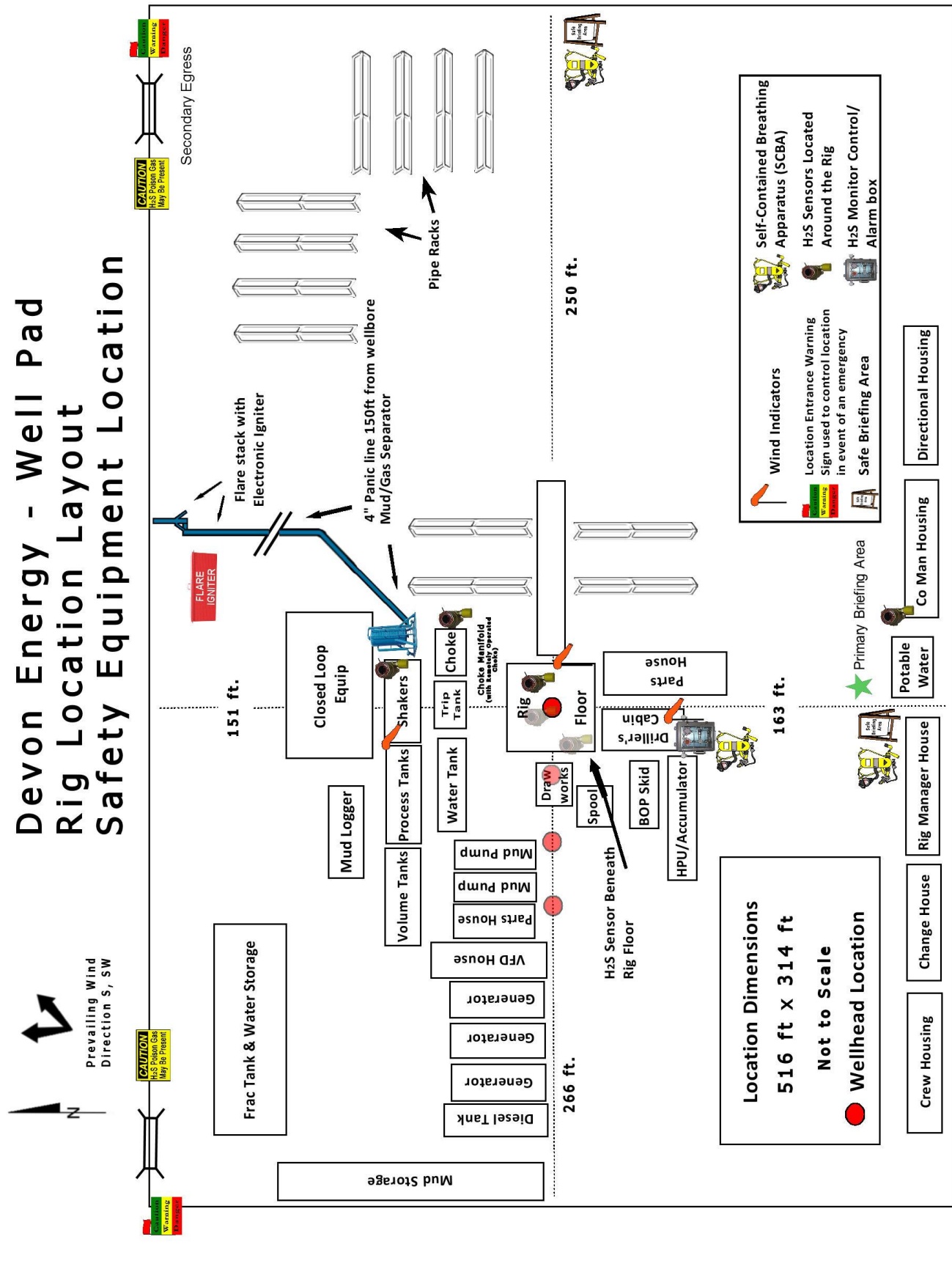
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing 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



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



Sea Snake 35 State 18H

1. Geologic Formations

TVD of target	10600	Pilot hole depth	N/A
MD at TD:	15484	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 18H

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 18H

	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 18H

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	451	500' Tieback	9.0	3.3	Lead: Class H / C + additives
	1050	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 18H

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	235	500' Tieback	9.0	3.3	Lead: Class H / C + additives
	1050	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 18H

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

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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 NMOCD 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 18H

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 18H

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	15,484.47	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 26-23S-33E						
Coachwhip 26 Federal 1H - Original - Actuals	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - Curve Projections	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P1v5	15,484.47	10,602.80	1,491.63	1,410.49	18.383	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P2v1	15,484.47	10,543.29	1,654.94	1,573.21	20.251	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P2v2	15,484.47	10,640.00	1,657.95	1,576.30	20.305	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P3v1	15,484.47	10,543.29	1,654.94	1,573.21	20.251	CC, ES, SF
Coachwhip 26 Federal 1H - Original - Plan 4	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - T&D	15,484.47	10,610.84	1,161.60	1,081.16	14.441	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Actuals	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 2	15,484.47	11,400.00	1,216.98	1,088.79	9.493	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 3	15,484.47	11,404.00	1,224.49	1,118.31	11.532	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 4	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 5	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 6	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - PTL	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - T&D	15,484.47	10,603.27	1,112.66	1,032.38	13.859	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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						
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	1,500.00	1,502.30	90.00	79.64	8.685	CC, ES
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	1,800.00	1,797.43	97.73	85.30	7.864	SF
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	2,000.00	2,001.60	60.00	46.07	4.307	Alert, CC, ES
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	2,200.00	2,201.56	63.47	48.14	4.139	Alert, SF
Sea Snake 35 State 16H - 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 16H - Wellbore #1 - Permit Plan 1	15,484.47	15,566.21	2,258.02	2,092.85	13.671	SF
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	15,484.47	15,626.10	1,128.03	962.59	6.818	CC, ES, SF
Sea Snake 35 State 1H - Original Hole - Actuals	637.21	638.25	830.55	826.41	200.508	CC
Sea Snake 35 State 1H - Original Hole - Actuals	700.00	696.23	830.74	826.18	182.097	ES
Sea Snake 35 State 1H - Original Hole - Actuals	15,400.00	15,977.00	2,051.55	1,880.78	12.014	SF
Sea Snake 35 State 1H - Pilot Hole - Actuals	637.21	638.25	830.55	826.41	200.508	CC
Sea Snake 35 State 1H - Pilot Hole - Actuals	700.00	696.23	830.74	826.18	182.097	ES
Sea Snake 35 State 1H - Pilot Hole - Actuals	10,550.00	10,528.67	1,595.59	1,532.32	25.217	SF
Sea Snake 35 State 2H - Original Hole - Actual	0.00	1.40	781.62			
Sea Snake 35 State 2H - Original Hole - Actual	10,171.05	10,224.56	796.06	727.75	11.655	ES
Sea Snake 35 State 2H - Original Hole - Actual	15,200.00	16,134.00	940.02	794.49	6.459	SF
Sea Snake 35 State 3H - Original Hole - Original Hole	10,019.26	9,993.41	642.46	572.28	9.155	CC
Sea Snake 35 State 3H - Original Hole - Original Hole	15,171.83	15,725.00	676.81	544.23	5.105	ES
Sea Snake 35 State 3H - Original Hole - Original Hole	15,200.00	15,725.00	677.40	544.65	5.103	SF
Sea Snake 35 State 4H - Original Hole - Original Hole	15,166.26	15,629.00	1,649.82	1,481.25	9.787	CC, ES
Sea Snake 35 State 4H - Original Hole - Original Hole	15,300.00	15,629.00	1,655.23	1,485.80	9.769	SF
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	4,078.77	4,087.36	11.52	-17.23	0.401	Collision, CC, ES, SF
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	9,614.49	9,592.51	1,384.64	1,317.09	20.498	CC, ES
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	15,484.47	14,725.87	1,621.04	1,472.16	10.888	SF
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,900.77	2,759.51	1,702.32	1,682.68	86.672	CC, ES
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	15,484.47	14,809.33	2,456.66	2,297.15	15.402	SF
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	15,484.47	15,570.43	1,126.15	961.16	6.826	CC, ES, SF
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,554.30	2,410.00	1,756.33	1,739.13	102.144	CC
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,600.00	2,445.27	1,756.46	1,738.99	100.557	ES
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	15,484.47	15,655.22	2,306.03	2,140.98	13.971	SF
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	2,000.00	1,981.80	1,530.32	1,492.18	40.122	CC
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	2,100.00	2,081.79	1,531.17	1,491.26	38.364	ES
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	6,000.00	5,972.71	1,790.28	1,679.36	16.139	SF
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,530.32	10,567.03	1,991.53	1,763.46	8.732	CC, ES
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,700.00	10,567.03	1,998.74	1,768.59	8.684	SF

Offset Design		Sec 26-23S-33E - Coachwhip 26 Federal 1H - Original - Actuals										Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.00	16.89	5,302.03	1,610.31	5,541.19				
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928	
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390	
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366	
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136	
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919	
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205	
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067	
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,599.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		
4,900.00	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,632.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,652.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,652.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,652.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,652.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,652.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,652.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,652.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		
13,700.00	10,600.00	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341		
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052		
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781		
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534		
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314		
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128		
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979		
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873		
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Actuals												Offset Site Error:	0.00 ft
Survey Program: 166-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	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928		
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390		
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366		
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136		
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919		
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205		
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067		
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,601.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,652.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,652.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,652.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,652.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,652.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,652.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,652.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,652.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Curve Projections													Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF, 11409-													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	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341		
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052		
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781		
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534		
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314		
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128		
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979		
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873		
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816		
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813		
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869		
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987		
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174		
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433		
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766		
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178		
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670		
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243		
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	89.10	89.10	0.52	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.66	0.52	N/A		
200.00	200.00	189.10	189.10	0.70	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.47	0.70	7,890.005		
300.00	300.00	289.10	289.10	0.99	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.19	0.99	5,611.117		
400.00	400.00	389.10	389.10	1.31	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.87	1.31	4,232.199		
500.00	500.00	489.10	489.10	1.65	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.53	1.65	3,365.861		
600.00	600.00	589.10	589.10	1.99	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.19	1.99	2,783.388		
700.00	700.00	689.10	689.10	2.34	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.84	2.34	2,368.515		
800.00	800.00	789.10	789.10	2.69	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.49	2.69	2,059.309		
900.00	900.00	889.10	889.10	3.04	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.13	3.04	1,820.509		
1,000.00	1,000.00	989.10	989.10	3.40	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.78	3.40	1,630.783		
1,100.00	1,100.00	1,089.10	1,089.10	3.75	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.42	3.75	1,476.544		
1,200.00	1,200.00	1,189.10	1,189.10	4.11	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.07	4.11	1,348.758		
1,300.00	1,300.00	1,289.10	1,289.10	4.46	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.71	4.46	1,241.199		
1,400.00	1,400.00	1,389.10	1,389.10	4.82	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.36	4.82	1,149.441		
1,500.00	1,500.00	1,489.10	1,489.10	5.18	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.00	5.18	1,070.256		
1,600.00	1,600.00	1,589.10	1,589.10	5.53	0.00	16.89	5,302.03	1,610.31	5,541.18	5,535.64	5.53	1,001.237		
1,700.00	1,700.00	1,689.10	1,689.10	5.89	0.00	16.89	5,302.03	1,610.31	5,541.18	5,535.29	5.89	940.549		
1,800.00	1,800.00	1,789.10	1,789.10	6.25	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.93	6.25	886.776		
1,900.00	1,900.00	1,889.10	1,889.10	6.61	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.57	6.61	838.801		
2,000.00	2,000.00	1,989.10	1,989.10	6.96	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.21	6.96	795.739		
2,100.00	2,099.99	2,089.09	2,089.09	7.31	0.00	-78.59	5,302.03	1,610.31	5,541.00	5,533.69	7.31	757.848		
2,200.00	2,199.96	2,189.06	2,189.06	7.65	0.00	-78.63	5,302.03	1,610.31	5,540.49	5,532.84	7.65	724.107		
2,300.00	2,299.86	2,288.96	2,288.96	7.99	0.00	-78.68	5,302.03	1,610.31	5,539.63	5,531.63	7.99	692.990		
2,399.87	2,399.54	2,388.64	2,388.64	8.34	0.00	-78.75	5,302.03	1,610.31	5,538.43	5,530.09	8.34	664.228		
2,500.00	2,499.43	2,488.53	2,488.53	8.69	0.00	-78.82	5,302.03	1,610.31	5,537.07	5,528.39	8.69	637.489		
2,600.00	2,599.19	2,588.29	2,588.29	9.03	0.00	-78.89	5,302.03	1,610.31	5,535.72	5,526.69	9.03	612.711		
2,700.00	2,698.94	2,688.04	2,688.04	9.39	0.00	-78.96	5,302.03	1,610.31	5,534.38	5,524.99	9.39	589.672		
2,800.00	2,798.70	2,787.80	2,787.80	9.74	0.00	-79.03	5,302.03	1,610.31	5,533.04	5,523.31	9.74	568.205		
2,900.00	2,898.46	2,887.56	2,887.56	10.09	0.00	-79.10	5,302.03	1,610.31	5,531.72	5,521.63	10.09	548.164		
3,000.00	2,998.21	2,987.31	2,987.31	10.45	0.00	-79.18	5,302.03	1,610.31	5,530.40	5,519.96	10.45	529.420		
3,100.00	3,097.97	3,087.07	3,087.07	10.80	0.00	-79.25	5,302.03	1,610.31	5,529.09	5,518.29	10.80	511.855		
3,200.00	3,197.73	3,186.83	3,186.83	11.16	0.00	-79.32	5,302.03	1,610.31	5,527.79	5,516.63	11.16	495.368		
3,300.00	3,297.48	3,286.58	3,286.58	11.52	0.00	-79.39	5,302.03	1,610.31	5,526.50	5,514.99	11.52	479.867		
3,400.00	3,397.24	3,386.34	3,386.34	11.88	0.00	-79.46	5,302.03	1,610.31	5,525.22	5,513.34	11.88	465.268		
3,500.00	3,497.00	3,486.10	3,486.10	12.24	0.00	-79.53	5,302.03	1,610.31	5,523.94	5,511.71	12.23	451.498		
3,600.00	3,596.75	3,585.85	3,585.85	12.60	0.00	-79.60	5,302.03	1,610.31	5,522.68	5,510.08	12.59	438.490		
3,700.00	3,696.51	3,685.61	3,685.61	12.96	0.00	-79.67	5,302.03	1,610.31	5,521.42	5,508.47	12.96	426.186		
3,800.00	3,796.27	3,785.37	3,785.37	13.32	0.00	-79.74	5,302.03	1,610.31	5,520.17	5,506.86	13.32	414.531		
3,900.00	3,896.02	3,885.12	3,885.12	13.68	0.00	-79.81	5,302.03	1,610.31	5,518.93	5,505.25	13.68	403.477		
4,000.00	3,995.78	3,984.88	3,984.88	14.04	0.00	-79.88	5,302.03	1,610.31	5,517.70	5,503.66	14.04	392.979		
4,100.00	4,095.54	4,084.64	4,084.64	14.40	0.00	-79.96	5,302.03	1,610.31	5,516.48	5,502.07	14.40	382.998		
4,200.00	4,195.29	4,184.39	4,184.39	14.77	0.00	-80.03	5,302.03	1,610.31	5,515.26	5,500.50	14.77	373.497		
4,300.00	4,295.05	4,284.15	4,284.15	15.13	0.00	-80.10	5,302.03	1,610.31	5,514.06	5,498.93	15.13	364.444		
4,400.00	4,394.81	4,383.91	4,383.91	15.49	0.00	-80.17	5,302.03	1,610.31	5,512.86	5,497.36	15.49	355.807		
4,500.00	4,494.56	4,483.66	4,483.66	15.86	0.00	-80.24	5,302.03	1,610.31	5,511.67	5,495.81	15.86	347.560		
4,600.00	4,594.32	4,583.42	4,583.42	16.22	0.00	-80.31	5,302.03	1,610.31	5,510.49	5,494.27	16.22	339.677		
4,700.00	4,694.08	4,683.18	4,683.18	16.59	0.00	-80.38	5,302.03	1,610.31	5,509.32	5,492.73	16.59	332.136		
4,800.00	4,793.83	4,782.93	4,782.93	16.95	0.00	-80.45	5,302.03	1,610.31	5,508.15	5,491.20	16.95	324.914		
4,900.00	4,893.59	4,882.69	4,882.69	17.32	0.00	-80.53	5,302.03	1,610.31	5,507.00	5,489.68	17.32	317.993		
5,000.00	4,993.35	4,982.45	4,982.45	17.68	0.00	-80.60	5,302.03	1,610.31	5,505.85	5,488.17	17.68	311.353		
5,100.00	5,093.10	5,082.20	5,082.20	18.05	0.00	-80.67	5,302.03	1,610.31	5,504.71	5,486.67	18.05	304.980		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
5,200.00	5,192.86	5,181.96	5,181.96	18.42	0.00	-80.74	5,302.03	1,610.31	5,503.59	5,485.17	18.42	298.856		
5,300.00	5,292.62	5,281.72	5,281.72	18.78	0.00	-80.81	5,302.03	1,610.31	5,502.47	5,483.68	18.78	292.969		
5,400.00	5,392.37	5,381.47	5,381.47	19.15	0.00	-80.88	5,302.03	1,610.31	5,501.35	5,482.21	19.15	287.304		
5,500.00	5,492.13	5,465.45	5,465.45	19.52	0.00	-80.94	5,302.03	1,610.69	5,500.37	5,480.85	19.52	281.852		
5,600.00	5,591.89	5,545.94	5,545.93	19.88	0.00	-80.98	5,302.03	1,612.17	5,499.73	5,479.85	19.88	276.618		
5,700.00	5,691.64	5,626.53	5,626.47	20.25	0.00	-81.01	5,302.03	1,614.79	5,499.45	5,479.20	20.25	271.592		
5,729.10	5,720.67	5,650.00	5,649.92	20.36	0.00	-81.02	5,302.03	1,615.77	5,499.44	5,479.08	20.36	270.167		
5,800.00	5,791.40	5,707.19	5,707.05	20.62	0.00	-81.03	5,302.03	1,618.55	5,499.53	5,478.91	20.62	266.763		
5,900.00	5,891.16	5,787.89	5,787.60	20.98	0.00	-81.04	5,302.03	1,623.44	5,499.95	5,478.97	20.98	262.120		
6,000.00	5,990.91	5,868.59	5,868.07	21.35	0.00	-81.04	5,302.03	1,629.46	5,500.73	5,479.38	21.35	257.655		
6,100.00	6,090.67	5,961.06	5,960.20	21.72	0.00	-81.03	5,302.03	1,637.44	5,501.79	5,480.07	21.72	253.347		
6,200.00	6,190.42	6,061.05	6,059.80	22.09	0.00	-81.01	5,302.03	1,646.15	5,502.88	5,480.79	22.08	249.180		
6,300.00	6,290.18	6,161.03	6,159.40	22.45	0.00	-80.99	5,302.03	1,654.87	5,503.97	5,481.51	22.45	245.148		
6,400.00	6,389.94	6,261.01	6,259.00	22.82	0.00	-80.98	5,302.03	1,663.58	5,505.06	5,482.24	22.82	241.244		
6,500.00	6,489.69	6,360.99	6,358.60	23.19	0.00	-80.96	5,302.03	1,672.29	5,506.15	5,482.96	23.19	237.463		
6,600.00	6,589.45	6,460.97	6,458.20	23.56	0.00	-80.94	5,302.03	1,681.01	5,507.24	5,483.68	23.56	233.800		
6,700.00	6,689.21	6,560.96	6,557.81	23.93	0.00	-80.93	5,302.03	1,689.72	5,508.33	5,484.40	23.92	230.248		
6,800.00	6,788.96	6,660.94	6,657.41	24.29	0.00	-80.91	5,302.03	1,698.44	5,509.42	5,485.13	24.29	226.803		
6,900.00	6,888.72	6,760.92	6,757.01	24.66	0.00	-80.90	5,302.03	1,707.15	5,510.51	5,485.85	24.66	223.460		
7,000.00	6,988.48	6,860.90	6,856.61	25.03	0.00	-80.88	5,302.03	1,715.86	5,511.60	5,486.57	25.03	220.215		
7,100.00	7,088.23	6,960.88	6,956.21	25.40	0.00	-80.86	5,302.03	1,724.58	5,512.69	5,487.30	25.40	217.063		
7,200.00	7,187.99	7,060.86	7,055.81	25.77	0.00	-80.85	5,302.03	1,733.29	5,513.79	5,488.02	25.77	214.001		
7,300.00	7,287.75	7,160.85	7,155.41	26.14	0.00	-80.83	5,302.03	1,742.01	5,514.88	5,488.75	26.13	211.025		
7,400.00	7,387.50	7,260.83	7,255.02	26.50	0.00	-80.82	5,302.03	1,750.72	5,515.97	5,489.47	26.50	208.131		
7,500.00	7,487.26	7,360.81	7,354.62	26.87	0.00	-80.80	5,302.03	1,759.43	5,517.07	5,490.20	26.87	205.315		
7,600.00	7,587.02	7,460.79	7,454.22	27.24	0.00	-80.78	5,302.03	1,768.15	5,518.16	5,490.92	27.24	202.576		
7,700.00	7,686.77	7,560.77	7,553.82	27.61	0.00	-80.77	5,302.03	1,776.86	5,519.26	5,491.65	27.61	199.909		
7,800.00	7,786.53	7,660.76	7,653.42	27.98	0.00	-80.75	5,302.03	1,785.58	5,520.35	5,492.38	27.98	197.313		
7,900.00	7,886.29	7,760.74	7,753.02	28.35	0.00	-80.74	5,302.03	1,794.29	5,521.45	5,493.10	28.35	194.783		
8,000.00	7,986.04	7,860.72	7,852.63	28.72	0.00	-80.72	5,302.03	1,803.00	5,522.55	5,493.83	28.72	192.318		
8,100.00	8,085.80	7,960.70	7,952.23	29.09	0.00	-80.70	5,302.03	1,811.72	5,523.64	5,494.56	29.08	189.915		
8,200.00	8,185.56	8,060.68	8,051.83	29.46	0.00	-80.69	5,302.03	1,820.43	5,524.74	5,495.29	29.45	187.573		
8,300.00	8,285.31	8,160.67	8,151.43	29.83	0.00	-80.67	5,302.03	1,829.15	5,525.84	5,496.01	29.82	185.288		
8,400.00	8,385.07	8,260.65	8,251.03	30.20	0.00	-80.65	5,302.03	1,837.86	5,526.94	5,496.74	30.19	183.058		
8,500.00	8,484.83	8,360.63	8,350.63	30.56	0.00	-80.64	5,302.03	1,846.57	5,528.03	5,497.47	30.56	180.882		
8,600.00	8,584.58	8,460.61	8,450.23	30.93	0.00	-80.62	5,302.03	1,855.29	5,529.13	5,498.20	30.93	178.758		
8,700.00	8,684.34	8,560.59	8,549.84	31.30	0.00	-80.61	5,302.03	1,864.00	5,530.23	5,498.93	31.30	176.684		
8,800.00	8,784.10	8,660.58	8,649.44	31.67	0.00	-80.59	5,302.03	1,872.72	5,531.33	5,499.66	31.67	174.658		
8,900.00	8,883.85	8,760.56	8,749.04	32.04	0.00	-80.57	5,302.03	1,881.43	5,532.43	5,500.39	32.04	172.678		
9,000.00	8,983.61	8,860.54	8,848.64	32.41	0.00	-80.56	5,302.03	1,890.14	5,533.53	5,501.13	32.41	170.744		
9,100.00	9,083.37	8,960.52	8,948.24	32.78	0.00	-80.54	5,302.03	1,898.86	5,534.63	5,501.86	32.78	168.853		
9,200.00	9,183.12	9,069.11	9,056.43	33.15	0.00	-80.53	5,302.03	1,908.11	5,535.69	5,502.54	33.15	167.000		
9,300.00	9,282.88	9,183.33	9,170.32	33.52	0.00	-80.52	5,302.03	1,916.82	5,536.51	5,502.99	33.52	165.179		
9,400.00	9,382.64	9,297.56	9,284.30	33.89	0.00	-80.53	5,302.03	1,924.38	5,537.07	5,503.18	33.89	163.392		
9,428.07	9,410.64	9,329.62	9,316.31	33.99	0.00	-80.53	5,302.03	1,926.30	5,537.18	5,503.19	33.99	162.896		
9,500.00	9,482.43	9,411.78	9,398.34	34.26	0.00	-80.54	5,302.03	1,930.81	5,537.48	5,503.23	34.26	161.648		
9,600.00	9,582.36	9,525.99	9,512.43	34.62	0.00	-80.54	5,302.03	1,936.10	5,538.06	5,503.44	34.62	159.981		
9,694.65	9,677.00	9,634.09	9,620.45	34.95	0.00	14.95	5,302.03	1,940.06	5,538.76	5,503.81	34.95	158.493		
9,700.00	9,682.35	9,640.20	9,626.56	34.97	0.00	14.95	5,302.03	1,940.26	5,538.80	5,503.84	34.96	158.412		
9,800.00	9,782.35	9,754.43	9,740.75	35.31	0.00	14.98	5,302.03	1,943.27	5,539.48	5,504.18	35.30	156.909		
9,900.00	9,882.35	9,868.72	9,855.02	35.65	0.00	15.00	5,302.03	1,945.15	5,539.91	5,504.27	35.64	155.426		
10,000.00	9,982.35	9,983.02	9,969.32	35.99	0.00	15.01	5,302.03	1,945.89	5,540.08	5,504.09	35.98	153.963		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
10,044.69	10,027.04	10,029.84	10,016.14	36.14	0.00	15.01	5,302.03	1,945.90	5,540.08	5,503.94	36.14	153.315		
10,050.00	10,032.35	10,035.15	10,021.45	36.16	0.00	15.43	5,302.03	1,945.90	5,540.06	5,503.90	36.15	153.238		
10,100.00	10,082.26	10,085.06	10,071.36	36.32	0.00	15.51	5,302.03	1,945.90	5,537.51	5,501.19	36.32	152.455		
10,150.00	10,131.76	10,134.56	10,120.86	36.49	0.00	15.71	5,302.03	1,945.90	5,530.78	5,494.29	36.49	151.576		
10,200.00	10,180.46	10,183.26	10,169.56	36.65	0.00	16.05	5,302.03	1,945.90	5,519.92	5,483.27	36.65	150.614		
10,250.00	10,227.98	10,230.78	10,217.08	36.81	0.00	16.53	5,302.03	1,945.90	5,505.01	5,468.20	36.80	149.582		
10,300.00	10,273.98	10,276.78	10,263.08	36.95	0.00	17.18	5,302.03	1,945.90	5,486.17	5,449.22	36.95	148.488		
10,350.00	10,318.11	10,320.91	10,307.21	37.09	0.00	18.02	5,302.03	1,945.90	5,463.55	5,426.47	37.08	147.344		
10,400.00	10,360.01	10,362.81	10,349.11	37.21	0.00	19.09	5,302.03	1,945.90	5,437.32	5,400.11	37.20	146.159		
10,450.00	10,399.38	10,402.18	10,388.48	37.32	0.00	20.44	5,302.03	1,945.90	5,407.68	5,370.37	37.31	144.941		
10,500.00	10,435.92	10,438.72	10,425.02	37.42	0.00	22.15	5,302.03	1,945.90	5,374.87	5,337.47	37.40	143.698		
10,550.00	10,469.35	10,472.15	10,458.45	37.51	0.00	24.32	5,302.03	1,945.90	5,339.14	5,301.66	37.48	142.438		
10,600.00	10,499.41	10,502.21	10,488.51	37.59	0.00	27.09	5,302.03	1,945.90	5,300.77	5,263.22	37.55	141.166		
10,650.00	10,525.87	10,528.67	10,514.97	37.66	0.00	30.69	5,302.03	1,945.90	5,260.05	5,222.45	37.60	139.888		
10,700.00	10,548.54	10,551.34	10,537.64	37.74	0.00	35.42	5,302.03	1,945.90	5,217.31	5,179.67	37.64	138.610		
10,750.00	10,567.24	10,570.04	10,556.34	37.84	0.00	41.73	5,302.03	1,945.90	5,172.86	5,135.19	37.67	137.334		
10,800.00	10,581.83	10,584.63	10,570.93	37.97	0.00	50.23	5,302.03	1,945.90	5,127.05	5,089.37	37.68	136.065		
10,850.00	10,592.19	10,594.99	10,581.29	38.11	0.00	61.52	5,302.03	1,945.90	5,080.24	5,042.55	37.69	134.805		
10,900.00	10,598.26	10,601.06	10,587.36	38.25	0.00	75.73	5,302.03	1,945.90	5,032.78	4,995.09	37.68	133.555		
10,944.69	10,600.00	10,602.80	10,589.10	38.39	0.00	90.00	5,302.03	1,945.90	4,990.11	4,952.43	37.68	132.449		
11,000.00	10,600.00	10,602.80	10,589.10	38.56	0.00	90.00	5,302.03	1,945.90	4,937.29	4,899.63	37.66	131.085		
11,100.00	10,600.00	10,602.80	10,589.10	38.91	0.00	90.00	5,302.03	1,945.90	4,841.95	4,804.30	37.65	128.606		
11,200.00	10,600.00	10,602.80	10,589.10	39.31	0.00	90.00	5,302.03	1,945.90	4,746.79	4,709.15	37.64	126.106		
11,300.00	10,600.00	10,602.80	10,589.10	39.76	0.00	90.00	5,302.03	1,945.90	4,651.84	4,614.20	37.64	123.585		
11,400.00	10,600.00	10,602.80	10,589.10	40.25	0.00	90.00	5,302.03	1,945.90	4,557.10	4,519.46	37.65	121.041		
11,500.00	10,600.00	10,602.80	10,589.10	40.79	0.00	90.00	5,302.03	1,945.90	4,462.60	4,424.93	37.67	118.474		
11,600.00	10,600.00	10,602.80	10,589.10	41.37	0.00	90.00	5,302.03	1,945.90	4,368.34	4,330.64	37.70	115.883		
11,700.00	10,600.00	10,602.80	10,589.10	41.99	0.00	90.00	5,302.03	1,945.90	4,274.34	4,236.60	37.74	113.266		
11,800.00	10,600.00	10,602.80	10,589.10	42.65	0.00	90.00	5,302.03	1,945.90	4,180.61	4,142.82	37.79	110.623		
11,900.00	10,600.00	10,602.80	10,589.10	43.35	0.00	90.00	5,302.03	1,945.90	4,087.19	4,049.33	37.86	107.952		
12,000.00	10,600.00	10,602.80	10,589.10	44.09	0.00	90.00	5,302.03	1,945.90	3,994.08	3,956.14	37.95	105.253		
12,100.00	10,600.00	10,602.80	10,589.10	44.86	0.00	90.00	5,302.03	1,945.90	3,901.32	3,863.27	38.05	102.524		
12,200.00	10,600.00	10,602.80	10,589.10	45.67	0.00	90.00	5,302.03	1,945.90	3,808.92	3,770.74	38.18	99.765		
12,300.00	10,600.00	10,602.80	10,589.10	46.50	0.00	90.00	5,302.03	1,945.90	3,716.91	3,678.59	38.33	96.974		
12,400.00	10,600.00	10,602.80	10,589.10	47.37	0.00	90.00	5,302.03	1,945.90	3,625.33	3,586.83	38.51	94.152		
12,500.00	10,600.00	10,602.80	10,589.10	48.26	0.00	90.00	5,302.03	1,945.90	3,534.21	3,495.50	38.71	91.298		
12,600.00	10,600.00	10,602.80	10,589.10	49.18	0.00	90.00	5,302.03	1,945.90	3,443.57	3,404.63	38.95	88.413		
12,700.00	10,600.00	10,602.80	10,589.10	50.13	0.00	90.00	5,302.03	1,945.90	3,353.47	3,314.25	39.22	85.497		
12,800.00	10,600.00	10,602.80	10,589.10	51.10	0.00	90.00	5,302.03	1,945.90	3,263.95	3,224.41	39.54	82.551		
12,900.00	10,600.00	10,602.80	10,589.10	52.09	0.00	90.00	5,302.03	1,945.90	3,175.05	3,135.15	39.90	79.577		
13,000.00	10,600.00	10,602.80	10,589.10	53.10	0.00	90.00	5,302.03	1,945.90	3,086.83	3,046.52	40.31	76.577		
13,100.00	10,600.00	10,602.80	10,589.10	54.14	0.00	90.00	5,302.03	1,945.90	2,999.35	2,958.58	40.78	73.556		
13,200.00	10,600.00	10,602.80	10,589.10	55.19	0.00	90.00	5,302.03	1,945.90	2,912.68	2,871.38	41.30	70.517		
13,300.00	10,600.00	10,602.80	10,589.10	56.26	0.00	90.00	5,302.03	1,945.90	2,826.89	2,784.99	41.90	67.465		
13,400.00	10,600.00	10,602.80	10,589.10	57.35	0.00	90.00	5,302.03	1,945.90	2,742.06	2,699.48	42.57	64.408		
13,500.00	10,600.00	10,602.80	10,589.10	58.45	0.00	90.00	5,302.03	1,945.90	2,658.28	2,614.95	43.33	61.352		
13,600.00	10,600.00	10,602.80	10,589.10	59.57	0.00	90.00	5,302.03	1,945.90	2,575.66	2,531.49	44.17	58.308		
13,700.00	10,600.00	10,602.80	10,589.10	60.71	0.00	90.00	5,302.03	1,945.90	2,494.32	2,449.20	45.12	55.285		
13,800.00	10,600.00	10,602.80	10,589.10	61.85	0.00	90.00	5,302.03	1,945.90	2,414.38	2,368.21	46.17	52.294		
13,900.00	10,600.00	10,602.80	10,589.10	63.01	0.00	90.00	5,302.03	1,945.90	2,335.98	2,288.64	47.34	49.348		
14,000.00	10,600.00	10,602.80	10,589.10	64.18	0.00	90.00	5,302.03	1,945.90	2,259.29	2,210.66	48.63	46.461		
14,100.00	10,600.00	10,602.80	10,589.10	65.37	0.00	90.00	5,302.03	1,945.90	2,184.48	2,134.43	50.05	43.646		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P1v5												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
14,200.00	10,600.00	10,602.80	10,589.10	66.56	0.00	90.00	5,302.03	1,945.90	2,111.76	2,060.15	51.61	40.916	
14,300.00	10,600.00	10,602.80	10,589.10	67.76	0.00	90.00	5,302.03	1,945.90	2,041.36	1,988.04	53.32	38.287	
14,400.00	10,600.00	10,602.80	10,589.10	68.98	0.00	90.00	5,302.03	1,945.90	1,973.50	1,918.33	55.17	35.772	
14,500.00	10,600.00	10,602.80	10,589.10	70.20	0.00	90.00	5,302.03	1,945.90	1,908.48	1,851.31	57.17	33.384	
14,600.00	10,600.00	10,602.80	10,589.10	71.43	0.00	90.00	5,302.03	1,945.90	1,846.59	1,787.28	59.31	31.134	
14,700.00	10,600.00	10,602.80	10,589.10	72.67	0.00	90.00	5,302.03	1,945.90	1,788.15	1,726.56	61.59	29.033	
14,800.00	10,600.00	10,602.80	10,589.10	73.92	0.00	90.00	5,302.03	1,945.90	1,733.51	1,669.52	63.99	27.091	
14,900.00	10,600.00	10,602.80	10,589.10	75.17	0.00	90.00	5,302.03	1,945.90	1,683.04	1,616.56	66.49	25.314	
15,000.00	10,600.00	10,602.80	10,589.10	76.44	0.00	90.00	5,302.03	1,945.90	1,637.14	1,568.08	69.06	23.707	
15,100.00	10,600.00	10,602.80	10,589.10	77.70	0.00	90.00	5,302.03	1,945.90	1,596.18	1,524.52	71.66	22.273	
15,200.00	10,600.00	10,602.80	10,589.10	78.98	0.00	90.00	5,302.03	1,945.90	1,560.57	1,486.31	74.26	21.015	
15,300.00	10,600.00	10,602.80	10,589.10	80.26	0.00	90.00	5,302.03	1,945.90	1,530.68	1,453.88	76.80	19.931	
15,400.00	10,600.00	10,602.80	10,589.10	81.55	0.00	90.00	5,302.03	1,945.90	1,506.84	1,427.61	79.22	19.020	
15,484.47	10,600.00	10,602.80	10,589.10	82.64	0.00	90.00	5,302.03	1,945.90	1,491.63	1,410.49	81.14	18.383	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.00	16.89	5,302.10	1,610.18	5,541.21	5,540.69	0.52	N/A		
200.00	200.00	181.34	181.34	0.70	0.00	16.89	5,302.36	1,609.71	5,541.32	5,540.62	0.70	7,890.138		
300.00	300.00	285.09	285.09	0.99	0.00	16.88	5,302.76	1,608.83	5,541.45	5,540.46	0.99	5,611.386		
400.00	400.00	393.04	393.02	1.31	0.00	16.87	5,302.98	1,607.91	5,541.39	5,540.08	1.31	4,232.359		
500.00	500.00	494.51	494.49	1.65	0.00	16.86	5,303.17	1,607.05	5,541.33	5,539.68	1.65	3,365.950		
600.00	600.00	601.48	601.46	1.99	0.00	16.85	5,303.36	1,605.86	5,541.17	5,539.18	1.99	2,783.380		
700.00	700.00	706.46	706.43	2.34	0.00	16.83	5,303.44	1,604.56	5,540.89	5,538.55	2.34	2,368.390		
800.00	800.00	803.09	803.06	2.69	0.00	16.82	5,303.44	1,603.66	5,540.61	5,537.92	2.69	2,059.101		
900.00	900.00	902.69	902.65	3.04	0.00	16.81	5,303.45	1,602.66	5,540.34	5,537.29	3.04	1,820.235		
1,000.00	1,000.00	997.89	997.84	3.40	0.00	16.80	5,303.61	1,601.66	5,540.19	5,536.79	3.40	1,630.493		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	0.00	16.80	5,303.59	1,600.77	5,539.92	5,536.17	3.75	1,476.212		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	0.00	16.79	5,303.54	1,600.21	5,539.72	5,535.61	4.11	1,348.405		
1,300.00	1,300.00	1,312.65	1,312.60	4.46	0.00	16.79	5,303.30	1,599.70	5,539.37	5,534.90	4.46	1,240.800		
1,400.00	1,400.00	1,401.25	1,401.20	4.82	0.00	16.78	5,303.12	1,599.31	5,539.04	5,534.22	4.82	1,149.000		
1,500.00	1,500.00	1,489.85	1,489.80	5.18	0.00	16.78	5,303.13	1,598.92	5,538.93	5,533.75	5.18	1,069.822		
1,506.10	1,506.10	1,495.25	1,495.20	5.20	0.00	16.78	5,303.14	1,598.89	5,538.93	5,533.73	5.20	1,065.343		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	0.00	16.77	5,303.32	1,598.53	5,539.00	5,533.46	5.53	1,000.843		
1,700.00	1,700.00	1,670.87	1,670.81	5.89	0.00	16.77	5,303.52	1,598.40	5,539.19	5,533.29	5.89	940.215		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	0.00	16.77	5,303.87	1,598.40	5,539.50	5,533.25	6.25	886.507		
1,900.00	1,900.00	1,870.81	1,870.75	6.61	0.00	16.77	5,304.06	1,598.40	5,539.69	5,533.09	6.61	838.581		
2,000.00	2,000.00	2,002.16	2,002.10	6.96	0.00	16.77	5,304.16	1,598.34	5,539.76	5,532.80	6.96	795.538		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	0.00	-78.72	5,303.93	1,598.20	5,539.34	5,532.02	7.31	757.622		
2,200.00	2,199.96	2,196.79	2,196.74	7.65	0.00	-78.75	5,303.67	1,598.31	5,538.59	5,530.94	7.65	723.859		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	0.00	-78.80	5,303.66	1,598.43	5,537.77	5,529.77	7.99	692.758		
2,399.87	2,399.54	2,373.02	2,372.97	8.34	0.00	-78.86	5,303.81	1,598.68	5,536.82	5,528.48	8.34	664.036		
2,500.00	2,499.43	2,475.41	2,475.35	8.69	0.00	-78.93	5,304.00	1,599.09	5,535.76	5,527.07	8.69	637.337		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	0.00	-79.00	5,304.04	1,599.36	5,534.52	5,525.49	9.03	612.578		
2,700.00	2,698.94	2,664.88	2,664.83	9.39	0.00	-79.06	5,304.16	1,599.54	5,533.42	5,524.03	9.39	589.568		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	0.00	-79.11	5,304.58	1,599.94	5,532.79	5,523.05	9.74	568.186		
2,895.67	2,894.13	2,810.72	2,810.65	10.08	0.00	-79.16	5,305.27	1,600.60	5,532.63	5,522.56	10.08	549.107		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	0.00	-79.16	5,305.31	1,600.64	5,532.63	5,522.54	10.09	548.274		
3,000.00	2,998.21	2,913.30	2,913.22	10.45	0.00	-79.22	5,306.38	1,601.80	5,532.69	5,522.24	10.45	529.656		
3,100.00	3,097.97	3,038.22	3,038.13	10.80	0.00	-79.30	5,307.46	1,603.05	5,532.50	5,521.70	10.80	512.171		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	0.00	-79.37	5,308.14	1,603.72	5,532.03	5,520.87	11.16	495.746		
3,300.00	3,297.48	3,234.73	3,234.62	11.52	0.00	-79.43	5,308.92	1,604.29	5,531.70	5,520.18	11.52	480.317		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	0.00	-79.51	5,309.72	1,604.58	5,531.16	5,519.29	11.88	465.763		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	0.00	-79.60	5,310.42	1,604.72	5,530.50	5,518.26	12.23	452.028		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	0.00	-79.67	5,310.64	1,604.72	5,529.45	5,516.85	12.59	439.023		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	0.00	-79.74	5,310.90	1,604.79	5,528.48	5,515.52	12.96	426.726		
3,800.00	3,796.27	3,764.48	3,764.37	13.32	0.00	-79.80	5,311.12	1,605.16	5,527.56	5,514.24	13.32	415.080		
3,900.00	3,896.02	3,849.64	3,849.53	13.68	0.00	-79.86	5,311.28	1,606.17	5,526.83	5,513.15	13.68	404.047		
4,000.00	3,995.78	3,939.90	3,939.76	14.04	0.00	-79.90	5,311.41	1,608.21	5,526.35	5,512.31	14.04	393.589		
4,100.00	4,095.54	4,031.57	4,031.37	14.40	0.00	-79.93	5,311.30	1,611.61	5,526.02	5,511.61	14.40	383.655		
4,174.29	4,169.65	4,091.74	4,091.47	14.67	0.00	-79.95	5,311.17	1,614.46	5,525.90	5,511.23	14.67	376.597		
4,200.00	4,195.29	4,110.84	4,110.54	14.77	0.00	-79.95	5,311.14	1,615.48	5,525.92	5,511.15	14.77	374.219		
4,300.00	4,295.05	4,183.69	4,183.26	15.13	0.00	-79.96	5,311.08	1,619.97	5,526.27	5,511.14	15.13	365.265		
4,400.00	4,394.81	4,247.00	4,246.40	15.49	0.00	-79.96	5,311.19	1,624.45	5,527.15	5,511.66	15.49	356.772		
4,500.00	4,494.56	4,315.02	4,314.20	15.86	0.00	-79.95	5,311.58	1,629.89	5,528.65	5,512.80	15.85	348.707		
4,600.00	4,594.32	4,443.75	4,442.38	16.22	0.00	-79.93	5,312.31	1,641.82	5,530.53	5,514.31	16.22	340.956		
4,700.00	4,694.08	4,601.99	4,601.87	16.59	0.00	-79.88	5,311.01	1,657.15	5,530.99	5,514.40	16.59	333.448		
4,800.00	4,793.83	4,693.26	4,690.77	16.95	0.00	-79.86	5,310.21	1,665.30	5,531.33	5,514.38	16.95	326.290		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	4,893.59	4,778.85	4,776.06	17.32	0.00	-79.85	5,309.82	1,672.37	5,531.89	5,514.58	17.32	319.446		
5,000.00	4,993.35	4,874.99	4,871.86	17.68	0.00	-79.84	5,309.53	1,680.60	5,532.67	5,514.99	17.68	312.888		
5,100.00	5,093.10	4,990.07	4,986.51	18.05	0.00	-79.82	5,309.05	1,690.39	5,533.34	5,515.29	18.05	306.577		
5,200.00	5,192.86	5,091.58	5,087.66	18.42	0.00	-79.81	5,308.45	1,698.89	5,533.80	5,515.39	18.41	300.508		
5,300.00	5,292.62	5,207.11	5,202.87	18.78	0.00	-79.80	5,307.95	1,707.50	5,534.17	5,515.39	18.78	294.663		
5,400.00	5,392.37	5,324.57	5,320.10	19.15	0.00	-79.81	5,307.27	1,714.98	5,534.08	5,514.93	19.15	289.016		
5,435.10	5,427.39	5,352.75	5,348.21	19.28	0.00	-79.81	5,307.10	1,716.83	5,534.06	5,514.78	19.28	287.087		
5,500.00	5,492.13	5,400.00	5,395.34	19.52	0.00	-79.81	5,306.82	1,720.16	5,534.14	5,514.62	19.51	283.595		
5,600.00	5,591.89	5,458.94	5,454.08	19.88	0.00	-79.80	5,306.65	1,724.93	5,534.82	5,514.94	19.88	278.416		
5,700.00	5,691.64	5,543.61	5,538.39	20.25	0.00	-79.78	5,306.70	1,732.78	5,536.12	5,515.88	20.25	273.446		
5,800.00	5,791.40	5,639.24	5,633.59	20.62	0.00	-79.76	5,306.72	1,741.83	5,537.47	5,516.86	20.61	268.645		
5,900.00	5,891.16	5,759.61	5,753.44	20.98	0.00	-79.74	5,306.76	1,753.04	5,538.81	5,517.82	20.98	263.995		
6,000.00	5,990.91	5,857.08	5,850.52	21.35	0.00	-79.72	5,306.61	1,761.79	5,539.86	5,518.51	21.35	259.503		
6,100.00	6,090.67	5,966.21	5,959.23	21.72	0.00	-79.70	5,306.50	1,771.27	5,540.88	5,519.16	21.72	255.154		
6,200.00	6,190.42	6,067.02	6,059.69	22.09	0.00	-79.69	5,306.32	1,779.66	5,541.72	5,519.64	22.08	250.946		
6,300.00	6,290.18	6,132.83	6,125.26	22.45	0.00	-79.68	5,306.39	1,785.40	5,542.95	5,520.50	22.45	246.910		
6,400.00	6,389.94	6,226.66	6,218.69	22.82	0.00	-79.66	5,306.80	1,793.92	5,544.59	5,521.77	22.82	243.006		
6,500.00	6,489.69	6,344.07	6,335.68	23.19	0.00	-79.65	5,307.32	1,803.86	5,546.07	5,522.89	23.19	239.204		
6,600.00	6,589.45	6,435.36	6,426.61	23.56	0.00	-79.63	5,307.55	1,812.00	5,547.49	5,523.94	23.55	235.532		
6,700.00	6,689.21	6,542.88	6,533.67	23.93	0.00	-79.61	5,307.70	1,821.95	5,548.90	5,524.98	23.92	231.963		
6,800.00	6,788.96	6,652.79	6,643.12	24.29	0.00	-79.59	5,307.82	1,831.88	5,550.22	5,525.93	24.29	228.496		
6,900.00	6,888.72	6,771.79	6,761.70	24.66	0.00	-79.57	5,307.66	1,842.03	5,551.16	5,526.50	24.66	225.114		
7,000.00	6,988.48	6,850.80	6,840.44	25.03	0.00	-79.56	5,307.59	1,848.54	5,552.10	5,527.07	25.03	221.847		
7,100.00	7,088.23	6,925.34	6,914.65	25.40	0.00	-79.55	5,307.78	1,855.46	5,553.60	5,528.21	25.39	218.702		
7,200.00	7,187.99	7,033.10	7,021.97	25.77	0.00	-79.53	5,308.20	1,865.26	5,555.21	5,529.45	25.76	215.632		
7,300.00	7,287.75	7,150.21	7,138.63	26.14	0.00	-79.51	5,308.56	1,875.35	5,556.61	5,530.48	26.13	212.635		
7,400.00	7,387.50	7,240.64	7,228.74	26.50	0.00	-79.50	5,308.70	1,883.04	5,557.84	5,531.34	26.50	209.728		
7,500.00	7,487.26	7,350.27	7,337.88	26.87	0.00	-79.47	5,308.82	1,893.37	5,559.29	5,532.42	26.87	206.900		
7,600.00	7,587.02	7,460.78	7,447.93	27.24	0.00	-79.45	5,308.65	1,903.41	5,560.37	5,533.13	27.24	204.134		
7,700.00	7,686.77	7,569.10	7,555.84	27.61	0.00	-79.43	5,308.45	1,912.87	5,561.32	5,533.72	27.61	201.439		
7,800.00	7,786.53	7,634.08	7,620.54	27.98	0.00	-79.42	5,308.42	1,918.90	5,562.52	5,534.57	27.97	198.841		
7,900.00	7,886.29	7,764.48	7,750.26	28.35	0.00	-79.38	5,308.21	1,932.10	5,563.95	5,535.61	28.35	196.290		
8,000.00	7,986.04	7,893.46	7,878.69	28.72	0.00	-79.35	5,307.43	1,944.08	5,564.67	5,535.95	28.72	193.785		
8,100.00	8,085.80	8,039.82	8,024.47	29.09	0.00	-79.32	5,305.78	1,956.92	5,564.75	5,535.66	29.09	191.325		
8,157.87	8,143.53	8,076.17	8,060.68	29.30	0.00	-79.31	5,305.29	1,960.06	5,564.65	5,535.35	29.30	189.927		
8,200.00	8,185.56	8,104.21	8,088.61	29.46	0.00	-79.31	5,304.97	1,962.60	5,564.70	5,535.25	29.45	188.928		
8,300.00	8,285.31	8,193.47	8,177.47	29.83	0.00	-79.29	5,304.15	1,970.98	5,565.13	5,535.31	29.82	186.606		
8,400.00	8,385.07	8,331.42	8,314.85	30.20	0.00	-79.26	5,302.63	1,983.43	5,565.32	5,535.13	30.19	184.327		
8,500.00	8,484.83	8,444.23	8,427.25	30.56	0.00	-79.24	5,300.86	1,992.88	5,564.84	5,534.28	30.56	182.084		
8,600.00	8,584.58	8,527.88	8,510.55	30.93	0.00	-79.22	5,299.62	2,000.31	5,564.58	5,533.65	30.93	179.902		
8,700.00	8,684.34	8,657.76	8,639.89	31.30	0.00	-79.19	5,297.41	2,012.00	5,564.17	5,532.87	31.30	177.767		
8,800.00	8,784.10	8,785.97	8,767.61	31.67	0.00	-79.16	5,294.66	2,022.91	5,563.19	5,531.52	31.67	175.668		
8,900.00	8,883.85	8,884.50	8,865.79	32.04	0.00	-79.15	5,292.44	2,030.83	5,561.97	5,529.94	32.04	173.604		
9,000.00	8,983.61	8,941.43	8,922.53	32.41	0.00	-79.14	5,291.40	2,035.41	5,561.17	5,528.76	32.41	171.595		
9,046.84	9,030.34	8,967.80	8,948.80	32.58	0.00	-79.14	5,291.04	2,037.64	5,561.06	5,528.48	32.58	170.680		
9,100.00	9,083.37	9,010.83	8,991.67	32.78	0.00	-79.13	5,290.58	2,041.37	5,561.11	5,528.34	32.78	169.660		
9,200.00	9,183.12	9,124.26	9,104.69	33.15	0.00	-79.11	5,289.46	2,050.83	5,561.21	5,528.06	33.15	167.771		
9,300.00	9,282.88	9,229.46	9,209.59	33.52	0.00	-79.10	5,288.34	2,058.68	5,560.96	5,527.45	33.52	165.913		
9,400.00	9,382.64	9,326.46	9,306.36	33.89	0.00	-79.10	5,287.56	2,065.37	5,560.82	5,526.93	33.89	164.100		
9,428.07	9,410.64	9,355.03	9,334.86	33.99	0.00	-79.10	5,287.34	2,067.32	5,560.78	5,526.79	33.99	163.597		
9,500.00	9,482.43	9,479.13	9,458.69	34.26	0.00	-79.09	5,285.80	2,075.43	5,560.41	5,526.15	34.25	162.330		
9,600.00	9,582.36	9,607.37	9,586.67	34.62	0.00	-79.05	5,283.51	2,083.20	5,559.69	5,525.08	34.61	160.626		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
9,694.65	9,677.00	9,737.24	9,716.37	34.95	0.00	16.49	5,280.92	2,089.29	5,558.92	5,523.98	34.94	159.102		
9,700.00	9,682.35	9,744.64	9,723.76	34.97	0.00	16.50	5,280.76	2,089.59	5,558.87	5,523.91	34.96	159.019		
9,800.00	9,782.35	9,832.96	9,812.00	35.31	0.00	16.54	5,278.97	2,093.14	5,558.06	5,522.77	35.30	157.462		
9,900.00	9,882.35	9,957.73	9,936.66	35.65	0.00	16.59	5,276.40	2,097.51	5,557.08	5,521.45	35.64	155.943		
10,000.00	9,982.35	10,070.87	10,049.72	35.99	0.00	16.63	5,273.87	2,100.88	5,555.79	5,519.82	35.97	154.439		
10,044.69	10,027.04	10,126.52	10,105.33	36.14	0.00	16.65	5,272.51	2,102.56	5,555.14	5,519.01	36.12	153.776		
10,050.00	10,032.35	10,137.19	10,115.99	36.16	0.00	17.08	5,272.23	2,102.88	5,555.03	5,518.88	36.14	153.699		
10,100.00	10,082.26	10,225.24	10,203.97	36.32	0.00	17.23	5,269.57	2,105.39	5,551.44	5,515.13	36.31	152.908		
10,150.00	10,131.76	10,281.94	10,260.62	36.49	0.00	17.52	5,267.66	2,106.90	5,543.55	5,507.08	36.47	152.002		
10,200.00	10,180.46	10,333.30	10,311.93	36.65	0.00	17.95	5,265.88	2,108.23	5,531.54	5,494.91	36.63	151.011		
10,250.00	10,227.98	10,380.54	10,359.12	36.81	0.00	18.55	5,264.23	2,109.51	5,515.55	5,478.76	36.78	149.950		
10,300.00	10,273.98	10,429.00	10,407.52	36.95	0.00	19.34	5,262.48	2,110.94	5,495.69	5,458.77	36.93	148.834		
10,350.00	10,318.11	10,476.86	10,455.32	37.09	0.00	20.37	5,260.62	2,112.68	5,472.11	5,435.05	37.06	147.670		
10,400.00	10,360.01	10,520.04	10,498.42	37.21	0.00	21.66	5,258.82	2,114.51	5,444.99	5,407.81	37.18	146.467		
10,450.00	10,399.38	10,559.29	10,537.59	37.32	0.00	23.27	5,257.14	2,116.31	5,414.57	5,377.29	37.28	145.233		
10,500.00	10,435.92	10,594.81	10,573.04	37.42	0.00	25.30	5,255.58	2,118.03	5,381.09	5,343.72	37.37	143.978		
10,550.00	10,469.35	10,626.51	10,604.67	37.51	0.00	27.85	5,254.18	2,119.57	5,344.82	5,307.37	37.45	142.707		
10,600.00	10,499.41	10,640.00	10,618.13	37.59	0.00	30.97	5,253.59	2,120.22	5,306.06	5,268.54	37.52	141.416		
10,650.00	10,525.87	10,650.00	10,628.12	37.66	0.00	34.93	5,253.22	2,120.63	5,265.18	5,227.60	37.58	140.124		
10,700.00	10,548.54	10,650.00	10,628.12	37.74	0.00	39.93	5,253.22	2,120.63	5,222.46	5,184.84	37.62	138.831		
10,750.00	10,567.24	10,650.00	10,628.12	37.84	0.00	46.43	5,253.22	2,120.63	5,178.21	5,140.56	37.65	137.548		
10,800.00	10,581.83	10,650.00	10,628.12	37.97	0.00	54.89	5,253.22	2,120.63	5,132.73	5,095.07	37.66	136.278		
10,850.00	10,592.19	10,658.16	10,636.26	38.11	0.00	65.91	5,253.03	2,120.85	5,086.31	5,048.64	37.67	135.026		
10,900.00	10,598.26	10,659.13	10,637.24	38.25	0.00	78.97	5,253.01	2,120.86	5,039.34	5,001.68	37.67	133.785		
10,944.69	10,600.00	10,659.32	10,637.43	38.39	0.00	91.68	5,253.01	2,120.87	4,997.16	4,959.50	37.66	132.690		
11,000.00	10,600.00	10,659.14	10,637.25	38.56	0.00	91.67	5,253.01	2,120.86	4,944.99	4,907.34	37.65	131.340		
11,100.00	10,600.00	10,658.81	10,636.92	38.91	0.00	91.66	5,253.02	2,120.86	4,850.83	4,813.19	37.64	128.882		
11,200.00	10,600.00	10,658.45	10,636.56	39.31	0.00	91.65	5,253.02	2,120.85	4,756.91	4,719.27	37.63	126.399		
11,300.00	10,600.00	10,658.07	10,636.18	39.76	0.00	91.64	5,253.03	2,120.84	4,663.24	4,625.60	37.64	123.890		
11,400.00	10,600.00	10,657.67	10,635.78	40.25	0.00	91.62	5,253.04	2,120.84	4,569.84	4,532.18	37.66	121.354		
11,500.00	10,600.00	10,650.00	10,628.12	40.79	0.00	91.36	5,253.22	2,120.63	4,476.75	4,439.07	37.69	118.785		
11,600.00	10,600.00	10,650.00	10,628.12	41.37	0.00	91.36	5,253.22	2,120.63	4,383.94	4,346.21	37.73	116.191		
11,700.00	10,600.00	10,650.00	10,628.12	41.99	0.00	91.36	5,253.22	2,120.63	4,291.45	4,253.66	37.79	113.566		
11,800.00	10,600.00	10,650.00	10,628.12	42.65	0.00	91.36	5,253.22	2,120.63	4,199.30	4,161.44	37.86	110.909		
11,900.00	10,600.00	10,650.00	10,628.12	43.35	0.00	91.36	5,253.22	2,120.63	4,107.52	4,069.57	37.96	108.218		
12,000.00	10,600.00	10,650.00	10,628.12	44.09	0.00	91.36	5,253.22	2,120.63	4,016.13	3,978.06	38.07	105.494		
12,100.00	10,600.00	10,650.00	10,628.12	44.86	0.00	91.36	5,253.22	2,120.63	3,925.17	3,886.96	38.21	102.734		
12,200.00	10,600.00	10,650.00	10,628.12	45.67	0.00	91.36	5,253.22	2,120.63	3,834.65	3,796.28	38.37	99.940		
12,300.00	10,600.00	10,650.00	10,628.12	46.50	0.00	91.36	5,253.22	2,120.63	3,744.61	3,706.05	38.56	97.109		
12,400.00	10,600.00	10,650.00	10,628.12	47.37	0.00	91.36	5,253.22	2,120.63	3,655.10	3,616.31	38.78	94.243		
12,500.00	10,600.00	10,650.00	10,628.12	48.26	0.00	91.36	5,253.22	2,120.63	3,566.14	3,527.10	39.04	91.342		
12,600.00	10,600.00	10,650.00	10,628.12	49.18	0.00	91.36	5,253.22	2,120.63	3,477.78	3,438.44	39.34	88.407		
12,700.00	10,600.00	10,650.00	10,628.12	50.13	0.00	91.36	5,253.22	2,120.63	3,390.07	3,350.39	39.68	85.440		
12,800.00	10,600.00	10,647.25	10,625.37	51.10	0.00	91.26	5,253.31	2,120.53	3,303.05	3,262.98	40.06	82.443		
12,900.00	10,600.00	10,645.83	10,623.95	52.09	0.00	91.21	5,253.36	2,120.48	3,216.79	3,176.28	40.50	79.420		
13,000.00	10,600.00	10,644.24	10,622.36	53.10	0.00	91.16	5,253.42	2,120.41	3,131.34	3,090.34	41.00	76.376		
13,100.00	10,600.00	10,642.42	10,620.55	54.14	0.00	91.09	5,253.49	2,120.34	3,046.77	3,005.22	41.56	73.314		
13,200.00	10,600.00	10,640.67	10,618.80	55.19	0.00	91.03	5,253.56	2,120.26	2,963.17	2,920.98	42.18	70.243		
13,300.00	10,600.00	10,636.24	10,614.38	56.26	0.00	90.88	5,253.76	2,120.04	2,880.61	2,837.72	42.89	67.169		
13,400.00	10,600.00	10,631.80	10,609.95	57.35	0.00	90.73	5,253.95	2,119.82	2,799.17	2,755.50	43.67	64.101		
13,500.00	10,600.00	10,627.37	10,605.52	58.45	0.00	90.57	5,254.15	2,119.61	2,718.97	2,674.43	44.54	61.048		
13,600.00	10,600.00	10,622.93	10,601.10	59.57	0.00	90.42	5,254.34	2,119.39	2,640.11	2,594.61	45.50	58.022		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P2v1												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	10,618.49	10,596.67	60.71	0.00	90.26	5,254.54	2,119.18	2,562.72	2,516.16	46.57	55.033	
13,800.00	10,600.00	10,614.06	10,592.24	61.85	0.00	90.11	5,254.73	2,118.96	2,486.94	2,439.20	47.74	52.095	
13,900.00	10,600.00	10,609.62	10,587.82	63.01	0.00	89.96	5,254.93	2,118.75	2,412.91	2,363.89	49.02	49.219	
14,000.00	10,600.00	10,605.18	10,583.39	64.18	0.00	89.80	5,255.12	2,118.53	2,340.81	2,290.38	50.43	46.419	
14,100.00	10,600.00	10,600.75	10,578.96	65.37	0.00	89.65	5,255.32	2,118.31	2,270.81	2,218.86	51.95	43.708	
14,200.00	10,600.00	10,596.31	10,574.54	66.56	0.00	89.49	5,255.51	2,118.10	2,203.12	2,149.52	53.61	41.099	
14,300.00	10,600.00	10,591.88	10,570.11	67.76	0.00	89.34	5,255.71	2,117.88	2,137.96	2,082.57	55.38	38.603	
14,400.00	10,600.00	10,587.44	10,565.68	68.98	0.00	89.18	5,255.90	2,117.67	2,075.56	2,018.27	57.29	36.231	
14,500.00	10,600.00	10,583.00	10,561.26	70.20	0.00	89.03	5,256.10	2,117.45	2,016.18	1,956.87	59.31	33.994	
14,600.00	10,600.00	10,578.57	10,556.83	71.43	0.00	88.88	5,256.29	2,117.24	1,960.10	1,898.66	61.44	31.901	
14,700.00	10,600.00	10,574.38	10,552.65	72.67	0.00	88.73	5,256.48	2,117.03	1,907.60	1,843.93	63.68	29.957	
14,800.00	10,600.00	10,570.34	10,548.62	73.92	0.00	88.59	5,256.66	2,116.84	1,859.00	1,793.01	65.99	28.170	
14,900.00	10,600.00	10,566.33	10,544.61	75.17	0.00	88.45	5,256.83	2,116.64	1,814.60	1,746.23	68.37	26.542	
15,000.00	10,600.00	10,562.33	10,540.63	76.44	0.00	88.31	5,257.01	2,116.45	1,774.72	1,703.94	70.77	25.076	
15,100.00	10,600.00	10,558.36	10,536.67	77.70	0.00	88.17	5,257.18	2,116.27	1,739.67	1,666.49	73.18	23.772	
15,200.00	10,600.00	10,554.41	10,532.73	78.98	0.00	88.04	5,257.35	2,116.08	1,709.75	1,634.20	75.55	22.631	
15,300.00	10,600.00	10,550.48	10,528.80	80.26	0.00	87.90	5,257.52	2,115.90	1,685.23	1,607.39	77.84	21.651	
15,400.00	10,600.00	10,546.58	10,524.91	81.55	0.00	87.76	5,257.69	2,115.71	1,666.35	1,586.34	80.01	20.827	
15,484.47	10,600.00	10,543.29	10,521.63	82.64	0.00	87.65	5,257.83	2,115.56	1,654.94	1,573.21	81.72	20.251	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
2,399.87	2,399.54	10,640.00	10,618.13	8.34	0.00	-79.39	5,253.59	2,120.22	9,988.76	9,983.17	5.59	1,785.360		
2,500.00	2,499.43	10,640.00	10,618.13	8.69	0.00	-79.39	5,253.59	2,120.22	9,905.50	9,899.67	5.83	1,699.271		
2,600.00	2,599.19	10,640.00	10,618.13	9.03	0.00	-79.39	5,253.59	2,120.22	9,822.67	9,816.60	6.07	1,618.695		
2,700.00	2,698.94	10,640.00	10,618.13	9.39	0.00	-79.39	5,253.59	2,120.22	9,740.16	9,733.85	6.31	1,542.933		
2,800.00	2,798.70	10,640.00	10,618.13	9.74	0.00	-79.39	5,253.59	2,120.22	9,657.99	9,651.42	6.56	1,471.659		
2,900.00	2,898.46	10,640.00	10,618.13	10.09	0.00	-79.39	5,253.59	2,120.22	9,576.15	9,569.33	6.82	1,404.566		
3,000.00	2,998.21	10,640.00	10,618.13	10.45	0.00	-79.39	5,253.59	2,120.22	9,494.65	9,487.58	7.08	1,341.366		
3,100.00	3,097.97	10,640.00	10,618.13	10.80	0.00	-79.39	5,253.59	2,120.22	9,413.52	9,406.18	7.34	1,281.790		
3,200.00	3,197.73	10,640.00	10,618.13	11.16	0.00	-79.39	5,253.59	2,120.22	9,332.75	9,325.14	7.61	1,225.589		
3,300.00	3,197.48	10,640.00	10,618.13	11.52	0.00	-79.39	5,253.59	2,120.22	9,252.36	9,244.47	7.89	1,172.532		
3,400.00	3,197.24	10,640.00	10,618.13	11.88	0.00	-79.39	5,253.59	2,120.22	9,172.35	9,164.18	8.17	1,122.403		
3,500.00	3,197.00	10,640.00	10,618.13	12.24	0.00	-79.39	5,253.59	2,120.22	9,092.74	9,084.28	8.46	1,075.005		
3,600.00	3,196.75	10,640.00	10,618.13	12.60	0.00	-79.39	5,253.59	2,120.22	9,013.53	9,004.78	8.75	1,030.155		
3,700.00	3,196.51	10,640.00	10,618.13	12.96	0.00	-79.39	5,253.59	2,120.22	8,934.75	8,925.70	9.05	987.684		
3,800.00	3,196.27	10,640.00	10,618.13	13.32	0.00	-79.39	5,253.59	2,120.22	8,856.39	8,847.04	9.35	947.437		
3,900.00	3,196.02	10,640.00	10,618.13	13.68	0.00	-79.39	5,253.59	2,120.22	8,778.47	8,768.81	9.65	909.269		
4,000.00	3,195.78	10,640.00	10,618.13	14.04	0.00	-79.39	5,253.59	2,120.22	8,701.00	8,691.03	9.97	873.048		
4,100.00	4,095.54	10,640.00	10,618.13	14.40	0.00	-79.39	5,253.59	2,120.22	8,623.99	8,613.71	10.28	838.651		
4,200.00	4,195.29	10,640.00	10,618.13	14.77	0.00	-79.39	5,253.59	2,120.22	8,547.46	8,536.86	10.61	805.965		
4,300.00	4,295.05	10,640.00	10,618.13	15.13	0.00	-79.39	5,253.59	2,120.22	8,471.42	8,460.49	10.93	774.885		
4,400.00	4,394.81	10,640.00	10,618.13	15.49	0.00	-79.39	5,253.59	2,120.22	8,395.89	8,384.62	11.26	745.314		
4,500.00	4,494.56	10,640.00	10,618.13	15.86	0.00	-79.39	5,253.59	2,120.22	8,320.87	8,309.26	11.60	717.163		
4,600.00	4,594.32	10,640.00	10,618.13	16.22	0.00	-79.39	5,253.59	2,120.22	8,246.37	8,234.43	11.95	690.347		
4,700.00	4,694.08	10,640.00	10,618.13	16.59	0.00	-79.39	5,253.59	2,120.22	8,172.43	8,160.13	12.29	664.791		
4,800.00	4,793.83	10,640.00	10,618.13	16.95	0.00	-79.39	5,253.59	2,120.22	8,099.04	8,086.39	12.65	640.422		
4,900.00	4,893.59	10,640.00	10,618.13	17.32	0.00	-79.39	5,253.59	2,120.22	8,026.23	8,013.22	13.00	617.173		
5,000.00	4,993.35	10,640.00	10,618.13	17.68	0.00	-79.39	5,253.59	2,120.22	7,954.01	7,940.64	13.37	594.984		
5,100.00	5,093.10	10,640.00	10,618.13	18.05	0.00	-79.39	5,253.59	2,120.22	7,882.39	7,868.66	13.74	573.795		
5,200.00	5,192.86	10,640.00	10,618.13	18.42	0.00	-79.39	5,253.59	2,120.22	7,811.40	7,797.29	14.11	553.554		
5,300.00	5,292.62	10,640.00	10,618.13	18.78	0.00	-79.39	5,253.59	2,120.22	7,741.05	7,726.56	14.49	534.211		
5,400.00	5,392.37	10,640.00	10,618.13	19.15	0.00	-79.39	5,253.59	2,120.22	7,671.36	7,656.49	14.88	515.719		
5,500.00	5,492.13	10,640.00	10,618.13	19.52	0.00	-79.39	5,253.59	2,120.22	7,602.35	7,587.08	15.26	498.033		
5,600.00	5,591.89	10,640.00	10,618.13	19.88	0.00	-79.39	5,253.59	2,120.22	7,534.03	7,518.37	15.66	481.114		
5,700.00	5,691.64	10,640.00	10,618.13	20.25	0.00	-79.39	5,253.59	2,120.22	7,466.42	7,450.36	16.06	464.923		
5,800.00	5,791.40	10,640.00	10,618.13	20.62	0.00	-79.39	5,253.59	2,120.22	7,399.55	7,383.09	16.46	449.425		
5,900.00	5,891.16	10,640.00	10,618.13	20.98	0.00	-79.39	5,253.59	2,120.22	7,333.43	7,316.56	16.87	434.585		
6,000.00	5,990.91	10,640.00	10,618.13	21.35	0.00	-79.39	5,253.59	2,120.22	7,268.09	7,250.80	17.29	420.373		
6,100.00	6,090.67	10,640.00	10,618.13	21.72	0.00	-79.39	5,253.59	2,120.22	7,203.54	7,185.83	17.71	406.759		
6,200.00	6,190.42	10,640.00	10,618.13	22.09	0.00	-79.39	5,253.59	2,120.22	7,139.81	7,121.68	18.13	393.714		
6,300.00	6,290.18	10,640.00	10,618.13	22.45	0.00	-79.39	5,253.59	2,120.22	7,076.92	7,058.36	18.56	381.214		
6,400.00	6,389.94	10,640.00	10,618.13	22.82	0.00	-79.39	5,253.59	2,120.22	7,014.89	6,995.89	19.00	369.234		
6,500.00	6,489.69	10,640.00	10,618.13	23.19	0.00	-79.39	5,253.59	2,120.22	6,953.75	6,934.31	19.44	357.750		
6,600.00	6,589.45	10,640.00	10,618.13	23.56	0.00	-79.39	5,253.59	2,120.22	6,893.51	6,873.63	19.88	346.741		
6,700.00	6,689.21	10,640.00	10,618.13	23.93	0.00	-79.39	5,253.59	2,120.22	6,834.20	6,813.88	20.33	336.186		
6,800.00	6,788.96	10,640.00	10,618.13	24.29	0.00	-79.39	5,253.59	2,120.22	6,775.86	6,755.08	20.78	326.065		
6,900.00	6,888.72	10,640.00	10,618.13	24.66	0.00	-79.39	5,253.59	2,120.22	6,718.49	6,697.26	21.24	316.361		
7,000.00	6,988.48	10,640.00	10,618.13	25.03	0.00	-79.39	5,253.59	2,120.22	6,662.13	6,640.44	21.70	307.057		
7,100.00	7,088.23	10,640.00	10,618.13	25.40	0.00	-79.39	5,253.59	2,120.22	6,606.81	6,584.65	22.16	298.135		
7,200.00	7,187.99	10,640.00	10,618.13	25.77	0.00	-79.39	5,253.59	2,120.22	6,552.54	6,529.91	22.63	289.580		
7,300.00	7,287.75	10,640.00	10,618.13	26.14	0.00	-79.39	5,253.59	2,120.22	6,499.36	6,476.26	23.10	281.378		
7,400.00	7,387.50	10,640.00	10,618.13	26.50	0.00	-79.39	5,253.59	2,120.22	6,447.29	6,423.72	23.57	273.514		
7,500.00	7,487.26	10,640.00	10,618.13	26.87	0.00	-79.39	5,253.59	2,120.22	6,396.36	6,372.32	24.05	265.976		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
7,600.00	7,587.02	10,640.00	10,618.13	27.24	0.00	-79.39	5,253.59	2,120.22	6,346.60	6,322.07	24.53	258.751		
7,700.00	7,686.77	10,640.00	10,618.13	27.61	0.00	-79.39	5,253.59	2,120.22	6,298.04	6,273.03	25.01	251.828		
7,800.00	7,786.53	10,640.00	10,618.13	27.98	0.00	-79.39	5,253.59	2,120.22	6,250.69	6,225.20	25.49	245.194		
7,900.00	7,886.29	10,640.00	10,618.13	28.35	0.00	-79.39	5,253.59	2,120.22	6,204.60	6,178.62	25.98	238.839		
8,000.00	7,986.04	10,640.00	10,618.13	28.72	0.00	-79.39	5,253.59	2,120.22	6,159.78	6,133.32	26.46	232.753		
8,100.00	8,085.80	10,640.00	10,618.13	29.09	0.00	-79.39	5,253.59	2,120.22	6,116.27	6,089.32	26.95	226.926		
8,200.00	8,185.56	10,640.00	10,618.13	29.46	0.00	-79.39	5,253.59	2,120.22	6,074.10	6,046.66	27.44	221.349		
8,300.00	8,285.31	10,640.00	10,618.13	29.83	0.00	-79.39	5,253.59	2,120.22	6,033.29	6,005.36	27.93	216.013		
8,400.00	8,385.07	10,640.00	10,618.13	30.20	0.00	-79.39	5,253.59	2,120.22	5,993.87	5,965.45	28.42	210.910		
8,500.00	8,484.83	10,640.00	10,618.13	30.56	0.00	-79.39	5,253.59	2,120.22	5,955.87	5,926.96	28.91	206.032		
8,600.00	8,584.58	10,640.00	10,618.13	30.93	0.00	-79.39	5,253.59	2,120.22	5,919.31	5,889.92	29.40	201.370		
8,700.00	8,684.34	10,640.00	10,618.13	31.30	0.00	-79.39	5,253.59	2,120.22	5,884.23	5,854.35	29.88	196.918		
8,800.00	8,784.10	10,640.00	10,618.13	31.67	0.00	-79.39	5,253.59	2,120.22	5,850.64	5,820.28	30.37	192.668		
8,900.00	8,883.85	10,640.00	10,618.13	32.04	0.00	-79.39	5,253.59	2,120.22	5,818.58	5,787.73	30.85	188.614		
9,000.00	8,983.61	10,640.00	10,618.13	32.41	0.00	-79.39	5,253.59	2,120.22	5,788.07	5,756.75	31.33	184.750		
9,100.00	9,083.37	10,640.00	10,618.13	32.78	0.00	-79.39	5,253.59	2,120.22	5,759.14	5,727.33	31.81	181.068		
9,200.00	9,183.12	10,640.00	10,618.13	33.15	0.00	-79.39	5,253.59	2,120.22	5,731.80	5,699.52	32.28	177.564		
9,300.00	9,282.88	10,640.00	10,618.13	33.52	0.00	-79.39	5,253.59	2,120.22	5,706.09	5,673.34	32.75	174.231		
9,400.00	9,382.64	10,640.00	10,618.13	33.89	0.00	-79.39	5,253.59	2,120.22	5,682.02	5,648.81	33.22	171.065		
9,428.07	9,410.64	10,640.00	10,618.13	33.99	0.00	-79.39	5,253.59	2,120.22	5,675.56	5,642.22	33.35	170.205		
9,500.00	9,482.43	10,640.00	10,618.13	34.26	0.00	-79.15	5,253.59	2,120.22	5,659.74	5,626.06	33.67	168.071		
9,600.00	9,582.36	10,640.00	10,618.13	34.62	0.00	-78.85	5,253.59	2,120.22	5,639.61	5,605.48	34.12	165.280		
9,694.65	9,677.00	10,640.00	10,618.13	34.95	0.00	16.88	5,253.59	2,120.22	5,622.58	5,588.05	34.53	162.843		
9,700.00	9,682.35	10,640.00	10,618.13	34.97	0.00	16.88	5,253.59	2,120.22	5,621.68	5,587.13	34.55	162.712		
9,800.00	9,782.35	10,640.00	10,618.13	35.31	0.00	16.88	5,253.59	2,120.22	5,605.71	5,570.74	34.96	160.326		
9,900.00	9,882.35	10,640.00	10,618.13	35.65	0.00	16.88	5,253.59	2,120.22	5,591.48	5,556.10	35.37	158.075		
10,000.00	9,982.35	10,640.00	10,618.13	35.99	0.00	16.88	5,253.59	2,120.22	5,579.00	5,543.23	35.77	155.953		
10,044.69	10,027.04	10,640.00	10,618.13	36.14	0.00	16.88	5,253.59	2,120.22	5,574.00	5,538.05	35.95	155.045		
10,050.00	10,032.35	10,640.00	10,618.13	36.16	0.00	17.32	5,253.59	2,120.22	5,573.40	5,537.43	35.97	154.938		
10,100.00	10,082.26	10,640.00	10,618.13	36.32	0.00	17.55	5,253.59	2,120.22	5,565.77	5,529.60	36.17	153.892		
10,150.00	10,131.76	10,640.00	10,618.13	36.49	0.00	17.91	5,253.59	2,120.22	5,554.49	5,518.13	36.36	152.781		
10,200.00	10,180.46	10,640.00	10,618.13	36.65	0.00	18.39	5,253.59	2,120.22	5,539.62	5,503.08	36.54	151.617		
10,250.00	10,227.98	10,640.00	10,618.13	36.81	0.00	19.02	5,253.59	2,120.22	5,521.25	5,484.54	36.71	150.411		
10,300.00	10,273.98	10,640.00	10,618.13	36.95	0.00	19.83	5,253.59	2,120.22	5,499.48	5,462.61	36.87	149.172		
10,350.00	10,318.11	10,640.00	10,618.13	37.09	0.00	20.84	5,253.59	2,120.22	5,474.44	5,437.43	37.01	147.907		
10,400.00	10,360.01	10,640.00	10,618.13	37.21	0.00	22.08	5,253.59	2,120.22	5,446.28	5,409.14	37.14	146.624		
10,450.00	10,399.38	10,640.00	10,618.13	37.32	0.00	23.63	5,253.59	2,120.22	5,415.16	5,377.90	37.26	145.328		
10,500.00	10,435.92	10,640.00	10,618.13	37.42	0.00	25.55	5,253.59	2,120.22	5,381.28	5,343.92	37.36	144.026		
10,550.00	10,469.35	10,640.00	10,618.13	37.51	0.00	27.94	5,253.59	2,120.22	5,344.84	5,307.39	37.45	142.720		
10,600.00	10,499.41	10,640.00	10,618.13	37.59	0.00	30.97	5,253.59	2,120.22	5,306.06	5,268.54	37.52	141.416		
10,650.00	10,525.87	10,650.00	10,628.11	37.66	1.16	34.93	5,253.22	2,120.63	5,265.18	5,227.58	37.60	140.017		
10,700.00	10,548.54	10,650.00	10,628.11	37.74	1.16	39.93	5,253.22	2,120.63	5,222.46	5,184.73	37.73	138.420		
10,750.00	10,567.24	10,650.00	10,628.11	37.84	1.16	46.43	5,253.22	2,120.63	5,178.21	5,140.38	37.83	136.888		
10,800.00	10,581.83	10,650.00	10,628.11	37.97	1.16	54.89	5,253.22	2,120.63	5,132.73	5,094.83	37.90	135.431		
10,850.00	10,592.19	10,658.44	10,636.55	38.11	1.16	65.91	5,253.02	2,120.86	5,086.31	5,048.40	37.91	134.169		
10,900.00	10,598.26	10,659.43	10,637.54	38.25	1.16	78.98	5,253.00	2,120.88	5,039.34	5,001.42	37.92	132.881		
10,944.69	10,600.00	10,659.62	10,637.73	38.39	1.16	91.69	5,253.00	2,120.88	4,997.16	4,959.24	37.92	131.787		
11,000.00	10,600.00	10,659.44	10,637.55	38.56	1.16	91.68	5,253.00	2,120.88	4,944.98	4,907.08	37.90	130.464		
11,100.00	10,600.00	10,659.10	10,637.21	38.91	1.16	91.67	5,253.01	2,120.87	4,850.83	4,812.94	37.88	128.055		
11,200.00	10,600.00	10,658.73	10,636.84	39.31	1.16	91.66	5,253.01	2,120.86	4,756.91	4,719.04	37.87	125.622		
11,300.00	10,600.00	10,658.35	10,636.46	39.76	1.16	91.65	5,253.02	2,120.85	4,663.24	4,625.38	37.86	123.163		
11,400.00	10,600.00	10,657.94	10,636.05	40.25	1.16	91.63	5,253.03	2,120.85	4,569.84	4,531.97	37.87	120.676		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
11,500.00	10,600.00	10,650.00	10,628.11	40.79	1.16	91.36	5,253.22	2,120.63	4,476.75	4,438.83	37.92	118.056		
11,600.00	10,600.00	10,650.00	10,628.11	41.37	1.16	91.36	5,253.22	2,120.63	4,383.94	4,345.99	37.95	115.519		
11,700.00	10,600.00	10,650.00	10,628.11	41.99	1.16	91.36	5,253.22	2,120.63	4,291.45	4,253.45	37.99	112.950		
11,800.00	10,600.00	10,650.00	10,628.11	42.65	1.16	91.36	5,253.22	2,120.63	4,199.30	4,161.25	38.05	110.350		
11,900.00	10,600.00	10,650.00	10,628.11	43.35	1.16	91.36	5,253.22	2,120.63	4,107.52	4,069.39	38.13	107.716		
12,000.00	10,600.00	10,650.00	10,628.11	44.09	1.16	91.36	5,253.22	2,120.63	4,016.13	3,977.90	38.23	105.048		
12,100.00	10,600.00	10,650.00	10,628.11	44.86	1.16	91.36	5,253.22	2,120.63	3,925.17	3,886.81	38.35	102.345		
12,200.00	10,600.00	10,650.00	10,628.11	45.67	1.16	91.36	5,253.22	2,120.63	3,834.65	3,796.15	38.50	99.607		
12,300.00	10,600.00	10,650.00	10,628.11	46.50	1.16	91.36	5,253.22	2,120.63	3,744.61	3,705.94	38.67	96.832		
12,400.00	10,600.00	10,650.00	10,628.11	47.37	1.16	91.36	5,253.22	2,120.63	3,655.10	3,616.22	38.88	94.021		
12,500.00	10,600.00	10,650.00	10,628.11	48.26	1.16	91.36	5,253.22	2,120.63	3,566.14	3,527.02	39.11	91.174		
12,600.00	10,600.00	10,650.00	10,628.11	49.18	1.16	91.36	5,253.22	2,120.63	3,477.78	3,438.39	39.39	88.291		
12,700.00	10,600.00	10,650.00	10,628.11	50.13	1.16	91.36	5,253.22	2,120.63	3,390.07	3,350.36	39.71	85.374		
12,800.00	10,600.00	10,647.33	10,625.45	51.10	0.85	91.26	5,253.31	2,120.54	3,303.05	3,262.96	40.08	82.402		
12,900.00	10,600.00	10,645.90	10,624.02	52.09	0.69	91.21	5,253.36	2,120.48	3,216.79	3,176.27	40.52	79.397		
13,000.00	10,600.00	10,644.28	10,622.40	53.10	0.50	91.16	5,253.42	2,120.42	3,131.34	3,090.33	41.01	76.356		
13,100.00	10,600.00	10,642.45	10,620.57	54.14	0.28	91.09	5,253.49	2,120.34	3,046.78	3,005.21	41.57	73.298		
13,200.00	10,600.00	10,640.00	10,618.13	55.19	0.00	91.01	5,253.59	2,120.22	2,963.17	2,920.99	42.18	70.243		
13,300.00	10,600.00	10,640.00	10,618.13	56.26	0.00	91.01	5,253.59	2,120.22	2,880.61	2,837.72	42.89	67.169		
13,400.00	10,600.00	10,640.00	10,618.13	57.35	0.00	91.01	5,253.59	2,120.22	2,799.18	2,755.52	43.67	64.100		
13,500.00	10,600.00	10,640.00	10,618.13	58.45	0.00	91.01	5,253.59	2,120.22	2,719.00	2,674.46	44.54	61.048		
13,600.00	10,600.00	10,640.00	10,618.13	59.57	0.00	91.01	5,253.59	2,120.22	2,640.17	2,594.66	45.50	58.021		
13,700.00	10,600.00	10,640.00	10,618.13	60.71	0.00	91.01	5,253.59	2,120.22	2,562.81	2,516.25	46.57	55.033		
13,800.00	10,600.00	10,640.00	10,618.13	61.85	0.00	91.01	5,253.59	2,120.22	2,487.08	2,439.33	47.74	52.094		
13,900.00	10,600.00	10,640.00	10,618.13	63.01	0.00	91.01	5,253.59	2,120.22	2,413.10	2,364.08	49.03	49.219		
14,000.00	10,600.00	10,640.00	10,618.13	64.18	0.00	91.01	5,253.59	2,120.22	2,341.07	2,290.64	50.43	46.420		
14,100.00	10,600.00	10,640.00	10,618.13	65.37	0.00	91.01	5,253.59	2,120.22	2,271.15	2,219.19	51.96	43.710		
14,200.00	10,600.00	10,640.00	10,618.13	66.56	0.00	91.01	5,253.59	2,120.22	2,203.56	2,149.94	53.61	41.102		
14,300.00	10,600.00	10,640.00	10,618.13	67.76	0.00	91.01	5,253.59	2,120.22	2,138.50	2,083.11	55.39	38.608		
14,400.00	10,600.00	10,640.00	10,618.13	68.98	0.00	91.01	5,253.59	2,120.22	2,076.22	2,018.93	57.29	36.239		
14,500.00	10,600.00	10,640.00	10,618.13	70.20	0.00	91.01	5,253.59	2,120.22	2,016.99	1,957.67	59.32	34.005		
14,600.00	10,600.00	10,640.00	10,618.13	71.43	0.00	91.01	5,253.59	2,120.22	1,961.06	1,899.61	61.45	31.914		
14,700.00	10,600.00	10,640.00	10,618.13	72.67	0.00	91.01	5,253.59	2,120.22	1,908.74	1,845.06	63.68	29.974		
14,800.00	10,600.00	10,640.00	10,618.13	73.92	0.00	91.01	5,253.59	2,120.22	1,860.33	1,794.34	65.99	28.191		
14,900.00	10,600.00	10,640.00	10,618.13	75.17	0.00	91.01	5,253.59	2,120.22	1,816.14	1,747.77	68.36	26.567		
15,000.00	10,600.00	10,640.00	10,618.13	76.44	0.00	91.01	5,253.59	2,120.22	1,776.48	1,705.72	70.76	25.105		
15,100.00	10,600.00	10,640.00	10,618.13	77.70	0.00	91.01	5,253.59	2,120.22	1,741.67	1,668.51	73.16	23.807		
15,200.00	10,600.00	10,640.00	10,618.13	78.98	0.00	91.01	5,253.59	2,120.22	1,712.00	1,636.48	75.52	22.671		
15,300.00	10,600.00	10,640.00	10,618.13	80.26	0.00	91.01	5,253.59	2,120.22	1,687.74	1,609.94	77.79	21.695		
15,400.00	10,600.00	10,640.00	10,618.13	81.55	0.00	91.01	5,253.59	2,120.22	1,669.13	1,589.18	79.95	20.877		
15,484.47	10,600.00	10,640.00	10,618.13	82.64	0.00	91.01	5,253.59	2,120.22	1,657.95	1,576.30	81.65	20.305 CC, ES, SF		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.00	16.89	5,302.10	1,610.18	5,541.21	5,540.69	0.52	N/A		
200.00	200.00	181.34	181.34	0.70	0.00	16.89	5,302.36	1,609.71	5,541.32	5,540.62	0.70	7,890.138		
300.00	300.00	285.09	285.09	0.99	0.00	16.88	5,302.76	1,608.83	5,541.45	5,540.46	0.99	5,611.386		
400.00	400.00	393.04	393.02	1.31	0.00	16.87	5,302.98	1,607.91	5,541.39	5,540.08	1.31	4,232.359		
500.00	500.00	494.51	494.49	1.65	0.00	16.86	5,303.17	1,607.05	5,541.33	5,539.68	1.65	3,365.950		
600.00	600.00	601.48	601.46	1.99	0.00	16.85	5,303.36	1,605.86	5,541.17	5,539.18	1.99	2,783.380		
700.00	700.00	706.46	706.43	2.34	0.00	16.83	5,303.44	1,604.56	5,540.89	5,538.55	2.34	2,368.390		
800.00	800.00	803.09	803.06	2.69	0.00	16.82	5,303.44	1,603.66	5,540.61	5,537.92	2.69	2,059.101		
900.00	900.00	902.69	902.65	3.04	0.00	16.81	5,303.45	1,602.66	5,540.34	5,537.29	3.04	1,820.235		
1,000.00	1,000.00	997.89	997.84	3.40	0.00	16.80	5,303.61	1,601.66	5,540.19	5,536.79	3.40	1,630.493		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	0.00	16.80	5,303.59	1,600.77	5,539.92	5,536.17	3.75	1,476.212		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	0.00	16.79	5,303.54	1,600.21	5,539.72	5,535.61	4.11	1,348.405		
1,300.00	1,300.00	1,312.65	1,312.60	4.46	0.00	16.79	5,303.30	1,599.70	5,539.37	5,534.90	4.46	1,240.800		
1,400.00	1,400.00	1,401.25	1,401.20	4.82	0.00	16.78	5,303.12	1,599.31	5,539.04	5,534.22	4.82	1,149.000		
1,500.00	1,500.00	1,489.85	1,489.80	5.18	0.00	16.78	5,303.13	1,598.92	5,538.93	5,533.75	5.18	1,069.822		
1,506.10	1,506.10	1,495.25	1,495.20	5.20	0.00	16.78	5,303.14	1,598.89	5,538.93	5,533.73	5.20	1,065.343		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	0.00	16.77	5,303.32	1,598.53	5,539.00	5,533.46	5.53	1,000.843		
1,700.00	1,700.00	1,670.87	1,670.81	5.89	0.00	16.77	5,303.52	1,598.40	5,539.19	5,533.29	5.89	940.215		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	0.00	16.77	5,303.87	1,598.40	5,539.50	5,533.25	6.25	886.507		
1,900.00	1,900.00	1,870.81	1,870.75	6.61	0.00	16.77	5,304.06	1,598.40	5,539.69	5,533.09	6.61	838.581		
2,000.00	2,000.00	2,002.16	2,002.10	6.96	0.00	16.77	5,304.16	1,598.34	5,539.76	5,532.80	6.96	795.538		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	0.00	-78.72	5,303.93	1,598.20	5,539.34	5,532.02	7.31	757.622		
2,200.00	2,199.96	2,196.79	2,196.74	7.65	0.00	-78.75	5,303.67	1,598.31	5,538.59	5,530.94	7.65	723.859		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	0.00	-78.80	5,303.66	1,598.43	5,537.77	5,529.77	7.99	692.758		
2,399.87	2,399.54	2,373.02	2,372.97	8.34	0.00	-78.86	5,303.81	1,598.68	5,536.82	5,528.48	8.34	664.036		
2,500.00	2,499.43	2,475.41	2,475.35	8.69	0.00	-78.93	5,304.00	1,599.09	5,535.76	5,527.07	8.69	637.337		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	0.00	-79.00	5,304.04	1,599.36	5,534.52	5,525.49	9.03	612.578		
2,700.00	2,698.94	2,664.89	2,664.83	9.39	0.00	-79.06	5,304.16	1,599.54	5,533.42	5,524.03	9.39	589.568		
2,800.00	2,798.70	2,737.01	2,736.94	9.74	0.00	-79.11	5,304.58	1,599.94	5,532.79	5,523.05	9.74	568.186		
2,895.67	2,894.14	2,810.72	2,810.65	10.08	0.00	-79.16	5,305.27	1,600.60	5,532.63	5,522.55	10.08	549.106		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	0.00	-79.16	5,305.31	1,600.64	5,532.63	5,522.54	10.09	548.274		
3,000.00	2,998.21	2,913.30	2,913.22	10.45	0.00	-79.22	5,306.38	1,601.80	5,532.69	5,522.24	10.45	529.656		
3,100.00	3,097.97	3,038.22	3,038.13	10.80	0.00	-79.30	5,307.46	1,603.05	5,532.50	5,521.70	10.80	512.171		
3,200.00	3,197.73	3,140.30	3,140.21	11.16	0.00	-79.37	5,308.14	1,603.72	5,532.03	5,520.87	11.16	495.746		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	0.00	-79.43	5,308.92	1,604.29	5,531.70	5,520.18	11.52	480.317		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	0.00	-79.51	5,309.72	1,604.58	5,531.16	5,519.29	11.88	465.763		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	0.00	-79.60	5,310.42	1,604.72	5,530.50	5,518.26	12.23	452.028		
3,600.00	3,596.75	3,571.60	3,571.49	12.60	0.00	-79.67	5,310.64	1,604.72	5,529.45	5,516.85	12.59	439.023		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	0.00	-79.74	5,310.90	1,604.79	5,528.48	5,515.52	12.96	426.726		
3,800.00	3,796.27	3,764.48	3,764.37	13.32	0.00	-79.80	5,311.12	1,605.16	5,527.56	5,514.24	13.32	415.080		
3,900.00	3,896.02	3,849.64	3,849.53	13.68	0.00	-79.86	5,311.28	1,606.17	5,526.83	5,513.15	13.68	404.047		
4,000.00	3,995.78	3,939.90	3,939.76	14.04	0.00	-79.90	5,311.41	1,608.21	5,526.35	5,512.31	14.04	393.589		
4,100.00	4,095.54	4,031.57	4,031.37	14.40	0.00	-79.93	5,311.30	1,611.61	5,526.02	5,511.61	14.40	383.655		
4,174.30	4,169.66	4,091.75	4,091.48	14.67	0.00	-79.95	5,311.17	1,614.46	5,525.90	5,511.23	14.67	376.596		
4,200.00	4,195.29	4,110.84	4,110.55	14.77	0.00	-79.95	5,311.14	1,615.48	5,525.92	5,511.15	14.77	374.219		
4,300.00	4,295.05	4,183.70	4,183.26	15.13	0.00	-79.96	5,311.08	1,619.97	5,526.27	5,511.14	15.13	365.265		
4,400.00	4,394.81	4,247.01	4,246.41	15.49	0.00	-79.96	5,311.19	1,624.45	5,527.15	5,511.66	15.49	356.772		
4,500.00	4,494.56	4,315.02	4,314.20	15.86	0.00	-79.95	5,311.58	1,629.89	5,528.65	5,512.80	15.85	348.707		
4,600.00	4,594.32	4,443.74	4,442.36	16.22	0.00	-79.93	5,312.31	1,641.81	5,530.53	5,514.31	16.22	340.956		
4,700.00	4,694.08	4,601.99	4,601.87	16.59	0.00	-79.88	5,311.01	1,657.14	5,530.99	5,514.40	16.59	333.448		
4,800.00	4,793.83	4,693.26	4,690.77	16.95	0.00	-79.86	5,310.21	1,665.30	5,531.33	5,514.38	16.95	326.290		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	4,893.59	4,778.85	4,776.06	17.32	0.00	-79.85	5,309.83	1,672.37	5,531.89	5,514.58	17.32	319.446		
5,000.00	4,993.35	4,874.99	4,871.86	17.68	0.00	-79.84	5,309.53	1,680.60	5,532.67	5,514.99	17.68	312.888		
5,100.00	5,093.10	4,990.07	4,986.51	18.05	0.00	-79.82	5,309.05	1,690.39	5,533.34	5,515.29	18.05	306.577		
5,200.00	5,192.86	5,091.58	5,087.66	18.42	0.00	-79.81	5,308.45	1,698.89	5,533.80	5,515.39	18.41	300.508		
5,300.00	5,292.62	5,207.11	5,202.87	18.78	0.00	-79.80	5,307.95	1,707.50	5,534.17	5,515.39	18.78	294.663		
5,400.00	5,392.37	5,324.58	5,320.10	19.15	0.00	-79.81	5,307.27	1,714.98	5,534.08	5,514.93	19.15	289.016		
5,435.11	5,427.40	5,352.76	5,348.22	19.28	0.00	-79.81	5,307.10	1,716.83	5,534.06	5,514.78	19.28	287.086		
5,500.00	5,492.13	5,400.00	5,395.34	19.52	0.00	-79.81	5,306.82	1,720.15	5,534.14	5,514.62	19.51	283.595		
5,600.00	5,591.89	5,458.94	5,454.09	19.88	0.00	-79.80	5,306.65	1,724.93	5,534.82	5,514.94	19.88	278.416		
5,700.00	5,691.64	5,543.61	5,538.39	20.25	0.00	-79.78	5,306.70	1,732.78	5,536.12	5,515.88	20.25	273.446		
5,800.00	5,791.40	5,639.24	5,633.59	20.62	0.00	-79.76	5,306.72	1,741.83	5,537.47	5,516.86	20.61	268.645		
5,900.00	5,891.16	5,759.60	5,753.43	20.98	0.00	-79.74	5,306.76	1,753.04	5,538.81	5,517.82	20.98	263.995		
6,000.00	5,990.91	5,857.08	5,850.52	21.35	0.00	-79.72	5,306.61	1,761.79	5,539.86	5,518.51	21.35	259.503		
6,100.00	6,090.67	5,966.21	5,959.23	21.72	0.00	-79.70	5,306.50	1,771.27	5,540.88	5,519.16	21.72	255.154		
6,200.00	6,190.42	6,067.02	6,059.70	22.09	0.00	-79.69	5,306.32	1,779.66	5,541.72	5,519.64	22.08	250.946		
6,300.00	6,290.18	6,132.84	6,125.26	22.45	0.00	-79.68	5,306.39	1,785.40	5,542.95	5,520.50	22.45	246.910		
6,400.00	6,389.94	6,226.66	6,218.69	22.82	0.00	-79.66	5,306.80	1,793.92	5,544.59	5,521.77	22.82	243.006		
6,500.00	6,489.69	6,344.07	6,335.68	23.19	0.00	-79.65	5,307.32	1,803.86	5,546.07	5,522.89	23.19	239.204		
6,600.00	6,589.45	6,435.36	6,426.60	23.56	0.00	-79.63	5,307.55	1,812.00	5,547.49	5,523.94	23.55	235.532		
6,700.00	6,689.21	6,542.88	6,533.67	23.93	0.00	-79.61	5,307.70	1,821.95	5,548.90	5,524.98	23.92	231.963		
6,800.00	6,788.96	6,652.78	6,643.12	24.29	0.00	-79.59	5,307.82	1,831.88	5,550.22	5,525.93	24.29	228.496		
6,900.00	6,888.72	6,771.79	6,761.69	24.66	0.00	-79.57	5,307.66	1,842.03	5,551.16	5,526.50	24.66	225.114		
7,000.00	6,988.48	6,850.81	6,840.44	25.03	0.00	-79.56	5,307.59	1,848.54	5,552.10	5,527.07	25.03	221.847		
7,100.00	7,088.23	6,925.34	6,914.65	25.40	0.00	-79.55	5,307.78	1,855.46	5,553.60	5,528.21	25.39	218.702		
7,200.00	7,187.99	7,033.10	7,021.96	25.77	0.00	-79.53	5,308.20	1,865.26	5,555.21	5,529.45	25.76	215.632		
7,300.00	7,287.75	7,150.21	7,138.63	26.14	0.00	-79.51	5,308.56	1,875.35	5,556.61	5,530.48	26.13	212.635		
7,400.00	7,387.50	7,240.65	7,228.75	26.50	0.00	-79.50	5,308.70	1,883.03	5,557.84	5,531.34	26.50	209.728		
7,500.00	7,487.26	7,350.26	7,337.87	26.87	0.00	-79.47	5,308.82	1,893.37	5,559.28	5,532.42	26.87	206.900		
7,600.00	7,587.02	7,460.78	7,447.93	27.24	0.00	-79.45	5,308.65	1,903.41	5,560.37	5,533.13	27.24	204.134		
7,700.00	7,686.77	7,569.10	7,555.84	27.61	0.00	-79.43	5,308.45	1,912.87	5,561.32	5,533.72	27.61	201.439		
7,800.00	7,786.53	7,634.09	7,620.55	27.98	0.00	-79.42	5,308.42	1,918.90	5,562.54	5,534.57	27.97	198.841		
7,900.00	7,886.29	7,764.47	7,750.26	28.35	0.00	-79.38	5,308.21	1,932.10	5,563.95	5,535.61	28.35	196.290		
8,000.00	7,986.04	7,893.45	7,878.68	28.72	0.00	-79.35	5,307.43	1,944.08	5,564.67	5,535.95	28.72	193.785		
8,100.00	8,085.80	8,039.81	8,024.47	29.09	0.00	-79.32	5,305.78	1,956.92	5,564.75	5,535.66	29.09	191.325		
8,157.88	8,143.54	8,076.18	8,060.69	29.30	0.00	-79.31	5,305.29	1,960.06	5,564.65	5,535.35	29.30	189.927		
8,200.00	8,185.56	8,104.22	8,088.62	29.46	0.00	-79.31	5,304.97	1,962.60	5,564.70	5,535.25	29.45	188.928		
8,300.00	8,285.31	8,193.47	8,177.47	29.83	0.00	-79.29	5,304.15	1,970.98	5,565.13	5,535.31	29.82	186.606		
8,400.00	8,385.07	8,331.42	8,314.84	30.20	0.00	-79.26	5,302.63	1,983.43	5,565.32	5,535.13	30.19	184.327		
8,500.00	8,484.83	8,444.23	8,427.25	30.56	0.00	-79.24	5,300.86	1,992.88	5,564.84	5,534.28	30.56	182.084		
8,600.00	8,584.58	8,527.87	8,510.55	30.93	0.00	-79.22	5,299.62	2,000.31	5,564.58	5,533.65	30.93	179.902		
8,700.00	8,684.34	8,657.76	8,639.89	31.30	0.00	-79.19	5,297.41	2,012.00	5,564.17	5,532.87	31.30	177.767		
8,800.00	8,784.10	8,785.97	8,767.60	31.67	0.00	-79.16	5,294.66	2,022.90	5,563.19	5,531.52	31.67	175.668		
8,900.00	8,883.85	8,884.50	8,865.79	32.04	0.00	-79.15	5,292.44	2,030.83	5,561.97	5,529.94	32.04	173.604		
9,000.00	8,983.61	8,941.44	8,922.54	32.41	0.00	-79.14	5,291.40	2,035.41	5,561.17	5,528.76	32.41	171.595		
9,046.87	9,030.36	8,967.82	8,948.82	32.58	0.00	-79.14	5,291.04	2,037.64	5,561.06	5,528.48	32.58	170.680		
9,100.00	9,083.37	9,010.83	8,991.67	32.78	0.00	-79.13	5,290.58	2,041.37	5,561.11	5,528.34	32.78	169.660		
9,200.00	9,183.12	9,124.25	9,104.68	33.15	0.00	-79.11	5,289.46	2,050.83	5,561.21	5,528.06	33.15	167.771		
9,300.00	9,282.88	9,229.46	9,209.59	33.52	0.00	-79.10	5,288.34	2,058.68	5,560.96	5,527.45	33.52	165.913		
9,400.00	9,382.64	9,326.46	9,306.36	33.89	0.00	-79.10	5,287.56	2,065.37	5,560.82	5,526.93	33.89	164.100		
9,428.07	9,410.64	9,355.03	9,334.86	33.99	0.00	-79.10	5,287.34	2,067.32	5,560.78	5,526.79	33.99	163.597		
9,500.00	9,482.43	9,479.13	9,458.69	34.26	0.00	-79.09	5,285.80	2,075.43	5,560.41	5,526.15	34.25	162.330		
9,600.00	9,582.36	9,607.37	9,586.67	34.62	0.00	-79.05	5,283.51	2,083.20	5,559.69	5,525.08	34.61	160.626		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
9,694.65	9,677.00	9,737.23	9,716.36	34.95	0.00	16.49	5,280.92	2,089.29	5,558.92	5,523.98	34.94	159.102		
9,700.00	9,682.35	9,744.63	9,723.75	34.97	0.00	16.50	5,280.76	2,089.59	5,558.87	5,523.91	34.96	159.019		
9,800.00	9,782.35	9,832.96	9,811.99	35.31	0.00	16.54	5,278.97	2,093.14	5,558.06	5,522.77	35.30	157.462		
9,900.00	9,882.35	9,957.73	9,936.66	35.65	0.00	16.59	5,276.40	2,097.51	5,557.08	5,521.45	35.64	155.943		
10,000.00	9,982.35	10,070.86	10,049.72	35.99	0.00	16.63	5,273.88	2,100.88	5,555.79	5,519.82	35.97	154.439		
10,044.69	10,027.04	10,126.50	10,105.31	36.14	0.00	16.65	5,272.52	2,102.56	5,555.14	5,519.01	36.12	153.776		
10,050.00	10,032.35	10,137.17	10,115.97	36.16	0.00	17.08	5,272.24	2,102.88	5,555.03	5,518.88	36.14	153.699		
10,100.00	10,082.26	10,225.24	10,203.96	36.32	0.00	17.23	5,269.57	2,105.39	5,551.44	5,515.14	36.31	152.908		
10,150.00	10,131.76	10,281.94	10,260.61	36.49	0.00	17.52	5,267.66	2,106.90	5,543.55	5,507.08	36.47	152.002		
10,200.00	10,180.46	10,333.30	10,311.93	36.65	0.00	17.95	5,265.88	2,108.23	5,531.54	5,494.91	36.63	151.011		
10,250.00	10,227.98	10,380.54	10,359.12	36.81	0.00	18.55	5,264.23	2,109.51	5,515.55	5,478.77	36.78	149.950		
10,300.00	10,273.98	10,429.00	10,407.52	36.95	0.00	19.34	5,262.48	2,110.94	5,495.69	5,458.77	36.93	148.834		
10,350.00	10,318.11	10,476.86	10,455.32	37.09	0.00	20.37	5,260.62	2,112.68	5,472.11	5,435.05	37.06	147.670		
10,400.00	10,360.01	10,520.04	10,498.42	37.21	0.00	21.66	5,258.82	2,114.51	5,444.99	5,407.82	37.18	146.467		
10,450.00	10,399.38	10,559.29	10,537.59	37.32	0.00	23.27	5,257.14	2,116.31	5,414.57	5,377.29	37.28	145.233		
10,500.00	10,435.92	10,577.02	10,555.29	37.42	0.00	25.21	5,256.36	2,117.16	5,381.12	5,343.74	37.38	143.963		
10,550.00	10,469.35	10,600.00	10,578.23	37.51	0.00	27.67	5,255.49	2,118.17	5,344.99	5,307.53	37.46	142.689		
10,600.00	10,499.41	10,600.00	10,578.23	37.59	0.00	30.62	5,255.49	2,118.17	5,306.42	5,268.89	37.53	141.393		
10,650.00	10,525.87	10,600.00	10,578.23	37.66	0.00	34.38	5,255.49	2,118.17	5,265.75	5,228.17	37.59	140.101		
10,700.00	10,548.54	10,618.64	10,596.85	37.74	0.00	39.48	5,254.98	2,118.84	5,223.13	5,185.51	37.62	138.825		
10,750.00	10,567.24	10,624.66	10,602.87	37.84	0.00	45.96	5,254.86	2,119.02	5,178.98	5,141.33	37.65	137.550		
10,800.00	10,581.83	10,629.37	10,607.57	37.97	0.00	54.40	5,254.78	2,119.15	5,133.56	5,095.89	37.67	136.285		
10,850.00	10,592.19	10,632.69	10,610.88	38.11	0.00	65.16	5,254.72	2,119.24	5,087.20	5,049.53	37.67	135.032		
10,900.00	10,598.26	10,634.55	10,612.75	38.25	0.00	78.14	5,254.70	2,119.29	5,040.25	5,002.58	37.67	133.792		
10,944.69	10,600.00	10,634.94	10,613.14	38.39	0.00	90.84	5,254.69	2,119.30	4,998.07	4,960.41	37.67	132.697		
11,000.00	10,600.00	10,634.67	10,612.87	38.56	0.00	90.83	5,254.69	2,119.29	4,945.89	4,908.23	37.66	131.347		
11,100.00	10,600.00	10,634.16	10,612.36	38.91	0.00	90.81	5,254.70	2,119.28	4,851.71	4,814.07	37.64	128.889		
11,200.00	10,600.00	10,633.63	10,611.83	39.31	0.00	90.79	5,254.71	2,119.27	4,757.78	4,720.14	37.64	126.406		
11,300.00	10,600.00	10,633.07	10,611.27	39.76	0.00	90.77	5,254.72	2,119.25	4,664.09	4,626.44	37.64	123.897		
11,400.00	10,600.00	10,632.50	10,610.70	40.25	0.00	90.75	5,254.73	2,119.24	4,570.67	4,533.01	37.66	121.361		
11,500.00	10,600.00	10,631.90	10,610.10	40.79	0.00	90.73	5,254.74	2,119.22	4,477.54	4,439.85	37.69	118.797		
11,600.00	10,600.00	10,631.28	10,609.48	41.37	0.00	90.71	5,254.74	2,119.21	4,384.70	4,346.97	37.73	116.202		
11,700.00	10,600.00	10,630.62	10,608.83	41.99	0.00	90.69	5,254.76	2,119.19	4,292.19	4,254.40	37.79	113.577		
11,800.00	10,600.00	10,629.94	10,608.15	42.65	0.00	90.66	5,254.77	2,119.17	4,200.03	4,162.16	37.87	110.920		
11,900.00	10,600.00	10,629.23	10,607.44	43.35	0.00	90.64	5,254.78	2,119.15	4,108.22	4,070.27	37.96	108.229		
12,000.00	10,600.00	10,628.49	10,606.69	44.09	0.00	90.61	5,254.79	2,119.13	4,016.81	3,978.74	38.07	105.505		
12,100.00	10,600.00	10,627.71	10,605.91	44.86	0.00	90.58	5,254.80	2,119.11	3,925.82	3,887.61	38.21	102.745		
12,200.00	10,600.00	10,626.89	10,605.10	45.67	0.00	90.56	5,254.82	2,119.08	3,835.28	3,796.91	38.37	99.950		
12,300.00	10,600.00	10,626.04	10,604.24	46.50	0.00	90.53	5,254.83	2,119.06	3,745.21	3,706.65	38.56	97.120		
12,400.00	10,600.00	10,625.13	10,603.34	47.37	0.00	90.50	5,254.85	2,119.03	3,655.67	3,616.88	38.79	94.254		
12,500.00	10,600.00	10,624.19	10,602.39	48.26	0.00	90.46	5,254.87	2,119.01	3,566.68	3,527.63	39.04	91.353		
12,600.00	10,600.00	10,623.19	10,601.39	49.18	0.00	90.43	5,254.89	2,118.98	3,478.28	3,438.94	39.34	88.418		
12,700.00	10,600.00	10,622.13	10,600.34	50.13	0.00	90.39	5,254.91	2,118.94	3,390.53	3,350.86	39.68	85.451		
12,800.00	10,600.00	10,621.02	10,599.22	51.10	0.00	90.35	5,254.93	2,118.91	3,303.48	3,263.41	40.06	82.455		
12,900.00	10,600.00	10,619.84	10,598.04	52.09	0.00	90.31	5,254.96	2,118.87	3,217.18	3,176.67	40.50	79.432		
13,000.00	10,600.00	10,618.58	10,596.79	53.10	0.00	90.27	5,254.99	2,118.83	3,131.69	3,090.69	41.00	76.388		
13,100.00	10,600.00	10,617.26	10,595.46	54.14	0.00	90.22	5,255.02	2,118.79	3,047.08	3,005.53	41.56	73.326		
13,200.00	10,600.00	10,615.84	10,594.05	55.19	0.00	90.17	5,255.05	2,118.74	2,963.44	2,921.26	42.18	70.254		
13,300.00	10,600.00	10,614.33	10,592.54	56.26	0.00	90.12	5,255.08	2,118.69	2,880.83	2,837.95	42.88	67.180		
13,400.00	10,600.00	10,612.72	10,590.93	57.35	0.00	90.06	5,255.12	2,118.64	2,799.36	2,755.69	43.66	64.111		
13,500.00	10,600.00	10,610.99	10,589.21	58.45	0.00	90.00	5,255.17	2,118.58	2,719.12	2,674.59	44.53	61.057		
13,600.00	10,600.00	10,609.14	10,587.36	59.57	0.00	89.94	5,255.22	2,118.51	2,640.23	2,594.74	45.50	58.030		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P3v1												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	10,607.15	10,585.36	60.71	0.00	89.87	5,255.27	2,118.44	2,562.82	2,516.25	46.56	55.040	
13,800.00	10,600.00	10,604.99	10,583.21	61.85	0.00	89.80	5,255.34	2,118.36	2,487.01	2,439.27	47.73	52.101	
13,900.00	10,600.00	10,602.66	10,580.88	63.01	0.00	89.71	5,255.41	2,118.27	2,412.96	2,363.94	49.02	49.224	
14,000.00	10,600.00	10,600.00	10,578.23	64.18	0.00	89.62	5,255.49	2,118.17	2,340.84	2,290.42	50.42	46.423	
14,100.00	10,600.00	10,597.36	10,575.59	65.37	0.00	89.53	5,255.58	2,118.07	2,270.83	2,218.88	51.95	43.711	
14,200.00	10,600.00	10,594.34	10,572.58	66.56	0.00	89.42	5,255.68	2,117.94	2,203.13	2,149.53	53.60	41.100	
14,300.00	10,600.00	10,591.02	10,569.26	67.76	0.00	89.31	5,255.80	2,117.80	2,137.96	2,082.58	55.38	38.604	
14,400.00	10,600.00	10,587.35	10,566.60	68.98	0.00	89.18	5,255.94	2,117.64	2,075.56	2,018.27	57.29	36.232	
14,500.00	10,600.00	10,583.28	10,561.53	70.20	0.00	89.04	5,256.10	2,117.46	2,016.18	1,956.87	59.31	33.995	
14,600.00	10,600.00	10,578.73	10,556.99	71.43	0.00	88.88	5,256.29	2,117.24	1,960.10	1,898.66	61.44	31.901	
14,700.00	10,600.00	10,574.38	10,552.65	72.67	0.00	88.73	5,256.48	2,117.03	1,907.60	1,843.93	63.68	29.957	
14,800.00	10,600.00	10,570.34	10,548.62	73.92	0.00	88.59	5,256.66	2,116.84	1,859.00	1,793.01	65.99	28.170	
14,900.00	10,600.00	10,566.33	10,544.62	75.17	0.00	88.45	5,256.83	2,116.64	1,814.60	1,746.23	68.37	26.542	
15,000.00	10,600.00	10,562.33	10,540.63	76.44	0.00	88.31	5,257.01	2,116.45	1,774.72	1,703.94	70.77	25.076	
15,100.00	10,600.00	10,558.36	10,536.67	77.70	0.00	88.17	5,257.18	2,116.27	1,739.67	1,666.49	73.18	23.772	
15,200.00	10,600.00	10,554.41	10,532.73	78.98	0.00	88.04	5,257.35	2,116.08	1,709.75	1,634.20	75.55	22.631	
15,300.00	10,600.00	10,550.49	10,528.81	80.26	0.00	87.90	5,257.52	2,115.90	1,685.23	1,607.39	77.84	21.651	
15,400.00	10,600.00	10,546.58	10,524.91	81.55	0.00	87.76	5,257.69	2,115.72	1,666.35	1,586.34	80.01	20.827	
15,484.47	10,600.00	10,543.29	10,521.63	82.64	0.00	87.65	5,257.83	2,115.56	1,654.94	1,573.21	81.72	20.251	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928		
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390		
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366		
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136		
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919		
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205		
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067		
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,601.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Plan 4		Offset Site Error:		0.00 ft	
Survey Program:													166-MWD+IGRF, 15156-		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)							
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419						
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368						
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613						
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737						
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921						
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543						
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484						
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942						
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458						
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947						
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408						
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825						
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212						
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582						
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937						
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338						
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775						
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117						
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500						
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876						
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249						
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621						
10,850.00	10,592.19	10,632.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940						
10,900.00	10,598.26	10,632.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324						
10,944.69	10,600.00	10,632.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776						
11,000.00	10,600.00	10,632.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099						
11,100.00	10,600.00	10,632.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873						
11,200.00	10,600.00	10,632.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642						
11,300.00	10,600.00	10,632.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407						
11,400.00	10,600.00	10,632.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167						
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972						
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722						
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466						
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205						
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938						
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665						
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385						
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100						
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808						
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510						
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206						
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896						
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581						
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260						
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935						
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606						
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275						
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943						
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612						
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283						
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960						
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Plan 4												Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF, 15156-												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	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341	
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052	
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781	
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534	
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314	
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128	
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979	
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873	
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.90	-10.90	0.50		16.89	5,302.03	1,610.31	5,541.18					
100.00	100.00	89.10	89.10	0.52		16.89	5,302.03	1,610.31	5,541.18	5,540.66	0.52	N/A		
200.00	200.00	189.10	189.10	0.70		16.89	5,302.03	1,610.31	5,541.18	5,540.47	0.70	7,892.253		
300.00	300.00	289.11	289.10	0.99		16.89	5,302.03	1,610.31	5,541.18	5,540.19	0.99	5,612.254		
400.00	400.00	389.11	389.10	1.31		16.89	5,302.03	1,610.31	5,541.18	5,539.87	1.31	4,232.846		
500.00	500.00	489.11	489.10	1.65		16.89	5,302.03	1,610.31	5,541.18	5,539.53	1.65	3,366.270		
552.92	552.92	542.03	542.01	1.83		16.89	5,302.08	1,610.12	5,541.16	5,539.34	1.83	3,031.730		
600.00	600.00	588.42	588.40	1.99		16.89	5,302.06	1,610.17	5,541.17	5,539.18	1.99	2,783.663		
676.18	676.18	665.24	665.22	2.26		16.89	5,302.04	1,610.21	5,541.16	5,538.90	2.26	2,456.211		
700.00	700.00	684.26	684.23	2.34		16.89	5,302.04	1,610.25	5,541.17	5,538.83	2.34	2,368.713		
751.37	751.37	740.50	740.47	2.52		16.89	5,302.03	1,610.19	5,541.14	5,538.62	2.52	2,199.282		
800.00	800.00	780.95	780.92	2.69		16.89	5,302.03	1,610.29	5,541.17	5,538.48	2.69	2,059.462		
900.00	900.00	889.14	889.10	3.04		16.89	5,302.03	1,610.31	5,541.18	5,538.13	3.04	1,820.629		
1,000.00	1,000.00	989.14	989.10	3.40		16.89	5,302.03	1,610.31	5,541.18	5,537.78	3.40	1,630.879		
1,100.00	1,100.00	1,089.15	1,089.10	3.75		16.89	5,302.03	1,610.31	5,541.18	5,537.42	3.75	1,476.623		
1,200.00	1,200.00	1,189.15	1,189.10	4.11		16.89	5,302.03	1,610.31	5,541.18	5,537.07	4.11	1,348.824		
1,234.35	1,234.35	1,223.50	1,223.45	4.23		16.89	5,302.03	1,610.20	5,541.14	5,536.91	4.23	1,309.837		
1,300.00	1,300.00	1,285.85	1,285.80	4.46		16.89	5,302.03	1,610.26	5,541.16	5,536.70	4.46	1,241.251		
1,400.00	1,400.00	1,389.15	1,389.10	4.82		16.89	5,302.03	1,610.31	5,541.18	5,536.36	4.82	1,149.489		
1,423.91	1,423.91	1,412.74	1,412.69	4.91		16.89	5,301.95	1,610.20	5,541.07	5,536.16	4.91	1,129.487		
1,500.00	1,500.00	1,480.67	1,480.61	5.18		16.89	5,301.99	1,610.26	5,541.13	5,535.95	5.18	1,070.289		
1,600.00	1,600.00	1,590.79	1,590.73	5.53		16.89	5,302.04	1,610.29	5,541.18	5,535.65	5.53	1,001.274		
1,621.12	1,621.12	1,613.98	1,613.93	5.61		16.89	5,302.02	1,610.34	5,541.17	5,535.56	5.61	987.814		
1,700.00	1,700.00	1,691.20	1,691.15	5.89		16.89	5,302.04	1,610.31	5,541.18	5,535.29	5.89	940.582		
1,800.00	1,800.00	1,803.81	1,803.76	6.25		16.89	5,302.00	1,610.31	5,541.17	5,534.92	6.25	886.805		
1,829.56	1,829.56	1,818.71	1,818.66	6.35		16.89	5,302.03	1,610.31	5,541.18	5,534.82	6.35	872.063		
1,900.00	1,900.00	1,891.63	1,891.58	6.61		16.89	5,302.03	1,610.31	5,541.18	5,534.57	6.61	838.827		
1,906.39	1,906.39	1,898.34	1,898.29	6.63		16.89	5,302.02	1,610.32	5,541.17	5,534.54	6.63	835.937		
2,000.00	2,000.00	1,989.15	1,989.10	6.96		16.89	5,302.03	1,610.31	5,541.18	5,534.21	6.96	795.762		
2,100.00	2,099.99	2,089.15	2,089.09	7.31		-78.59	5,302.03	1,610.31	5,541.00	5,533.69	7.31	757.869		
2,200.00	2,199.96	2,189.11	2,189.06	7.65		-78.63	5,302.03	1,610.31	5,540.49	5,532.84	7.65	724.126		
2,300.00	2,299.86	2,289.02	2,288.96	7.99		-78.68	5,302.03	1,610.31	5,539.63	5,531.63	7.99	693.007		
2,399.87	2,399.54	2,388.70	2,388.64	8.34		-78.75	5,302.03	1,610.31	5,538.43	5,530.09	8.34	664.244		
2,500.00	2,499.43	2,488.59	2,488.53	8.69		-78.82	5,302.03	1,610.31	5,537.07	5,528.39	8.69	637.503		
2,600.00	2,599.19	2,588.35	2,588.29	9.03		-78.89	5,302.03	1,610.31	5,535.72	5,526.69	9.03	612.725		
2,700.00	2,698.94	2,688.10	2,688.04	9.39		-78.96	5,302.03	1,610.31	5,534.38	5,524.99	9.39	589.684		
2,800.00	2,798.70	2,793.46	2,793.40	9.74		-79.04	5,302.12	1,610.40	5,533.16	5,523.42	9.74	568.230		
2,900.00	2,898.46	2,928.71	2,928.64	10.09		-79.13	5,302.01	1,610.30	5,531.85	5,521.76	10.09	548.212		
3,000.00	2,998.21	3,000.00	2,987.31	10.45		-79.18	5,302.03	1,610.31	5,530.40	5,519.96	10.45	529.430		
3,100.00	3,097.97	3,110.82	3,110.73	10.80		-79.26	5,302.04	1,610.32	5,529.16	5,518.36	10.80	511.882		
3,200.00	3,197.73	3,207.54	3,207.44	11.16		-79.33	5,302.04	1,610.32	5,527.84	5,516.68	11.16	495.391		
3,300.00	3,297.48	3,300.00	3,286.58	11.52		-79.39	5,302.03	1,610.31	5,526.50	5,514.99	11.52	479.875		
3,400.00	3,397.24	3,409.69	3,409.58	11.88		-79.48	5,301.98	1,610.30	5,525.22	5,513.35	11.87	465.287		
3,500.00	3,497.00	3,497.82	3,486.10	12.24		-79.53	5,302.03	1,610.31	5,523.94	5,511.71	12.23	451.505		
3,600.00	3,596.75	3,590.65	3,590.55	12.60		-79.60	5,302.03	1,610.31	5,522.68	5,510.08	12.59	438.499		
3,700.00	3,696.51	3,696.03	3,695.92	12.96		-79.68	5,302.01	1,610.31	5,521.41	5,508.45	12.96	426.196		
3,800.00	3,796.27	3,785.48	3,785.37	13.32		-79.74	5,302.03	1,610.31	5,520.17	5,506.86	13.32	414.537		
3,900.00	3,896.02	3,885.24	3,885.12	13.68		-79.81	5,302.03	1,610.31	5,518.93	5,505.25	13.68	403.483		
4,000.00	3,995.78	3,985.03	3,984.88	14.04		-79.88	5,302.03	1,610.31	5,517.70	5,503.66	14.04	392.985		
4,100.00	4,095.54	4,084.87	4,084.64	14.40		-79.96	5,302.03	1,610.31	5,516.48	5,502.07	14.40	383.003		
4,200.00	4,195.29	4,184.76	4,184.39	14.77		-80.03	5,302.03	1,610.31	5,515.26	5,500.50	14.77	373.502		
4,300.00	4,295.05	4,284.75	4,284.15	15.13		-80.10	5,302.03	1,610.31	5,514.06	5,498.93	15.13	364.448		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,400.00	4,394.81	4,384.83	4,383.91	15.49		-80.17	5,302.03	1,610.31	5,512.86	5,497.36	15.49	355.812		
4,500.00	4,494.56	4,500.00	4,483.66	15.86		-80.24	5,302.03	1,610.31	5,511.67	5,495.81	15.86	347.565		
4,600.00	4,594.32	4,625.00	4,622.78	16.22		-80.34	5,302.03	1,610.31	5,510.63	5,494.41	16.22	339.712		
4,700.00	4,694.08	4,720.00	4,717.42	16.59		-80.41	5,302.03	1,610.31	5,509.42	5,492.84	16.59	332.164		
4,800.00	4,793.83	4,814.01	4,811.10	16.95		-80.48	5,302.03	1,610.31	5,508.23	5,491.27	16.95	324.936		
4,900.00	4,893.59	4,900.00	4,882.69	17.32		-80.53	5,302.03	1,610.31	5,507.00	5,489.68	17.32	317.996		
5,000.00	4,993.35	5,003.01	4,999.40	17.68		-80.61	5,302.03	1,610.31	5,505.88	5,488.20	17.68	311.365		
5,100.00	5,093.10	5,097.01	5,093.08	18.05		-80.68	5,302.03	1,610.31	5,504.73	5,486.68	18.05	304.988		
5,200.00	5,192.86	5,187.87	5,181.96	18.42		-80.74	5,302.03	1,610.31	5,503.59	5,485.17	18.42	298.860		
5,300.00	5,292.62	5,303.88	5,281.72	18.78		-80.81	5,302.03	1,610.31	5,502.47	5,483.68	18.78	292.972		
5,400.00	5,392.37	5,393.92	5,381.47	19.15		-80.88	5,302.03	1,610.31	5,501.35	5,482.21	19.15	287.307		
5,500.00	5,492.13	5,486.18	5,481.23	19.52		-80.96	5,302.03	1,610.31	5,500.25	5,480.74	19.51	281.853		
5,600.00	5,591.89	5,586.36	5,580.99	19.88		-81.03	5,302.03	1,610.31	5,499.16	5,479.27	19.88	276.598		
5,700.00	5,691.64	5,686.54	5,680.74	20.25		-81.10	5,302.03	1,610.31	5,498.07	5,477.82	20.25	271.532		
5,800.00	5,791.40	5,786.70	5,780.50	20.62		-81.17	5,302.03	1,610.31	5,496.99	5,476.38	20.62	266.645		
5,900.00	5,891.16	5,886.84	5,880.26	20.98		-81.24	5,302.03	1,610.31	5,495.92	5,474.94	20.98	261.927		
6,000.00	5,990.91	5,986.96	5,980.01	21.35		-81.31	5,302.03	1,610.31	5,494.86	5,473.51	21.35	257.370		
6,100.00	6,090.67	6,087.04	6,079.77	21.72		-81.39	5,302.03	1,610.31	5,493.81	5,472.10	21.72	252.967		
6,200.00	6,190.42	6,187.16	6,179.52	22.09		-81.46	5,302.03	1,610.31	5,492.77	5,470.68	22.09	248.708		
6,300.00	6,290.18	6,287.30	6,279.28	22.45		-81.53	5,302.03	1,610.31	5,491.74	5,469.28	22.45	244.589		
6,400.00	6,389.94	6,400.00	6,379.04	22.82		-81.60	5,302.03	1,610.31	5,490.71	5,467.89	22.82	240.601		
6,500.00	6,489.69	6,500.00	6,478.79	23.19		-81.67	5,302.03	1,610.31	5,489.69	5,466.50	23.19	236.740		
6,600.00	6,589.45	6,600.00	6,578.55	23.56		-81.74	5,302.03	1,610.31	5,488.69	5,465.13	23.56	232.998		
6,700.00	6,689.21	6,700.00	6,678.31	23.93		-81.82	5,302.03	1,610.31	5,487.69	5,463.76	23.92	229.371		
6,800.00	6,788.96	6,807.00	6,796.79	24.29		-81.90	5,302.03	1,610.31	5,486.73	5,462.43	24.29	225.860		
6,900.00	6,888.72	6,901.00	6,890.42	24.66		-81.97	5,302.03	1,610.31	5,485.73	5,461.07	24.66	222.444		
7,000.00	6,988.48	7,003.43	6,977.58	25.03		-82.03	5,302.03	1,610.31	5,484.74	5,459.71	25.03	219.127		
7,100.00	7,088.23	7,091.31	7,077.33	25.40		-82.10	5,302.03	1,610.31	5,483.78	5,458.38	25.40	215.910		
7,200.00	7,187.99	7,188.78	7,177.09	25.77		-82.18	5,302.03	1,610.31	5,482.82	5,457.05	25.77	212.784		
7,300.00	7,287.75	7,288.92	7,276.85	26.14		-82.25	5,302.03	1,610.31	5,481.87	5,455.74	26.14	209.747		
7,400.00	7,387.50	7,389.09	7,376.60	26.50		-82.32	5,302.03	1,610.31	5,480.93	5,454.43	26.50	206.793		
7,500.00	7,487.26	7,489.24	7,476.36	26.87		-82.39	5,302.03	1,610.31	5,480.00	5,453.13	26.87	203.921		
7,600.00	7,587.02	7,589.36	7,576.12	27.24		-82.46	5,302.03	1,610.31	5,479.08	5,451.84	27.24	201.126		
7,700.00	7,686.77	7,689.54	7,675.87	27.61		-82.54	5,302.03	1,610.31	5,478.17	5,450.56	27.61	198.406		
7,800.00	7,786.53	7,789.78	7,775.63	27.98		-82.61	5,302.03	1,610.31	5,477.27	5,449.29	27.98	195.757		
7,900.00	7,886.29	7,889.96	7,875.39	28.35		-82.68	5,302.03	1,610.31	5,476.37	5,448.02	28.35	193.177		
8,000.00	7,986.04	7,993.08	7,978.06	28.72		-82.74	5,301.92	1,611.36	5,475.61	5,446.89	28.72	190.669		
8,100.00	8,085.80	8,093.14	8,077.76	29.09		-82.82	5,301.87	1,611.25	5,474.66	5,445.58	29.09	188.216		
8,200.00	8,185.56	8,226.54	8,210.68	29.46		-82.92	5,302.04	1,610.23	5,473.85	5,444.39	29.45	185.839		
8,300.00	8,285.31	8,335.82	8,319.49	29.83		-83.01	5,302.11	1,609.38	5,472.94	5,443.12	29.82	183.511		
8,400.00	8,385.07	8,404.38	8,387.75	30.20		-83.05	5,301.98	1,610.68	5,472.07	5,441.88	30.19	181.228		
8,500.00	8,484.83	8,494.21	8,477.26	30.56		-83.11	5,301.94	1,610.79	5,471.20	5,440.63	30.56	179.008		
8,600.00	8,584.58	8,612.10	8,594.70	30.93		-83.21	5,302.10	1,609.84	5,470.36	5,439.43	30.93	176.847		
8,700.00	8,684.34	8,702.53	8,673.44	31.30		-83.26	5,302.03	1,610.31	5,469.53	5,438.22	31.30	174.729		
8,800.00	8,784.10	8,787.33	8,769.19	31.67		-83.33	5,301.99	1,610.49	5,468.71	5,437.04	31.67	172.664		
8,900.00	8,883.85	8,879.77	8,861.28	32.04		-83.39	5,301.97	1,610.55	5,467.90	5,435.86	32.04	170.647		
9,000.00	8,983.61	8,991.76	8,972.71	32.41		-83.48	5,302.03	1,610.31	5,467.11	5,434.69	32.41	168.679		
9,100.00	9,083.37	9,091.87	9,072.47	32.78		-83.55	5,302.03	1,610.31	5,466.32	5,433.53	32.78	166.753		
9,200.00	9,183.12	9,191.93	9,172.22	33.15		-83.62	5,302.03	1,610.31	5,465.53	5,432.38	33.15	164.870		
9,300.00	9,282.88	9,291.93	9,271.98	33.52		-83.69	5,302.03	1,610.31	5,464.76	5,431.24	33.52	163.029		
9,400.00	9,382.64	9,391.91	9,371.74	33.89		-83.77	5,302.03	1,610.31	5,464.00	5,430.11	33.89	161.229		
9,428.07	9,410.64	9,428.80	9,408.57	33.99		-83.79	5,301.96	1,610.92	5,463.85	5,429.86	33.99	160.733		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													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		
9,500.00	9,482.43	9,491.92	9,471.53	34.26		-83.82	5,302.03	1,610.31	5,463.32	5,429.06	34.26	159.478		
9,600.00	9,582.36	9,592.05	9,571.46	34.62		-83.86	5,302.03	1,610.31	5,462.91	5,428.29	34.62	157.806		
9,694.65	9,677.00	9,686.85	9,666.10	34.95		11.61	5,302.03	1,610.31	5,462.78	5,427.84	34.95	156.315		
9,697.44	9,679.79	9,689.58	9,668.81	34.96		11.62	5,301.81	1,610.90	5,462.69	5,427.73	34.96	156.270		
9,700.00	9,682.35	9,691.31	9,670.54	34.97		11.62	5,301.81	1,610.89	5,462.69	5,427.72	34.97	156.231		
9,791.64	9,773.99	9,783.96	9,763.08	35.28		11.61	5,301.78	1,610.80	5,462.64	5,427.36	35.28	154.851		
9,800.00	9,782.35	9,788.80	9,767.91	35.31		11.61	5,301.78	1,610.80	5,462.64	5,427.33	35.31	154.726		
9,900.00	9,882.35	9,887.15	9,866.17	35.65		11.61	5,301.81	1,610.76	5,462.67	5,427.02	35.65	153.251		
9,980.50	9,962.85	9,972.99	9,951.93	35.92		11.61	5,301.78	1,610.70	5,462.62	5,426.70	35.92	152.082		
10,000.00	9,982.35	9,983.74	9,962.68	35.99		11.61	5,301.80	1,610.68	5,462.64	5,426.65	35.99	151.801		
10,044.69	10,027.04	10,037.25	10,016.14	36.14		11.61	5,302.03	1,610.31	5,462.78	5,426.65	36.14	151.167		
10,050.00	10,032.35	10,042.56	10,021.45	36.16		12.03	5,302.03	1,610.31	5,462.76	5,426.61	36.16	151.090		
10,100.00	10,082.26	10,080.64	10,059.51	36.32		12.09	5,301.79	1,610.63	5,460.02	5,423.69	36.32	150.310		
10,150.00	10,131.76	10,142.04	10,120.86	36.49		12.25	5,302.03	1,610.31	5,453.35	5,416.86	36.49	149.443		
10,200.00	10,180.46	10,176.12	10,154.93	36.65		12.51	5,301.77	1,610.64	5,442.15	5,405.50	36.65	148.478		
10,250.00	10,227.98	10,238.35	10,217.08	36.81		12.90	5,302.03	1,610.31	5,427.20	5,390.39	36.81	147.451		
10,300.00	10,273.98	10,267.65	10,246.38	36.95		13.41	5,301.67	1,610.62	5,407.81	5,370.86	36.95	146.345		
10,350.00	10,318.11	10,328.55	10,307.21	37.09		14.10	5,302.03	1,610.31	5,385.12	5,348.03	37.09	145.205		
10,400.00	10,360.01	10,357.70	10,336.34	37.21		14.94	5,301.65	1,610.60	5,358.19	5,320.98	37.21	144.002		
10,450.00	10,399.38	10,409.92	10,388.48	37.32		16.06	5,302.03	1,610.31	5,328.40	5,291.09	37.32	142.785		
10,500.00	10,435.92	10,445.23	10,423.77	37.42		17.45	5,301.60	1,610.66	5,294.74	5,257.33	37.41	141.521		
10,550.00	10,469.35	10,458.36	10,436.91	37.51		19.15	5,301.64	1,610.63	5,258.53	5,221.03	37.50	140.243		
10,600.00	10,499.41	10,510.08	10,488.51	37.59		21.55	5,302.03	1,610.31	5,219.82	5,182.26	37.56	138.968		
10,650.00	10,525.87	10,535.47	10,513.88	37.66		24.62	5,301.60	1,610.76	5,178.12	5,140.50	37.61	137.664		
10,700.00	10,548.54	10,543.29	10,521.69	37.74		28.61	5,301.62	1,610.74	5,134.71	5,097.05	37.65	136.363		
10,750.00	10,567.24	10,549.85	10,528.25	37.84		34.14	5,301.65	1,610.70	5,089.60	5,051.92	37.68	135.065		
10,800.00	10,581.83	10,592.66	10,570.93	37.97		42.85	5,302.03	1,610.31	5,043.22	5,005.52	37.70	133.789		
10,850.00	10,592.19	10,603.03	10,581.29	38.11		54.90	5,302.03	1,610.31	4,995.60	4,957.90	37.70	132.506		
10,900.00	10,598.26	10,609.09	10,587.36	38.25		71.76	5,302.03	1,610.31	4,947.30	4,909.60	37.70	131.233		
10,944.69	10,600.00	10,610.84	10,589.10	38.39		90.00	5,302.03	1,610.31	4,903.86	4,866.17	37.69	130.105		
11,000.00	10,600.00	10,610.84	10,589.10	38.56		90.00	5,302.03	1,610.31	4,850.08	4,812.40	37.68	128.715		
11,100.00	10,600.00	10,610.84	10,589.10	38.91		90.00	5,302.03	1,610.31	4,752.94	4,715.27	37.66	126.193		
11,200.00	10,600.00	10,610.84	10,589.10	39.31		90.00	5,302.03	1,610.31	4,655.91	4,618.26	37.65	123.658		
11,300.00	10,600.00	10,610.84	10,589.10	39.76		90.00	5,302.03	1,610.31	4,559.01	4,521.37	37.64	121.110		
11,400.00	10,600.00	10,610.84	10,589.10	40.25		90.00	5,302.03	1,610.31	4,462.25	4,424.61	37.64	118.547		
11,500.00	10,600.00	10,610.84	10,589.10	40.79		90.00	5,302.03	1,610.31	4,365.63	4,327.99	37.64	115.970		
11,600.00	10,600.00	10,610.84	10,589.10	41.37		90.00	5,302.03	1,610.31	4,269.17	4,231.52	37.65	113.377		
11,700.00	10,600.00	10,610.84	10,589.10	41.99		90.00	5,302.03	1,610.31	4,172.88	4,135.21	37.67	110.768		
11,800.00	10,600.00	10,610.84	10,589.10	42.65		90.00	5,302.03	1,610.31	4,076.77	4,039.07	37.70	108.142		
11,900.00	10,600.00	10,610.84	10,589.10	43.35		90.00	5,302.03	1,610.31	3,980.85	3,943.11	37.73	105.498		
12,000.00	10,600.00	10,610.84	10,589.10	44.09		90.00	5,302.03	1,610.31	3,885.13	3,847.35	37.78	102.836		
12,100.00	10,600.00	10,610.84	10,589.10	44.86		90.00	5,302.03	1,610.31	3,789.63	3,751.79	37.84	100.154		
12,200.00	10,600.00	10,610.84	10,589.10	45.67		90.00	5,302.03	1,610.31	3,694.37	3,656.46	37.91	97.452		
12,300.00	10,600.00	10,610.84	10,589.10	46.50		90.00	5,302.03	1,610.31	3,599.37	3,561.38	38.00	94.729		
12,400.00	10,600.00	10,610.84	10,589.10	47.37		90.00	5,302.03	1,610.31	3,504.65	3,466.55	38.10	91.984		
12,500.00	10,600.00	10,610.84	10,589.10	48.26		90.00	5,302.03	1,610.31	3,410.23	3,372.01	38.22	89.216		
12,600.00	10,600.00	10,610.84	10,589.10	49.18		90.00	5,302.03	1,610.31	3,316.14	3,277.77	38.37	86.424		
12,700.00	10,600.00	10,610.84	10,589.10	50.13		90.00	5,302.03	1,610.31	3,222.40	3,183.86	38.54	83.608		
12,800.00	10,600.00	10,610.84	10,589.10	51.10		90.00	5,302.03	1,610.31	3,129.05	3,090.31	38.74	80.767		
12,900.00	10,600.00	10,610.84	10,589.10	52.09		90.00	5,302.03	1,610.31	3,036.12	2,997.15	38.97	77.901		
13,000.00	10,600.00	10,610.84	10,589.10	53.10		90.00	5,302.03	1,610.31	2,943.66	2,904.42	39.24	75.011		
13,100.00	10,600.00	10,610.84	10,589.10	54.14		90.00	5,302.03	1,610.31	2,851.70	2,812.15	39.55	72.097		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													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)				
13,200.00	10,600.00	10,610.84	10,589.10	55.19		90.00	5,302.03	1,610.31	2,760.31	2,720.40	39.91	69.159			
13,300.00	10,600.00	10,610.84	10,589.10	56.26		90.00	5,302.03	1,610.31	2,669.53	2,629.21	40.32	66.201			
13,400.00	10,600.00	10,610.84	10,589.10	57.35		90.00	5,302.03	1,610.31	2,579.44	2,538.64	40.80	63.224			
13,500.00	10,600.00	10,610.84	10,589.10	58.45		90.00	5,302.03	1,610.31	2,490.10	2,448.75	41.34	60.232			
13,600.00	10,600.00	10,610.84	10,589.10	59.57		90.00	5,302.03	1,610.31	2,401.60	2,359.63	41.96	57.230			
13,700.00	10,600.00	10,610.84	10,589.10	60.71		90.00	5,302.03	1,610.31	2,314.04	2,271.36	42.68	54.224			
13,800.00	10,600.00	10,610.84	10,589.10	61.85		90.00	5,302.03	1,610.31	2,227.52	2,184.03	43.49	51.222			
13,900.00	10,600.00	10,610.84	10,589.10	63.01		90.00	5,302.03	1,610.31	2,142.18	2,097.77	44.41	48.234			
14,000.00	10,600.00	10,610.84	10,589.10	64.18		90.00	5,302.03	1,610.31	2,058.16	2,012.70	45.46	45.270			
14,100.00	10,600.00	10,610.84	10,589.10	65.37		90.00	5,302.03	1,610.31	1,975.63	1,928.98	46.66	42.344			
14,200.00	10,600.00	10,610.84	10,589.10	66.56		90.00	5,302.03	1,610.31	1,894.79	1,846.78	48.01	39.470			
14,300.00	10,600.00	10,610.84	10,589.10	67.76		90.00	5,302.03	1,610.31	1,815.85	1,766.32	49.53	36.664			
14,400.00	10,600.00	10,610.84	10,589.10	68.98		90.00	5,302.03	1,610.31	1,739.08	1,687.85	51.23	33.943			
14,500.00	10,600.00	10,610.84	10,589.10	70.20		90.00	5,302.03	1,610.31	1,664.78	1,611.64	53.14	31.327			
14,600.00	10,600.00	10,610.84	10,589.10	71.43		90.00	5,302.03	1,610.31	1,593.29	1,538.03	55.26	28.833			
14,700.00	10,600.00	10,610.84	10,589.10	72.67		90.00	5,302.03	1,610.31	1,525.02	1,467.42	57.59	26.479			
14,800.00	10,600.00	10,610.84	10,589.10	73.92		90.00	5,302.03	1,610.31	1,460.40	1,400.26	60.14	24.283			
14,900.00	10,600.00	10,610.84	10,589.10	75.17		90.00	5,302.03	1,610.31	1,399.95	1,337.06	62.89	22.260			
15,000.00	10,600.00	10,610.84	10,589.10	76.44		90.00	5,302.03	1,610.31	1,344.23	1,278.41	65.81	20.425			
15,100.00	10,600.00	10,610.84	10,589.10	77.70		90.00	5,302.03	1,610.31	1,293.85	1,224.98	68.87	18.788			
15,200.00	10,600.00	10,610.84	10,589.10	78.98		90.00	5,302.03	1,610.31	1,249.45	1,177.46	71.99	17.356			
15,300.00	10,600.00	10,610.84	10,589.10	80.26		90.00	5,302.03	1,610.31	1,211.70	1,136.60	75.10	16.135			
15,400.00	10,600.00	10,610.84	10,589.10	81.55		90.00	5,302.03	1,610.31	1,181.23	1,103.15	78.09	15.127			
15,484.47	10,600.00	10,610.84	10,589.10	82.64		90.00	5,302.03	1,610.31	1,161.60	1,081.16	80.44	14.441	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Actuals		Offset Site Error:		0.00 ft	
Survey Program:													260-GYRO-NS, 10523-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						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)							
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86									
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806						
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828						
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095						
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852						
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319						
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949						
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982						
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886						
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875						
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869						
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642						
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616						
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301						
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657						
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003						
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910						
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252						
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446						
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150						
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643						
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564						
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855						
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490						
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930						
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118						
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655						
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951						
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763						
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629						
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669						
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742						
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120						
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143						
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779						
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127						
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186						
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521						
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395						
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915						
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529						
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048						
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493						
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392						
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968						
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311						
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631						
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291						
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105						
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885						
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132						
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393		
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018		
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598		
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137		
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644		
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159		
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654		
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118		
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564		
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981		
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383		
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771		
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149		
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519		
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883		
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242		
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601		
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030		
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324		
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045		
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763		
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.89	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477		
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187		
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893		
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595		
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292		
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984		
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672		
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354		
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031		
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703		
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369		
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030		
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685		
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335		
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980		
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620		
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255		
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886		
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515		
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142		
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768		
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400		
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032		
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671		
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320		
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983		
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Actuals												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 2		Offset Site Error: 0.00 ft	
Survey Program: 260-GYRO-NS, 10482-													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	16.40	5,302.03	1,560.31	5,526.86							
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806				
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828				
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095				
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852				
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319				
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949				
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982				
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886				
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875				
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869				
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642				
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616				
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301				
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657				
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003				
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910				
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252				
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446				
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150				
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643				
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564				
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855				
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490				
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930				
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118				
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655				
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951				
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763				
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629				
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669				
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742				
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120				
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143				
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779				
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127				
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186				
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521				
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395				
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915				
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529				
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048				
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493				
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392				
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968				
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311				
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631				
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291				
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105				
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885				
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132				
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.81	10,365.44	36.32	35.97	15.38	5,136.59	1,881.12	5,369.03	5,296.82	72.21	74.355		
10,150.00	10,131.76	10,420.00	10,405.55	36.49	36.11	15.67	5,134.13	1,881.94	5,359.63	5,287.11	72.52	73.907		
10,200.00	10,180.46	10,457.25	10,442.73	36.65	36.24	16.09	5,131.91	1,882.72	5,346.23	5,273.41	72.81	73.423		
10,250.00	10,227.98	10,486.44	10,471.86	36.81	36.34	16.65	5,130.26	1,883.33	5,328.98	5,255.90	73.08	72.923		
10,300.00	10,273.98	10,531.28	10,516.62	36.95	36.49	17.40	5,127.79	1,884.28	5,307.95	5,234.57	73.38	72.339		
10,350.00	10,318.11	10,574.02	10,559.29	37.09	36.64	18.37	5,125.44	1,885.18	5,283.23	5,209.58	73.66	71.728		
10,400.00	10,360.01	10,575.00	10,560.27	37.21	36.65	19.48	5,125.38	1,885.20	5,255.16	5,181.37	73.80	71.210		
10,450.00	10,399.38	10,575.00	10,560.27	37.32	36.65	20.84	5,125.38	1,885.20	5,224.09	5,150.17	73.92	70.672		
10,500.00	10,435.92	10,575.00	10,560.27	37.42	36.65	22.55	5,125.38	1,885.20	5,190.20	5,116.18	74.02	70.114		
10,550.00	10,469.35	10,590.46	10,575.71	37.51	36.70	24.78	5,124.75	1,885.44	5,153.48	5,079.32	74.16	69.489		
10,600.00	10,499.41	10,604.68	10,589.93	37.59	36.75	27.63	5,124.56	1,885.51	5,114.60	5,040.31	74.28	68.855		
10,650.00	10,525.87	10,604.68	10,589.93	37.66	36.75	31.21	5,124.56	1,885.51	5,073.40	4,999.06	74.34	68.247		
10,700.00	10,548.54	10,604.68	10,589.93	37.74	36.75	35.89	5,124.56	1,885.51	5,030.35	4,955.97	74.38	67.629		
10,750.00	10,567.24	10,604.68	10,589.93	37.84	36.75	42.12	5,124.56	1,885.51	4,985.72	4,911.31	74.41	67.003		
10,800.00	10,581.83	10,604.68	10,589.93	37.97	36.75	50.50	5,124.56	1,885.51	4,939.81	4,865.38	74.43	66.371		
10,850.00	10,592.19	10,604.68	10,589.93	38.11	36.75	61.65	5,124.56	1,885.51	4,892.95	4,818.51	74.43	65.736		
10,900.00	10,598.26	10,604.68	10,589.93	38.25	36.75	75.75	5,124.56	1,885.51	4,845.46	4,771.03	74.43	65.099		
10,944.69	10,600.00	10,604.68	10,589.93	38.39	36.75	90.03	5,124.56	1,885.51	4,802.77	4,728.34	74.42	64.532		
11,000.00	10,600.00	10,604.68	10,589.93	38.56	36.75	90.03	5,124.56	1,885.51	4,749.93	4,675.52	74.41	63.832		
11,100.00	10,600.00	10,604.68	10,589.93	38.91	36.75	90.03	5,124.56	1,885.51	4,654.55	4,580.15	74.40	62.563		
11,200.00	10,600.00	10,604.68	10,589.93	39.31	36.75	90.03	5,124.56	1,885.51	4,559.37	4,484.98	74.39	61.290		
11,300.00	10,600.00	10,604.68	10,589.93	39.76	36.75	90.03	5,124.56	1,885.51	4,464.40	4,390.01	74.39	60.014		
11,400.00	10,600.00	10,604.68	10,589.93	40.25	36.75	90.03	5,124.56	1,885.51	4,369.65	4,295.25	74.40	58.734		
11,500.00	10,600.00	10,604.68	10,589.93	40.79	36.75	90.03	5,124.56	1,885.51	4,275.14	4,200.72	74.42	57.449		
11,600.00	10,600.00	10,604.68	10,589.93	41.37	36.75	90.03	5,124.56	1,885.51	4,180.88	4,106.44	74.44	56.161		
11,700.00	10,600.00	10,604.68	10,589.93	41.99	36.75	90.03	5,124.56	1,885.51	4,086.90	4,012.42	74.49	54.868		
11,800.00	10,600.00	10,604.68	10,589.93	42.65	36.75	90.03	5,124.56	1,885.51	3,993.21	3,918.67	74.54	53.570		
11,900.00	10,600.00	10,604.68	10,589.93	43.35	36.75	90.03	5,124.56	1,885.51	3,899.84	3,825.23	74.61	52.268		
12,000.00	10,600.00	10,604.68	10,589.93	44.09	36.75	90.03	5,124.56	1,885.51	3,806.80	3,732.10	74.70	50.961		
12,100.00	10,600.00	10,604.68	10,589.93	44.86	36.75	90.03	5,124.56	1,885.51	3,714.13	3,639.32	74.81	49.648		
12,200.00	10,600.00	10,604.68	10,589.93	45.67	36.75	90.03	5,124.56	1,885.51	3,621.84	3,546.90	74.94	48.330		
12,300.00	10,600.00	10,604.68	10,589.93	46.50	36.75	90.03	5,124.56	1,885.51	3,529.97	3,454.88	75.09	47.007		
12,400.00	10,600.00	10,604.68	10,589.93	47.37	36.75	90.03	5,124.56	1,885.51	3,438.56	3,363.28	75.28	45.679		
12,500.00	10,600.00	10,604.68	10,589.93	48.26	36.75	90.03	5,124.56	1,885.51	3,347.64	3,272.15	75.49	44.345		
12,600.00	10,600.00	10,604.68	10,589.93	49.18	36.75	90.03	5,124.56	1,885.51	3,257.25	3,181.51	75.74	43.006		
12,700.00	10,600.00	10,604.68	10,589.93	50.13	36.75	90.03	5,124.56	1,885.51	3,167.44	3,091.41	76.03	41.661		
12,800.00	10,600.00	10,604.68	10,589.93	51.10	36.75	90.03	5,124.56	1,885.51	3,078.25	3,001.89	76.36	40.312		
12,900.00	10,600.00	10,604.68	10,589.93	52.09	36.75	90.03	5,124.56	1,885.51	2,989.75	2,913.01	76.74	38.959		
13,000.00	10,600.00	10,604.68	10,589.93	53.10	36.75	90.03	5,124.56	1,885.51	2,902.00	2,824.82	77.18	37.601		
13,100.00	10,600.00	10,604.68	10,589.93	54.14	36.75	90.03	5,124.56	1,885.51	2,815.07	2,737.39	77.68	36.241		
13,200.00	10,600.00	10,604.68	10,589.93	55.19	36.75	90.03	5,124.56	1,885.51	2,729.03	2,650.79	78.24	34.880		
13,300.00	10,600.00	10,604.68	10,589.93	56.26	36.75	90.03	5,124.56	1,885.51	2,643.97	2,565.09	78.88	33.518		
13,400.00	10,600.00	10,604.68	10,589.93	57.35	36.75	90.03	5,124.56	1,885.51	2,559.99	2,480.39	79.61	32.158		
13,500.00	10,600.00	10,604.68	10,589.93	58.45	36.75	90.03	5,124.56	1,885.51	2,477.21	2,396.78	80.42	30.802		
13,600.00	10,600.00	10,604.68	10,589.93	59.57	36.75	90.03	5,124.56	1,885.51	2,395.73	2,314.39	81.34	29.453		
13,700.00	10,600.00	10,604.68	10,589.93	60.71	36.75	90.03	5,124.56	1,885.51	2,315.71	2,233.34	82.37	28.114		
13,800.00	10,600.00	10,604.68	10,589.93	61.85	36.75	90.03	5,124.56	1,885.51	2,237.30	2,153.78	83.52	26.788		
13,900.00	10,600.00	10,604.68	10,589.93	63.01	36.75	90.03	5,124.56	1,885.51	2,160.67	2,075.88	84.79	25.481		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 2												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10482-												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	
14,000.00	10,600.00	10,604.68	10,589.93	64.18	36.75	90.03	5,124.56	1,885.51	2,086.02	1,999.81	86.21	24.198	
14,100.00	10,600.00	10,604.68	10,589.93	65.37	36.75	90.03	5,124.56	1,885.51	2,013.57	1,925.81	87.77	22.942	
14,200.00	10,600.00	11,139.37	11,029.51	66.56	44.79	110.31	5,253.81	1,661.77	1,938.64	1,846.68	91.95	21.083	
14,300.00	10,600.00	11,150.00	11,034.75	67.76	45.48	110.66	5,258.66	1,653.90	1,864.03	1,770.25	93.78	19.876	
14,400.00	10,600.00	11,150.00	11,034.75	68.98	45.48	110.66	5,258.66	1,653.90	1,791.77	1,696.53	95.24	18.814	
14,500.00	10,600.00	11,176.22	11,047.39	70.20	47.47	111.51	5,271.47	1,634.84	1,721.55	1,623.35	98.20	17.530	
14,600.00	10,600.00	11,200.00	11,058.49	71.43	49.32	112.27	5,284.11	1,618.04	1,654.24	1,553.14	101.10	16.362	
14,700.00	10,600.00	11,200.00	11,058.49	72.67	49.32	112.27	5,284.11	1,618.04	1,589.72	1,486.90	102.81	15.462	
14,800.00	10,600.00	11,224.84	11,069.69	73.92	51.48	113.05	5,298.31	1,601.01	1,528.37	1,422.31	106.06	14.411	
14,900.00	10,600.00	11,250.00	11,080.58	75.17	53.71	113.83	5,313.71	1,584.36	1,470.60	1,361.29	109.31	13.453	
15,000.00	10,600.00	11,266.28	11,087.38	76.44	55.26	114.32	5,324.19	1,573.93	1,416.55	1,304.41	112.13	12.633	
15,100.00	10,600.00	11,300.00	11,100.81	77.70	58.54	115.31	5,347.15	1,553.21	1,366.70	1,250.69	116.01	11.781	
15,200.00	10,600.00	11,317.21	11,107.31	78.98	60.32	115.80	5,359.49	1,543.12	1,321.02	1,202.23	118.79	11.121	
15,300.00	10,600.00	11,350.00	11,118.97	80.26	63.75	116.70	5,384.11	1,524.88	1,280.01	1,157.52	122.49	10.450	
15,400.00	10,600.00	11,379.86	11,128.75	81.55	67.04	117.46	5,407.71	1,509.43	1,243.74	1,117.78	125.96	9.874	
15,484.47	10,600.00	11,400.00	11,134.88	82.64	69.29	117.95	5,424.22	1,499.67	1,216.98	1,088.79	128.20	9.493 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3		Offset Site Error:		0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													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)						
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936					
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136					
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798					
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758					
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393					
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018					
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598					
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137					
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644					
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159					
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654					
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118					
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564					
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981					
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383					
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771					
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149					
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519					
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883					
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242					
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601					
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030					
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324					
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045					
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763					
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477					
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187					
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893					
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595					
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292					
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984					
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672					
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354					
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031					
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703					
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369					
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030					
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685					
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335					
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980					
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620					
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255					
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886					
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515					
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142					
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768					
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400					
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032					
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671					
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320					
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983					
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664					

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11343-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,350.00	11,097.22	80.26	38.06	115.71	5,439.53	1,526.05	1,295.13	1,192.40	102.73	12.607	
15,400.00	10,600.00	11,379.84	11,106.44	81.55	38.27	116.46	5,462.82	1,509.85	1,254.76	1,150.15	104.61	11.995	
15,484.47	10,600.00	11,404.00	11,113.62	82.64	38.45	117.05	5,482.38	1,497.61	1,224.49	1,118.31	106.18	11.532 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 4		Offset Site Error:		0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													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)						
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936					
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136					
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798					
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758					
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393					
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018					
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598					
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137					
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644					
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159					
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654					
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118					
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564					
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981					
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383					
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771					
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149					
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519					
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883					
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242					
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601					
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030					
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324					
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045					
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763					
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477					
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187					
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893					
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595					
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292					
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984					
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672					
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354					
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031					
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703					
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369					
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030					
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685					
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335					
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980					
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620					
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255					
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886					
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515					
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142					
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768					
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400					
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032					
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671					
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320					
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983					
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664					

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 4												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 12505-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393		
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018		
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598		
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137		
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644		
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159		
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654		
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118		
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564		
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981		
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383		
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771		
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149		
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519		
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883		
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242		
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601		
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030		
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324		
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045		
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763		
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.89	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477		
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187		
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893		
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595		
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292		
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984		
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672		
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354		
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031		
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703		
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369		
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030		
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685		
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335		
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980		
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620		
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255		
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886		
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515		
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142		
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768		
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400		
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032		
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671		
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320		
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983		
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 5												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 13733-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6													Offset Site Error: 0.00 ft	
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													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)			
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393		
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018		
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598		
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137		
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644		
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159		
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654		
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118		
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564		
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981		
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383		
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771		
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149		
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519		
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883		
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242		
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601		
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030		
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324		
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045		
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763		
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477		
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187		
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893		
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595		
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292		
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984		
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672		
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354		
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031		
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703		
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369		
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030		
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685		
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335		
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980		
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620		
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255		
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886		
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515		
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142		
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768		
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400		
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032		
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671		
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320		
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983		
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 14678-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11533-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11533-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - PTL		Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11533-															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)					
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936				
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136				
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798				
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758				
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393				
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018				
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598				
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137				
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644				
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159				
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654				
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118				
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564				
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981				
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383				
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771				
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149				
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519				
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883				
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242				
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601				
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030				
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324				
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045				
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763				
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477				
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187				
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893				
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595				
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292				
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984				
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672				
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354				
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031				
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703				
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369				
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030				
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685				
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335				
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980				
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620				
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255				
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886				
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515				
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142				
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768				
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400				
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032				
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671				
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320				
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983				
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - PTL												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11533-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.90	-10.90	0.50		16.40	5,302.03	1,560.31	5,526.85					
100.00	100.00	89.10	89.10	0.52		16.40	5,302.03	1,560.31	5,526.85	5,526.34	0.52	N/A		
200.00	200.00	189.10	189.10	0.70		16.40	5,302.03	1,560.31	5,526.85	5,526.15	0.70	7,871.852		
300.00	300.00	289.10	289.10	0.99		16.40	5,302.03	1,560.31	5,526.85	5,525.87	0.99	5,597.747		
400.00	400.00	395.37	395.37	1.31		16.40	5,302.01	1,560.33	5,526.85	5,525.54	1.31	4,221.893		
401.23	401.23	396.82	396.82	1.31		16.40	5,302.01	1,560.33	5,526.85	5,525.53	1.31	4,208.823		
500.00	500.00	490.13	490.13	1.65		16.40	5,302.05	1,560.30	5,526.86	5,525.22	1.65	3,357.575		
600.00	600.00	589.10	589.10	1.99		16.40	5,302.03	1,560.31	5,526.85	5,524.86	1.99	2,776.472		
700.00	700.00	689.12	689.10	2.34		16.40	5,302.03	1,560.31	5,526.85	5,524.51	2.34	2,362.594		
800.00	800.00	789.13	789.10	2.69		16.40	5,302.03	1,560.31	5,526.85	5,524.16	2.69	2,054.139		
900.00	900.00	889.15	889.10	3.04		16.40	5,302.03	1,560.31	5,526.85	5,523.81	3.04	1,815.923		
1,000.00	1,000.00	989.23	989.18	3.40		16.40	5,302.11	1,560.03	5,526.85	5,523.46	3.40	1,626.664		
1,099.83	1,099.83	1,089.00	1,088.93	3.75		16.40	5,302.06	1,560.19	5,526.85	5,523.10	3.75	1,473.036		
1,100.00	1,100.00	1,089.16	1,089.09	3.75		16.40	5,302.06	1,560.19	5,526.85	5,523.09	3.75	1,472.804		
1,193.83	1,193.83	1,183.00	1,182.93	4.09		16.40	5,301.98	1,560.19	5,526.78	5,522.69	4.09	1,352.546		
1,200.00	1,200.00	1,187.44	1,187.37	4.11		16.40	5,301.99	1,560.20	5,526.78	5,522.67	4.11	1,345.319		
1,300.00	1,300.00	1,287.94	1,287.87	4.46		16.40	5,301.99	1,560.28	5,526.81	5,522.34	4.46	1,238.036		
1,400.00	1,400.00	1,389.17	1,389.10	4.82		16.40	5,302.03	1,560.31	5,526.85	5,522.03	4.82	1,146.517		
1,500.00	1,500.00	1,489.18	1,489.10	5.18		16.40	5,302.03	1,560.31	5,526.85	5,521.68	5.18	1,067.531		
1,600.00	1,600.00	1,589.18	1,589.10	5.53		16.40	5,302.03	1,560.31	5,526.85	5,521.32	5.53	998.685		
1,700.00	1,700.00	1,689.18	1,689.10	5.89		16.40	5,302.03	1,560.31	5,526.85	5,520.96	5.89	938.150		
1,800.00	1,800.00	1,789.18	1,789.10	6.25		16.40	5,302.03	1,560.31	5,526.85	5,520.60	6.25	884.512		
1,900.00	1,900.00	1,889.18	1,889.10	6.61		16.40	5,302.03	1,560.31	5,526.85	5,520.25	6.61	836.659		
2,000.00	2,000.00	1,989.18	1,989.10	6.96		16.40	5,302.03	1,560.31	5,526.85	5,519.89	6.96	793.705		
2,100.00	2,099.99	2,098.47	2,098.39	7.31		-79.09	5,302.09	1,560.36	5,526.76	5,519.45	7.31	755.922		
2,200.00	2,199.96	2,190.59	2,190.51	7.65		-79.12	5,302.03	1,560.41	5,526.22	5,518.56	7.65	722.260		
2,300.00	2,299.86	2,291.18	2,291.09	7.99		-79.17	5,302.04	1,560.35	5,525.39	5,517.40	7.99	691.226		
2,399.87	2,399.54	2,388.73	2,388.64	8.34		-79.25	5,302.03	1,560.31	5,524.23	5,515.89	8.34	662.540		
2,500.00	2,499.43	2,495.92	2,495.83	8.69		-79.32	5,302.05	1,560.35	5,522.96	5,514.27	8.69	635.878		
2,600.00	2,599.19	2,586.48	2,586.39	9.03		-79.39	5,302.01	1,560.35	5,521.63	5,512.59	9.03	611.162		
2,700.00	2,698.94	2,696.02	2,695.93	9.39		-79.47	5,302.03	1,560.33	5,520.36	5,510.98	9.39	588.190		
2,800.00	2,798.70	2,804.11	2,787.80	9.74		-79.53	5,302.03	1,560.31	5,519.08	5,509.34	9.74	566.779		
2,900.00	2,898.46	2,900.87	2,900.78	10.09		-79.61	5,302.01	1,560.30	5,517.80	5,507.71	10.09	546.797		
3,000.00	2,998.21	2,987.41	2,987.31	10.45		-79.67	5,302.03	1,560.31	5,516.55	5,506.11	10.45	528.100		
3,100.00	3,097.97	3,087.18	3,087.07	10.80		-79.74	5,302.03	1,560.31	5,515.31	5,504.50	10.80	510.584		
3,200.00	3,197.73	3,186.94	3,186.83	11.16		-79.81	5,302.03	1,560.31	5,514.07	5,502.91	11.16	494.143		
3,300.00	3,297.48	3,286.70	3,286.58	11.52		-79.89	5,302.03	1,560.31	5,512.83	5,501.32	11.52	478.683		
3,400.00	3,397.24	3,386.46	3,386.34	11.88		-79.96	5,302.03	1,560.31	5,511.61	5,499.74	11.88	464.125		
3,500.00	3,497.00	3,486.22	3,486.10	12.24		-80.03	5,302.03	1,560.31	5,510.40	5,498.16	12.23	450.393		
3,600.00	3,596.75	3,585.98	3,585.85	12.60		-80.10	5,302.03	1,560.31	5,509.19	5,496.59	12.59	437.421		
3,700.00	3,696.51	3,685.74	3,685.61	12.96		-80.17	5,302.03	1,560.31	5,507.99	5,495.04	12.96	425.151		
3,800.00	3,796.27	3,785.50	3,785.37	13.32		-80.24	5,302.03	1,560.31	5,506.80	5,493.49	13.32	413.529		
3,900.00	3,896.02	3,885.46	3,885.33	13.68		-80.31	5,302.02	1,560.37	5,505.63	5,491.95	13.68	402.506		
4,000.00	3,995.78	3,990.98	3,990.84	14.04		-80.39	5,302.07	1,560.41	5,504.52	5,490.48	14.04	392.044		
4,100.00	4,095.54	4,085.73	4,085.59	14.40		-80.46	5,302.01	1,560.47	5,503.31	5,488.91	14.40	382.085		
4,200.00	4,195.29	4,187.25	4,187.10	14.77		-80.53	5,302.04	1,560.45	5,502.18	5,487.41	14.77	372.612		
4,300.00	4,295.05	4,290.71	4,290.56	15.13		-80.60	5,302.07	1,560.37	5,501.04	5,485.91	15.13	363.586		
4,400.00	4,394.81	4,387.35	4,387.19	15.49		-80.67	5,302.04	1,560.36	5,499.87	5,484.38	15.49	354.970		
4,500.00	4,494.56	4,506.11	4,505.95	15.86		-80.76	5,302.03	1,560.30	5,498.76	5,482.90	15.86	346.756		
4,600.00	4,594.32	4,588.77	4,588.54	16.22		-80.82	5,301.98	1,560.54	5,497.62	5,481.39	16.22	338.886		
4,700.00	4,694.08	4,695.96	4,695.57	16.59		-80.89	5,302.04	1,560.28	5,496.50	5,479.91	16.59	331.368		
4,800.00	4,793.83	4,801.56	4,800.98	16.95		-80.97	5,302.11	1,559.87	5,495.38	5,478.43	16.95	324.168		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,893.59	4,883.45	4,882.59	17.32		-81.01	5,301.52	1,562.28	5,494.29	5,476.97	17.32	317.258		
5,000.00	4,993.35	4,984.27	4,982.45	17.68		-81.10	5,302.03	1,560.31	5,493.21	5,475.52	17.68	310.638		
5,100.00	5,093.10	5,076.13	5,074.10	18.05		-81.15	5,301.46	1,562.08	5,492.02	5,473.97	18.05	304.274		
5,200.00	5,192.86	5,185.00	5,181.96	18.42		-81.24	5,302.03	1,560.31	5,491.06	5,472.65	18.42	298.175		
5,300.00	5,292.62	5,285.94	5,281.72	18.78		-81.32	5,302.03	1,560.31	5,490.00	5,471.22	18.78	292.304		
5,400.00	5,392.37	5,386.31	5,381.47	19.15		-81.39	5,302.03	1,560.31	5,488.95	5,469.80	19.15	286.656		
5,500.00	5,492.13	5,486.61	5,481.23	19.52		-81.46	5,302.03	1,560.31	5,487.91	5,468.39	19.51	281.217		
5,600.00	5,591.89	5,586.89	5,580.99	19.88		-81.53	5,302.03	1,560.31	5,486.87	5,466.99	19.88	275.977		
5,700.00	5,691.64	5,687.15	5,680.74	20.25		-81.60	5,302.03	1,560.31	5,485.85	5,465.60	20.25	270.925		
5,800.00	5,791.40	5,786.89	5,779.95	20.62		-81.66	5,301.74	1,561.40	5,484.81	5,464.20	20.62	266.050		
5,900.00	5,891.16	5,887.17	5,879.79	20.98		-81.74	5,301.78	1,561.32	5,483.82	5,462.83	20.98	261.347		
6,000.00	5,990.91	5,990.92	5,983.13	21.35		-81.81	5,301.86	1,561.13	5,482.85	5,461.50	21.35	256.805		
6,100.00	6,090.67	6,087.13	6,078.99	21.72		-81.88	5,301.85	1,561.04	5,481.83	5,460.11	21.72	252.412		
6,200.00	6,190.42	6,190.41	6,181.95	22.09		-81.96	5,301.90	1,560.91	5,480.86	5,458.78	22.09	248.167		
6,300.00	6,290.18	6,287.97	6,279.28	22.45		-82.03	5,302.03	1,560.31	5,479.88	5,457.43	22.45	244.058		
6,400.00	6,389.94	6,381.89	6,373.05	22.82		-82.10	5,301.89	1,560.81	5,478.90	5,456.08	22.82	240.080		
6,500.00	6,489.69	6,482.97	6,473.73	23.19		-82.17	5,301.96	1,560.56	5,477.96	5,454.77	23.19	236.230		
6,600.00	6,589.45	6,581.47	6,572.01	23.56		-82.24	5,301.99	1,560.45	5,477.01	5,453.46	23.56	232.498		
6,700.00	6,689.21	6,688.05	6,678.31	23.93		-82.32	5,302.03	1,560.31	5,476.08	5,452.15	23.93	228.883		
6,800.00	6,788.96	6,787.96	6,778.06	24.29		-82.40	5,302.03	1,560.31	5,475.15	5,450.85	24.29	225.375		
6,900.00	6,888.72	6,887.83	6,877.82	24.66		-82.47	5,302.03	1,560.31	5,474.23	5,449.56	24.66	221.972		
7,000.00	6,988.48	6,987.70	6,977.58	25.03		-82.54	5,302.03	1,560.31	5,473.31	5,448.28	25.03	218.668		
7,100.00	7,088.23	7,087.55	7,077.33	25.40		-82.61	5,302.03	1,560.31	5,472.41	5,447.01	25.40	215.460		
7,200.00	7,187.99	7,187.40	7,177.09	25.77		-82.68	5,302.03	1,560.31	5,471.52	5,445.75	25.77	212.344		
7,300.00	7,287.75	7,287.24	7,276.85	26.14		-82.76	5,302.03	1,560.31	5,470.63	5,444.49	26.14	209.315		
7,400.00	7,387.50	7,387.03	7,376.56	26.50		-82.82	5,301.84	1,560.70	5,469.65	5,443.15	26.50	206.366		
7,500.00	7,487.26	7,484.70	7,474.17	26.87		-82.90	5,301.83	1,560.67	5,468.77	5,441.89	26.87	203.501		
7,600.00	7,587.02	7,581.52	7,570.93	27.24		-82.97	5,301.79	1,560.66	5,467.87	5,440.63	27.24	200.712		
7,700.00	7,686.77	7,679.73	7,669.07	27.61		-83.04	5,301.78	1,560.69	5,467.01	5,439.40	27.61	197.999		
7,800.00	7,786.53	7,777.64	7,766.91	27.98		-83.11	5,301.78	1,560.67	5,466.17	5,438.19	27.98	195.358		
7,900.00	7,886.29	7,875.12	7,864.31	28.35		-83.18	5,301.79	1,560.67	5,465.35	5,437.00	28.35	192.786		
8,000.00	7,986.04	7,971.81	7,960.93	28.72		-83.25	5,301.78	1,560.68	5,464.52	5,435.80	28.72	190.279		
8,100.00	8,085.80	8,067.63	8,056.66	29.09		-83.32	5,301.77	1,560.63	5,463.70	5,434.61	29.09	187.835		
8,200.00	8,185.56	8,163.83	8,152.78	29.46		-83.39	5,301.75	1,560.63	5,462.89	5,433.43	29.46	185.453		
8,300.00	8,285.31	8,259.92	8,248.79	29.83		-83.46	5,301.75	1,560.61	5,462.10	5,432.28	29.83	183.131		
8,400.00	8,385.07	8,357.41	8,346.20	30.20		-83.53	5,301.79	1,560.57	5,461.36	5,431.16	30.20	180.867		
8,500.00	8,484.83	8,485.29	8,473.93	30.56		-83.63	5,302.03	1,560.31	5,460.68	5,430.12	30.56	178.662		
8,600.00	8,584.58	8,585.13	8,573.68	30.93		-83.70	5,302.03	1,560.31	5,459.91	5,428.98	30.93	176.504		
8,700.00	8,684.34	8,684.98	8,673.44	31.30		-83.77	5,302.03	1,560.31	5,459.15	5,427.85	31.30	174.397		
8,800.00	8,784.10	8,784.84	8,773.20	31.67		-83.84	5,302.03	1,560.31	5,458.40	5,426.72	31.67	172.339		
8,900.00	8,883.85	8,884.69	8,872.95	32.04		-83.92	5,302.03	1,560.31	5,457.65	5,425.61	32.04	170.328		
9,000.00	8,983.61	8,984.52	8,972.71	32.41		-83.99	5,302.03	1,560.31	5,456.91	5,424.50	32.41	168.364		
9,100.00	9,083.37	9,084.36	9,072.47	32.78		-84.06	5,302.03	1,560.31	5,456.19	5,423.41	32.78	166.444		
9,200.00	9,183.12	9,181.87	9,169.87	33.15		-84.13	5,301.62	1,560.71	5,455.14	5,421.99	33.15	164.556		
9,300.00	9,282.88	9,277.66	9,265.55	33.52		-84.20	5,301.60	1,560.69	5,454.41	5,420.89	33.52	162.720		
9,400.00	9,382.64	9,374.02	9,361.79	33.89		-84.27	5,301.59	1,560.70	5,453.70	5,419.81	33.89	160.924		
9,428.07	9,410.64	9,384.11	9,371.88	33.99		-84.27	5,301.63	1,560.66	5,453.61	5,419.61	33.99	160.428		
9,500.00	9,482.43	9,469.57	9,457.18	34.26		-84.32	5,301.50	1,560.78	5,453.02	5,418.77	34.26	159.176		
9,596.52	9,578.88	9,566.78	9,554.22	34.61		-84.36	5,301.52	1,560.81	5,452.67	5,418.07	34.61	157.566		
9,600.00	9,582.36	9,567.99	9,555.43	34.62		-84.36	5,301.52	1,560.80	5,452.68	5,418.06	34.62	157.508		
9,676.07	9,658.42	9,657.65	9,644.91	34.88		-84.38	5,301.49	1,560.83	5,452.52	5,417.63	34.88	156.310		
9,694.65	9,677.00	9,663.67	9,650.93	34.95		11.10	5,301.50	1,560.81	5,452.54	5,417.60	34.95	156.020		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,700.00	9,682.35	9,665.41	9,652.66	34.97		11.10	5,301.51	1,560.81	5,452.56	5,417.59	34.97	155.940		
9,769.03	9,751.38	9,751.71	9,738.80	35.20		11.10	5,301.51	1,560.77	5,452.52	5,417.32	35.20	154.902		
9,800.00	9,782.35	9,761.75	9,748.83	35.31		11.10	5,301.54	1,560.75	5,452.59	5,417.29	35.31	154.440		
9,863.24	9,845.59	9,844.60	9,831.51	35.52		11.10	5,301.45	1,560.69	5,452.44	5,416.92	35.52	153.503		
9,900.00	9,882.35	9,854.67	9,841.58	35.65		11.10	5,301.48	1,560.67	5,452.55	5,416.91	35.65	152.966		
9,954.14	9,936.49	9,936.63	9,923.36	35.83		11.10	5,301.34	1,560.66	5,452.33	5,416.50	35.83	152.175		
10,000.00	9,982.35	9,948.05	9,934.77	35.99		11.10	5,301.39	1,560.64	5,452.50	5,416.51	35.99	151.518		
10,044.69	10,027.04	10,029.58	10,016.14	36.14		11.09	5,302.03	1,560.31	5,452.94	5,416.81	36.14	150.894		
10,050.00	10,032.35	10,031.12	10,017.66	36.16		11.52	5,301.34	1,560.58	5,452.30	5,416.14	36.16	150.801		
10,100.00	10,082.26	10,043.34	10,029.87	36.32		11.57	5,301.40	1,560.55	5,449.91	5,413.59	36.33	150.032		
10,150.00	10,131.76	10,126.43	10,112.77	36.49		11.73	5,301.33	1,560.58	5,442.85	5,406.36	36.49	149.154		
10,200.00	10,180.46	10,183.40	10,169.56	36.65		11.99	5,302.03	1,560.31	5,432.44	5,395.79	36.65	148.213		
10,250.00	10,227.98	10,221.20	10,207.32	36.81		12.35	5,301.25	1,560.62	5,416.59	5,379.78	36.81	147.160		
10,300.00	10,273.98	10,277.18	10,263.08	36.95		12.85	5,302.03	1,560.31	5,398.13	5,361.18	36.95	146.084		
10,350.00	10,318.11	10,314.36	10,300.23	37.09		13.50	5,301.25	1,560.65	5,374.43	5,337.34	37.09	144.914		
10,400.00	10,360.01	10,323.70	10,309.56	37.21		14.26	5,301.29	1,560.63	5,347.93	5,310.72	37.21	143.721		
10,450.00	10,399.38	10,402.81	10,388.48	37.32		15.38	5,302.03	1,560.31	5,318.30	5,280.98	37.32	142.511		
10,500.00	10,435.92	10,439.35	10,425.02	37.42		16.72	5,302.03	1,560.31	5,284.92	5,247.51	37.41	141.254		
10,550.00	10,469.35	10,452.11	10,437.74	37.51		18.37	5,300.77	1,560.73	5,247.45	5,209.95	37.50	139.943		
10,600.00	10,499.41	10,462.85	10,448.47	37.59		20.48	5,300.84	1,560.70	5,208.57	5,171.00	37.57	138.654		
10,650.00	10,525.87	10,472.43	10,458.04	37.66		23.25	5,300.94	1,560.67	5,167.36	5,129.74	37.62	137.359		
10,700.00	10,548.54	10,552.28	10,537.64	37.74		27.69	5,302.03	1,560.31	5,124.50	5,086.84	37.66	136.090		
10,750.00	10,567.24	10,557.82	10,543.16	37.84		33.17	5,301.61	1,560.48	5,078.85	5,041.17	37.68	134.777		
10,800.00	10,581.83	10,560.83	10,546.17	37.97		41.02	5,301.62	1,560.47	5,032.22	4,994.52	37.70	133.480		
10,850.00	10,592.19	10,595.98	10,581.29	38.11		53.68	5,302.03	1,560.31	4,984.80	4,947.09	37.70	132.211		
10,900.00	10,598.26	10,602.00	10,587.31	38.25		70.98	5,301.96	1,560.28	4,936.32	4,898.62	37.70	130.932		
10,944.69	10,600.00	10,602.46	10,587.77	38.39		89.93	5,301.96	1,560.28	4,892.78	4,855.09	37.69	129.800		
11,000.00	10,600.00	10,602.46	10,587.77	38.56		89.93	5,301.96	1,560.28	4,838.87	4,801.19	37.68	128.406		
11,100.00	10,600.00	10,602.47	10,587.78	38.91		89.93	5,301.96	1,560.28	4,741.49	4,703.82	37.67	125.878		
11,200.00	10,600.00	10,602.47	10,587.78	39.31		89.93	5,301.96	1,560.28	4,644.22	4,606.56	37.65	123.338		
11,300.00	10,600.00	10,602.48	10,587.79	39.76		89.93	5,301.96	1,560.28	4,547.06	4,509.42	37.65	120.785		
11,400.00	10,600.00	10,602.49	10,587.80	40.25		89.93	5,301.96	1,560.28	4,450.04	4,412.39	37.64	118.219		
11,500.00	10,600.00	10,602.50	10,587.81	40.79		89.93	5,301.96	1,560.28	4,353.14	4,315.50	37.64	115.639		
11,600.00	10,600.00	10,602.50	10,587.81	41.37		89.93	5,301.96	1,560.28	4,256.39	4,218.74	37.65	113.045		
11,700.00	10,600.00	10,602.51	10,587.82	41.99		89.93	5,301.96	1,560.28	4,159.80	4,122.13	37.67	110.436		
11,800.00	10,600.00	10,602.52	10,587.83	42.65		89.93	5,301.96	1,560.28	4,063.37	4,025.68	37.69	107.811		
11,900.00	10,600.00	10,602.53	10,587.84	43.35		89.93	5,301.96	1,560.28	3,967.11	3,929.39	37.72	105.170		
12,000.00	10,600.00	10,602.54	10,587.85	44.09		89.93	5,301.96	1,560.28	3,871.05	3,833.29	37.76	102.512		
12,100.00	10,600.00	10,602.55	10,587.86	44.86		89.93	5,301.96	1,560.28	3,775.19	3,737.37	37.81	99.836		
12,200.00	10,600.00	10,602.56	10,587.87	45.67		89.94	5,301.96	1,560.28	3,679.55	3,641.67	37.88	97.141		
12,300.00	10,600.00	10,602.57	10,587.88	46.50		89.94	5,301.96	1,560.28	3,584.15	3,546.19	37.96	94.427		
12,400.00	10,600.00	10,602.58	10,587.89	47.37		89.94	5,301.96	1,560.28	3,489.00	3,450.95	38.05	91.692		
12,500.00	10,600.00	10,602.59	10,587.90	48.26		89.94	5,301.96	1,560.28	3,394.14	3,355.97	38.16	88.935		
12,600.00	10,600.00	10,602.60	10,587.91	49.18		89.94	5,301.96	1,560.28	3,299.58	3,261.28	38.30	86.156		
12,700.00	10,600.00	10,602.61	10,587.92	50.13		89.94	5,301.96	1,560.28	3,205.34	3,166.89	38.45	83.355		
12,800.00	10,600.00	10,602.62	10,587.93	51.10		89.94	5,301.96	1,560.28	3,111.47	3,072.83	38.64	80.530		
12,900.00	10,600.00	10,602.63	10,587.94	52.09		89.94	5,301.96	1,560.28	3,017.99	2,979.14	38.85	77.681		
13,000.00	10,600.00	10,602.65	10,587.96	53.10		89.94	5,301.96	1,560.28	2,924.95	2,885.85	39.10	74.808		
13,100.00	10,600.00	10,602.66	10,587.97	54.14		89.94	5,301.96	1,560.28	2,832.38	2,792.99	39.39	71.911		
13,200.00	10,600.00	10,602.67	10,587.98	55.19		89.94	5,301.96	1,560.28	2,740.33	2,700.61	39.72	68.992		
13,300.00	10,600.00	10,602.69	10,588.00	56.26		89.94	5,301.96	1,560.28	2,648.85	2,608.75	40.10	66.050		
13,400.00	10,600.00	10,602.70	10,588.01	57.35		89.94	5,301.96	1,560.28	2,558.02	2,517.47	40.55	63.090		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,500.00	10,600.00	10,602.72	10,588.03	58.45		89.94	5,301.96	1,560.28	2,467.89	2,426.84	41.05	60.113		
13,600.00	10,600.00	10,602.73	10,588.04	59.57		89.94	5,301.96	1,560.28	2,378.55	2,336.91	41.64	57.123		
13,700.00	10,600.00	10,602.75	10,588.06	60.71		89.95	5,301.96	1,560.28	2,290.10	2,247.79	42.31	54.127		
13,800.00	10,600.00	10,602.77	10,588.08	61.85		89.95	5,301.96	1,560.28	2,202.63	2,159.55	43.08	51.131		
13,900.00	10,600.00	10,602.79	10,588.10	63.01		89.95	5,301.96	1,560.28	2,116.27	2,072.31	43.96	48.143		
14,000.00	10,600.00	10,602.81	10,588.12	64.18		89.95	5,301.96	1,560.28	2,031.17	1,986.20	44.96	45.175		
14,100.00	10,600.00	10,602.83	10,588.14	65.37		89.95	5,301.96	1,560.28	1,947.48	1,901.37	46.11	42.237		
14,200.00	10,600.00	10,602.85	10,588.16	66.56		89.95	5,301.96	1,560.28	1,865.39	1,817.98	47.41	39.346		
14,300.00	10,600.00	10,602.87	10,588.18	67.76		89.95	5,301.96	1,560.28	1,785.14	1,736.25	48.89	36.516		
14,400.00	10,600.00	10,602.89	10,588.20	68.98		89.95	5,301.96	1,560.28	1,706.97	1,656.42	50.55	33.765		
14,500.00	10,600.00	10,602.92	10,588.23	70.20		89.95	5,301.96	1,560.28	1,631.19	1,578.76	52.43	31.113		
14,600.00	10,600.00	10,602.95	10,588.26	71.43		89.96	5,301.96	1,560.28	1,558.15	1,503.62	54.52	28.577		
14,700.00	10,600.00	10,602.97	10,588.28	72.67		89.96	5,301.96	1,560.28	1,488.24	1,431.39	56.85	26.179		
14,800.00	10,600.00	10,603.00	10,588.31	73.92		89.96	5,301.96	1,560.28	1,421.93	1,362.53	59.40	23.937		
14,900.00	10,600.00	10,603.04	10,588.35	75.17		89.96	5,301.96	1,560.28	1,359.75	1,297.57	62.18	21.867		
15,000.00	10,600.00	10,603.07	10,588.38	76.44		89.96	5,301.96	1,560.28	1,302.29	1,237.13	65.16	19.987		
15,100.00	10,600.00	10,603.11	10,588.42	77.70		89.96	5,301.96	1,560.28	1,250.19	1,181.90	68.29	18.308		
15,200.00	10,600.00	10,603.14	10,588.45	78.98		89.97	5,301.96	1,560.28	1,204.16	1,132.65	71.51	16.839		
15,300.00	10,600.00	10,603.19	10,588.49	80.26		89.97	5,301.96	1,560.28	1,164.92	1,090.19	74.73	15.589		
15,400.00	10,600.00	10,603.23	10,588.54	81.55		89.97	5,301.96	1,560.28	1,133.17	1,055.33	77.84	14.558		
15,484.47	10,600.00	10,603.27	10,588.58	82.64		89.97	5,301.96	1,560.28	1,112.66	1,032.38	80.29	13.859	CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	2.30	2.30	0.50	0.50	-90.38	-0.59	-90.00	90.00					
100.00	100.00	102.30	102.30	0.52	0.52	-90.38	-0.59	-90.00	90.00	88.96	1.04	86.731		
200.00	200.00	202.30	202.30	0.70	0.71	-90.38	-0.59	-90.00	90.00	88.59	1.41	63.830		
300.00	300.00	302.30	302.30	0.99	0.99	-90.38	-0.59	-90.00	90.00	88.02	1.98	45.415		
400.00	400.00	402.30	402.30	1.31	1.32	-90.38	-0.59	-90.00	90.00	87.38	2.63	34.276		
500.00	500.00	502.30	502.30	1.65	1.65	-90.38	-0.59	-90.00	90.00	86.70	3.30	27.273		
600.00	600.00	602.30	602.30	1.99	2.00	-90.38	-0.59	-90.00	90.00	86.01	3.99	22.562		
700.00	700.00	702.30	702.30	2.34	2.35	-90.38	-0.59	-90.00	90.00	85.32	4.69	19.204		
800.00	800.00	802.30	802.30	2.69	2.70	-90.38	-0.59	-90.00	90.00	84.61	5.39	16.700		
900.00	900.00	902.30	902.30	3.04	3.05	-90.38	-0.59	-90.00	90.00	83.91	6.10	14.766		
1,000.00	1,000.00	1,002.30	1,002.30	3.40	3.41	-90.38	-0.59	-90.00	90.00	83.20	6.80	13.229		
1,100.00	1,100.00	1,102.30	1,102.30	3.75	3.76	-90.38	-0.59	-90.00	90.00	82.49	7.51	11.979		
1,200.00	1,200.00	1,202.30	1,202.30	4.11	4.12	-90.38	-0.59	-90.00	90.00	81.78	8.22	10.943		
1,300.00	1,300.00	1,302.30	1,302.30	4.46	4.47	-90.38	-0.59	-90.00	90.00	81.07	8.94	10.071		
1,400.00	1,400.00	1,402.30	1,402.30	4.82	4.83	-90.38	-0.59	-90.00	90.00	80.35	9.65	9.327		
1,500.00	1,500.00	1,502.30	1,502.30	5.18	5.19	-90.38	-0.59	-90.00	90.00	79.64	10.36	8.685 CC, ES		
1,600.00	1,600.00	1,600.73	1,600.73	5.53	5.53	-90.48	-0.76	-90.87	90.89	79.83	11.06	8.218		
1,700.00	1,700.00	1,699.14	1,699.10	5.89	5.86	-90.76	-1.24	-93.40	93.46	81.72	11.74	7.958		
1,800.00	1,800.00	1,797.43	1,797.30	6.25	6.20	-91.19	-2.03	-97.58	97.73	85.30	12.43	7.864 SF		
1,900.00	1,900.00	1,895.55	1,895.24	6.61	6.53	-91.74	-3.14	-103.41	103.70	90.59	13.11	7.909		
2,000.00	2,000.00	1,993.43	1,992.82	6.96	6.87	-92.36	-4.56	-110.86	111.36	97.57	13.79	8.075		
2,100.00	2,099.99	2,090.94	2,089.89	7.31	7.22	171.57	-6.28	-119.91	121.57	107.12	14.46	8.410		
2,200.00	2,199.96	2,188.18	2,186.53	7.65	7.56	171.08	-8.30	-130.53	135.16	120.05	15.11	8.943		
2,300.00	2,299.86	2,286.90	2,284.57	7.99	7.92	170.74	-10.47	-141.92	151.08	135.28	15.80	9.564		
2,399.87	2,399.54	2,385.20	2,382.19	8.34	8.28	170.56	-12.63	-153.25	168.66	152.18	16.48	10.234		
2,500.00	2,499.43	2,483.62	2,479.92	8.69	8.64	170.48	-14.78	-164.59	187.14	169.98	17.17	10.902		
2,600.00	2,599.19	2,581.90	2,577.53	9.03	9.00	170.41	-16.94	-175.93	205.60	187.75	17.85	11.516		
2,700.00	2,698.94	2,680.18	2,675.13	9.39	9.36	170.36	-19.10	-187.26	224.06	205.52	18.54	12.083		
2,800.00	2,798.70	2,778.46	2,772.73	9.74	9.73	170.31	-21.25	-198.59	242.52	223.28	19.23	12.608		
2,900.00	2,898.46	2,876.74	2,870.33	10.09	10.10	170.27	-23.41	-209.92	260.98	241.05	19.93	13.095		
3,000.00	2,998.21	2,975.02	2,967.93	10.45	10.47	170.24	-25.57	-221.25	279.44	258.81	20.62	13.549		
3,100.00	3,097.97	3,073.30	3,065.54	10.80	10.84	170.21	-27.72	-232.58	297.89	276.57	21.32	13.971		
3,200.00	3,197.73	3,171.59	3,163.14	11.16	11.21	170.18	-29.88	-243.91	316.35	294.33	22.02	14.366		
3,300.00	3,297.48	3,269.87	3,260.74	11.52	11.58	170.16	-32.03	-255.24	334.81	312.09	22.72	14.736		
3,400.00	3,397.24	3,368.15	3,358.34	11.88	11.96	170.14	-34.19	-266.57	353.27	329.85	23.42	15.083		
3,500.00	3,497.00	3,466.43	3,455.95	12.24	12.33	170.12	-36.35	-277.90	371.73	347.60	24.12	15.409		
3,600.00	3,596.75	3,564.71	3,553.55	12.60	12.71	170.10	-38.50	-289.23	390.19	365.36	24.83	15.716		
3,700.00	3,696.51	3,662.99	3,651.15	12.96	13.09	170.08	-40.66	-300.56	408.65	383.11	25.53	16.006		
3,800.00	3,796.27	3,761.28	3,748.75	13.32	13.46	170.07	-42.82	-311.89	427.10	400.87	26.24	16.279		
3,900.00	3,896.02	3,859.56	3,846.36	13.68	13.84	170.06	-44.97	-323.23	445.56	418.62	26.94	16.538		
4,000.00	3,995.78	3,957.84	3,943.96	14.04	14.22	170.04	-47.13	-334.56	464.02	436.37	27.65	16.782		
4,100.00	4,095.54	4,056.12	4,041.56	14.40	14.60	170.03	-49.28	-345.89	482.48	454.12	28.36	17.015		
4,200.00	4,195.29	4,154.40	4,139.16	14.77	14.98	170.02	-51.44	-357.22	500.94	471.87	29.06	17.235		
4,300.00	4,295.05	4,252.68	4,236.77	15.13	15.36	170.01	-53.60	-368.55	519.40	489.62	29.77	17.445		
4,400.00	4,394.81	4,350.97	4,334.37	15.49	15.74	170.00	-55.75	-379.88	537.86	507.37	30.48	17.645		
4,500.00	4,494.56	4,449.25	4,431.97	15.86	16.12	170.00	-57.91	-391.21	556.32	525.12	31.19	17.835		
4,600.00	4,594.32	4,547.53	4,529.57	16.22	16.50	169.99	-60.06	-402.54	574.77	542.87	31.90	18.017		
4,700.00	4,694.08	4,645.81	4,627.18	16.59	16.88	169.98	-62.22	-413.87	593.23	560.62	32.61	18.190		
4,800.00	4,793.83	4,744.09	4,724.78	16.95	17.26	169.97	-64.38	-425.20	611.69	578.37	33.32	18.356		
4,900.00	4,893.59	4,842.37	4,822.38	17.32	17.64	169.97	-66.53	-436.53	630.15	596.12	34.04	18.515		
5,000.00	4,993.35	4,940.65	4,919.98	17.68	18.02	169.96	-68.69	-447.86	648.61	613.86	34.75	18.667		
5,100.00	5,093.10	5,038.94	5,017.59	18.05	18.41	169.95	-70.85	-459.19	667.07	631.61	35.46	18.812		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,137.22	5,115.19	18.42	18.79	169.95	-73.00	-470.52	685.53	649.36	36.17	18.952		
5,300.00	5,292.62	5,235.50	5,212.79	18.78	19.17	169.94	-75.16	-481.86	703.99	667.10	36.88	19.086		
5,400.00	5,392.37	5,333.78	5,310.39	19.15	19.55	169.94	-77.31	-493.19	722.45	684.85	37.60	19.215		
5,500.00	5,492.13	5,432.06	5,407.99	19.52	19.94	169.93	-79.47	-504.52	740.90	702.59	38.31	19.339		
5,600.00	5,591.89	5,530.34	5,505.60	19.88	20.32	169.93	-81.63	-515.85	759.36	720.34	39.03	19.458		
5,700.00	5,691.64	5,628.63	5,603.20	20.25	20.71	169.93	-83.78	-527.18	777.82	738.08	39.74	19.573		
5,800.00	5,791.40	5,726.91	5,700.80	20.62	21.09	169.92	-85.94	-538.51	796.28	755.83	40.45	19.684		
5,900.00	5,891.16	5,825.19	5,798.40	20.98	21.47	169.92	-88.09	-549.84	814.74	773.57	41.17	19.790		
6,000.00	5,990.91	5,923.47	5,896.01	21.35	21.86	169.91	-90.25	-561.17	833.20	791.32	41.88	19.893		
6,100.00	6,090.67	6,021.75	5,993.61	21.72	22.24	169.91	-92.41	-572.50	851.66	809.06	42.60	19.993		
6,200.00	6,190.42	6,120.03	6,091.21	22.09	22.63	169.91	-94.56	-583.83	870.12	826.80	43.31	20.089		
6,300.00	6,290.18	6,218.31	6,188.81	22.45	23.01	169.90	-96.72	-595.16	888.58	844.55	44.03	20.182		
6,400.00	6,389.94	6,316.60	6,286.42	22.82	23.39	169.90	-98.88	-606.49	907.04	862.29	44.74	20.271		
6,500.00	6,489.69	6,414.88	6,384.02	23.19	23.78	169.90	-101.03	-617.82	925.49	880.03	45.46	20.358		
6,600.00	6,589.45	6,513.16	6,481.62	23.56	24.16	169.90	-103.19	-629.16	943.95	897.78	46.18	20.442		
6,700.00	6,689.21	6,611.44	6,579.22	23.93	24.55	169.89	-105.34	-640.49	962.41	915.52	46.89	20.523		
6,800.00	6,788.96	6,709.72	6,676.83	24.29	24.93	169.89	-107.50	-651.82	980.87	933.26	47.61	20.602		
6,900.00	6,888.72	6,808.00	6,774.43	24.66	25.32	169.89	-109.66	-663.15	999.33	951.00	48.33	20.679		
7,000.00	6,988.48	6,906.29	6,872.03	25.03	25.70	169.88	-111.81	-674.48	1,017.79	968.75	49.04	20.753		
7,100.00	7,088.23	7,004.57	6,969.63	25.40	26.09	169.88	-113.97	-685.81	1,036.25	986.49	49.76	20.825		
7,200.00	7,187.99	7,102.85	7,067.24	25.77	26.48	169.88	-116.12	-697.14	1,054.71	1,004.23	50.48	20.895		
7,300.00	7,287.75	7,201.13	7,164.84	26.14	26.86	169.88	-118.28	-708.47	1,073.17	1,021.97	51.19	20.963		
7,400.00	7,387.50	7,300.59	7,262.44	26.50	27.25	169.88	-120.44	-719.80	1,091.63	1,039.71	51.92	21.027		
7,500.00	7,487.26	7,402.31	7,360.04	26.87	27.65	169.87	-122.59	-731.13	1,110.08	1,057.44	52.65	21.086		
7,600.00	7,587.02	7,504.03	7,457.65	27.24	28.05	169.87	-124.75	-742.46	1,128.54	1,075.17	53.38	21.143		
7,700.00	7,686.77	7,594.26	7,555.25	27.61	28.40	169.87	-126.91	-753.79	1,147.00	1,092.94	54.07	21.215		
7,800.00	7,786.53	7,707.46	7,652.85	27.98	28.85	169.87	-129.06	-765.12	1,165.46	1,110.62	54.84	21.253		
7,900.00	7,886.29	7,809.18	7,750.45	28.35	29.25	169.87	-131.22	-776.46	1,183.92	1,128.35	55.57	21.305		
8,000.00	7,986.04	7,899.10	7,848.05	28.72	29.56	169.86	-133.37	-787.79	1,202.38	1,146.16	56.22	21.387		
8,100.00	8,085.80	7,987.38	7,945.66	29.09	29.95	169.86	-135.53	-799.12	1,220.84	1,163.90	56.94	21.442		
8,200.00	8,185.56	8,085.66	8,043.26	29.46	30.33	169.86	-137.69	-810.45	1,239.30	1,181.64	57.66	21.494		
8,300.00	8,285.31	8,183.95	8,140.86	29.83	30.72	169.86	-139.84	-821.78	1,257.76	1,199.38	58.38	21.546		
8,400.00	8,385.07	8,282.23	8,238.46	30.20	31.11	169.86	-142.00	-833.11	1,276.22	1,217.12	59.09	21.596		
8,500.00	8,484.83	8,380.51	8,336.07	30.56	31.49	169.86	-144.16	-844.44	1,294.67	1,234.86	59.81	21.645		
8,600.00	8,584.58	8,517.94	8,472.73	30.93	32.02	169.86	-146.85	-858.60	1,312.01	1,251.22	60.79	21.584		
8,700.00	8,684.34	8,668.80	8,623.24	31.30	32.58	169.90	-148.76	-868.66	1,325.59	1,263.81	61.77	21.459		
8,800.00	8,784.10	8,821.06	8,775.42	31.67	33.11	169.96	-149.57	-872.87	1,335.25	1,272.56	62.69	21.301		
8,900.00	8,883.85	8,931.79	8,886.15	32.04	33.47	170.01	-149.59	-873.00	1,342.20	1,278.79	63.41	21.165		
9,000.00	8,983.61	9,031.54	8,985.91	32.41	33.80	170.06	-149.59	-873.00	1,349.07	1,284.96	64.11	21.043		
9,100.00	9,083.37	9,131.30	9,085.67	32.78	34.12	170.11	-149.59	-873.00	1,355.94	1,291.13	64.81	20.923		
9,200.00	9,183.12	9,236.53	9,190.88	33.15	34.46	170.21	-148.59	-873.01	1,362.75	1,297.23	65.52	20.800		
9,300.00	9,282.88	9,352.00	9,304.68	33.52	34.82	171.03	-130.24	-873.14	1,368.65	1,302.41	66.24	20.661		
9,400.00	9,382.64	9,456.10	9,402.28	33.89	35.11	172.57	-94.45	-873.40	1,374.09	1,307.16	66.93	20.531		
9,428.07	9,410.64	9,482.62	9,425.98	33.99	35.17	173.08	-82.55	-873.48	1,375.72	1,308.61	67.11	20.499		
9,500.00	9,482.43	9,544.87	9,479.25	34.26	35.32	174.44	-50.41	-873.72	1,379.79	1,312.23	67.56	20.422		
9,600.00	9,582.36	9,618.33	9,537.18	34.62	35.46	176.32	-5.32	-874.04	1,385.37	1,317.25	68.12	20.336		
9,694.65	9,677.00	9,675.43	9,577.95	34.95	35.55	-86.55	34.62	-874.33	1,391.55	1,323.00	68.54	20.302		
9,700.00	9,682.35	9,678.33	9,579.91	34.97	35.56	-86.46	36.76	-874.34	1,391.94	1,323.38	68.56	20.302		
9,800.00	9,782.35	9,727.23	9,611.33	35.31	35.62	-84.92	74.22	-874.61	1,401.84	1,333.00	68.84	20.364		
9,900.00	9,882.35	9,767.26	9,634.59	35.65	35.67	-83.59	106.78	-874.85	1,416.82	1,347.88	68.94	20.553		
10,000.00	9,982.35	9,800.00	9,651.89	35.99	35.71	-82.46	134.57	-875.05	1,437.20	1,368.36	68.85	20.876		
10,044.69	10,027.04	9,813.27	9,658.45	36.14	35.72	-81.99	146.10	-875.13	1,448.10	1,379.35	68.75	21.065		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	9,814.75	9,659.16	36.16	35.72	-81.38	147.40	-875.14	1,449.46	1,380.73	68.73	21.089		
10,100.00	10,082.26	9,829.21	9,665.97	36.32	35.73	-79.53	160.16	-875.23	1,462.69	1,394.10	68.58	21.327		
10,150.00	10,131.76	9,850.00	9,675.18	36.49	35.75	-77.45	178.79	-875.37	1,476.47	1,408.03	68.45	21.571		
10,200.00	10,180.46	9,860.46	9,679.56	36.65	35.76	-75.70	188.30	-875.44	1,490.57	1,422.36	68.21	21.852		
10,250.00	10,227.98	9,877.04	9,686.14	36.81	35.77	-73.78	203.51	-875.55	1,504.85	1,436.86	67.99	22.132		
10,300.00	10,273.98	9,900.00	9,694.52	36.95	35.79	-71.75	224.88	-875.70	1,519.13	1,451.32	67.80	22.405		
10,350.00	10,318.11	9,911.65	9,698.45	37.09	35.80	-70.08	235.85	-875.78	1,533.16	1,465.63	67.52	22.706		
10,400.00	10,360.01	9,929.56	9,704.04	37.21	35.81	-68.35	252.86	-875.90	1,546.85	1,479.56	67.29	22.989		
10,450.00	10,399.38	9,950.00	9,709.78	37.32	35.83	-66.67	272.48	-876.04	1,560.03	1,492.96	67.07	23.260		
10,500.00	10,435.92	9,966.33	9,713.85	37.42	35.85	-65.19	288.30	-876.16	1,572.54	1,505.70	66.84	23.528		
10,550.00	10,469.35	9,985.11	9,717.98	37.51	35.87	-63.79	306.61	-876.29	1,584.27	1,517.63	66.64	23.774		
10,600.00	10,499.41	10,000.00	9,720.82	37.59	35.88	-62.58	321.23	-876.40	1,595.10	1,528.66	66.44	24.007		
10,650.00	10,525.87	10,023.27	9,724.50	37.66	35.91	-61.40	344.20	-876.56	1,604.90	1,538.57	66.33	24.197		
10,700.00	10,548.54	10,050.00	9,727.58	37.74	35.95	-60.34	370.75	-876.75	1,613.65	1,547.39	66.26	24.355		
10,750.00	10,567.24	10,050.00	9,727.58	37.84	35.95	-59.68	370.75	-876.75	1,621.23	1,555.12	66.11	24.523		
10,800.00	10,581.83	10,081.59	9,729.61	37.97	36.00	-58.90	402.27	-876.98	1,627.39	1,561.24	66.15	24.603		
10,850.00	10,592.19	10,106.33	9,730.00	38.11	36.04	-58.37	419.70	-877.11	1,632.34	1,566.15	66.20	24.659		
10,900.00	10,598.26	10,148.64	9,730.00	38.25	36.13	-57.92	469.31	-877.46	1,635.56	1,569.20	66.36	24.647		
10,944.69	10,600.00	10,206.72	9,730.00	38.39	36.29	-57.79	513.96	-877.79	1,636.48	1,569.86	66.62	24.564		
11,000.00	10,600.00	10,248.59	9,730.00	38.56	36.42	-57.79	569.27	-878.18	1,636.47	1,569.57	66.90	24.461		
11,100.00	10,600.00	10,348.59	9,730.00	38.91	36.77	-57.79	669.26	-878.91	1,636.46	1,568.90	67.56	24.224		
11,200.00	10,600.00	10,448.59	9,730.00	39.31	37.20	-57.79	769.26	-879.63	1,636.45	1,568.15	68.30	23.958		
11,300.00	10,600.00	10,548.59	9,730.00	39.76	37.68	-57.79	869.26	-880.35	1,636.44	1,567.30	69.14	23.668		
11,400.00	10,600.00	10,648.59	9,730.00	40.25	38.21	-57.79	969.26	-881.07	1,636.43	1,566.36	70.06	23.356		
11,500.00	10,600.00	10,748.59	9,730.00	40.79	38.79	-57.79	1,069.25	-881.79	1,636.42	1,565.34	71.07	23.025		
11,600.00	10,600.00	10,848.59	9,730.00	41.37	39.41	-57.79	1,169.25	-882.51	1,636.40	1,564.25	72.16	22.678		
11,700.00	10,600.00	10,948.59	9,730.00	41.99	40.08	-57.79	1,269.25	-883.23	1,636.39	1,563.07	73.32	22.318		
11,800.00	10,600.00	11,048.59	9,730.00	42.65	40.79	-57.79	1,369.25	-883.95	1,636.38	1,561.83	74.56	21.949		
11,900.00	10,600.00	11,148.59	9,730.00	43.35	41.54	-57.79	1,469.24	-884.67	1,636.37	1,560.51	75.86	21.571		
12,000.00	10,600.00	11,248.59	9,730.00	44.09	42.32	-57.79	1,569.24	-885.40	1,636.36	1,559.13	77.23	21.188		
12,100.00	10,600.00	11,348.59	9,730.00	44.86	43.14	-57.79	1,669.24	-886.12	1,636.35	1,557.69	78.66	20.803		
12,200.00	10,600.00	11,448.59	9,730.00	45.67	43.99	-57.79	1,769.23	-886.84	1,636.34	1,556.19	80.15	20.416		
12,300.00	10,600.00	11,548.59	9,730.00	46.50	44.88	-57.79	1,869.23	-887.56	1,636.33	1,554.63	81.70	20.029		
12,400.00	10,600.00	11,648.59	9,730.00	47.37	45.79	-57.79	1,969.23	-888.28	1,636.31	1,553.02	83.30	19.644		
12,500.00	10,600.00	11,748.59	9,730.00	48.26	46.73	-57.79	2,069.23	-889.00	1,636.30	1,551.36	84.94	19.263		
12,600.00	10,600.00	11,848.59	9,730.00	49.18	47.69	-57.79	2,169.22	-889.72	1,636.29	1,549.65	86.64	18.886		
12,700.00	10,600.00	11,948.59	9,730.00	50.13	48.68	-57.78	2,269.22	-890.44	1,636.28	1,547.90	88.38	18.514		
12,800.00	10,600.00	12,048.59	9,730.00	51.10	49.69	-57.78	2,369.22	-891.16	1,636.27	1,546.11	90.16	18.149		
12,900.00	10,600.00	12,148.59	9,730.00	52.09	50.72	-57.78	2,469.22	-891.89	1,636.26	1,544.28	91.98	17.789		
13,000.00	10,600.00	12,248.59	9,730.00	53.10	51.77	-57.78	2,569.21	-892.61	1,636.25	1,542.41	93.84	17.437		
13,100.00	10,600.00	12,348.59	9,730.00	54.14	52.85	-57.78	2,669.21	-893.33	1,636.24	1,540.51	95.73	17.093		
13,200.00	10,600.00	12,448.59	9,730.00	55.19	53.94	-57.78	2,769.21	-894.05	1,636.22	1,538.57	97.65	16.756		
13,300.00	10,600.00	12,548.59	9,730.00	56.26	55.04	-57.78	2,869.21	-894.77	1,636.21	1,536.61	99.61	16.427		
13,400.00	10,600.00	12,648.59	9,730.00	57.35	56.17	-57.78	2,969.20	-895.49	1,636.20	1,534.61	101.59	16.106		
13,500.00	10,600.00	12,748.59	9,730.00	58.45	57.30	-57.78	3,069.20	-896.21	1,636.19	1,532.59	103.60	15.793		
13,600.00	10,600.00	12,848.59	9,730.00	59.57	58.45	-57.78	3,169.20	-896.93	1,636.18	1,530.54	105.64	15.489		
13,700.00	10,600.00	12,948.59	9,730.00	60.71	59.62	-57.78	3,269.20	-897.65	1,636.17	1,528.47	107.70	15.192		
13,800.00	10,600.00	13,048.59	9,730.00	61.85	60.80	-57.78	3,369.19	-898.37	1,636.16	1,526.37	109.78	14.904		
13,900.00	10,600.00	13,148.59	9,730.00	63.01	61.98	-57.78	3,469.19	-899.10	1,636.15	1,524.26	111.89	14.623		
14,000.00	10,600.00	13,248.59	9,730.00	64.18	63.18	-57.78	3,569.19	-899.82	1,636.13	1,522.12	114.01	14.350		
14,100.00	10,600.00	13,348.59	9,730.00	65.37	64.39	-57.78	3,669.19	-900.54	1,636.12	1,519.96	116.16	14.085		
14,200.00	10,600.00	13,448.59	9,730.00	66.56	65.62	-57.78	3,769.18	-901.26	1,636.11	1,517.79	118.32	13.827		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 14H - 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	
14,300.00	10,600.00	13,548.59	9,730.00	67.76	66.85	-57.78	3,869.18	-901.98	1,636.10	1,515.59	120.51	13.577	
14,400.00	10,600.00	13,648.59	9,730.00	68.98	68.08	-57.78	3,969.18	-902.70	1,636.09	1,513.39	122.70	13.334	
14,500.00	10,600.00	13,748.59	9,730.00	70.20	69.33	-57.78	4,069.18	-903.42	1,636.08	1,511.16	124.92	13.097	
14,600.00	10,600.00	13,848.59	9,730.00	71.43	70.59	-57.78	4,169.17	-904.14	1,636.07	1,508.92	127.14	12.868	
14,700.00	10,600.00	13,948.59	9,730.00	72.67	71.85	-57.78	4,269.17	-904.86	1,636.06	1,506.67	129.39	12.645	
14,800.00	10,600.00	14,048.59	9,730.00	73.92	73.12	-57.78	4,369.17	-905.59	1,636.04	1,504.40	131.64	12.428	
14,900.00	10,600.00	14,148.59	9,730.00	75.17	74.40	-57.78	4,469.16	-906.31	1,636.03	1,502.12	133.91	12.218	
15,000.00	10,600.00	14,248.59	9,730.00	76.44	75.68	-57.78	4,569.16	-907.03	1,636.02	1,499.83	136.19	12.013	
15,100.00	10,600.00	14,348.59	9,730.00	77.70	76.97	-57.78	4,669.16	-907.75	1,636.01	1,497.53	138.48	11.814	
15,200.00	10,600.00	14,448.59	9,730.00	78.98	78.26	-57.78	4,769.16	-908.47	1,636.00	1,495.22	140.78	11.621	
15,300.00	10,600.00	14,548.59	9,730.00	80.26	79.56	-57.78	4,869.15	-909.19	1,635.99	1,492.90	143.09	11.433	
15,400.00	10,600.00	14,648.59	9,730.00	81.55	80.87	-57.78	4,969.15	-909.91	1,635.98	1,490.56	145.41	11.250	
15,484.47	10,600.00	14,733.06	9,730.00	82.64	81.98	-57.78	5,053.62	-910.52	1,635.97	1,488.59	147.38	11.100	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.60	1.60	0.50	0.50	-90.38	-0.40	-60.00	60.00					
100.00	100.00	101.60	101.60	0.52	0.52	-90.38	-0.40	-60.00	60.00	58.96	1.04	57.859		
200.00	200.00	201.60	201.60	0.70	0.71	-90.38	-0.40	-60.00	60.00	58.59	1.41	42.607		
300.00	300.00	301.60	301.60	0.99	0.99	-90.38	-0.40	-60.00	60.00	58.02	1.98	30.310		
400.00	400.00	401.60	401.60	1.31	1.31	-90.38	-0.40	-60.00	60.00	57.38	2.62	22.871		
500.00	500.00	501.60	501.60	1.65	1.65	-90.38	-0.40	-60.00	60.00	56.70	3.30	18.195		
600.00	600.00	601.60	601.60	1.99	2.00	-90.38	-0.40	-60.00	60.00	56.01	3.99	15.050		
700.00	700.00	701.60	701.60	2.34	2.34	-90.38	-0.40	-60.00	60.00	55.32	4.68	12.809		
800.00	800.00	801.60	801.60	2.69	2.70	-90.38	-0.40	-60.00	60.00	54.61	5.39	11.139		
900.00	900.00	901.60	901.60	3.04	3.05	-90.38	-0.40	-60.00	60.00	53.91	6.09	9.848		
1,000.00	1,000.00	1,001.60	1,001.60	3.40	3.40	-90.38	-0.40	-60.00	60.00	53.20	6.80	8.822		
1,100.00	1,100.00	1,101.60	1,101.60	3.75	3.76	-90.38	-0.40	-60.00	60.00	52.49	7.51	7.989		
1,200.00	1,200.00	1,201.60	1,201.60	4.11	4.11	-90.38	-0.40	-60.00	60.00	51.78	8.22	7.298		
1,300.00	1,300.00	1,301.60	1,301.60	4.46	4.47	-90.38	-0.40	-60.00	60.00	51.07	8.93	6.716		
1,400.00	1,400.00	1,401.60	1,401.60	4.82	4.83	-90.38	-0.40	-60.00	60.00	50.35	9.65	6.220		
1,500.00	1,500.00	1,501.60	1,501.60	5.18	5.18	-90.38	-0.40	-60.00	60.00	49.64	10.36	5.792		
1,600.00	1,600.00	1,601.60	1,601.60	5.53	5.54	-90.38	-0.40	-60.00	60.00	48.93	11.07	5.418		
1,700.00	1,700.00	1,701.60	1,701.60	5.89	5.90	-90.38	-0.40	-60.00	60.00	48.21	11.79	5.090		
1,800.00	1,800.00	1,801.60	1,801.60	6.25	6.25	-90.38	-0.40	-60.00	60.00	47.50	12.50	4.799 Alert		
1,900.00	1,900.00	1,901.60	1,901.60	6.61	6.61	-90.38	-0.40	-60.00	60.00	46.78	13.22	4.540 Alert		
2,000.00	2,000.00	2,001.60	2,001.60	6.96	6.97	-90.38	-0.40	-60.00	60.00	46.07	13.93	4.307 Alert, CC, ES		
2,100.00	2,099.99	2,101.59	2,101.59	7.31	7.33	174.22	-0.40	-60.00	60.87	46.23	14.64	4.158 Alert		
2,200.00	2,199.96	2,201.56	2,201.56	7.65	7.68	174.46	-0.40	-60.00	63.47	48.14	15.33	4.139 Alert, SF		
2,300.00	2,299.86	2,301.46	2,301.46	7.99	8.04	174.81	-0.40	-60.00	67.82	51.78	16.03	4.230 Alert		
2,399.87	2,399.54	2,401.14	2,401.14	8.34	8.40	175.23	-0.40	-60.00	73.89	57.16	16.73	4.416 Alert		
2,500.00	2,499.43	2,501.03	2,501.03	8.69	8.76	175.64	-0.40	-60.00	80.85	63.42	17.43	4.638 Alert		
2,600.00	2,599.19	2,600.79	2,600.79	9.03	9.11	175.99	-0.40	-60.00	87.81	69.67	18.13	4.842 Alert		
2,700.00	2,698.94	2,700.54	2,700.54	9.39	9.47	176.28	-0.40	-60.00	94.76	75.93	18.84	5.031		
2,800.00	2,798.70	2,800.30	2,800.30	9.74	9.83	176.54	-0.40	-60.00	101.72	82.18	19.54	5.206		
2,900.00	2,898.46	2,900.06	2,900.06	10.09	10.18	176.76	-0.40	-60.00	108.68	88.44	20.25	5.368		
3,000.00	2,998.21	3,000.19	2,999.81	10.45	10.54	176.96	-0.40	-60.00	115.65	94.69	20.95	5.520		
3,100.00	3,097.97	3,100.43	3,099.57	10.80	10.90	177.13	-0.40	-60.00	122.61	100.95	21.66	5.661		
3,200.00	3,197.73	3,200.67	3,199.33	11.16	11.26	177.28	-0.40	-60.00	129.58	107.21	22.37	5.792		
3,300.00	3,297.48	3,300.92	3,299.08	11.52	11.62	177.42	-0.40	-60.00	136.54	113.46	23.08	5.916		
3,400.00	3,397.24	3,401.16	3,398.84	11.88	11.98	177.55	-0.40	-60.00	143.51	119.72	23.79	6.032		
3,500.00	3,497.00	3,498.60	3,498.60	12.24	12.33	177.66	-0.40	-60.00	150.48	125.98	24.49	6.144		
3,600.00	3,596.75	3,600.11	3,600.10	12.60	12.67	177.52	-1.10	-59.48	156.89	131.70	25.19	6.228		
3,700.00	3,696.51	3,701.75	3,701.71	12.96	13.01	176.90	-3.25	-57.88	162.19	136.31	25.88	6.268		
3,800.00	3,796.27	3,801.71	3,801.60	13.32	13.34	176.07	-6.15	-55.72	166.90	140.34	26.56	6.284		
3,900.00	3,896.02	3,901.57	3,901.40	13.68	13.67	175.28	-9.04	-53.56	171.63	144.39	27.24	6.300		
4,000.00	3,995.78	4,001.43	4,001.19	14.04	14.00	174.53	-11.94	-51.41	176.40	148.47	27.93	6.316		
4,100.00	4,095.54	4,101.29	4,100.99	14.40	14.33	173.83	-14.83	-49.25	181.20	152.58	28.62	6.332		
4,200.00	4,195.29	4,201.15	4,200.79	14.77	14.66	173.16	-17.73	-47.09	186.02	156.72	29.31	6.348		
4,300.00	4,295.05	4,301.01	4,300.58	15.13	15.00	172.52	-20.63	-44.93	190.87	160.87	30.00	6.363		
4,400.00	4,394.81	4,400.87	4,400.38	15.49	15.33	171.91	-23.52	-42.78	195.74	165.05	30.69	6.378		
4,500.00	4,494.56	4,500.74	4,500.17	15.86	15.67	171.34	-26.42	-40.62	200.63	169.24	31.38	6.393		
4,600.00	4,594.32	4,600.60	4,599.97	16.22	16.01	170.79	-29.31	-38.46	205.54	173.46	32.08	6.407		
4,700.00	4,694.08	4,700.46	4,699.76	16.59	16.35	170.27	-32.21	-36.30	210.47	177.69	32.78	6.421		
4,800.00	4,793.83	4,800.32	4,799.56	16.95	16.69	169.77	-35.11	-34.15	215.41	181.93	33.48	6.435		
4,900.00	4,893.59	4,900.18	4,899.35	17.32	17.03	169.30	-38.00	-31.99	220.37	186.19	34.18	6.448		
5,000.00	4,993.35	5,000.04	4,999.15	17.68	17.37	168.84	-40.90	-29.83	225.34	190.47	34.88	6.461		
5,100.00	5,093.10	5,100.10	5,098.94	18.05	17.72	168.41	-43.79	-27.67	230.33	194.75	35.58	6.474		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
5,200.00	5,192.86	5,200.24	5,198.74	18.42	18.06	167.99	-46.69	-25.51	235.33	199.05	36.28	6.486				
5,300.00	5,292.62	5,300.38	5,298.53	18.78	18.41	167.59	-49.59	-23.36	240.34	203.36	36.99	6.498				
5,400.00	5,392.37	5,399.48	5,398.33	19.15	18.75	167.21	-52.48	-21.20	245.37	207.68	37.69	6.510				
5,500.00	5,492.13	5,499.34	5,498.12	19.52	19.10	166.84	-55.38	-19.04	250.40	212.01	38.39	6.522				
5,600.00	5,591.89	5,599.20	5,597.92	19.88	19.44	166.48	-58.28	-16.88	255.44	216.34	39.10	6.533				
5,700.00	5,691.64	5,700.94	5,697.71	20.25	19.80	166.15	-61.17	-14.73	260.50	220.68	39.81	6.543				
5,800.00	5,791.40	5,801.08	5,797.51	20.62	20.15	165.82	-64.07	-12.57	265.56	225.04	40.52	6.554				
5,900.00	5,891.16	5,901.22	5,897.30	20.98	20.50	165.50	-66.96	-10.41	270.63	229.40	41.23	6.564				
6,000.00	5,990.91	6,001.36	5,997.10	21.35	20.84	165.20	-69.86	-8.25	275.70	233.76	41.94	6.574				
6,100.00	6,090.67	6,101.50	6,096.90	21.72	21.19	164.91	-72.76	-6.10	280.79	238.14	42.65	6.583				
6,200.00	6,190.42	6,201.64	6,196.69	22.09	21.54	164.63	-75.65	-3.94	285.88	242.52	43.36	6.593				
6,300.00	6,290.18	6,301.77	6,296.49	22.45	21.90	164.36	-78.55	-1.78	290.98	246.91	44.07	6.602				
6,400.00	6,389.94	6,401.91	6,396.28	22.82	22.25	164.09	-81.44	0.38	296.09	251.30	44.79	6.611				
6,500.00	6,489.69	6,502.05	6,496.08	23.19	22.60	163.84	-84.34	2.53	301.20	255.70	45.50	6.620				
6,600.00	6,589.45	6,602.19	6,595.87	23.56	22.95	163.60	-87.24	4.69	306.31	260.10	46.21	6.629				
6,700.00	6,689.21	6,702.33	6,695.67	23.93	23.30	163.36	-90.13	6.85	311.44	264.51	46.92	6.637				
6,800.00	6,788.96	6,802.47	6,795.46	24.29	23.66	163.13	-93.03	9.01	316.56	268.93	47.64	6.645				
6,900.00	6,888.72	6,902.61	6,895.26	24.66	24.01	162.91	-95.93	11.16	321.70	273.34	48.35	6.653				
7,000.00	6,988.48	7,002.75	6,995.05	25.03	24.36	162.69	-98.82	13.32	326.83	277.76	49.07	6.661				
7,100.00	7,088.23	7,097.11	7,094.85	25.40	24.69	162.49	-101.72	15.48	331.97	282.21	49.76	6.671				
7,200.00	7,187.99	7,203.03	7,194.64	25.77	25.07	162.28	-104.61	17.64	337.12	286.62	50.50	6.676				
7,300.00	7,287.75	7,303.17	7,294.44	26.14	25.42	162.09	-107.51	19.79	342.27	291.05	51.21	6.683				
7,400.00	7,387.50	7,403.31	7,394.23	26.50	25.78	161.90	-110.41	21.95	347.42	295.49	51.93	6.690				
7,500.00	7,487.26	7,503.45	7,494.03	26.87	26.13	161.71	-113.30	24.11	352.58	299.93	52.65	6.697				
7,600.00	7,587.02	7,603.59	7,593.82	27.24	26.49	161.53	-116.20	26.27	357.74	304.38	53.36	6.704				
7,700.00	7,686.77	7,703.73	7,693.62	27.61	26.84	161.36	-119.09	28.42	362.90	308.82	54.08	6.710				
7,800.00	7,786.53	7,803.87	7,793.41	27.98	27.20	161.19	-121.99	30.58	368.07	313.27	54.80	6.717				
7,900.00	7,886.29	7,904.01	7,893.21	28.35	27.55	161.03	-124.89	32.74	373.24	317.73	55.52	6.723				
8,000.00	7,986.04	8,004.14	7,993.01	28.72	27.91	160.87	-127.78	34.90	378.42	322.18	56.23	6.729				
8,100.00	8,085.80	8,104.28	8,092.80	29.09	28.26	160.71	-130.68	37.05	383.59	326.64	56.95	6.735				
8,200.00	8,185.56	8,204.42	8,192.60	29.46	28.62	160.56	-133.57	39.21	388.77	331.10	57.67	6.741				
8,300.00	8,285.31	8,304.56	8,292.39	29.83	28.98	160.41	-136.47	41.37	393.95	335.56	58.39	6.747				
8,400.00	8,385.07	8,404.70	8,392.19	30.20	29.33	160.27	-139.37	43.53	399.14	340.03	59.11	6.752				
8,500.00	8,484.83	8,495.16	8,491.98	30.56	29.66	160.13	-142.26	45.68	404.32	344.53	59.79	6.762				
8,600.00	8,584.58	8,595.02	8,591.78	30.93	30.01	159.99	-145.16	47.84	409.51	349.00	60.51	6.767				
8,700.00	8,684.34	8,693.99	8,690.68	31.30	30.36	159.87	-147.98	49.94	414.73	353.50	61.23	6.774				
8,800.00	8,784.10	8,789.87	8,786.55	31.67	30.70	159.96	-149.36	50.97	420.61	358.69	61.92	6.793				
8,900.00	8,883.85	8,888.78	8,885.45	32.04	31.05	160.28	-149.40	51.00	427.14	364.53	62.62	6.822				
9,000.00	8,983.61	8,988.53	8,985.21	32.41	31.39	160.59	-149.40	51.00	433.72	370.40	63.32	6.850				
9,100.00	9,083.37	9,088.29	9,084.97	32.78	31.73	160.89	-149.40	51.00	440.30	376.28	64.02	6.877				
9,200.00	9,183.12	9,193.84	9,190.49	33.15	32.10	161.32	-148.42	50.99	446.72	381.96	64.76	6.898				
9,300.00	9,282.88	9,310.85	9,305.80	33.52	32.49	163.97	-129.75	50.86	450.13	384.65	65.49	6.874				
9,400.00	9,382.64	9,416.12	9,404.38	33.89	32.81	168.77	-93.26	50.60	451.93	385.79	66.14	6.833				
9,428.07	9,410.64	9,442.88	9,428.24	33.99	32.89	170.34	-81.15	50.51	452.73	386.41	66.32	6.827				
9,500.00	9,482.43	9,505.60	9,481.76	34.26	33.06	174.52	-48.50	50.27	455.80	389.10	66.70	6.834				
9,600.00	9,582.36	9,579.40	9,539.70	34.62	33.26	-179.76	-2.88	49.94	464.30	397.42	66.87	6.943				
9,694.65	9,677.00	9,636.59	9,580.30	34.95	33.42	-79.40	37.37	49.65	479.55	413.19	66.36	7.226				
9,700.00	9,682.35	9,639.50	9,582.25	34.97	33.42	-79.14	39.53	49.64	480.66	414.35	66.31	7.249				
9,800.00	9,782.35	9,688.35	9,613.41	35.31	33.55	-74.72	77.13	49.37	508.03	443.16	64.87	7.832				
9,900.00	9,882.35	9,728.25	9,636.41	35.65	33.66	-71.03	109.73	49.13	547.53	484.78	62.75	8.725				
10,000.00	9,982.35	9,761.17	9,653.64	35.99	33.75	-67.99	137.77	48.93	597.91	537.61	60.30	9.916				
10,044.69	10,027.04	9,774.03	9,659.93	36.14	33.78	-66.81	148.98	48.85	623.48	564.31	59.18	10.536				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	9,775.50	9,660.63	36.16	33.79	-65.90	150.28	48.84	626.63	567.58	59.04	10.613		
10,100.00	10,082.26	9,789.89	9,667.33	36.32	33.82	-61.33	163.01	48.75	656.49	598.67	57.83	11.353		
10,150.00	10,131.76	9,800.00	9,671.85	36.49	33.85	-57.32	172.05	48.68	686.55	630.04	56.51	12.149		
10,200.00	10,180.46	9,821.02	9,680.73	36.65	33.91	-52.88	191.11	48.55	716.30	660.76	55.54	12.897		
10,250.00	10,227.98	9,837.55	9,687.22	36.81	33.95	-49.15	206.31	48.44	745.52	691.04	54.48	13.684		
10,300.00	10,273.98	9,850.00	9,691.81	36.95	33.99	-45.99	217.88	48.35	773.92	720.54	53.37	14.501		
10,350.00	10,318.11	9,872.08	9,699.34	37.09	34.05	-42.80	238.64	48.20	801.15	748.60	52.55	15.246		
10,400.00	10,360.01	9,900.00	9,707.70	37.21	34.13	-39.86	265.27	48.01	827.24	775.34	51.90	15.940		
10,450.00	10,399.38	9,900.00	9,707.70	37.32	34.13	-38.10	265.27	48.01	851.66	800.94	50.72	16.792		
10,500.00	10,435.92	9,926.69	9,714.48	37.42	34.20	-35.90	291.08	47.83	874.39	824.24	50.15	17.436		
10,550.00	10,469.35	9,950.00	9,719.40	37.51	34.27	-34.10	313.86	47.66	895.45	845.88	49.57	18.065		
10,600.00	10,499.41	9,964.42	9,721.98	37.59	34.31	-32.73	328.05	47.56	914.57	865.65	48.92	18.693		
10,650.00	10,525.87	9,983.57	9,724.86	37.66	34.36	-31.49	346.98	47.42	931.73	883.29	48.44	19.234		
10,700.00	10,548.54	10,000.00	9,726.82	37.74	34.41	-30.48	363.29	47.30	946.82	898.79	48.02	19.716		
10,750.00	10,567.24	10,022.32	9,728.74	37.84	34.47	-29.61	385.53	47.14	959.74	911.99	47.75	20.098		
10,800.00	10,581.83	10,050.00	9,729.91	37.97	34.55	-28.87	413.18	46.95	970.55	922.96	47.60	20.391		
10,850.00	10,592.19	10,063.19	9,730.00	38.11	34.59	-28.40	426.37	46.85	978.94	931.47	47.47	20.622		
10,900.00	10,598.26	10,112.80	9,730.00	38.25	34.74	-27.98	475.98	46.49	984.30	936.75	47.55	20.702		
10,944.69	10,600.00	10,157.45	9,730.00	38.39	34.89	-27.86	520.62	46.17	985.83	938.16	47.68	20.677		
11,000.00	10,600.00	10,212.76	9,730.00	38.56	35.08	-27.86	575.93	45.77	985.83	937.95	47.88	20.589		
11,100.00	10,600.00	10,312.76	9,730.00	38.91	35.48	-27.85	675.93	45.05	985.82	937.51	48.31	20.404		
11,200.00	10,600.00	10,412.76	9,730.00	39.31	35.94	-27.85	775.93	44.33	985.82	937.00	48.82	20.193		
11,300.00	10,600.00	10,512.76	9,730.00	39.76	36.45	-27.85	875.92	43.61	985.81	936.41	49.40	19.956		
11,400.00	10,600.00	10,612.76	9,730.00	40.25	37.01	-27.85	975.92	42.89	985.81	935.76	50.04	19.699		
11,500.00	10,600.00	10,712.76	9,730.00	40.79	37.61	-27.85	1,075.92	42.17	985.80	935.04	50.76	19.422		
11,600.00	10,600.00	10,812.76	9,730.00	41.37	38.26	-27.85	1,175.92	41.45	985.79	934.26	51.53	19.130		
11,700.00	10,600.00	10,912.76	9,730.00	41.99	38.96	-27.85	1,275.91	40.73	985.79	933.42	52.37	18.825		
11,800.00	10,600.00	11,012.76	9,730.00	42.65	39.70	-27.85	1,375.91	40.01	985.78	932.52	53.26	18.509		
11,900.00	10,600.00	11,112.76	9,730.00	43.35	40.47	-27.85	1,475.91	39.29	985.77	931.56	54.21	18.185		
12,000.00	10,600.00	11,212.76	9,730.00	44.09	41.29	-27.85	1,575.90	38.57	985.77	930.56	55.21	17.856		
12,100.00	10,600.00	11,312.76	9,730.00	44.86	42.13	-27.85	1,675.90	37.84	985.76	929.50	56.26	17.522		
12,200.00	10,600.00	11,412.76	9,730.00	45.67	43.01	-27.85	1,775.90	37.12	985.75	928.40	57.35	17.188		
12,300.00	10,600.00	11,512.76	9,730.00	46.50	43.92	-27.85	1,875.90	36.40	985.75	927.26	58.49	16.853		
12,400.00	10,600.00	11,612.76	9,730.00	47.37	44.86	-27.85	1,975.89	35.68	985.74	926.07	59.67	16.519		
12,500.00	10,600.00	11,712.76	9,730.00	48.26	45.83	-27.85	2,075.89	34.96	985.73	924.84	60.89	16.188		
12,600.00	10,600.00	11,812.76	9,730.00	49.18	46.82	-27.84	2,175.89	34.24	985.73	923.58	62.15	15.861		
12,700.00	10,600.00	11,912.76	9,730.00	50.13	47.84	-27.84	2,275.89	33.52	985.72	922.28	63.44	15.538		
12,800.00	10,600.00	12,012.76	9,730.00	51.10	48.87	-27.84	2,375.88	32.80	985.72	920.95	64.76	15.221		
12,900.00	10,600.00	12,112.76	9,730.00	52.09	49.93	-27.84	2,475.88	32.08	985.71	919.59	66.11	14.909		
13,000.00	10,600.00	12,212.76	9,730.00	53.10	51.01	-27.84	2,575.88	31.36	985.70	918.21	67.50	14.604		
13,100.00	10,600.00	12,312.76	9,730.00	54.14	52.11	-27.84	2,675.88	30.64	985.70	916.79	68.91	14.305		
13,200.00	10,600.00	12,412.76	9,730.00	55.19	53.22	-27.84	2,775.87	29.92	985.69	915.35	70.34	14.013		
13,300.00	10,600.00	12,512.76	9,730.00	56.26	54.35	-27.84	2,875.87	29.20	985.68	913.88	71.80	13.728		
13,400.00	10,600.00	12,612.76	9,730.00	57.35	55.50	-27.84	2,975.87	28.48	985.68	912.40	73.28	13.451		
13,500.00	10,600.00	12,712.76	9,730.00	58.45	56.66	-27.84	3,075.87	27.76	985.67	910.89	74.78	13.181		
13,600.00	10,600.00	12,812.76	9,730.00	59.57	57.83	-27.84	3,175.86	27.03	985.66	909.36	76.30	12.918		
13,700.00	10,600.00	12,912.76	9,730.00	60.71	59.02	-27.84	3,275.86	26.31	985.66	907.82	77.84	12.662		
13,800.00	10,600.00	13,012.76	9,730.00	61.85	60.21	-27.84	3,375.86	25.59	985.65	906.25	79.40	12.414		
13,900.00	10,600.00	13,112.76	9,730.00	63.01	61.42	-27.84	3,475.86	24.87	985.64	904.67	80.97	12.172		
14,000.00	10,600.00	13,212.76	9,730.00	64.18	62.64	-27.83	3,575.85	24.15	985.64	903.08	82.56	11.938		
14,100.00	10,600.00	13,312.76	9,730.00	65.37	63.87	-27.83	3,675.85	23.43	985.63	901.46	84.17	11.710		
14,200.00	10,600.00	13,412.76	9,730.00	66.56	65.11	-27.83	3,775.85	22.71	985.63	899.84	85.79	11.489		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,300.00	10,600.00	13,512.76	9,730.00	67.76	66.36	-27.83	3,875.85	21.99	985.62	898.20	87.42	11.275	
14,400.00	10,600.00	13,612.76	9,730.00	68.98	67.61	-27.83	3,975.84	21.27	985.61	896.55	89.06	11.067	
14,500.00	10,600.00	13,712.76	9,730.00	70.20	68.88	-27.83	4,075.84	20.55	985.61	894.89	90.72	10.865	
14,600.00	10,600.00	13,812.76	9,730.00	71.43	70.15	-27.83	4,175.84	19.83	985.60	893.22	92.38	10.669	
14,700.00	10,600.00	13,912.76	9,730.00	72.67	71.43	-27.83	4,275.83	19.11	985.59	891.53	94.06	10.478	
14,800.00	10,600.00	14,012.76	9,730.00	73.92	72.71	-27.83	4,375.83	18.39	985.59	889.84	95.75	10.294	
14,900.00	10,600.00	14,112.76	9,730.00	75.17	74.00	-27.83	4,475.83	17.67	985.58	888.14	97.44	10.114	
15,000.00	10,600.00	14,212.76	9,730.00	76.44	75.30	-27.83	4,575.83	16.94	985.57	886.42	99.15	9.940	
15,100.00	10,600.00	14,312.76	9,730.00	77.70	76.60	-27.83	4,675.82	16.22	985.57	884.70	100.86	9.771	
15,200.00	10,600.00	14,412.76	9,730.00	78.98	77.91	-27.83	4,775.82	15.50	985.56	882.98	102.59	9.607	
15,300.00	10,600.00	14,512.76	9,730.00	80.26	79.22	-27.83	4,875.82	14.78	985.56	881.24	104.32	9.448	
15,400.00	10,600.00	14,612.76	9,730.00	81.55	80.54	-27.82	4,975.82	14.06	985.55	879.50	106.05	9.293	
15,484.47	10,600.00	14,697.23	9,730.00	82.64	81.66	-27.82	5,060.29	13.45	985.54	878.02	107.52	9.166	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	-88.65	37.58	-1,596.33	1,596.78					
100.00	100.00	106.20	93.80	0.52	0.52	-88.65	37.58	-1,596.33	1,596.78	1,595.73	1.04	1,532.825		
200.00	200.00	206.20	193.80	0.70	0.72	-88.65	37.58	-1,596.33	1,596.78	1,595.36	1.42	1,124.503		
300.00	300.00	306.20	293.80	0.99	1.01	-88.65	37.58	-1,596.33	1,596.78	1,594.78	1.99	800.831		
400.00	400.00	406.20	393.80	1.31	1.33	-88.65	37.58	-1,596.33	1,596.78	1,594.14	2.64	605.126		
500.00	500.00	506.20	493.80	1.65	1.67	-88.65	37.58	-1,596.33	1,596.78	1,593.46	3.31	481.920		
600.00	600.00	606.20	593.80	1.99	2.01	-88.65	37.58	-1,596.33	1,596.78	1,592.77	4.00	398.922		
700.00	700.00	706.20	693.80	2.34	2.36	-88.65	37.58	-1,596.33	1,596.78	1,592.08	4.70	339.714		
800.00	800.00	806.20	793.80	2.69	2.71	-88.65	37.58	-1,596.33	1,596.78	1,591.37	5.40	295.533		
900.00	900.00	906.20	893.80	3.04	3.07	-88.65	37.58	-1,596.33	1,596.78	1,590.67	6.11	261.380		
1,000.00	1,000.00	1,006.20	993.80	3.40	3.42	-88.65	37.58	-1,596.33	1,596.78	1,589.96	6.82	234.224		
1,100.00	1,100.00	1,106.20	1,093.80	3.75	3.77	-88.65	37.58	-1,596.33	1,596.78	1,589.25	7.53	212.133		
1,200.00	1,200.00	1,206.20	1,193.80	4.11	4.13	-88.65	37.58	-1,596.33	1,596.78	1,588.54	8.24	193.822		
1,300.00	1,300.00	1,306.20	1,293.80	4.46	4.49	-88.65	37.58	-1,596.33	1,596.78	1,587.83	8.95	178.402		
1,400.00	1,400.00	1,406.20	1,393.80	4.82	4.84	-88.65	37.58	-1,596.33	1,596.78	1,587.11	9.66	165.243		
1,500.00	1,500.00	1,506.20	1,493.80	5.18	5.20	-88.65	37.58	-1,596.33	1,596.78	1,586.40	10.38	153.883		
1,600.00	1,600.00	1,606.20	1,593.80	5.53	5.56	-88.65	37.58	-1,596.33	1,596.78	1,585.69	11.09	143.978		
1,700.00	1,700.00	1,706.20	1,693.80	5.89	5.91	-88.65	37.58	-1,596.33	1,596.78	1,584.97	11.80	135.267		
1,800.00	1,800.00	1,806.20	1,793.80	6.25	6.27	-88.65	37.58	-1,596.33	1,596.78	1,584.26	12.52	127.547		
1,900.00	1,900.00	1,906.20	1,893.80	6.61	6.63	-88.65	37.58	-1,596.33	1,596.78	1,583.54	13.23	120.658		
2,000.00	2,000.00	2,006.20	1,993.80	6.96	6.99	-88.65	37.58	-1,596.33	1,596.78	1,582.83	13.95	114.473 CC, ES		
2,100.00	2,099.99	2,106.21	2,093.79	7.31	7.34	175.87	37.58	-1,596.33	1,597.65	1,582.99	14.65	109.023		
2,200.00	2,199.96	2,206.24	2,193.76	7.65	7.70	175.88	37.58	-1,596.33	1,600.26	1,584.91	15.35	104.242		
2,300.00	2,299.86	2,306.34	2,293.66	7.99	8.06	175.89	37.58	-1,596.33	1,604.61	1,588.56	16.05	99.973		
2,399.87	2,399.54	2,406.66	2,393.34	8.34	8.42	175.90	37.58	-1,596.33	1,610.69	1,593.94	16.75	96.154		
2,500.00	2,499.43	2,506.77	2,493.23	8.69	8.78	175.91	37.58	-1,596.33	1,617.65	1,600.20	17.45	92.686		
2,600.00	2,599.19	2,607.01	2,592.99	9.03	9.14	175.93	37.58	-1,596.33	1,624.61	1,606.45	18.16	89.480		
2,700.00	2,698.94	2,707.26	2,692.74	9.39	9.49	175.95	37.58	-1,596.33	1,631.56	1,612.70	18.86	86.507		
2,800.00	2,798.70	2,807.50	2,792.50	9.74	9.85	175.97	37.58	-1,596.33	1,638.52	1,618.95	19.57	83.743		
2,900.00	2,898.46	2,907.74	2,892.26	10.09	10.21	175.98	37.58	-1,596.33	1,645.48	1,625.20	20.27	81.167		
3,000.00	2,998.21	3,007.99	2,992.01	10.45	10.57	176.00	37.58	-1,596.33	1,652.43	1,631.45	20.98	78.761		
3,100.00	3,097.97	3,108.23	3,091.77	10.80	10.93	176.02	37.58	-1,596.33	1,659.39	1,637.70	21.69	76.509		
3,200.00	3,197.73	3,208.47	3,191.53	11.16	11.29	176.03	37.58	-1,596.33	1,666.35	1,643.95	22.40	74.397		
3,300.00	3,297.48	3,308.72	3,291.28	11.52	11.65	176.05	37.58	-1,596.33	1,673.30	1,650.19	23.11	72.412		
3,400.00	3,397.24	3,408.96	3,391.04	11.88	12.01	176.07	37.58	-1,596.33	1,680.26	1,656.44	23.82	70.544		
3,500.00	3,497.00	3,490.80	3,490.80	12.24	12.30	176.08	37.58	-1,596.33	1,687.22	1,662.75	24.46	68.968		
3,600.00	3,596.75	3,577.17	3,577.17	12.60	12.60	176.08	37.17	-1,596.65	1,694.53	1,669.42	25.11	67.483		
3,700.00	3,696.51	3,662.07	3,662.05	12.96	12.88	176.05	35.76	-1,597.73	1,702.71	1,676.97	25.74	66.153		
3,800.00	3,796.27	3,748.39	3,748.31	13.32	13.16	175.98	33.32	-1,599.60	1,711.75	1,685.38	26.37	64.917		
3,900.00	3,896.02	3,847.91	3,847.74	13.68	13.49	175.88	30.04	-1,602.11	1,721.14	1,694.09	27.05	63.631		
4,000.00	3,995.78	3,947.42	3,947.18	14.04	13.82	175.79	26.76	-1,604.62	1,730.53	1,702.80	27.73	62.404		
4,100.00	4,095.54	4,046.94	4,046.61	14.40	14.15	175.70	23.49	-1,607.14	1,739.93	1,711.52	28.42	61.232		
4,200.00	4,195.29	4,146.46	4,146.04	14.77	14.48	175.60	20.21	-1,609.65	1,749.34	1,720.24	29.10	60.112		
4,300.00	4,295.05	4,245.98	4,245.47	15.13	14.81	175.51	16.93	-1,612.16	1,758.75	1,728.96	29.79	59.040		
4,400.00	4,394.81	4,345.49	4,344.90	15.49	15.15	175.42	13.66	-1,614.67	1,768.16	1,737.68	30.48	58.013		
4,500.00	4,494.56	4,445.01	4,444.33	15.86	15.48	175.33	10.38	-1,617.18	1,777.58	1,746.41	31.17	57.030		
4,600.00	4,594.32	4,544.53	4,543.77	16.22	15.82	175.24	7.11	-1,619.69	1,787.00	1,755.14	31.86	56.086		
4,700.00	4,694.08	4,644.05	4,643.20	16.59	16.16	175.16	3.83	-1,622.20	1,796.42	1,763.87	32.56	55.181		
4,800.00	4,793.83	4,743.56	4,742.63	16.95	16.50	175.07	0.55	-1,624.71	1,805.85	1,772.60	33.25	54.312		
4,900.00	4,893.59	4,843.08	4,842.06	17.32	16.84	174.98	-2.72	-1,627.23	1,815.29	1,781.34	33.95	53.476		
5,000.00	4,993.35	4,942.60	4,941.49	17.68	17.18	174.90	-6.00	-1,629.74	1,824.72	1,790.08	34.64	52.673		
5,100.00	5,093.10	5,042.12	5,040.93	18.05	17.52	174.81	-9.28	-1,632.25	1,834.16	1,798.82	35.34	51.900		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,141.63	5,140.36	18.42	17.87	174.73	-12.55	-1,634.76	1,843.61	1,807.57	36.04	51.155		
5,300.00	5,292.62	5,241.15	5,239.79	18.78	18.21	174.65	-15.83	-1,637.27	1,853.06	1,816.32	36.74	50.438		
5,400.00	5,392.37	5,340.67	5,339.22	19.15	18.55	174.57	-19.10	-1,639.78	1,862.51	1,825.07	37.44	49.747		
5,500.00	5,492.13	5,440.19	5,438.65	19.52	18.90	174.49	-22.38	-1,642.29	1,871.97	1,833.83	38.14	49.080		
5,600.00	5,591.89	5,539.70	5,538.08	19.88	19.24	174.41	-25.66	-1,644.80	1,881.43	1,842.58	38.84	48.436		
5,700.00	5,691.64	5,639.22	5,637.52	20.25	19.59	174.33	-28.93	-1,647.32	1,890.89	1,851.35	39.55	47.814		
5,800.00	5,791.40	5,738.74	5,736.95	20.62	19.94	174.25	-32.21	-1,649.83	1,900.36	1,860.11	40.25	47.214		
5,900.00	5,891.16	5,838.26	5,836.38	20.98	20.28	174.17	-35.49	-1,652.34	1,909.83	1,868.88	40.95	46.633		
6,000.00	5,990.91	5,937.77	5,935.81	21.35	20.63	174.10	-38.76	-1,654.85	1,919.30	1,877.65	41.66	46.071		
6,100.00	6,090.67	6,037.29	6,035.24	21.72	20.98	174.02	-42.04	-1,657.36	1,928.78	1,886.42	42.36	45.528		
6,200.00	6,190.42	6,136.81	6,134.68	22.09	21.33	173.94	-45.31	-1,659.87	1,938.26	1,895.19	43.07	45.002		
6,300.00	6,290.18	6,236.33	6,234.11	22.45	21.68	173.87	-48.59	-1,662.38	1,947.75	1,903.97	43.78	44.492		
6,400.00	6,389.94	6,335.84	6,333.54	22.82	22.03	173.80	-51.87	-1,664.89	1,957.24	1,912.75	44.48	43.998		
6,500.00	6,489.69	6,435.36	6,432.97	23.19	22.38	173.72	-55.14	-1,667.40	1,966.73	1,921.53	45.19	43.519		
6,600.00	6,589.45	6,534.88	6,532.40	23.56	22.73	173.65	-58.42	-1,669.92	1,976.22	1,930.32	45.90	43.054		
6,700.00	6,689.21	6,634.40	6,631.83	23.93	23.08	173.58	-61.69	-1,672.43	1,985.72	1,939.11	46.61	42.604		
6,800.00	6,788.96	6,733.91	6,731.27	24.29	23.43	173.51	-64.97	-1,674.94	1,995.22	1,947.90	47.32	42.166		
6,900.00	6,888.72	6,833.43	6,830.70	24.66	23.78	173.44	-68.25	-1,677.45	2,004.72	1,956.69	48.03	41.741		
7,000.00	6,988.48	6,932.95	6,930.13	25.03	24.13	173.37	-71.52	-1,679.96	2,014.23	1,965.49	48.74	41.328		
7,100.00	7,088.23	7,032.47	7,029.56	25.40	24.49	173.30	-74.80	-1,682.47	2,023.73	1,974.29	49.45	40.927		
7,200.00	7,187.99	7,131.98	7,128.99	25.77	24.84	173.23	-78.08	-1,684.98	2,033.25	1,983.09	50.16	40.537		
7,300.00	7,287.75	7,231.50	7,228.43	26.14	25.19	173.16	-81.35	-1,687.49	2,042.76	1,991.89	50.87	40.158		
7,400.00	7,387.50	7,331.02	7,327.86	26.50	25.54	173.10	-84.63	-1,690.01	2,052.28	2,000.70	51.58	39.789		
7,500.00	7,487.26	7,430.54	7,427.29	26.87	25.90	173.03	-87.90	-1,692.52	2,061.80	2,009.51	52.29	39.429		
7,600.00	7,587.02	7,530.05	7,526.72	27.24	26.25	172.96	-91.18	-1,695.03	2,071.32	2,018.32	53.00	39.079		
7,700.00	7,686.77	7,629.57	7,626.15	27.61	26.60	172.90	-94.46	-1,697.54	2,080.85	2,027.13	53.71	38.739		
7,800.00	7,786.53	7,729.09	7,725.58	27.98	26.96	172.83	-97.73	-1,700.05	2,090.37	2,035.95	54.43	38.407		
7,900.00	7,886.29	7,828.61	7,825.02	28.35	27.31	172.77	-101.01	-1,702.56	2,099.91	2,044.77	55.14	38.083		
8,000.00	7,986.04	7,928.12	7,924.45	28.72	27.67	172.71	-104.29	-1,705.07	2,109.44	2,053.59	55.85	37.768		
8,100.00	8,085.80	8,027.64	8,023.88	29.09	28.02	172.64	-107.56	-1,707.58	2,118.97	2,062.41	56.57	37.460		
8,200.00	8,185.56	8,127.16	8,123.31	29.46	28.38	172.58	-110.84	-1,710.10	2,128.51	2,071.23	57.28	37.160		
8,300.00	8,285.31	8,226.68	8,222.74	29.83	28.73	172.52	-114.11	-1,712.61	2,138.05	2,080.06	57.99	36.867		
8,400.00	8,385.07	8,326.19	8,322.18	30.20	29.09	172.46	-117.39	-1,715.12	2,147.60	2,088.89	58.71	36.582		
8,500.00	8,484.83	8,425.71	8,421.61	30.56	29.44	172.40	-120.67	-1,717.63	2,157.14	2,097.72	59.42	36.303		
8,600.00	8,584.58	8,525.23	8,521.04	30.93	29.80	172.34	-123.94	-1,720.14	2,166.69	2,106.56	60.14	36.030		
8,700.00	8,684.34	8,624.75	8,620.47	31.30	30.15	172.28	-127.22	-1,722.65	2,176.24	2,115.39	60.85	35.764		
8,800.00	8,784.10	8,724.26	8,719.90	31.67	30.51	172.22	-130.50	-1,725.16	2,185.79	2,124.23	61.56	35.504		
8,900.00	8,883.85	8,823.78	8,819.33	32.04	30.86	172.16	-133.77	-1,727.67	2,195.35	2,133.07	62.28	35.250		
9,000.00	8,983.61	8,923.30	8,918.77	32.41	31.22	172.10	-137.05	-1,730.19	2,204.91	2,141.91	62.99	35.002		
9,100.00	9,083.37	9,022.81	9,018.20	32.78	31.58	172.04	-140.32	-1,732.70	2,214.47	2,150.76	63.71	34.759		
9,200.00	9,183.12	9,122.33	9,117.63	33.15	31.93	171.99	-143.60	-1,735.21	2,224.03	2,159.60	64.43	34.521		
9,300.00	9,282.88	9,221.85	9,217.06	33.52	32.29	171.93	-146.88	-1,737.72	2,233.59	2,168.45	65.14	34.289		
9,400.00	9,382.64	9,321.37	9,316.49	33.89	32.65	171.88	-150.15	-1,740.23	2,243.16	2,177.30	65.86	34.061		
9,428.07	9,410.64	9,349.30	9,344.41	33.99	32.75	171.86	-151.07	-1,740.93	2,245.84	2,179.79	66.06	33.998		
9,500.00	9,482.43	9,420.94	9,415.98	34.26	33.00	171.83	-153.43	-1,742.74	2,252.06	2,185.49	66.57	33.829		
9,600.00	9,582.36	9,520.70	9,515.65	34.62	33.36	171.78	-156.72	-1,745.26	2,258.48	2,191.19	67.29	33.565		
9,694.65	9,677.00	9,672.05	9,666.96	34.95	33.90	-92.80	-159.41	-1,747.33	2,261.03	2,192.83	68.19	33.157		
9,700.00	9,682.35	9,680.72	9,675.62	34.97	33.93	-92.80	-159.42	-1,747.33	2,261.03	2,192.79	68.24	33.133		
9,800.00	9,782.35	9,781.24	9,776.15	35.31	34.27	-92.80	-159.42	-1,747.33	2,261.03	2,192.10	68.93	32.802		
9,900.00	9,882.35	9,881.24	9,876.15	35.65	34.61	-92.80	-159.42	-1,747.33	2,261.03	2,191.41	69.62	32.478		
10,000.00	9,982.35	9,981.24	9,976.15	35.99	34.96	-92.80	-159.42	-1,747.33	2,261.03	2,190.73	70.30	32.161		
10,044.69	10,027.04	10,025.93	10,020.84	36.14	35.11	-92.80	-159.42	-1,747.33	2,261.03	2,190.42	70.61	32.021		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	10,031.24	10,026.15	36.16	35.13	-92.38	-159.42	-1,747.33	2,261.03	2,190.38	70.65	32.004		
10,100.00	10,082.26	10,090.94	10,085.74	36.32	35.33	-92.38	-156.41	-1,747.35	2,261.04	2,190.01	71.02	31.835		
10,150.00	10,131.76	10,150.76	10,144.82	36.49	35.53	-92.36	-147.18	-1,747.42	2,261.00	2,189.61	71.39	31.670		
10,200.00	10,180.46	10,210.42	10,202.46	36.65	35.72	-92.32	-131.91	-1,747.53	2,260.94	2,189.19	71.75	31.512		
10,250.00	10,227.98	10,269.79	10,257.94	36.81	35.89	-92.26	-110.84	-1,747.68	2,260.84	2,188.75	72.09	31.361		
10,300.00	10,273.98	10,328.76	10,310.59	36.95	36.06	-92.18	-84.34	-1,747.87	2,260.71	2,188.29	72.42	31.217		
10,350.00	10,318.11	10,387.23	10,359.84	37.09	36.21	-92.07	-52.86	-1,748.09	2,260.55	2,187.82	72.74	31.079		
10,400.00	10,360.01	10,445.12	10,405.18	37.21	36.36	-91.95	-16.92	-1,748.35	2,260.38	2,187.34	73.04	30.946		
10,450.00	10,399.38	10,502.34	10,446.22	37.32	36.50	-91.82	22.93	-1,748.63	2,260.20	2,186.86	73.34	30.819		
10,500.00	10,435.92	10,558.85	10,482.64	37.42	36.63	-91.67	66.10	-1,748.94	2,260.01	2,186.38	73.63	30.695		
10,550.00	10,469.35	10,614.60	10,514.24	37.51	36.77	-91.50	112.00	-1,749.27	2,259.82	2,185.91	73.91	30.575		
10,600.00	10,499.41	10,669.55	10,540.87	37.59	36.90	-91.33	160.04	-1,749.61	2,259.64	2,185.45	74.19	30.458		
10,650.00	10,525.87	10,723.69	10,562.50	37.66	37.03	-91.14	209.65	-1,749.97	2,259.47	2,185.00	74.47	30.343		
10,700.00	10,548.54	10,777.01	10,579.13	37.74	37.16	-90.95	260.29	-1,750.33	2,259.32	2,184.58	74.74	30.230		
10,750.00	10,567.24	10,829.52	10,590.84	37.84	37.29	-90.75	311.46	-1,750.69	2,259.19	2,184.18	75.01	30.119		
10,800.00	10,581.83	10,881.24	10,597.74	37.97	37.42	-90.55	362.70	-1,751.06	2,259.08	2,183.80	75.28	30.009		
10,850.00	10,592.19	10,932.17	10,600.00	38.11	37.55	-90.35	413.56	-1,751.42	2,259.01	2,183.46	75.55	29.902		
10,900.00	10,598.26	10,981.79	10,600.00	38.25	37.68	-90.20	463.17	-1,751.78	2,258.97	2,183.15	75.82	29.795		
10,944.69	10,600.00	11,026.43	10,600.00	38.39	37.81	-90.16	507.82	-1,752.10	2,258.95	2,182.88	76.07	29.694		
11,000.00	10,600.00	11,081.74	10,600.00	38.56	37.99	-90.16	563.13	-1,752.49	2,258.94	2,182.53	76.41	29.563		
11,100.00	10,600.00	11,181.74	10,600.00	38.91	38.34	-90.16	663.12	-1,753.20	2,258.92	2,181.82	77.10	29.297		
11,200.00	10,600.00	11,281.74	10,600.00	39.31	38.75	-90.16	763.12	-1,753.92	2,258.90	2,181.00	77.90	28.998		
11,300.00	10,600.00	11,381.74	10,600.00	39.76	39.21	-90.16	863.12	-1,754.63	2,258.88	2,180.09	78.79	28.669		
11,400.00	10,600.00	11,481.74	10,600.00	40.25	39.72	-90.16	963.12	-1,755.35	2,258.86	2,179.08	79.78	28.312		
11,500.00	10,600.00	11,581.74	10,600.00	40.79	40.27	-90.16	1,063.11	-1,756.06	2,258.84	2,177.97	80.87	27.932		
11,600.00	10,600.00	11,681.74	10,600.00	41.37	40.87	-90.16	1,163.11	-1,756.77	2,258.82	2,176.78	82.04	27.533		
11,700.00	10,600.00	11,781.74	10,600.00	41.99	41.51	-90.16	1,263.11	-1,757.49	2,258.80	2,175.50	83.30	27.117		
11,800.00	10,600.00	11,881.74	10,600.00	42.65	42.19	-90.16	1,363.11	-1,758.20	2,258.78	2,174.14	84.64	26.687		
11,900.00	10,600.00	11,981.74	10,600.00	43.35	42.91	-90.16	1,463.10	-1,758.91	2,258.76	2,172.70	86.06	26.247		
12,000.00	10,600.00	12,081.74	10,600.00	44.09	43.66	-90.16	1,563.10	-1,759.63	2,258.74	2,171.19	87.55	25.800		
12,100.00	10,600.00	12,181.74	10,600.00	44.86	44.45	-90.16	1,663.10	-1,760.34	2,258.72	2,169.61	89.11	25.348		
12,200.00	10,600.00	12,281.74	10,600.00	45.67	45.27	-90.16	1,763.10	-1,761.06	2,258.70	2,167.96	90.74	24.892		
12,300.00	10,600.00	12,381.74	10,600.00	46.50	46.13	-90.16	1,863.09	-1,761.77	2,258.67	2,166.24	92.43	24.437		
12,400.00	10,600.00	12,481.74	10,600.00	47.37	47.01	-90.16	1,963.09	-1,762.48	2,258.65	2,164.47	94.18	23.982		
12,500.00	10,600.00	12,581.74	10,600.00	48.26	47.92	-90.16	2,063.09	-1,763.20	2,258.63	2,162.64	95.99	23.530		
12,600.00	10,600.00	12,681.74	10,600.00	49.18	48.86	-90.16	2,163.09	-1,763.91	2,258.61	2,160.76	97.85	23.082		
12,700.00	10,600.00	12,781.74	10,600.00	50.13	49.83	-90.16	2,263.08	-1,764.63	2,258.59	2,158.83	99.76	22.640		
12,800.00	10,600.00	12,881.74	10,600.00	51.10	50.81	-90.16	2,363.08	-1,765.34	2,258.57	2,156.85	101.72	22.204		
12,900.00	10,600.00	12,981.74	10,600.00	52.09	51.82	-90.16	2,463.08	-1,766.05	2,258.55	2,154.83	103.72	21.775		
13,000.00	10,600.00	13,081.74	10,600.00	53.10	52.85	-90.16	2,563.08	-1,766.77	2,258.53	2,152.76	105.77	21.353		
13,100.00	10,600.00	13,181.74	10,600.00	54.14	53.90	-90.16	2,663.07	-1,767.48	2,258.51	2,150.65	107.85	20.940		
13,200.00	10,600.00	13,281.74	10,600.00	55.19	54.97	-90.16	2,763.07	-1,768.19	2,258.49	2,148.51	109.98	20.536		
13,300.00	10,600.00	13,381.74	10,600.00	56.26	56.05	-90.16	2,863.07	-1,768.91	2,258.47	2,146.33	112.14	20.140		
13,400.00	10,600.00	13,481.74	10,600.00	57.35	57.16	-90.16	2,963.07	-1,769.62	2,258.45	2,144.12	114.33	19.754		
13,500.00	10,600.00	13,581.74	10,600.00	58.45	58.27	-90.16	3,063.06	-1,770.34	2,258.43	2,141.87	116.55	19.377		
13,600.00	10,600.00	13,681.74	10,600.00	59.57	59.41	-90.16	3,163.06	-1,771.05	2,258.41	2,139.60	118.81	19.009		
13,700.00	10,600.00	13,781.74	10,600.00	60.71	60.55	-90.16	3,263.06	-1,771.76	2,258.39	2,137.30	121.09	18.651		
13,800.00	10,600.00	13,881.74	10,600.00	61.85	61.71	-90.16	3,363.06	-1,772.48	2,258.36	2,134.97	123.40	18.302		
13,900.00	10,600.00	13,981.74	10,600.00	63.01	62.88	-90.16	3,463.05	-1,773.19	2,258.34	2,132.62	125.73	17.962		
14,000.00	10,600.00	14,081.74	10,600.00	64.18	64.07	-90.16	3,563.05	-1,773.90	2,258.32	2,130.24	128.09	17.631		
14,100.00	10,600.00	14,181.74	10,600.00	65.37	65.26	-90.16	3,663.05	-1,774.62	2,258.30	2,127.84	130.47	17.310		
14,200.00	10,600.00	14,281.74	10,600.00	66.56	66.46	-90.16	3,763.05	-1,775.33	2,258.28	2,125.42	132.87	16.997		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 16H - 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	
14,300.00	10,600.00	14,381.74	10,600.00	67.76	67.68	-90.16	3,863.04	-1,776.05	2,258.26	2,122.98	135.29	16.692	
14,400.00	10,600.00	14,481.74	10,600.00	68.98	68.90	-90.16	3,963.04	-1,776.76	2,258.24	2,120.51	137.73	16.397	
14,500.00	10,600.00	14,581.74	10,600.00	70.20	70.13	-90.16	4,063.04	-1,777.47	2,258.22	2,118.04	140.18	16.109	
14,600.00	10,600.00	14,681.74	10,600.00	71.43	71.38	-90.16	4,163.03	-1,778.19	2,258.20	2,115.54	142.66	15.829	
14,700.00	10,600.00	14,781.74	10,600.00	72.67	72.63	-90.16	4,263.03	-1,778.90	2,258.18	2,113.03	145.15	15.558	
14,800.00	10,600.00	14,881.74	10,600.00	73.92	73.88	-90.16	4,363.03	-1,779.61	2,258.16	2,110.50	147.66	15.293	
14,900.00	10,600.00	14,981.74	10,600.00	75.17	75.15	-90.16	4,463.03	-1,780.33	2,258.14	2,107.96	150.18	15.036	
15,000.00	10,600.00	15,081.74	10,600.00	76.44	76.42	-90.16	4,563.02	-1,781.04	2,258.12	2,105.40	152.71	14.787	
15,100.00	10,600.00	15,181.74	10,600.00	77.70	77.69	-90.16	4,663.02	-1,781.76	2,258.10	2,102.83	155.26	14.544	
15,200.00	10,600.00	15,281.74	10,600.00	78.98	78.98	-90.16	4,763.02	-1,782.47	2,258.08	2,100.25	157.82	14.308	
15,300.00	10,600.00	15,381.74	10,600.00	80.26	80.27	-90.16	4,863.02	-1,783.18	2,258.06	2,097.66	160.40	14.078	
15,400.00	10,600.00	15,481.74	10,600.00	81.55	81.56	-90.16	4,963.01	-1,783.90	2,258.03	2,095.05	162.98	13.855	
15,484.47	10,600.00	15,566.21	10,600.00	82.64	82.66	-90.16	5,047.48	-1,784.50	2,258.02	2,092.85	165.17	13.671 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	6.10	-6.10	0.50	0.50	-88.62	37.77	-1,566.33	1,566.79					
100.00	100.00	106.10	93.90	0.52	0.52	-88.62	37.77	-1,566.33	1,566.79	1,565.75	1.04	1,504.193		
200.00	200.00	206.10	193.90	0.70	0.72	-88.62	37.77	-1,566.33	1,566.79	1,565.37	1.42	1,103.585		
300.00	300.00	306.10	293.90	0.99	1.01	-88.62	37.77	-1,566.33	1,566.79	1,564.79	1.99	785.914		
400.00	400.00	406.10	393.90	1.31	1.33	-88.62	37.77	-1,566.33	1,566.79	1,564.15	2.64	593.837		
500.00	500.00	506.10	493.90	1.65	1.67	-88.62	37.77	-1,566.33	1,566.79	1,563.48	3.31	472.918		
600.00	600.00	606.10	593.90	1.99	2.01	-88.62	37.77	-1,566.33	1,566.79	1,562.79	4.00	391.464		
700.00	700.00	706.10	693.90	2.34	2.36	-88.62	37.77	-1,566.33	1,566.79	1,562.09	4.70	333.359		
800.00	800.00	806.10	793.90	2.69	2.71	-88.62	37.77	-1,566.33	1,566.79	1,561.39	5.40	290.002		
900.00	900.00	906.10	893.90	3.04	3.07	-88.62	37.77	-1,566.33	1,566.79	1,560.68	6.11	256.486		
1,000.00	1,000.00	1,006.10	993.90	3.40	3.42	-88.62	37.77	-1,566.33	1,566.79	1,559.97	6.82	229.837		
1,100.00	1,100.00	1,093.90	1,093.90	3.75	3.73	-88.62	37.77	-1,566.33	1,566.79	1,559.30	7.48	209.365		
1,200.00	1,200.00	1,228.43	1,228.42	4.11	4.19	-88.63	37.48	-1,564.92	1,565.75	1,557.45	8.30	188.639		
1,300.00	1,300.00	1,365.07	1,364.97	4.46	4.66	-88.66	36.52	-1,560.33	1,562.38	1,553.26	9.11	171.424		
1,400.00	1,400.00	1,501.40	1,501.07	4.82	5.13	-88.71	34.91	-1,552.57	1,556.66	1,546.73	9.93	156.801		
1,500.00	1,500.00	1,637.28	1,636.49	5.18	5.61	-88.79	32.65	-1,541.69	1,548.61	1,537.87	10.74	144.196		
1,600.00	1,600.00	1,772.55	1,771.01	5.53	6.09	-88.88	29.76	-1,527.73	1,538.25	1,526.70	11.55	133.213		
1,700.00	1,700.00	1,876.63	1,874.33	5.89	6.47	-88.97	27.22	-1,515.50	1,526.45	1,514.18	12.26	124.458		
1,800.00	1,800.00	1,975.90	1,972.88	6.25	6.83	-89.06	24.79	-1,503.81	1,514.63	1,501.66	12.97	116.773		
1,900.00	1,900.00	2,075.17	2,071.44	6.61	7.20	-89.14	22.36	-1,492.12	1,502.81	1,489.13	13.68	109.867		
2,000.00	2,000.00	2,174.45	2,169.99	6.96	7.57	-89.23	19.94	-1,480.43	1,491.00	1,476.61	14.39	103.629		
2,100.00	2,099.99	2,273.82	2,268.64	7.31	7.95	175.22	17.51	-1,468.73	1,480.06	1,464.97	15.09	98.090		
2,200.00	2,199.96	2,373.37	2,367.47	7.65	8.32	175.14	15.08	-1,457.01	1,470.85	1,455.06	15.78	93.191		
2,300.00	2,299.86	2,473.07	2,466.45	7.99	8.70	175.07	12.64	-1,445.27	1,463.37	1,446.89	16.48	88.790		
2,399.87	2,399.54	2,572.76	2,565.41	8.34	9.08	175.01	10.20	-1,433.53	1,457.64	1,440.46	17.18	84.836		
2,500.00	2,499.43	2,672.76	2,664.68	8.69	9.46	174.94	7.76	-1,421.75	1,452.76	1,434.88	17.89	81.218		
2,600.00	2,599.19	2,772.62	2,763.83	9.03	9.84	174.87	5.32	-1,409.99	1,447.89	1,429.30	18.59	77.869		
2,700.00	2,698.94	2,872.49	2,862.97	9.39	10.23	174.80	2.88	-1,398.23	1,443.03	1,423.73	19.30	74.757		
2,800.00	2,798.70	2,972.36	2,962.11	9.74	10.61	174.73	0.43	-1,386.48	1,438.17	1,418.15	20.01	71.861		
2,900.00	2,898.46	3,072.22	3,061.25	10.09	11.00	174.66	-2.01	-1,374.72	1,433.30	1,412.58	20.73	69.157		
3,000.00	2,998.21	3,172.09	3,160.39	10.45	11.38	174.59	-4.45	-1,362.96	1,428.44	1,407.01	21.44	66.629		
3,100.00	3,097.97	3,271.96	3,259.53	10.80	11.77	174.52	-6.89	-1,351.20	1,423.59	1,401.43	22.15	64.260		
3,200.00	3,197.73	3,371.82	3,358.67	11.16	12.16	174.45	-9.33	-1,339.44	1,418.73	1,395.86	22.87	62.037		
3,300.00	3,297.48	3,471.69	3,457.82	11.52	12.55	174.37	-11.77	-1,327.68	1,413.88	1,390.29	23.59	59.945		
3,400.00	3,397.24	3,571.55	3,556.96	11.88	12.93	174.30	-14.21	-1,315.92	1,409.03	1,384.73	24.30	57.975		
3,500.00	3,497.00	3,671.42	3,656.10	12.24	13.32	174.23	-16.65	-1,304.16	1,404.18	1,379.16	25.02	56.116		
3,600.00	3,596.75	3,771.29	3,755.24	12.60	13.71	174.15	-19.10	-1,292.40	1,399.34	1,373.59	25.74	54.360		
3,700.00	3,696.51	3,871.15	3,854.38	12.96	14.10	174.08	-21.54	-1,280.64	1,394.49	1,368.03	26.46	52.697		
3,800.00	3,796.27	3,971.02	3,953.52	13.32	14.49	174.00	-23.98	-1,268.88	1,389.65	1,362.47	27.18	51.121		
3,900.00	3,896.02	4,070.88	4,052.66	13.68	14.88	173.93	-26.42	-1,257.12	1,384.81	1,356.91	27.91	49.626		
4,000.00	3,995.78	4,170.75	4,151.80	14.04	15.27	173.85	-28.86	-1,245.36	1,379.98	1,351.35	28.63	48.205		
4,100.00	4,095.54	4,270.62	4,250.95	14.40	15.66	173.78	-31.30	-1,233.60	1,375.14	1,345.79	29.35	46.853		
4,200.00	4,195.29	4,370.48	4,350.09	14.77	16.05	173.70	-33.74	-1,221.84	1,370.31	1,340.24	30.07	45.566		
4,300.00	4,295.05	4,470.35	4,449.23	15.13	16.44	173.62	-36.18	-1,210.08	1,365.48	1,334.69	30.80	44.338		
4,400.00	4,394.81	4,570.22	4,548.37	15.49	16.83	173.54	-38.62	-1,198.32	1,360.66	1,329.13	31.52	43.166		
4,500.00	4,494.56	4,670.08	4,647.51	15.86	17.23	173.46	-41.07	-1,186.56	1,355.83	1,323.59	32.25	42.046		
4,600.00	4,594.32	4,769.95	4,746.65	16.22	17.62	173.39	-43.51	-1,174.80	1,351.01	1,318.04	32.97	40.975		
4,700.00	4,694.08	4,869.81	4,845.79	16.59	18.01	173.31	-45.95	-1,163.04	1,346.19	1,312.50	33.70	39.950		
4,800.00	4,793.83	4,969.68	4,944.94	16.95	18.40	173.22	-48.39	-1,151.28	1,341.38	1,306.95	34.42	38.968		
4,900.00	4,893.59	5,069.55	5,044.08	17.32	18.79	173.14	-50.83	-1,139.52	1,336.56	1,301.41	35.15	38.025		
5,000.00	4,893.35	5,169.41	5,143.22	17.68	19.19	173.06	-53.27	-1,127.76	1,331.75	1,295.88	35.88	37.121		
5,100.00	5,093.10	5,269.28	5,242.36	18.05	19.58	172.98	-55.71	-1,116.00	1,326.95	1,290.34	36.60	36.253		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,369.15	5,341.50	18.42	19.97	172.90	-58.15	-1,104.24	1,322.14	1,284.81	37.33	35.418		
5,300.00	5,292.62	5,469.01	5,440.64	18.78	20.36	172.81	-60.59	-1,092.48	1,317.34	1,279.28	38.06	34.614		
5,400.00	5,392.37	5,568.88	5,539.78	19.15	20.76	172.73	-63.04	-1,080.72	1,312.54	1,273.75	38.79	33.841		
5,500.00	5,492.13	5,668.74	5,638.92	19.52	21.15	172.65	-65.48	-1,068.97	1,307.74	1,268.23	39.51	33.096		
5,600.00	5,591.89	5,768.61	5,738.07	19.88	21.54	172.56	-67.92	-1,057.21	1,302.95	1,262.71	40.24	32.378		
5,700.00	5,691.64	5,868.48	5,837.21	20.25	21.94	172.47	-70.36	-1,045.45	1,298.16	1,257.19	40.97	31.685		
5,800.00	5,791.40	5,968.34	5,936.35	20.62	22.33	172.39	-72.80	-1,033.69	1,293.37	1,251.67	41.70	31.016		
5,900.00	5,891.16	6,068.21	6,035.49	20.98	22.72	172.30	-75.24	-1,021.93	1,288.58	1,246.15	42.43	30.371		
6,000.00	5,990.91	6,168.07	6,134.63	21.35	23.12	172.21	-77.68	-1,010.17	1,283.80	1,240.64	43.16	29.746		
6,100.00	6,090.67	6,267.94	6,233.77	21.72	23.51	172.12	-80.12	-998.41	1,279.02	1,235.13	43.89	29.143		
6,200.00	6,190.42	6,367.81	6,332.91	22.09	23.90	172.04	-82.57	-986.65	1,274.25	1,229.63	44.62	28.559		
6,300.00	6,290.18	6,467.67	6,432.06	22.45	24.30	171.95	-85.01	-974.89	1,269.47	1,224.13	45.35	27.994		
6,400.00	6,389.94	6,567.54	6,531.20	22.82	24.69	171.85	-87.45	-963.13	1,264.70	1,218.63	46.08	27.447		
6,500.00	6,489.69	6,667.41	6,630.34	23.19	25.09	171.76	-89.89	-951.37	1,259.94	1,213.13	46.81	26.917		
6,600.00	6,589.45	6,767.27	6,729.48	23.56	25.48	171.67	-92.33	-939.61	1,255.17	1,207.63	47.54	26.403		
6,700.00	6,689.21	6,867.14	6,828.62	23.93	25.87	171.58	-94.77	-927.85	1,250.41	1,202.14	48.27	25.905		
6,800.00	6,788.96	6,967.00	6,927.76	24.29	26.27	171.49	-97.21	-916.09	1,245.66	1,196.66	49.00	25.421		
6,900.00	6,888.72	7,066.87	7,026.90	24.66	26.66	171.39	-99.65	-904.33	1,240.90	1,191.17	49.73	24.952		
7,000.00	6,988.48	7,166.74	7,126.04	25.03	27.06	171.30	-102.09	-892.57	1,236.15	1,185.69	50.46	24.496		
7,100.00	7,088.23	7,266.60	7,225.19	25.40	27.45	171.20	-104.54	-880.81	1,231.41	1,180.21	51.20	24.053		
7,200.00	7,187.99	7,366.47	7,324.33	25.77	27.84	171.11	-106.98	-869.05	1,226.66	1,174.74	51.93	23.623		
7,300.00	7,287.75	7,466.33	7,423.47	26.14	28.24	171.01	-109.42	-857.29	1,221.92	1,169.26	52.66	23.204		
7,400.00	7,387.50	7,566.20	7,522.61	26.50	28.63	170.91	-111.86	-845.53	1,217.19	1,163.80	53.39	22.797		
7,500.00	7,487.26	7,666.07	7,621.75	26.87	29.03	170.81	-114.30	-833.77	1,212.45	1,158.33	54.12	22.401		
7,600.00	7,587.02	7,765.93	7,720.89	27.24	29.42	170.71	-116.74	-822.01	1,207.73	1,152.87	54.86	22.016		
7,700.00	7,686.77	7,865.80	7,820.03	27.61	29.81	170.61	-119.18	-810.25	1,203.00	1,147.41	55.59	21.641		
7,800.00	7,786.53	7,965.67	7,919.18	27.98	30.21	170.51	-121.62	-798.49	1,198.28	1,141.96	56.32	21.275		
7,900.00	7,886.29	8,065.53	8,018.32	28.35	30.60	170.41	-124.06	-786.73	1,193.56	1,136.50	57.06	20.919		
8,000.00	7,986.04	8,165.40	8,117.46	28.72	31.00	170.31	-126.51	-774.97	1,188.85	1,131.06	57.79	20.572		
8,100.00	8,085.80	8,265.26	8,216.60	29.09	31.39	170.21	-128.95	-763.21	1,184.13	1,125.61	58.52	20.234		
8,200.00	8,185.56	8,365.13	8,315.74	29.46	31.79	170.10	-131.39	-751.45	1,179.43	1,120.17	59.26	19.904		
8,300.00	8,285.31	8,465.00	8,414.88	29.83	32.18	170.00	-133.83	-739.70	1,174.73	1,114.74	59.99	19.582		
8,400.00	8,385.07	8,564.86	8,514.02	30.20	32.58	169.89	-136.27	-727.94	1,170.03	1,109.30	60.72	19.268		
8,500.00	8,484.83	8,664.73	8,613.17	30.56	32.97	169.78	-138.71	-716.18	1,165.33	1,103.87	61.46	18.961		
8,600.00	8,584.58	8,764.60	8,712.31	30.93	33.37	169.68	-141.15	-704.42	1,160.64	1,098.45	62.19	18.662		
8,700.00	8,684.34	8,864.46	8,811.45	31.30	33.76	169.57	-143.59	-692.66	1,155.95	1,093.03	62.93	18.370		
8,800.00	8,784.10	8,964.33	8,910.59	31.67	34.16	169.46	-146.03	-680.90	1,151.27	1,087.61	63.66	18.084		
8,900.00	8,883.85	9,064.19	9,009.73	32.04	34.55	169.35	-148.48	-669.14	1,146.59	1,082.20	64.40	17.805		
9,000.00	8,983.61	9,164.06	9,108.87	32.41	34.94	169.24	-150.92	-657.38	1,141.92	1,076.79	65.13	17.532		
9,100.00	9,083.37	9,263.93	9,208.01	32.78	35.34	169.13	-153.36	-645.62	1,137.25	1,071.38	65.87	17.266		
9,200.00	9,183.12	9,363.80	9,287.46	33.15	35.73	169.02	-155.80	-633.86	1,132.57	1,065.96	66.60	17.009		
9,300.00	9,282.88	9,463.67	9,365.04	33.52	36.12	168.91	-158.24	-622.10	1,127.89	1,060.54	67.33	16.752		
9,349.14	9,331.90	9,460.09	9,403.23	33.70	36.09	168.97	-157.23	-626.95	1,131.21	1,063.68	67.53	16.750		
9,400.00	9,382.64	9,500.00	9,443.05	33.89	36.24	168.96	-157.77	-624.35	1,131.46	1,063.60	67.86	16.674		
9,428.07	9,410.64	9,521.61	9,464.63	33.99	36.31	168.96	-158.03	-623.12	1,131.82	1,063.79	68.03	16.637		
9,500.00	9,482.43	9,577.67	9,520.62	34.26	36.51	168.95	-158.58	-620.47	1,132.76	1,064.29	68.47	16.544		
9,600.00	9,582.36	9,655.59	9,598.50	34.62	36.78	168.95	-159.07	-618.12	1,133.54	1,064.48	69.06	16.414		
9,694.65	9,677.00	9,740.20	9,670.90	34.95	37.07	168.95	-159.23	-617.33	1,133.70	1,064.08	69.62	16.284		
9,700.00	9,682.35	9,734.85	9,676.25	34.97	37.05	168.95	-159.23	-617.33	1,133.70	1,064.08	69.62	16.284		
9,800.00	9,782.35	9,833.35	9,776.25	35.31	37.36	168.95	-159.23	-617.33	1,133.70	1,063.41	70.29	16.129		
9,900.00	9,882.35	9,933.35	9,876.25	35.65	37.68	168.95	-159.23	-617.33	1,133.70	1,062.74	70.96	15.976		
10,000.00	9,982.35	10,033.35	9,976.25	35.99	38.00	168.95	-159.23	-617.33	1,133.70	1,062.07	71.64	15.825		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,078.04	10,020.94	36.14	38.14	-95.58	-159.23	-617.33	1,133.70	1,061.76	71.94	15.759		
10,050.00	10,032.35	10,083.35	10,026.25	36.16	38.16	-95.16	-159.23	-617.33	1,133.71	1,061.73	71.98	15.751		
10,100.00	10,082.26	10,144.05	10,086.84	36.32	38.35	-95.16	-156.10	-617.36	1,133.71	1,061.34	72.38	15.664		
10,150.00	10,131.76	10,204.85	10,146.87	36.49	38.54	-95.12	-146.56	-617.42	1,133.63	1,060.87	72.76	15.581		
10,200.00	10,180.46	10,265.46	10,205.35	36.65	38.71	-95.02	-130.78	-617.54	1,133.47	1,060.35	73.12	15.502		
10,250.00	10,227.98	10,325.73	10,261.53	36.81	38.87	-94.88	-109.05	-617.69	1,133.23	1,059.77	73.46	15.427		
10,300.00	10,273.98	10,385.53	10,314.72	36.95	39.01	-94.70	-81.77	-617.89	1,132.93	1,059.15	73.78	15.356		
10,350.00	10,318.11	10,444.75	10,364.31	37.09	39.13	-94.47	-49.45	-618.12	1,132.57	1,058.48	74.08	15.288		
10,400.00	10,360.01	10,503.30	10,409.80	37.21	39.23	-94.20	-12.63	-618.38	1,132.16	1,057.79	74.37	15.223		
10,450.00	10,399.38	10,561.10	10,450.79	37.32	39.32	-93.90	28.09	-618.67	1,131.74	1,057.08	74.65	15.160		
10,500.00	10,435.92	10,618.08	10,486.99	37.42	39.38	-93.57	72.07	-618.98	1,131.30	1,056.38	74.92	15.100		
10,550.00	10,469.35	10,674.21	10,518.20	37.51	39.43	-93.21	118.68	-619.32	1,130.86	1,055.68	75.19	15.041		
10,600.00	10,499.41	10,729.44	10,544.32	37.59	39.46	-92.82	167.33	-619.66	1,130.45	1,055.00	75.45	14.984		
10,650.00	10,525.87	10,783.78	10,565.32	37.66	39.49	-92.42	217.42	-620.02	1,130.07	1,054.37	75.70	14.928		
10,700.00	10,548.54	10,837.21	10,581.26	37.74	39.51	-92.00	268.40	-620.38	1,129.73	1,053.78	75.95	14.875		
10,750.00	10,567.24	10,889.76	10,592.24	37.84	39.52	-91.57	319.76	-620.75	1,129.45	1,053.26	76.20	14.823		
10,800.00	10,581.83	10,941.43	10,598.41	37.97	39.54	-91.13	371.04	-621.12	1,129.23	1,052.80	76.43	14.774		
10,850.00	10,592.19	10,992.06	10,600.00	38.11	39.58	-90.69	421.63	-621.48	1,129.08	1,052.41	76.66	14.728		
10,900.00	10,598.26	11,041.67	10,600.00	38.25	39.63	-90.40	471.25	-621.83	1,129.01	1,052.10	76.91	14.680		
10,944.69	10,600.00	11,086.32	10,600.00	38.39	39.69	-90.31	515.89	-622.15	1,128.99	1,051.84	77.14	14.635		
11,000.00	10,600.00	11,141.63	10,600.00	38.56	39.80	-90.31	571.20	-622.54	1,128.97	1,051.50	77.47	14.572		
11,100.00	10,600.00	11,241.63	10,600.00	38.91	40.07	-90.31	671.20	-623.26	1,128.95	1,050.81	78.15	14.447		
11,200.00	10,600.00	11,341.63	10,600.00	39.31	40.42	-90.31	771.19	-623.97	1,128.93	1,050.01	78.92	14.305		
11,300.00	10,600.00	11,441.63	10,600.00	39.76	40.84	-90.31	871.19	-624.68	1,128.91	1,049.12	79.79	14.148		
11,400.00	10,600.00	11,541.63	10,600.00	40.25	41.32	-90.31	971.19	-625.40	1,128.89	1,048.13	80.76	13.978		
11,500.00	10,600.00	11,641.63	10,600.00	40.79	41.84	-90.31	1,071.19	-626.11	1,128.87	1,047.05	81.82	13.797		
11,600.00	10,600.00	11,741.63	10,600.00	41.37	42.42	-90.31	1,171.18	-626.82	1,128.85	1,045.88	82.97	13.605		
11,700.00	10,600.00	11,841.63	10,600.00	41.99	43.03	-90.31	1,271.18	-627.54	1,128.83	1,044.62	84.21	13.406		
11,800.00	10,600.00	11,941.63	10,600.00	42.65	43.69	-90.31	1,371.18	-628.25	1,128.81	1,043.28	85.52	13.199		
11,900.00	10,600.00	12,041.63	10,600.00	43.35	44.38	-90.31	1,471.18	-628.96	1,128.78	1,041.87	86.91	12.987		
12,000.00	10,600.00	12,141.63	10,600.00	44.09	45.11	-90.31	1,571.17	-629.68	1,128.76	1,040.38	88.38	12.771		
12,100.00	10,600.00	12,241.63	10,600.00	44.86	45.87	-90.31	1,671.17	-630.39	1,128.74	1,038.82	89.92	12.553		
12,200.00	10,600.00	12,341.63	10,600.00	45.67	46.67	-90.31	1,771.17	-631.10	1,128.72	1,037.20	91.52	12.332		
12,300.00	10,600.00	12,441.63	10,600.00	46.50	47.49	-90.31	1,871.16	-631.82	1,128.70	1,035.51	93.19	12.111		
12,400.00	10,600.00	12,541.63	10,600.00	47.37	48.35	-90.31	1,971.16	-632.53	1,128.68	1,033.76	94.92	11.891		
12,500.00	10,600.00	12,641.63	10,600.00	48.26	49.23	-90.31	2,071.16	-633.24	1,128.66	1,031.95	96.71	11.671		
12,600.00	10,600.00	12,741.63	10,600.00	49.18	50.14	-90.31	2,171.16	-633.96	1,128.64	1,030.09	98.55	11.453		
12,700.00	10,600.00	12,841.63	10,600.00	50.13	51.08	-90.31	2,271.15	-634.67	1,128.61	1,028.18	100.43	11.237		
12,800.00	10,600.00	12,941.63	10,600.00	51.10	52.04	-90.31	2,371.15	-635.38	1,128.59	1,026.22	102.37	11.024		
12,900.00	10,600.00	13,041.63	10,600.00	52.09	53.02	-90.31	2,471.15	-636.10	1,128.57	1,024.22	104.36	10.815		
13,000.00	10,600.00	13,141.63	10,600.00	53.10	54.02	-90.31	2,571.15	-636.81	1,128.55	1,022.17	106.38	10.609		
13,100.00	10,600.00	13,241.63	10,600.00	54.14	55.04	-90.31	2,671.14	-637.52	1,128.53	1,020.08	108.45	10.406		
13,200.00	10,600.00	13,341.63	10,600.00	55.19	56.09	-90.31	2,771.14	-638.24	1,128.51	1,017.96	110.55	10.208		
13,300.00	10,600.00	13,441.63	10,600.00	56.26	57.15	-90.31	2,871.14	-638.95	1,128.49	1,015.80	112.69	10.014		
13,400.00	10,600.00	13,541.63	10,600.00	57.35	58.22	-90.31	2,971.14	-639.66	1,128.47	1,013.60	114.87	9.824		
13,500.00	10,600.00	13,641.63	10,600.00	58.45	59.31	-90.31	3,071.13	-640.37	1,128.45	1,011.37	117.07	9.639		
13,600.00	10,600.00	13,741.63	10,600.00	59.57	60.42	-90.31	3,171.13	-641.09	1,128.42	1,009.12	119.31	9.458		
13,700.00	10,600.00	13,841.63	10,600.00	60.71	61.54	-90.31	3,271.13	-641.80	1,128.40	1,006.83	121.57	9.282		
13,800.00	10,600.00	13,941.63	10,600.00	61.85	62.68	-90.31	3,371.13	-642.51	1,128.38	1,004.52	123.87	9.110		
13,900.00	10,600.00	14,041.63	10,600.00	63.01	63.83	-90.31	3,471.12	-643.23	1,128.36	1,002.18	126.18	8.942		
14,000.00	10,600.00	14,141.63	10,600.00	64.18	64.99	-90.31	3,571.12	-643.94	1,128.34	999.81	128.53	8.779		
14,100.00	10,600.00	14,241.63	10,600.00	65.37	66.16	-90.31	3,671.12	-644.65	1,128.32	997.43	130.89	8.620		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	14,341.63	10,600.00	66.56	67.34	-90.31	3,771.12	-645.37	1,128.30	995.02	133.28	8.466	
14,300.00	10,600.00	14,441.63	10,600.00	67.76	68.54	-90.31	3,871.11	-646.08	1,128.28	992.59	135.68	8.315	
14,400.00	10,600.00	14,541.63	10,600.00	68.98	69.74	-90.31	3,971.11	-646.79	1,128.26	990.14	138.11	8.169	
14,500.00	10,600.00	14,641.63	10,600.00	70.20	70.96	-90.31	4,071.11	-647.51	1,128.23	987.68	140.56	8.027	
14,600.00	10,600.00	14,741.63	10,600.00	71.43	72.18	-90.31	4,171.11	-648.22	1,128.21	985.19	143.02	7.889	
14,700.00	10,600.00	14,841.63	10,600.00	72.67	73.41	-90.31	4,271.10	-648.93	1,128.19	982.69	145.50	7.754	
14,800.00	10,600.00	14,941.63	10,600.00	73.92	74.65	-90.31	4,371.10	-649.65	1,128.17	980.18	147.99	7.623	
14,900.00	10,600.00	15,041.63	10,600.00	75.17	75.89	-90.31	4,471.10	-650.36	1,128.15	977.65	150.50	7.496	
15,000.00	10,600.00	15,141.63	10,600.00	76.44	77.15	-90.31	4,571.10	-651.07	1,128.13	975.10	153.03	7.372	
15,100.00	10,600.00	15,241.63	10,600.00	77.70	78.41	-90.31	4,671.09	-651.79	1,128.11	972.54	155.57	7.252	
15,200.00	10,600.00	15,341.63	10,600.00	78.98	79.67	-90.31	4,771.09	-652.50	1,128.09	969.97	158.12	7.135	
15,300.00	10,600.00	15,441.63	10,600.00	80.26	80.95	-90.31	4,871.09	-653.21	1,128.06	967.39	160.68	7.021	
15,400.00	10,600.00	15,541.63	10,600.00	81.55	82.23	-90.31	4,971.09	-653.93	1,128.04	964.79	163.25	6.910	
15,484.47	10,600.00	15,626.10	10,600.00	82.64	83.31	-90.31	5,055.55	-654.53	1,128.03	962.59	165.44	6.818	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.00	1.00	0.50	0.00	-90.33	-4.82	-831.57	831.59									
100.00	100.00	100.82	100.82	0.52	0.14	-90.32	-4.59	-831.58	831.60	830.93	0.66	1,257.292						
200.00	200.00	204.20	204.19	0.70	0.47	-90.26	-3.82	-831.44	831.45	830.28	1.17	710.440						
300.00	300.00	303.60	303.59	0.99	0.82	-90.18	-2.55	-831.02	831.02	829.21	1.81	458.670						
400.00	400.00	401.25	401.23	1.31	1.17	-90.07	-0.95	-830.89	830.89	828.41	2.48	334.516						
500.00	500.00	501.52	501.48	1.65	1.53	-89.94	0.80	-830.86	830.87	827.68	3.18	261.211						
600.00	600.00	603.53	603.48	1.99	1.90	-89.88	1.78	-830.61	830.62	826.73	3.89	213.491						
637.21	637.21	638.25	638.21	2.12	2.02	-89.86	1.97	-830.55	830.55	826.41	4.14	200.508	CC					
700.00	700.00	696.23	696.18	2.34	2.22	-89.86	2.06	-830.73	830.74	826.18	4.56	182.097	ES					
800.00	800.00	791.54	791.49	2.69	2.55	-89.88	1.78	-831.63	831.68	826.45	5.24	158.791						
900.00	900.00	890.37	890.30	3.04	2.89	-89.91	1.36	-832.78	832.85	826.93	5.93	140.490						
1,000.00	1,000.00	989.39	989.32	3.40	3.23	-89.93	0.98	-834.18	834.27	827.64	6.62	125.931						
1,100.00	1,100.00	1,089.35	1,089.27	3.75	3.58	-89.96	0.56	-835.54	835.62	828.30	7.33	114.032						
1,200.00	1,200.00	1,194.66	1,194.57	4.11	3.95	-89.98	0.24	-836.84	836.86	828.81	8.05	103.903						
1,300.00	1,300.00	1,296.65	1,296.56	4.46	4.31	-89.97	0.39	-837.39	837.40	828.63	8.77	95.463						
1,400.00	1,400.00	1,397.16	1,397.07	4.82	4.66	-89.98	0.27	-837.90	837.91	828.43	9.48	88.365						
1,500.00	1,500.00	1,496.85	1,496.75	5.18	5.02	-89.99	0.10	-838.36	838.37	828.18	10.19	82.274						
1,600.00	1,600.00	1,591.02	1,590.92	5.53	5.35	-89.95	0.76	-839.05	839.11	828.23	10.88	77.118						
1,700.00	1,700.00	1,686.54	1,686.42	5.89	5.69	-89.84	2.32	-840.57	840.70	829.12	11.58	72.610						
1,800.00	1,800.00	1,786.27	1,786.12	6.25	6.05	-89.74	3.76	-842.32	842.46	830.17	12.29	68.539						
1,900.00	1,900.00	1,889.03	1,888.86	6.61	6.42	-89.68	4.74	-844.02	844.12	831.10	13.02	64.849						
2,000.00	2,000.00	1,989.63	1,989.45	6.96	6.78	-89.66	5.06	-845.38	845.47	831.74	13.73	61.565						
2,100.00	2,099.99	2,088.40	2,088.21	7.31	7.13	174.87	5.02	-846.79	847.77	833.34	14.43	58.743						
2,200.00	2,199.96	2,185.45	2,185.25	7.65	7.47	174.88	5.10	-848.40	852.04	836.92	15.12	56.365						
2,300.00	2,299.86	2,285.13	2,284.91	7.99	7.83	174.93	5.53	-850.26	858.25	842.44	15.81	54.274						
2,399.87	2,399.54	2,385.68	2,385.44	8.34	8.19	174.98	5.82	-852.07	866.12	849.61	16.51	52.447						
2,500.00	2,499.43	2,487.41	2,487.16	8.69	8.56	175.02	5.87	-853.73	874.70	857.48	17.22	50.793						
2,600.00	2,599.19	2,584.82	2,584.55	9.03	8.90	175.07	5.98	-855.36	883.32	865.40	17.91	49.314						
2,700.00	2,698.94	2,683.46	2,683.18	9.39	9.26	175.13	6.33	-857.16	892.08	873.47	18.61	47.937						
2,800.00	2,798.70	2,782.73	2,782.43	9.74	9.61	175.20	6.98	-859.06	900.95	881.64	19.31	46.654						
2,900.00	2,898.46	2,883.88	2,883.55	10.09	9.98	175.30	7.97	-860.89	909.72	889.70	20.02	45.438						
3,000.00	2,998.21	2,984.56	2,984.22	10.45	10.34	175.40	8.99	-862.58	918.35	897.62	20.73	44.301						
3,100.00	3,097.97	3,085.27	3,084.91	10.80	10.70	175.51	10.24	-864.14	926.87	905.43	21.44	43.232						
3,200.00	3,197.73	3,186.95	3,186.57	11.16	11.06	175.64	11.88	-865.56	935.24	913.09	22.15	42.217						
3,300.00	3,297.48	3,289.64	3,289.22	11.52	11.43	175.80	13.95	-866.69	943.34	920.47	22.87	41.248						
3,400.00	3,397.24	3,388.86	3,388.42	11.88	11.78	175.97	16.18	-867.62	951.29	927.71	23.57	40.354						
3,500.00	3,497.00	3,489.52	3,489.04	12.24	12.14	176.14	18.55	-868.55	959.23	934.94	24.28	39.502						
3,600.00	3,596.75	3,586.62	3,586.11	12.60	12.49	176.31	21.02	-869.56	967.29	942.31	24.98	38.723						
3,700.00	3,696.51	3,693.98	3,693.43	12.96	12.87	176.52	24.10	-870.25	974.98	949.27	25.72	37.914						
3,800.00	3,796.27	3,794.83	3,794.23	13.32	13.22	176.69	26.71	-870.55	982.34	955.91	26.43	37.173						
3,900.00	3,896.02	3,899.23	3,898.61	13.68	13.59	176.86	29.19	-870.57	989.41	962.26	27.15	36.443						
4,000.00	3,995.78	4,005.85	4,005.18	14.04	13.96	177.05	32.00	-869.92	995.88	968.00	27.88	35.724						
4,100.00	4,095.54	4,111.62	4,110.94	14.40	14.32	177.17	33.63	-868.61	1,001.68	973.08	28.60	35.028						
4,200.00	4,195.29	4,215.93	4,215.21	14.77	14.68	177.31	35.69	-866.77	1,006.98	977.67	29.31	34.356						
4,300.00	4,295.05	4,303.08	4,302.31	15.13	14.99	177.47	38.24	-865.33	1,012.48	982.51	29.97	33.782						
4,400.00	4,394.81	4,401.45	4,400.62	15.49	15.33	177.68	41.67	-864.98	1,019.27	988.60	30.67	33.230						
4,500.00	4,494.56	4,566.78	4,565.75	15.86	15.89	177.86	43.93	-858.66	1,022.46	990.90	31.56	32.401						
4,600.00	4,594.32	4,674.20	4,672.88	16.22	16.25	177.83	42.80	-850.90	1,022.15	989.89	32.26	31.685						
4,700.00	4,694.08	4,796.19	4,794.43	16.59	16.66	177.79	41.15	-840.73	1,020.77	987.79	32.98	30.950						
4,800.00	4,793.83	4,913.49	4,911.03	16.95	17.05	177.66	37.69	-828.42	1,017.07	983.38	33.69	30.193						
4,900.00	4,893.59	5,004.30	5,001.27	17.32	17.36	177.53	34.59	-818.71	1,013.14	978.77	34.37	29.479						
5,000.00	4,993.35	5,082.26	5,078.86	17.68	17.62	177.42	32.15	-811.49	1,010.68	975.65	35.03	28.848						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
5,100.00	5,093.10	5,177.72	5,173.99	18.05	17.95	177.32	29.70	-804.01	1,009.68	973.96	35.72	28.264				
5,163.75	5,156.70	5,231.90	5,228.00	18.28	18.11	177.27	28.36	-799.86	1,009.20	973.08	36.12	27.940				
5,200.00	5,192.86	5,255.06	5,251.10	18.42	18.15	177.25	27.91	-798.42	1,009.44	973.13	36.31	27.803				
5,300.00	5,292.62	5,346.85	5,342.76	18.78	18.17	177.18	26.15	-793.79	1,011.27	974.58	36.69	27.564				
5,400.00	5,392.37	5,443.42	5,439.19	19.15	18.18	177.06	23.56	-789.42	1,013.59	976.53	37.06	27.351				
5,500.00	5,492.13	5,536.57	5,532.20	19.52	18.20	176.89	19.94	-785.59	1,016.28	978.84	37.44	27.147				
5,600.00	5,591.89	5,625.90	5,621.37	19.88	18.23	176.66	15.47	-782.78	1,019.91	982.09	37.82	26.968				
5,700.00	5,691.64	5,715.10	5,710.38	20.25	18.25	176.38	10.03	-780.97	1,024.63	986.42	38.21	26.819				
5,800.00	5,791.40	5,804.23	5,799.29	20.62	18.29	176.06	3.84	-780.07	1,030.38	991.78	38.59	26.699				
5,900.00	5,891.16	5,894.64	5,889.48	20.98	18.32	175.74	-2.41	-780.10	1,037.18	998.20	38.98	26.605				
6,000.00	5,990.91	5,986.95	5,981.59	21.35	18.37	175.43	-8.56	-780.76	1,044.73	1,005.35	39.38	26.528				
6,100.00	6,090.67	6,076.89	6,071.35	21.72	18.42	175.16	-13.90	-782.12	1,053.11	1,013.33	39.78	26.473				
6,200.00	6,190.42	6,167.07	6,161.40	22.09	18.47	174.94	-18.40	-784.36	1,062.49	1,022.30	40.18	26.442				
6,300.00	6,290.18	6,260.64	6,254.86	22.45	18.53	174.78	-21.94	-787.25	1,072.49	1,031.90	40.59	26.421				
6,400.00	6,389.94	6,351.06	6,345.18	22.82	18.59	174.70	-24.09	-790.69	1,083.22	1,042.22	41.00	26.420				
6,500.00	6,489.69	6,439.62	6,433.64	23.19	18.66	174.68	-25.08	-794.84	1,094.83	1,053.43	41.40	26.443				
6,600.00	6,589.45	6,523.55	6,517.42	23.56	18.72	174.67	-25.75	-799.79	1,107.64	1,065.85	41.79	26.504				
6,700.00	6,689.21	6,603.65	6,597.29	23.93	18.79	174.66	-26.44	-805.75	1,121.98	1,079.82	42.16	26.610				
6,800.00	6,788.96	6,681.52	6,674.83	24.29	18.86	174.65	-27.15	-812.90	1,138.07	1,095.54	42.52	26.764				
6,900.00	6,888.72	6,772.65	6,765.44	24.66	18.94	174.63	-28.10	-822.62	1,155.59	1,112.65	42.94	26.911				
7,000.00	6,988.48	6,874.80	6,866.99	25.03	19.05	174.60	-29.33	-833.50	1,173.11	1,129.69	43.42	27.020				
7,100.00	7,088.23	6,982.37	6,974.01	25.40	19.17	174.56	-30.78	-844.35	1,190.09	1,146.16	43.92	27.094				
7,200.00	7,187.99	7,088.35	7,079.52	25.77	19.29	174.53	-32.15	-854.28	1,206.34	1,161.91	44.43	27.151				
7,300.00	7,287.75	7,173.34	7,164.09	26.14	19.40	174.50	-33.33	-862.50	1,222.89	1,178.05	44.85	27.268				
7,400.00	7,387.50	7,254.04	7,244.30	26.50	19.51	174.47	-34.52	-871.29	1,240.66	1,195.42	45.24	27.422				
7,500.00	7,487.26	7,350.15	7,339.72	26.87	19.65	174.43	-36.07	-882.69	1,259.39	1,213.67	45.72	27.545				
7,600.00	7,587.02	7,451.48	7,440.35	27.24	19.80	174.38	-37.71	-894.52	1,277.93	1,231.70	46.23	27.642				
7,700.00	7,686.77	7,553.72	7,541.90	27.61	19.96	174.34	-39.43	-906.18	1,296.21	1,249.45	46.75	27.725				
7,800.00	7,786.53	7,660.32	7,647.86	27.98	20.14	174.30	-41.09	-917.85	1,314.03	1,266.73	47.30	27.780				
7,900.00	7,886.29	7,764.36	7,751.32	28.35	20.32	174.25	-42.89	-928.55	1,331.19	1,283.35	47.84	27.825				
8,000.00	7,986.04	7,851.72	7,838.17	28.72	20.48	174.21	-44.50	-937.88	1,348.75	1,300.45	48.30	27.922				
8,100.00	8,085.80	7,956.61	7,942.42	29.09	20.67	174.15	-46.72	-949.26	1,366.48	1,317.62	48.86	27.967				
8,200.00	8,185.56	8,060.14	8,045.39	29.46	20.87	174.09	-48.99	-959.75	1,383.50	1,334.08	49.42	27.997				
8,300.00	8,285.31	8,152.18	8,136.87	29.83	21.05	174.02	-51.28	-969.54	1,401.02	1,351.10	49.92	28.066				
8,400.00	8,385.07	8,257.02	8,241.14	30.20	21.27	173.94	-54.07	-980.20	1,418.07	1,367.58	50.49	28.086				
8,500.00	8,484.83	8,352.27	8,335.83	30.56	21.47	173.87	-56.64	-990.19	1,435.45	1,384.43	51.02	28.136				
8,600.00	8,584.58	8,450.59	8,433.59	30.93	21.68	173.79	-59.51	-1,000.24	1,452.58	1,401.01	51.57	28.169				
8,700.00	8,684.34	8,549.28	8,531.66	31.30	21.90	173.70	-62.81	-1,010.76	1,470.15	1,418.03	52.12	28.206				
8,800.00	8,784.10	8,659.49	8,641.26	31.67	22.15	173.58	-66.67	-1,021.70	1,487.00	1,434.26	52.74	28.194				
8,900.00	8,883.85	8,762.13	8,743.37	32.04	22.39	173.47	-70.46	-1,031.40	1,503.38	1,450.06	53.33	28.193				
9,000.00	8,983.61	8,880.66	8,861.35	32.41	22.66	173.35	-74.95	-1,041.82	1,519.15	1,465.16	53.99	28.138				
9,100.00	9,083.37	9,006.35	8,986.63	32.78	22.96	173.21	-79.71	-1,050.83	1,533.29	1,478.60	54.68	28.039				
9,200.00	9,183.12	9,123.07	9,103.09	33.15	23.23	173.09	-84.06	-1,057.35	1,545.84	1,490.50	55.34	27.935				
9,300.00	9,282.88	9,227.59	9,207.42	33.52	23.48	173.00	-87.61	-1,062.53	1,557.78	1,501.84	55.94	27.847				
9,400.00	9,382.64	9,341.18	9,320.84	33.89	23.74	172.92	-90.88	-1,067.60	1,569.24	1,512.66	56.58	27.734				
9,428.07	9,410.64	9,372.75	9,352.38	33.99	23.82	172.90	-91.72	-1,068.80	1,572.26	1,515.50	56.76	27.700				
9,500.00	9,482.43	9,452.46	9,432.01	34.26	24.01	172.86	-93.76	-1,071.56	1,579.11	1,521.89	57.21	27.600				
9,600.00	9,582.36	9,578.28	9,557.76	34.62	24.30	172.78	-96.90	-1,074.52	1,585.29	1,527.39	57.90	27.382				
9,694.65	9,677.00	9,696.81	9,676.24	34.95	24.58	-91.85	-100.21	-1,075.44	1,587.27	1,528.74	58.52	27.122				
9,700.00	9,682.35	9,703.51	9,682.94	34.97	24.59	-91.86	-100.39	-1,075.44	1,587.27	1,528.71	58.56	27.106				
9,800.00	9,782.35	9,814.94	9,794.33	35.31	24.84	-91.96	-103.32	-1,074.88	1,586.85	1,527.68	59.17	26.820				
9,900.00	9,882.35	9,942.78	9,922.09	35.65	25.13	-92.10	-107.07	-1,072.63	1,585.16	1,525.35	59.81	26.502				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,000.00	9,982.35	10,043.93	10,023.15	35.99	25.36	-92.23	-110.47	-1,069.92	1,582.62	1,522.22	60.39	26.205		
10,044.69	10,027.04	10,086.16	10,065.34	36.14	25.45	-92.28	-111.77	-1,068.84	1,581.53	1,520.88	60.65	26.078		
10,050.00	10,032.35	10,091.17	10,070.35	36.16	25.46	-91.87	-111.91	-1,068.72	1,581.40	1,520.73	60.68	26.063		
10,100.00	10,082.26	10,138.39	10,117.53	36.32	25.57	-92.12	-113.22	-1,067.60	1,580.37	1,519.41	60.96	25.926		
10,150.00	10,131.76	10,185.16	10,164.28	36.49	25.68	-92.48	-114.48	-1,066.57	1,579.60	1,518.36	61.24	25.795		
10,200.00	10,180.46	10,231.04	10,210.13	36.65	25.78	-92.94	-115.67	-1,065.63	1,579.17	1,517.66	61.51	25.673		
10,224.90	10,204.29	10,253.46	10,232.54	36.73	25.84	-93.20	-116.23	-1,065.20	1,579.11	1,517.47	61.65	25.616		
10,250.00	10,227.98	10,275.73	10,254.80	36.81	25.89	-93.48	-116.76	-1,064.79	1,579.18	1,517.40	61.78	25.561		
10,300.00	10,273.98	10,322.13	10,301.19	36.95	26.00	-94.12	-117.83	-1,063.97	1,579.71	1,517.66	62.05	25.459		
10,350.00	10,318.11	10,369.18	10,348.21	37.09	26.11	-94.85	-118.99	-1,063.04	1,580.81	1,518.49	62.32	25.367		
10,400.00	10,360.01	10,413.74	10,392.74	37.21	26.21	-95.58	-120.16	-1,062.06	1,582.62	1,520.05	62.57	25.292		
10,450.00	10,399.38	10,455.48	10,434.45	37.32	26.31	-96.27	-121.31	-1,061.05	1,585.35	1,522.53	62.82	25.237		
10,500.00	10,435.92	10,493.97	10,472.91	37.42	26.40	-96.87	-122.41	-1,060.03	1,589.18	1,526.13	63.05	25.204		
10,550.00	10,469.35	10,528.72	10,507.64	37.51	26.48	-97.31	-123.45	-1,059.04	1,594.31	1,531.03	63.27	25.197		
10,600.00	10,499.41	10,559.67	10,538.55	37.59	26.56	-97.56	-124.43	-1,058.11	1,600.90	1,537.42	63.48	25.220		
10,650.00	10,525.87	10,586.54	10,565.40	37.66	26.62	-97.57	-125.31	-1,057.26	1,609.10	1,545.43	63.67	25.274		
10,700.00	10,548.54	10,608.63	10,587.47	37.74	26.67	-97.29	-126.05	-1,056.54	1,619.01	1,555.17	63.84	25.361		
10,750.00	10,567.24	10,626.56	10,605.38	37.84	26.72	-96.71	-126.66	-1,055.94	1,630.69	1,566.70	63.99	25.483		
10,800.00	10,581.83	10,640.09	10,618.89	37.97	26.75	-95.79	-127.13	-1,055.47	1,644.15	1,580.03	64.13	25.640		
10,850.00	10,592.19	10,649.13	10,627.92	38.11	26.77	-94.53	-127.44	-1,055.16	1,659.36	1,595.12	64.24	25.831		
10,900.00	10,598.26	10,653.63	10,632.41	38.25	26.78	-92.90	-127.60	-1,055.01	1,676.20	1,611.87	64.33	26.055		
10,944.69	10,600.00	10,653.80	10,632.58	38.39	26.78	-91.15	-127.61	-1,055.00	1,692.54	1,628.15	64.40	26.283		
11,000.00	10,600.00	10,651.76	10,630.54	38.56	26.78	-91.08	-127.53	-1,055.07	1,714.22	1,649.75	64.47	26.589		
11,100.00	10,600.00	10,648.09	10,626.88	38.91	26.77	-90.95	-127.41	-1,055.20	1,757.16	1,692.55	64.61	27.196		
11,200.00	10,600.00	10,644.44	10,623.24	39.31	26.76	-90.81	-127.28	-1,055.32	1,804.61	1,739.85	64.76	27.866		
11,300.00	10,600.00	10,640.82	10,619.62	39.76	26.75	-90.68	-127.15	-1,055.45	1,856.24	1,791.33	64.91	28.595		
11,400.00	10,600.00	10,637.22	10,616.02	40.25	26.74	-90.55	-127.03	-1,055.57	1,911.70	1,846.63	65.07	29.378		
11,500.00	10,600.00	12,289.86	11,290.40	40.79	35.56	-110.84	1,062.31	-1,308.55	1,938.10	1,865.15	72.96	26.565		
11,600.00	10,600.00	12,392.41	11,290.50	41.37	36.78	-110.84	1,164.85	-1,309.30	1,938.13	1,863.46	74.67	25.956		
11,700.00	10,600.00	12,496.14	11,290.24	41.99	38.07	-110.83	1,268.57	-1,310.14	1,938.11	1,861.62	76.50	25.336		
11,800.00	10,600.00	12,602.50	11,289.08	42.65	39.47	-110.80	1,374.93	-1,311.02	1,937.81	1,859.36	78.45	24.701		
11,861.28	10,600.00	12,654.78	11,288.84	43.08	40.18	-110.79	1,427.21	-1,311.39	1,937.69	1,858.14	79.55	24.357		
11,900.00	10,600.00	12,688.66	11,288.79	43.35	40.64	-110.79	1,461.08	-1,311.70	1,937.74	1,857.48	80.26	24.143		
12,000.00	10,600.00	12,784.24	11,288.73	44.09	41.97	-110.78	1,556.65	-1,312.80	1,938.11	1,855.86	82.25	23.565		
12,100.00	10,600.00	12,868.40	11,288.58	44.86	43.19	-110.77	1,640.81	-1,314.28	1,939.00	1,854.83	84.17	23.037		
12,200.00	10,600.00	12,952.94	11,288.27	45.67	44.44	-110.75	1,725.31	-1,316.55	1,940.69	1,854.53	86.16	22.525		
12,300.00	10,600.00	13,039.99	11,287.83	46.50	45.76	-110.71	1,812.31	-1,319.62	1,943.13	1,854.89	88.24	22.022		
12,400.00	10,600.00	13,154.42	11,287.44	47.37	47.53	-110.66	1,926.66	-1,323.75	1,945.73	1,854.99	90.73	21.444		
12,500.00	10,600.00	13,230.17	11,287.87	48.26	48.72	-110.65	2,002.37	-1,326.20	1,948.28	1,855.53	92.75	21.006		
12,600.00	10,600.00	13,323.24	11,290.16	49.18	50.21	-110.69	2,095.35	-1,329.65	1,951.92	1,856.89	95.03	20.540		
12,700.00	10,600.00	13,405.02	11,291.66	50.13	51.53	-110.70	2,177.04	-1,333.07	1,955.83	1,858.63	97.20	20.122		
12,800.00	10,600.00	13,482.93	11,292.61	51.10	52.82	-110.69	2,254.81	-1,337.60	1,961.00	1,861.65	99.35	19.738		
12,900.00	10,600.00	13,589.48	11,293.72	52.09	54.60	-110.65	2,361.12	-1,344.63	1,966.87	1,864.88	101.99	19.285		
13,000.00	10,600.00	13,709.56	11,292.38	53.10	56.63	-110.55	2,480.98	-1,351.91	1,971.43	1,866.53	104.91	18.792		
13,100.00	10,600.00	13,811.99	11,291.47	54.14	58.38	-110.47	2,583.24	-1,357.61	1,975.65	1,868.07	107.58	18.365		
13,200.00	10,600.00	13,971.66	11,289.49	55.19	61.11	-110.38	2,742.79	-1,363.25	1,977.56	1,866.41	111.15	17.791		
13,300.00	10,600.00	14,066.51	11,287.66	56.26	62.74	-110.31	2,837.58	-1,365.91	1,978.83	1,865.07	113.76	17.394		
13,400.00	10,600.00	14,160.73	11,286.39	57.35	64.37	-110.25	2,931.75	-1,368.64	1,980.39	1,864.00	116.39	17.015		
13,500.00	10,600.00	14,249.78	11,285.90	58.45	65.92	-110.22	3,020.76	-1,371.30	1,982.32	1,863.37	118.95	16.665		
13,600.00	10,600.00	14,327.99	11,285.84	59.57	67.29	-110.19	3,098.92	-1,374.13	1,985.03	1,863.68	121.35	16.358		
13,700.00	10,600.00	14,405.47	11,287.21	60.71	68.66	-110.20	3,176.31	-1,377.60	1,989.11	1,865.37	123.74	16.075		
13,800.00	10,600.00	14,514.72	11,290.21	61.85	70.59	-110.25	3,285.43	-1,381.96	1,993.09	1,866.44	126.65	15.737		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
13,900.00	10,600.00	14,601.26	11,293.32	63.01	72.13	-110.30	3,371.84	-1,385.57	1,997.55	1,868.36	129.19	15.462		
14,000.00	10,600.00	14,719.44	11,296.34	64.18	74.25	-110.34	3,489.85	-1,390.86	2,001.97	1,869.68	132.29	15.133		
14,100.00	10,600.00	14,832.72	11,296.90	65.37	76.29	-110.32	3,603.04	-1,395.38	2,005.17	1,869.81	135.36	14.814		
14,200.00	10,600.00	14,935.53	11,297.73	66.56	78.14	-110.31	3,705.78	-1,399.19	2,008.24	1,869.98	138.26	14.525		
14,300.00	10,600.00	15,026.94	11,298.51	67.76	79.79	-110.30	3,797.13	-1,402.60	2,011.35	1,870.36	140.99	14.266		
14,400.00	10,600.00	15,148.51	11,298.04	68.98	82.00	-110.25	3,918.59	-1,407.61	2,014.43	1,870.17	144.27	13.963		
14,500.00	10,600.00	15,253.22	11,296.19	70.20	83.91	-110.17	4,023.21	-1,411.51	2,016.63	1,869.34	147.29	13.691		
14,600.00	10,600.00	15,350.21	11,294.25	71.43	85.68	-110.09	4,120.11	-1,415.10	2,018.73	1,868.53	150.21	13.440		
14,700.00	10,600.00	15,435.15	11,292.65	72.67	87.24	-110.02	4,204.97	-1,418.67	2,021.35	1,868.42	152.93	13.218		
14,800.00	10,600.00	15,528.86	11,290.94	73.92	88.96	-109.94	4,298.55	-1,423.12	2,024.50	1,868.68	155.82	12.993		
14,900.00	10,600.00	15,629.68	11,289.03	75.17	90.83	-109.85	4,399.23	-1,428.03	2,027.74	1,868.89	158.85	12.765		
15,000.00	10,600.00	15,722.07	11,288.44	76.44	92.53	-109.80	4,491.53	-1,432.29	2,031.18	1,869.46	161.72	12.560		
15,100.00	10,600.00	15,812.55	11,288.85	77.70	94.21	-109.77	4,581.90	-1,436.53	2,035.05	1,870.50	164.54	12.368		
15,200.00	10,600.00	15,916.73	11,289.69	78.98	96.14	-109.76	4,685.96	-1,441.40	2,039.03	1,871.41	167.61	12.165		
15,300.00	10,600.00	15,977.00	11,290.28	80.26	97.26	-109.75	4,746.17	-1,444.12	2,043.30	1,873.43	169.87	12.028		
15,400.00	10,600.00	15,977.00	11,290.28	81.55	97.26	-109.75	4,746.17	-1,444.12	2,051.55	1,880.78	170.77	12.014 SF		
15,484.47	10,600.00	15,977.00	11,290.28	82.64	97.26	-109.75	4,746.17	-1,444.12	2,062.27	1,891.02	171.26	12.042		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.00	1.00	0.50	0.00	-90.33	-4.82	-831.57	831.59					
100.00	100.00	100.82	100.82	0.52	0.14	-90.32	-4.59	-831.58	831.60	830.93	0.66	1,257.292		
200.00	200.00	204.20	204.19	0.70	0.47	-90.26	-3.82	-831.44	831.45	830.28	1.17	710.440		
300.00	300.00	303.60	303.59	0.99	0.82	-90.18	-2.55	-831.02	831.02	829.21	1.81	458.670		
400.00	400.00	401.25	401.23	1.31	1.17	-90.07	-0.95	-830.89	830.89	828.41	2.48	334.516		
500.00	500.00	501.52	501.48	1.65	1.53	-89.94	0.80	-830.86	830.87	827.68	3.18	261.211		
600.00	600.00	603.53	603.48	1.99	1.90	-89.88	1.78	-830.61	830.62	826.73	3.89	213.491		
637.21	637.21	638.25	638.21	2.12	2.02	-89.86	1.97	-830.55	830.55	826.41	4.14	200.508 CC		
700.00	700.00	696.23	696.18	2.34	2.22	-89.86	2.06	-830.73	830.74	826.18	4.56	182.097 ES		
800.00	800.00	791.54	791.49	2.69	2.55	-89.88	1.78	-831.63	831.68	826.45	5.24	158.791		
900.00	900.00	890.37	890.30	3.04	2.89	-89.91	1.36	-832.78	832.85	826.93	5.93	140.490		
1,000.00	1,000.00	989.39	989.32	3.40	3.23	-89.93	0.98	-834.18	834.27	827.64	6.62	125.931		
1,100.00	1,100.00	1,089.35	1,089.27	3.75	3.58	-89.96	0.56	-835.54	835.62	828.30	7.33	114.032		
1,200.00	1,200.00	1,194.66	1,194.57	4.11	3.95	-89.98	0.24	-836.84	836.86	828.81	8.05	103.903		
1,300.00	1,300.00	1,296.65	1,296.56	4.46	4.31	-89.97	0.39	-837.39	837.40	828.63	8.77	95.463		
1,400.00	1,400.00	1,397.16	1,397.07	4.82	4.66	-89.98	0.27	-837.90	837.91	828.43	9.48	88.365		
1,500.00	1,500.00	1,496.85	1,496.75	5.18	5.02	-89.99	0.10	-838.36	838.37	828.18	10.19	82.274		
1,600.00	1,600.00	1,591.02	1,590.92	5.53	5.35	-89.95	0.76	-839.05	839.11	828.23	10.88	77.118		
1,700.00	1,700.00	1,686.54	1,686.42	5.89	5.69	-89.84	2.32	-840.57	840.70	829.12	11.58	72.610		
1,800.00	1,800.00	1,786.27	1,786.12	6.25	6.05	-89.74	3.76	-842.32	842.46	830.17	12.29	68.539		
1,900.00	1,900.00	1,889.03	1,888.86	6.61	6.42	-89.68	4.74	-844.02	844.12	831.10	13.02	64.849		
2,000.00	2,000.00	1,989.63	1,989.45	6.96	6.78	-89.66	5.06	-845.38	845.47	831.74	13.73	61.565		
2,100.00	2,099.99	2,088.40	2,088.21	7.31	7.13	174.87	5.02	-846.79	847.77	833.34	14.43	58.743		
2,200.00	2,199.96	2,185.45	2,185.25	7.65	7.47	174.88	5.10	-848.40	852.04	836.92	15.12	56.365		
2,300.00	2,299.86	2,285.13	2,284.91	7.99	7.83	174.93	5.53	-850.26	858.25	842.44	15.81	54.274		
2,399.87	2,399.54	2,385.68	2,385.44	8.34	8.19	174.98	5.82	-852.07	866.12	849.61	16.51	52.447		
2,500.00	2,499.43	2,487.41	2,487.16	8.69	8.56	175.02	5.87	-853.73	874.70	857.48	17.22	50.793		
2,600.00	2,599.19	2,584.82	2,584.55	9.03	8.90	175.07	5.98	-855.36	883.32	865.40	17.91	49.314		
2,700.00	2,698.94	2,683.46	2,683.18	9.39	9.26	175.13	6.33	-857.16	892.08	873.47	18.61	47.937		
2,800.00	2,798.70	2,782.73	2,782.43	9.74	9.61	175.20	6.98	-859.06	900.95	881.64	19.31	46.654		
2,900.00	2,898.46	2,883.88	2,883.55	10.09	9.98	175.30	7.97	-860.89	909.72	889.70	20.02	45.438		
3,000.00	2,998.21	2,984.56	2,984.22	10.45	10.34	175.40	8.99	-862.58	918.35	897.62	20.73	44.301		
3,100.00	3,097.97	3,085.27	3,084.91	10.80	10.70	175.51	10.24	-864.14	926.87	905.43	21.44	43.232		
3,200.00	3,197.73	3,186.95	3,186.57	11.16	11.06	175.64	11.88	-865.56	935.24	913.09	22.15	42.217		
3,300.00	3,297.48	3,289.64	3,289.22	11.52	11.43	175.80	13.95	-866.69	943.34	920.47	22.87	41.248		
3,400.00	3,397.24	3,388.86	3,388.42	11.88	11.78	175.97	16.18	-867.62	951.29	927.71	23.57	40.354		
3,500.00	3,497.00	3,489.52	3,489.04	12.24	12.14	176.14	18.55	-868.55	959.23	934.94	24.28	39.502		
3,600.00	3,596.75	3,586.62	3,586.11	12.60	12.49	176.31	21.02	-869.56	967.29	942.31	24.98	38.723		
3,700.00	3,696.51	3,693.98	3,693.43	12.96	12.87	176.52	24.10	-870.25	974.98	949.27	25.72	37.914		
3,800.00	3,796.27	3,794.83	3,794.23	13.32	13.22	176.69	26.71	-870.55	982.34	955.91	26.43	37.173		
3,900.00	3,896.02	3,899.23	3,898.61	13.68	13.59	176.86	29.19	-870.57	989.41	962.26	27.15	36.443		
4,000.00	3,995.78	4,005.85	4,005.18	14.04	13.96	177.05	32.00	-869.92	995.88	968.00	27.88	35.724		
4,100.00	4,095.54	4,111.62	4,110.94	14.40	14.32	177.17	33.63	-868.61	1,001.68	973.08	28.60	35.028		
4,200.00	4,195.29	4,215.93	4,215.21	14.77	14.68	177.31	35.69	-866.77	1,006.98	977.67	29.31	34.356		
4,300.00	4,295.05	4,303.08	4,302.31	15.13	14.99	177.47	38.24	-865.33	1,012.48	982.51	29.97	33.782		
4,400.00	4,394.81	4,401.45	4,400.62	15.49	15.33	177.68	41.67	-864.98	1,019.27	988.60	30.67	33.230		
4,500.00	4,494.56	4,566.78	4,565.75	15.86	15.89	177.86	43.93	-858.66	1,022.46	990.90	31.56	32.401		
4,600.00	4,594.32	4,674.20	4,672.88	16.22	16.25	177.83	42.80	-850.90	1,022.15	989.89	32.26	31.685		
4,700.00	4,694.08	4,796.19	4,794.43	16.59	16.66	177.79	41.15	-840.73	1,020.77	987.79	32.98	30.950		
4,800.00	4,793.83	4,913.49	4,911.03	16.95	17.05	177.66	37.69	-828.42	1,017.07	983.38	33.69	30.193		
4,900.00	4,893.59	5,004.30	5,001.27	17.32	17.36	177.53	34.59	-818.71	1,013.14	978.77	34.37	29.479		
5,000.00	4,993.35	5,082.26	5,078.86	17.68	17.62	177.42	32.15	-811.49	1,010.68	975.65	35.03	28.848		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,094.31	5,087.42	5,162.44	5,158.78	18.03	17.80	177.34	30.18	-805.47	1,010.05	974.48	35.57	28.396		
5,100.00	5,093.10	5,167.32	5,163.65	18.05	17.81	177.34	30.08	-805.13	1,010.05	974.45	35.60	28.372		
5,200.00	5,192.86	5,253.01	5,249.16	18.42	17.96	177.27	28.43	-799.91	1,010.84	974.72	36.12	27.984		
5,300.00	5,292.62	5,346.83	5,342.84	18.78	17.99	177.20	26.64	-795.19	1,012.68	976.18	36.51	27.739		
5,400.00	5,392.37	5,443.38	5,439.27	19.15	18.01	177.09	24.05	-790.81	1,015.00	978.12	36.88	27.521		
5,500.00	5,492.13	5,536.54	5,532.27	19.52	18.03	176.91	20.44	-786.98	1,017.69	980.43	37.26	27.310		
5,600.00	5,591.89	5,625.86	5,621.44	19.88	18.05	176.69	15.96	-784.17	1,021.32	983.67	37.65	27.126		
5,700.00	5,691.64	5,715.05	5,710.44	20.25	18.09	176.41	10.52	-782.36	1,026.04	988.00	38.04	26.973		
5,800.00	5,791.40	5,804.17	5,799.34	20.62	18.12	176.09	4.33	-781.47	1,031.78	993.35	38.43	26.847		
5,900.00	5,891.16	5,894.56	5,889.51	20.98	18.16	175.77	-1.91	-781.49	1,038.58	999.76	38.83	26.749		
6,000.00	5,990.91	5,986.87	5,981.61	21.35	18.21	175.45	-8.07	-782.15	1,046.13	1,006.90	39.23	26.668		
6,100.00	6,090.67	6,076.79	6,071.37	21.72	18.26	175.19	-13.41	-783.51	1,054.51	1,014.88	39.63	26.609		
6,200.00	6,190.42	6,166.95	6,161.39	22.09	18.32	174.97	-17.91	-785.75	1,063.88	1,023.84	40.03	26.574		
6,300.00	6,290.18	6,260.52	6,254.84	22.45	18.38	174.81	-21.44	-788.64	1,073.88	1,033.43	40.45	26.548		
6,400.00	6,389.94	6,350.92	6,345.15	22.82	18.45	174.73	-23.59	-792.08	1,084.61	1,043.75	40.86	26.544		
6,500.00	6,489.69	6,439.47	6,433.60	23.19	18.52	174.70	-24.59	-796.23	1,096.21	1,054.95	41.27	26.564		
6,600.00	6,589.45	6,523.40	6,517.37	23.56	18.59	174.69	-25.26	-801.17	1,109.02	1,067.36	41.66	26.621		
6,700.00	6,689.21	6,603.47	6,597.23	23.93	18.66	174.68	-25.95	-807.12	1,123.36	1,081.33	42.04	26.724		
6,800.00	6,788.96	6,681.33	6,674.75	24.29	18.73	174.67	-26.66	-814.28	1,139.44	1,097.04	42.40	26.874		
6,900.00	6,888.72	6,772.40	6,765.30	24.66	18.82	174.65	-27.61	-823.99	1,156.96	1,114.14	42.82	27.019		
7,000.00	6,988.48	6,874.54	6,866.85	25.03	18.93	174.62	-28.84	-834.86	1,174.48	1,131.18	43.30	27.124		
7,100.00	7,088.23	6,982.11	6,973.86	25.40	19.05	174.59	-30.29	-845.72	1,191.46	1,147.65	43.81	27.195		
7,200.00	7,187.99	7,088.11	7,079.38	25.77	19.18	174.55	-31.65	-855.65	1,207.72	1,163.40	44.32	27.249		
7,300.00	7,287.75	7,173.13	7,163.99	26.14	19.30	174.52	-32.83	-863.87	1,224.27	1,179.52	44.74	27.363		
7,400.00	7,387.50	7,253.83	7,244.20	26.50	19.41	174.49	-34.02	-872.65	1,242.03	1,196.89	45.14	27.514		
7,500.00	7,487.26	7,349.87	7,339.56	26.87	19.55	174.45	-35.57	-884.05	1,260.76	1,215.14	45.62	27.635		
7,600.00	7,587.02	7,451.21	7,440.19	27.24	19.71	174.41	-37.21	-895.88	1,279.30	1,233.16	46.14	27.729		
7,700.00	7,686.77	7,553.45	7,541.74	27.61	19.87	174.36	-38.94	-907.54	1,297.58	1,250.91	46.66	27.809		
7,800.00	7,786.53	7,660.05	7,647.69	27.98	20.05	174.32	-40.60	-919.21	1,315.40	1,268.19	47.21	27.861		
7,900.00	7,886.29	7,764.15	7,751.22	28.35	20.24	174.28	-42.40	-929.92	1,332.56	1,284.80	47.76	27.902		
8,000.00	7,986.04	7,851.46	7,838.02	28.72	20.40	174.23	-44.01	-939.24	1,350.12	1,301.89	48.22	27.997		
8,100.00	8,085.80	7,956.33	7,942.25	29.09	20.60	174.17	-46.22	-950.62	1,367.85	1,319.07	48.78	28.039		
8,200.00	8,185.56	8,059.94	8,045.30	29.46	20.80	174.11	-48.50	-961.12	1,384.87	1,335.52	49.34	28.066		
8,300.00	8,285.31	8,151.88	8,136.69	29.83	20.98	174.05	-50.79	-970.90	1,402.38	1,352.54	49.85	28.133		
8,400.00	8,385.07	8,256.81	8,241.04	30.20	21.20	173.97	-53.58	-981.57	1,419.43	1,369.01	50.42	28.150		
8,500.00	8,484.83	8,352.01	8,335.67	30.56	21.41	173.89	-56.15	-991.56	1,436.82	1,385.86	50.96	28.198		
8,600.00	8,584.58	8,450.39	8,433.49	30.93	21.62	173.81	-59.01	-1,001.61	1,453.95	1,402.44	51.51	28.228		
8,700.00	8,684.34	8,549.00	8,531.49	31.30	21.85	173.72	-62.31	-1,012.12	1,471.52	1,419.45	52.07	28.263		
8,800.00	8,784.10	8,659.25	8,641.13	31.67	22.10	173.60	-66.17	-1,023.07	1,488.36	1,435.67	52.69	28.249		
8,900.00	8,883.85	8,761.91	8,743.26	32.04	22.34	173.49	-69.96	-1,032.77	1,504.75	1,451.47	53.28	28.245		
9,000.00	8,983.61	8,880.40	8,861.21	32.41	22.62	173.37	-74.45	-1,043.19	1,520.52	1,466.58	53.94	28.187		
9,100.00	9,083.37	9,006.13	8,986.52	32.78	22.92	173.23	-79.21	-1,052.20	1,534.66	1,480.02	54.64	28.086		
9,200.00	9,183.12	9,122.90	9,103.02	33.15	23.20	173.11	-83.56	-1,058.73	1,547.21	1,491.91	55.30	27.980		
9,300.00	9,282.88	9,227.43	9,207.36	33.52	23.45	173.02	-87.12	-1,063.91	1,559.15	1,503.25	55.90	27.890		
9,400.00	9,382.64	9,341.00	9,320.77	33.89	23.72	172.94	-90.39	-1,068.98	1,570.61	1,514.06	56.55	27.774		
9,428.07	9,410.64	9,372.59	9,352.32	33.99	23.79	172.92	-91.23	-1,070.18	1,573.64	1,516.91	56.73	27.739		
9,500.00	9,482.43	9,452.28	9,431.94	34.26	23.98	172.88	-93.27	-1,072.94	1,580.48	1,523.29	57.19	27.638		
9,600.00	9,582.36	9,578.13	9,557.72	34.62	24.28	172.80	-96.40	-1,075.91	1,586.66	1,528.79	57.87	27.418		
9,694.65	9,677.00	9,696.70	9,676.23	34.95	24.56	-91.83	-99.72	-1,076.83	1,588.64	1,530.14	58.50	27.156		
9,700.00	9,682.35	9,703.39	9,682.93	34.97	24.58	-91.84	-99.90	-1,076.83	1,588.64	1,530.11	58.54	27.140		
9,800.00	9,782.35	9,814.85	9,794.35	35.31	24.83	-91.94	-102.83	-1,076.27	1,588.22	1,529.07	59.15	26.852		
9,900.00	9,882.35	9,942.72	9,922.14	35.65	25.12	-92.08	-106.58	-1,074.02	1,586.54	1,526.74	59.80	26.531		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,000.00	9,982.35	10,043.88	10,023.21	35.99	25.35	-92.21	-109.98	-1,071.31	1,583.99	1,523.61	60.38	26.233		
10,044.69	10,027.04	10,086.10	10,065.39	36.14	25.45	-92.26	-111.28	-1,070.23	1,582.90	1,522.26	60.64	26.105		
10,050.00	10,032.35	10,091.12	10,070.40	36.16	25.46	-91.85	-111.42	-1,070.11	1,582.78	1,522.11	60.67	26.090		
10,100.00	10,082.26	10,138.33	10,117.58	36.32	25.57	-92.10	-112.73	-1,068.99	1,581.74	1,520.79	60.95	25.952		
10,150.00	10,131.76	10,185.10	10,164.33	36.49	25.68	-92.46	-113.98	-1,067.96	1,580.97	1,519.74	61.23	25.820		
10,200.00	10,180.46	10,230.98	10,210.18	36.65	25.78	-92.92	-115.18	-1,067.02	1,580.53	1,519.03	61.51	25.698		
10,225.53	10,204.89	10,253.95	10,233.14	36.73	25.84	-93.18	-115.75	-1,066.58	1,580.47	1,518.83	61.64	25.639		
10,250.00	10,227.98	10,275.66	10,254.84	36.81	25.89	-93.46	-116.27	-1,066.18	1,580.53	1,518.76	61.77	25.585		
10,300.00	10,273.98	10,322.06	10,301.22	36.95	26.00	-94.10	-117.34	-1,065.36	1,581.06	1,519.02	62.05	25.482		
10,350.00	10,318.11	10,369.11	10,348.24	37.09	26.11	-94.83	-118.50	-1,064.44	1,582.15	1,519.83	62.31	25.390		
10,400.00	10,360.01	10,413.67	10,392.78	37.21	26.22	-95.56	-119.67	-1,063.45	1,583.95	1,521.38	62.57	25.314		
10,450.00	10,399.38	10,455.41	10,434.50	37.32	26.32	-96.25	-120.82	-1,062.44	1,586.66	1,523.84	62.82	25.258		
10,500.00	10,435.92	10,493.91	10,472.96	37.42	26.41	-96.85	-121.92	-1,061.42	1,590.48	1,527.43	63.05	25.224		
10,550.00	10,469.35	10,528.67	10,507.69	37.51	26.49	-97.29	-122.96	-1,060.43	1,595.59	1,532.32	63.27	25.217 SF		
10,600.00	10,499.41	10,559.61	10,538.61	37.59	26.57	-97.55	-123.93	-1,059.50	1,602.16	1,538.68	63.48	25.239		
10,650.00	10,525.87	10,586.49	10,565.46	37.66	26.63	-97.56	-124.81	-1,058.65	1,610.34	1,546.67	63.67	25.292		
10,700.00	10,548.54	10,608.58	10,587.53	37.74	26.68	-97.28	-125.55	-1,057.93	1,620.23	1,556.39	63.84	25.379		
10,750.00	10,567.24	10,626.52	10,605.44	37.84	26.73	-96.70	-126.17	-1,057.33	1,631.89	1,567.89	64.00	25.500		
10,800.00	10,581.83	10,640.05	10,618.95	37.97	26.76	-95.78	-126.63	-1,056.87	1,645.33	1,581.20	64.13	25.656		
10,850.00	10,592.19	10,649.08	10,627.98	38.11	26.78	-94.52	-126.95	-1,056.56	1,660.50	1,596.26	64.25	25.846		
10,900.00	10,598.26	10,653.58	10,632.47	38.25	26.79	-92.90	-127.11	-1,056.40	1,677.33	1,612.99	64.34	26.070		
10,944.69	10,600.00	10,653.75	10,632.64	38.39	26.79	-91.16	-127.11	-1,056.39	1,693.64	1,629.24	64.40	26.297		
11,000.00	10,600.00	10,651.71	10,630.61	38.56	26.79	-91.08	-127.04	-1,056.46	1,715.29	1,650.81	64.48	26.603		
11,100.00	10,600.00	10,648.05	10,626.94	38.91	26.78	-90.95	-126.91	-1,056.59	1,758.17	1,693.56	64.62	27.209		
11,200.00	10,600.00	10,644.40	10,623.30	39.31	26.77	-90.81	-126.79	-1,056.72	1,805.57	1,740.80	64.77	27.878		
11,300.00	10,600.00	10,640.78	10,619.68	39.76	26.76	-90.68	-126.66	-1,056.84	1,857.14	1,792.22	64.92	28.606		
11,400.00	10,600.00	10,637.17	10,616.08	40.25	26.75	-90.55	-126.53	-1,056.97	1,912.55	1,847.47	65.08	29.388		
11,500.00	10,600.00	10,633.59	10,612.50	40.79	26.74	-90.42	-126.41	-1,057.09	1,971.47	1,906.23	65.24	30.220		
11,600.00	10,600.00	10,630.03	10,608.94	41.37	26.74	-90.29	-126.29	-1,057.21	2,033.60	1,968.21	65.39	31.099		
11,700.00	10,600.00	10,626.48	10,605.41	41.99	26.73	-90.16	-126.17	-1,057.33	2,098.65	2,033.10	65.54	32.020		
11,800.00	10,600.00	10,622.96	10,601.89	42.65	26.72	-90.03	-126.04	-1,057.45	2,166.35	2,100.67	65.69	32.980		
11,900.00	10,600.00	10,619.46	10,598.39	43.35	26.71	-89.90	-125.92	-1,057.57	2,236.48	2,170.65	65.83	33.975		
12,000.00	10,600.00	10,615.98	10,594.91	44.09	26.70	-89.78	-125.81	-1,057.68	2,308.80	2,242.84	65.96	35.003		
12,100.00	10,600.00	10,612.51	10,591.45	44.86	26.69	-89.65	-125.69	-1,057.80	2,383.12	2,317.03	66.09	36.059		
12,200.00	10,600.00	10,609.07	10,588.01	45.67	26.68	-89.53	-125.57	-1,057.91	2,459.25	2,393.04	66.21	37.143		
12,300.00	10,600.00	10,605.65	10,584.59	46.50	26.68	-89.40	-125.46	-1,058.03	2,537.04	2,470.71	66.33	38.251		
12,400.00	10,600.00	10,602.24	10,581.19	47.37	26.67	-89.28	-125.34	-1,058.14	2,616.33	2,549.90	66.44	39.380		
12,500.00	10,600.00	10,598.86	10,577.81	48.26	26.66	-89.15	-125.23	-1,058.25	2,697.00	2,630.46	66.54	40.530		
12,600.00	10,600.00	10,595.49	10,574.45	49.18	26.65	-89.03	-125.11	-1,058.36	2,778.92	2,712.28	66.64	41.698		
12,700.00	10,600.00	10,592.14	10,571.10	50.13	26.64	-88.91	-125.00	-1,058.47	2,861.98	2,795.24	66.74	42.883		
12,800.00	10,600.00	10,588.81	10,567.78	51.10	26.64	-88.79	-124.89	-1,058.58	2,946.10	2,879.27	66.83	44.083		
12,900.00	10,600.00	10,585.50	10,564.47	52.09	26.63	-88.67	-124.78	-1,058.68	3,031.17	2,964.25	66.92	45.296		
13,000.00	10,600.00	10,582.21	10,561.18	53.10	26.62	-88.55	-124.67	-1,058.79	3,117.13	3,050.13	67.00	46.522		
13,100.00	10,600.00	10,578.96	10,557.94	54.14	26.61	-88.43	-124.56	-1,058.89	3,203.90	3,136.81	67.08	47.759		
13,200.00	10,600.00	10,575.79	10,554.77	55.19	26.60	-88.31	-124.46	-1,058.99	3,291.41	3,224.25	67.16	49.006		
13,300.00	10,600.00	10,572.65	10,551.63	56.26	26.60	-88.20	-124.36	-1,059.09	3,379.62	3,312.38	67.24	50.263		
13,400.00	10,600.00	10,569.53	10,548.51	57.35	26.59	-88.09	-124.25	-1,059.19	3,468.46	3,401.15	67.31	51.528		
13,500.00	10,600.00	10,566.44	10,545.43	58.45	26.58	-87.97	-124.15	-1,059.29	3,557.90	3,490.51	67.38	52.800		
13,600.00	10,600.00	10,563.37	10,542.37	59.57	26.57	-87.86	-124.05	-1,059.39	3,647.88	3,580.42	67.45	54.080		
13,700.00	10,600.00	10,560.34	10,539.33	60.71	26.57	-87.75	-123.96	-1,059.48	3,738.36	3,670.84	67.52	55.365		
13,800.00	10,600.00	10,557.32	10,536.32	61.85	26.56	-87.64	-123.86	-1,059.57	3,829.32	3,761.73	67.59	56.657		
13,900.00	10,600.00	10,554.34	10,533.34	63.01	26.55	-87.53	-123.76	-1,059.66	3,920.71	3,853.06	67.65	57.953		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,000.00	10,600.00	10,551.38	10,530.38	64.18	26.55	-87.43	-123.67	-1,059.76	4,012.51	3,944.80	67.72	59.254	
14,100.00	10,600.00	10,548.44	10,527.44	65.37	26.54	-87.32	-123.58	-1,059.84	4,104.70	4,036.92	67.78	60.559	
14,200.00	10,600.00	10,545.53	10,524.53	66.56	26.53	-87.21	-123.48	-1,059.93	4,197.24	4,129.39	67.84	61.867	
14,300.00	10,600.00	10,542.64	10,521.65	67.76	26.52	-87.11	-123.39	-1,060.02	4,290.11	4,222.20	67.90	63.179	
14,400.00	10,600.00	10,539.77	10,518.79	68.98	26.52	-87.01	-123.30	-1,060.11	4,383.29	4,315.33	67.96	64.494	
14,500.00	10,600.00	10,536.93	10,515.95	70.20	26.51	-86.90	-123.22	-1,060.19	4,476.77	4,408.74	68.02	65.811	
14,600.00	10,600.00	10,534.12	10,513.14	71.43	26.50	-86.80	-123.13	-1,060.27	4,570.52	4,502.43	68.08	67.130	
14,700.00	10,600.00	10,531.32	10,510.34	72.67	26.50	-86.70	-123.04	-1,060.36	4,664.52	4,596.38	68.14	68.451	
14,800.00	10,600.00	10,528.55	10,507.57	73.92	26.49	-86.60	-122.96	-1,060.44	4,758.77	4,690.57	68.20	69.774	
14,900.00	10,600.00	10,525.80	10,504.83	75.17	26.48	-86.50	-122.87	-1,060.52	4,853.25	4,784.99	68.26	71.097	
15,000.00	10,600.00	10,523.07	10,502.10	76.44	26.48	-86.40	-122.79	-1,060.60	4,947.95	4,879.62	68.32	72.422	
15,100.00	10,600.00	10,520.37	10,499.40	77.70	26.47	-86.30	-122.71	-1,060.68	5,042.84	4,974.46	68.38	73.748	
15,200.00	10,600.00	10,517.69	10,496.72	78.98	26.46	-86.21	-122.62	-1,060.75	5,137.93	5,069.49	68.44	75.074	
15,300.00	10,600.00	10,515.03	10,494.06	80.26	26.46	-86.11	-122.54	-1,060.83	5,233.20	5,164.70	68.50	76.400	
15,400.00	10,600.00	10,512.38	10,491.42	81.55	26.45	-86.01	-122.46	-1,060.90	5,328.64	5,260.09	68.56	77.727	
15,484.47	10,600.00	10,510.17	10,489.21	82.64	26.45	-85.93	-122.40	-1,060.97	5,409.39	5,340.79	68.61	78.847	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.40	1.40	0.50	0.00	-90.33	-4.46	-781.61	781.62					
100.00	100.00	94.71	94.71	0.52	0.16	-90.32	-4.34	-782.02	782.06	781.40	0.67	1,173.417		
200.00	200.00	188.01	188.00	0.70	0.31	-90.29	-3.98	-783.23	783.36	782.36	1.00	785.843		
300.00	300.00	284.82	284.79	0.99	0.60	-90.24	-3.28	-785.17	785.35	783.79	1.57	501.197		
400.00	400.00	383.83	383.77	1.31	0.95	-90.15	-2.09	-787.36	787.56	785.33	2.24	352.023		
500.00	500.00	484.84	484.74	1.65	1.31	-90.08	-1.05	-789.63	789.81	786.88	2.93	269.544		
600.00	600.00	589.20	589.08	1.99	1.68	-89.98	0.23	-791.56	791.66	788.01	3.64	217.263		
700.00	700.00	693.57	693.43	2.34	2.05	-89.86	1.91	-792.91	792.95	788.59	4.36	181.809		
800.00	800.00	792.05	791.89	2.69	2.39	-89.75	3.42	-793.98	794.05	788.99	5.06	157.007		
900.00	900.00	890.12	889.94	3.04	2.73	-89.69	4.27	-795.28	795.37	789.62	5.75	138.245		
1,000.00	1,000.00	988.83	988.64	3.40	3.07	-89.64	5.07	-796.84	796.96	790.51	6.45	123.523		
1,100.00	1,100.00	1,091.58	1,091.38	3.75	3.43	-89.59	5.68	-798.28	798.36	791.20	7.17	111.414		
1,200.00	1,200.00	1,193.11	1,192.90	4.11	3.78	-89.59	5.79	-799.51	799.58	791.70	7.88	101.520		
1,300.00	1,300.00	1,299.25	1,299.04	4.46	4.15	-89.58	5.84	-800.34	800.36	791.76	8.60	93.042		
1,400.00	1,400.00	1,400.42	1,400.21	4.82	4.41	-89.61	5.47	-800.36	800.38	791.16	9.22	86.834		
1,500.00	1,500.00	1,495.56	1,495.35	5.18	4.58	-89.61	5.42	-800.80	800.84	791.09	9.75	82.175		
1,600.00	1,600.00	1,592.36	1,592.14	5.53	4.69	-89.59	5.74	-801.79	801.86	791.65	10.21	78.536		
1,700.00	1,700.00	1,691.82	1,691.59	5.89	4.74	-89.56	6.10	-802.99	803.07	792.45	10.62	75.613		
1,800.00	1,800.00	1,796.37	1,796.13	6.25	4.82	-89.58	5.95	-804.02	804.06	793.00	11.06	72.700		
1,900.00	1,900.00	1,899.62	1,899.38	6.61	4.93	-89.63	5.21	-804.50	804.52	793.00	11.52	69.819		
2,000.00	2,000.00	1,997.49	1,997.25	6.96	5.05	-89.69	4.39	-805.01	805.04	793.03	12.01	67.054		
2,100.00	2,099.99	2,108.05	2,107.81	7.31	5.21	174.78	3.58	-804.72	805.63	793.11	12.51	64.382		
2,200.00	2,199.96	2,208.03	2,207.78	7.65	5.37	174.77	3.12	-803.88	807.39	794.38	13.01	62.037		
2,300.00	2,299.86	2,305.90	2,305.65	7.99	5.55	174.75	2.56	-803.28	811.11	797.58	13.53	59.935		
2,399.87	2,399.54	2,406.17	2,405.91	8.34	5.75	174.73	1.80	-802.76	816.66	802.59	14.07	58.027		
2,500.00	2,499.43	2,506.06	2,505.80	8.69	5.96	174.74	1.28	-802.10	822.95	808.32	14.63	56.250		
2,600.00	2,599.19	2,604.54	2,604.28	9.03	6.18	174.75	0.75	-801.63	829.42	814.22	15.20	54.578		
2,700.00	2,698.94	2,704.30	2,704.03	9.39	6.42	174.78	0.60	-801.21	835.94	820.16	15.78	52.981		
2,800.00	2,798.70	2,804.02	2,803.75	9.74	6.66	174.83	0.64	-800.78	842.46	826.09	16.37	51.467		
2,900.00	2,898.46	2,901.50	2,901.24	10.09	6.91	174.89	0.93	-800.46	849.08	832.11	16.96	50.060		
3,000.00	2,998.21	3,000.68	3,000.41	10.45	7.16	174.96	1.38	-800.39	855.96	838.39	17.57	48.730		
3,100.00	3,097.97	3,100.24	3,099.97	10.80	7.43	175.03	1.76	-800.30	862.82	844.64	18.18	47.462		
3,200.00	3,197.73	3,203.31	3,203.04	11.16	7.71	175.09	2.18	-800.09	869.57	850.75	18.81	46.223		
3,300.00	3,297.48	3,302.81	3,302.53	11.52	7.99	175.16	2.60	-799.63	876.06	856.62	19.44	45.057		
3,400.00	3,397.24	3,398.46	3,398.19	11.88	8.26	175.23	3.06	-799.45	882.83	862.76	20.07	43.992		
3,500.00	3,497.00	3,498.90	3,498.63	12.24	8.55	175.29	3.48	-799.49	889.82	869.11	20.71	42.962		
3,600.00	3,596.75	3,597.76	3,597.49	12.60	8.84	175.35	3.84	-799.53	896.81	875.46	21.36	41.994		
3,700.00	3,696.51	3,700.03	3,699.75	12.96	9.15	175.42	4.28	-799.43	903.67	881.66	22.02	41.045		
3,800.00	3,796.27	3,797.20	3,796.92	13.32	9.45	175.47	4.62	-799.39	910.60	887.93	22.66	40.177		
3,900.00	3,896.02	3,897.97	3,897.69	13.68	9.76	175.53	5.05	-799.47	917.63	894.30	23.33	39.335		
4,000.00	3,995.78	4,001.39	4,001.11	14.04	10.08	175.61	5.75	-799.18	924.32	900.31	24.01	38.503		
4,100.00	4,095.54	4,101.68	4,101.40	14.40	10.39	175.69	6.39	-798.72	930.83	906.15	24.68	37.721		
4,200.00	4,195.29	4,202.45	4,202.16	14.77	10.71	175.76	7.01	-798.21	937.28	911.93	25.35	36.970		
4,300.00	4,295.05	4,311.91	4,311.61	15.13	11.06	175.84	7.75	-797.21	943.36	917.30	26.06	36.200		
4,400.00	4,394.81	4,435.42	4,435.07	15.49	11.46	175.92	8.43	-793.78	947.58	920.77	26.81	35.346		
4,500.00	4,494.56	4,557.01	4,556.49	15.86	11.86	175.97	8.44	-787.43	949.32	921.78	27.54	34.467		
4,600.00	4,594.32	4,671.60	4,670.76	16.22	12.23	175.99	8.03	-778.93	948.81	920.55	28.26	33.580		
4,700.00	4,694.08	4,776.84	4,775.67	16.59	12.58	175.96	6.74	-770.56	947.79	918.84	28.95	32.740		
4,800.00	4,793.83	4,886.07	4,884.42	16.95	12.95	175.84	4.00	-760.77	945.70	916.05	29.65	31.895		
4,900.00	4,893.59	4,988.52	4,986.36	17.32	13.30	175.70	1.08	-751.00	943.05	912.70	30.34	31.080		
5,000.00	4,993.35	5,079.77	5,077.19	17.68	13.61	175.60	-1.36	-742.52	940.66	909.64	31.02	30.326		
5,100.00	5,093.10	5,167.15	5,164.25	18.05	13.91	175.51	-3.31	-735.50	939.54	907.85	31.69	29.652		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,157.68	5,150.64	5,220.48	5,217.44	18.26	14.09	175.47	-4.33	-731.69	939.40	907.33	32.08	29.287		
5,200.00	5,192.86	5,259.62	5,256.49	18.42	14.23	175.45	-5.04	-729.05	939.48	907.11	32.36	29.030		
5,300.00	5,292.62	5,361.18	5,357.82	18.78	14.58	175.37	-6.99	-722.48	939.93	906.87	33.06	28.430		
5,400.00	5,392.37	5,480.73	5,476.97	19.15	15.00	175.21	-10.37	-713.36	939.24	905.45	33.80	27.790		
5,500.00	5,492.13	5,587.14	5,582.87	19.52	15.38	175.04	-13.90	-703.58	936.95	902.44	34.51	27.152		
5,600.00	5,591.89	5,688.18	5,683.39	19.88	15.74	174.89	-17.10	-693.95	934.33	899.12	35.21	26.536		
5,700.00	5,691.64	5,790.74	5,785.42	20.25	16.11	174.73	-20.29	-683.95	931.50	895.58	35.92	25.936		
5,800.00	5,791.40	5,893.48	5,887.59	20.62	16.48	174.58	-23.43	-673.64	928.39	891.76	36.62	25.350		
5,900.00	5,891.16	5,995.96	5,989.47	20.98	16.86	174.43	-26.51	-663.02	924.95	887.62	37.33	24.777		
6,000.00	5,990.91	6,094.82	6,087.74	21.35	17.22	174.29	-29.43	-652.67	921.41	883.37	38.04	24.225		
6,100.00	6,090.67	6,190.92	6,183.31	21.72	17.58	174.17	-32.04	-642.91	918.19	879.46	38.74	23.703		
6,200.00	6,190.42	6,288.67	6,280.56	22.09	17.94	174.06	-34.47	-633.37	915.37	875.93	39.44	23.208		
6,300.00	6,290.18	6,388.25	6,379.65	22.45	18.31	173.96	-36.70	-623.72	912.63	872.48	40.15	22.730		
6,400.00	6,389.94	6,492.27	6,483.14	22.82	18.70	173.85	-39.02	-613.55	909.80	868.94	40.87	22.263		
6,500.00	6,489.69	6,598.80	6,589.02	23.19	19.10	173.67	-42.53	-602.37	906.27	864.68	41.59	21.793		
6,600.00	6,589.45	6,700.41	6,689.92	23.56	19.49	173.42	-47.03	-591.19	902.25	859.95	42.30	21.329		
6,700.00	6,689.21	6,799.25	6,788.06	23.93	19.87	173.19	-51.34	-580.32	898.24	855.23	43.02	20.881		
6,800.00	6,788.96	6,897.38	6,885.53	24.29	20.25	172.96	-55.44	-569.68	894.41	850.68	43.73	20.453		
6,900.00	6,888.72	6,994.51	6,982.04	24.66	20.62	172.75	-59.28	-559.40	890.85	846.41	44.44	20.044		
7,000.00	6,988.48	7,095.46	7,082.36	25.03	21.01	172.54	-63.10	-548.83	887.40	842.24	45.16	19.649		
7,100.00	7,088.23	7,192.30	7,178.58	25.40	21.38	172.29	-67.38	-538.79	884.09	838.21	45.88	19.270		
7,200.00	7,187.99	7,292.49	7,278.12	25.77	21.77	172.00	-72.40	-528.50	880.93	834.33	46.60	18.903		
7,300.00	7,287.75	7,392.13	7,377.10	26.14	22.16	171.70	-77.51	-518.27	877.79	830.46	47.33	18.548		
7,400.00	7,387.50	7,492.51	7,476.81	26.50	22.55	171.39	-82.72	-507.95	874.67	826.62	48.05	18.203		
7,500.00	7,487.26	7,594.13	7,577.74	26.87	22.95	171.08	-87.96	-497.35	871.42	822.64	48.78	17.865		
7,600.00	7,587.02	7,694.75	7,677.67	27.24	23.34	170.78	-92.97	-486.71	868.03	818.52	49.51	17.533		
7,700.00	7,686.77	7,794.17	7,776.42	27.61	23.73	170.50	-97.67	-476.20	864.66	814.43	50.23	17.213		
7,800.00	7,786.53	7,895.08	7,876.66	27.98	24.13	170.22	-102.32	-465.56	861.33	810.37	50.96	16.901		
7,900.00	7,886.29	7,996.47	7,977.35	28.35	24.53	169.92	-107.11	-454.61	857.78	806.09	51.70	16.593		
8,000.00	7,986.04	8,096.45	8,076.63	28.72	24.93	169.64	-111.72	-443.77	854.20	801.77	52.43	16.293		
8,100.00	8,085.80	8,196.58	8,176.06	29.09	25.33	169.35	-116.34	-432.90	850.61	797.45	53.16	16.001		
8,200.00	8,185.56	8,294.63	8,273.43	29.46	25.72	169.07	-120.83	-422.29	847.10	793.21	53.89	15.719		
8,300.00	8,285.31	8,393.71	8,371.84	29.83	26.11	168.77	-125.56	-411.78	843.82	789.20	54.62	15.448		
8,400.00	8,385.07	8,494.60	8,472.04	30.20	26.52	168.46	-130.40	-401.04	840.54	785.18	55.36	15.183		
8,500.00	8,484.83	8,595.42	8,572.16	30.56	26.92	168.16	-135.08	-390.18	837.14	781.04	56.10	14.923		
8,600.00	8,584.58	8,694.96	8,671.00	30.93	27.32	167.85	-139.74	-379.42	833.72	776.89	56.83	14.670		
8,700.00	8,684.34	8,794.25	8,769.61	31.30	27.72	167.55	-144.42	-368.73	830.39	772.82	57.57	14.424		
8,800.00	8,784.10	8,893.82	8,868.49	31.67	28.12	167.24	-149.12	-358.07	827.13	768.82	58.31	14.185		
8,900.00	8,883.85	8,988.44	8,962.53	32.04	28.50	166.98	-153.08	-348.33	824.24	765.20	59.04	13.961		
9,000.00	8,983.61	9,076.92	9,050.58	32.41	28.84	166.79	-156.13	-340.22	822.39	762.64	59.75	13.764		
9,094.95	9,078.33	9,162.23	9,135.59	32.76	29.17	166.65	-158.64	-333.53	821.84	761.42	60.42	13.602		
9,100.00	9,083.37	9,166.76	9,140.11	32.78	29.19	166.64	-158.76	-333.21	821.84	761.38	60.45	13.594		
9,200.00	9,183.12	9,266.22	9,239.28	33.15	29.57	166.49	-161.56	-326.13	821.96	760.78	61.18	13.435		
9,300.00	9,282.88	9,367.61	9,340.37	33.52	29.95	166.35	-164.37	-318.84	822.01	760.10	61.91	13.277		
9,302.64	9,285.51	9,370.29	9,343.04	33.53	29.96	166.34	-164.44	-318.65	822.01	760.08	61.93	13.273		
9,400.00	9,382.64	9,465.92	9,438.38	33.89	30.33	166.19	-167.21	-311.82	822.13	759.49	62.64	13.125		
9,428.07	9,410.64	9,494.75	9,467.12	33.99	30.44	166.14	-168.13	-309.75	822.16	759.32	62.85	13.082		
9,500.00	9,482.43	9,567.43	9,539.56	34.26	30.71	165.99	-170.59	-304.40	821.49	758.12	63.38	12.962		
9,600.00	9,582.36	9,662.36	9,634.17	34.62	31.08	165.71	-174.35	-297.56	818.63	754.54	64.09	12.772		
9,694.65	9,677.00	9,747.36	9,718.88	34.95	31.40	-99.18	-178.74	-292.12	814.53	749.78	64.75	12.580		
9,700.00	9,682.35	9,752.40	9,723.90	34.97	31.42	-99.20	-179.04	-291.82	814.27	749.48	64.79	12.568		
9,800.00	9,782.35	9,847.67	9,818.83	35.31	31.78	-99.69	-185.11	-286.42	809.71	744.21	65.50	12.362		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
9,900.00	9,882.35	9,948.95	9,919.66	35.65	32.16	-100.29	-192.68	-280.56	805.29	739.05	66.24	12.158		
10,000.00	9,982.35	10,048.33	10,018.49	35.99	32.54	-100.96	-201.18	-274.57	800.93	733.95	66.98	11.958		
10,044.69	10,027.04	10,093.40	10,063.29	36.14	32.71	-101.29	-205.21	-271.80	798.99	731.68	67.31	11.870		
10,050.00	10,032.35	10,098.75	10,068.61	36.16	32.73	-100.93	-205.69	-271.47	798.76	731.41	67.35	11.859		
10,100.00	10,082.26	10,150.78	10,120.33	36.32	32.94	-101.67	-210.38	-268.16	797.06	729.32	67.74	11.766		
10,150.00	10,131.76	10,202.96	10,172.17	36.49	33.14	-102.64	-215.03	-264.63	796.16	728.02	68.14	11.685		
10,171.05	10,152.38	10,224.56	10,193.64	36.56	33.22	-103.11	-216.95	-263.10	796.06	727.75	68.30	11.655 ES		
10,200.00	10,180.46	10,251.99	10,220.89	36.65	33.33	-103.75	-219.34	-261.15	796.28	727.76	68.53	11.620		
10,250.00	10,227.98	10,299.17	10,267.78	36.81	33.52	-104.95	-223.39	-257.74	797.78	728.85	68.92	11.575		
10,300.00	10,273.98	10,342.98	10,311.31	36.95	33.69	-106.11	-227.05	-254.57	800.94	731.64	69.30	11.557		
10,350.00	10,318.11	10,384.51	10,352.60	37.09	33.85	-107.21	-230.42	-251.62	806.12	736.44	69.68	11.569		
10,400.00	10,360.01	10,423.58	10,391.46	37.21	34.00	-108.17	-233.52	-248.89	813.59	743.54	70.05	11.615		
10,450.00	10,399.38	10,459.91	10,427.59	37.32	34.14	-108.92	-236.36	-246.38	823.61	753.21	70.40	11.699		
10,500.00	10,435.92	10,493.25	10,460.75	37.42	34.27	-109.37	-238.94	-244.11	836.38	765.64	70.73	11.824		
10,550.00	10,469.35	10,527.64	10,494.96	37.51	34.41	-109.71	-241.55	-241.71	851.99	780.92	71.07	11.988		
10,600.00	10,499.41	10,558.26	10,525.41	37.59	34.53	-109.62	-243.81	-239.45	870.47	799.09	71.38	12.195		
10,650.00	10,525.87	10,584.75	10,551.75	37.66	34.63	-109.02	-245.72	-237.40	891.88	820.23	71.65	12.447		
10,700.00	10,548.54	11,622.41	11,239.60	37.74	37.40	-137.22	243.07	-86.94	912.13	851.68	60.45	15.090		
10,750.00	10,567.24	11,669.77	11,240.79	37.84	37.50	-137.25	290.37	-88.97	900.04	838.93	61.11	14.729		
10,800.00	10,581.83	11,714.46	11,241.51	37.97	37.61	-137.20	334.98	-91.47	891.33	829.61	61.72	14.441		
10,850.00	10,592.19	11,760.90	11,242.00	38.11	37.75	-137.03	381.31	-94.59	886.08	823.81	62.27	14.229		
10,900.00	10,598.26	11,818.09	11,242.22	38.25	37.96	-136.71	438.37	-98.58	883.91	821.08	62.84	14.066		
10,914.01	10,599.18	11,834.20	11,242.19	38.30	38.02	-136.63	454.43	-99.66	883.81	820.82	62.98	14.032		
10,944.69	10,600.00	11,866.35	11,242.04	38.39	38.16	-136.45	486.52	-101.80	884.35	821.09	63.26	13.979		
11,000.00	10,600.00	11,919.69	11,241.61	38.56	38.41	-136.27	539.71	-105.61	886.48	822.75	63.73	13.911		
11,100.00	10,600.00	12,016.21	11,240.35	38.91	38.94	-135.89	635.91	-113.39	890.63	825.96	64.67	13.772		
11,200.00	10,600.00	12,123.87	11,238.93	39.31	39.63	-135.47	743.23	-121.90	894.72	828.88	65.83	13.590		
11,300.00	10,600.00	12,218.44	11,238.59	39.76	40.33	-135.21	837.61	-127.96	898.45	831.57	66.89	13.432		
11,400.00	10,600.00	12,339.36	11,238.71	40.25	41.33	-134.98	958.37	-134.02	901.57	833.24	68.33	13.194		
11,500.00	10,600.00	12,438.99	11,239.76	40.79	42.26	-134.94	1,057.95	-136.71	903.71	834.18	69.53	12.997		
11,600.00	10,600.00	12,545.55	11,240.87	41.37	43.33	-134.96	1,164.49	-138.26	904.94	834.07	70.87	12.769		
11,700.00	10,600.00	12,641.93	11,242.73	41.99	44.35	-135.04	1,260.85	-139.00	906.32	834.23	72.09	12.572		
11,800.00	10,600.00	12,743.84	11,245.35	42.65	45.49	-135.18	1,362.73	-139.22	907.78	834.35	73.43	12.362		
11,900.00	10,600.00	12,838.26	11,247.82	43.35	46.60	-135.32	1,457.11	-139.19	909.12	834.41	74.70	12.170		
12,000.00	10,600.00	12,932.20	11,251.07	44.09	47.74	-135.46	1,551.00	-140.04	911.69	835.67	76.02	11.993		
12,100.00	10,600.00	13,039.99	11,253.80	44.86	49.10	-135.56	1,658.74	-141.32	913.81	836.13	77.68	11.764		
12,200.00	10,600.00	13,151.99	11,254.78	45.67	50.55	-135.56	1,770.72	-143.01	914.98	835.44	79.54	11.503		
12,300.00	10,600.00	13,244.46	11,254.60	46.50	51.79	-135.51	1,863.18	-144.64	915.58	834.48	81.11	11.289		
12,400.00	10,600.00	13,363.96	11,253.99	47.37	53.44	-135.41	1,982.65	-147.10	916.23	832.90	83.33	10.996		
12,500.00	10,600.00	13,460.02	11,252.23	48.26	54.80	-135.29	2,078.67	-148.71	915.58	830.46	85.12	10.757		
12,528.06	10,600.00	13,483.89	11,251.78	48.52	55.14	-135.26	2,102.53	-149.27	915.52	829.96	85.57	10.700		
12,600.00	10,600.00	13,545.90	11,250.75	49.18	56.04	-135.15	2,164.51	-151.24	915.91	829.17	86.75	10.559		
12,700.00	10,600.00	13,643.49	11,249.32	50.13	57.47	-134.94	2,262.00	-155.12	917.17	828.45	88.72	10.337		
12,800.00	10,600.00	13,739.40	11,247.80	51.10	58.91	-134.71	2,357.81	-159.47	918.75	828.02	90.73	10.127		
12,900.00	10,600.00	13,846.91	11,245.52	52.09	60.54	-134.42	2,465.17	-164.62	920.16	827.05	93.11	9.882		
13,000.00	10,600.00	13,927.23	11,244.89	53.10	61.78	-134.26	2,545.40	-168.38	922.39	827.63	94.76	9.734		
13,100.00	10,600.00	14,032.91	11,245.48	54.14	63.42	-134.13	2,650.98	-172.80	925.25	828.20	97.05	9.534		
13,200.00	10,600.00	14,125.00	11,246.30	55.19	64.88	-134.03	2,742.99	-176.56	928.27	829.29	98.99	9.378		
13,300.00	10,600.00	14,224.95	11,247.61	56.26	66.48	-133.93	2,842.84	-180.93	931.80	830.63	101.17	9.210		
13,400.00	10,600.00	14,354.93	11,248.03	57.35	68.58	-133.83	2,972.76	-184.59	933.51	829.34	104.17	8.962		
13,500.00	10,600.00	14,473.37	11,246.75	58.45	70.51	-133.79	3,091.19	-185.08	932.51	825.69	106.82	8.730		
13,600.00	10,600.00	14,569.40	11,244.82	59.57	72.10	-133.73	3,187.20	-185.25	930.72	821.76	108.96	8.542		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,660.26	11,243.25	60.71	73.61	-133.65	3,278.04	-186.27	929.81	818.80	111.01	8.376	
13,737.75	10,600.00	14,694.22	11,242.68	61.14	74.17	-133.60	3,311.98	-186.96	929.72	817.93	111.79	8.317	
13,800.00	10,600.00	14,749.16	11,242.18	61.85	75.09	-133.55	3,366.92	-188.14	929.97	816.93	113.04	8.227	
13,900.00	10,600.00	14,845.20	11,242.40	63.01	76.71	-133.50	3,462.93	-190.16	931.11	815.89	115.22	8.081	
14,000.00	10,600.00	14,944.63	11,242.90	64.18	78.40	-133.47	3,562.34	-192.10	932.34	814.85	117.49	7.935	
14,100.00	10,600.00	15,046.11	11,243.96	65.37	80.13	-133.49	3,663.80	-193.55	933.57	813.77	119.79	7.793	
14,200.00	10,600.00	15,147.02	11,244.48	66.56	81.85	-133.47	3,764.69	-195.26	934.62	812.49	122.13	7.652	
14,300.00	10,600.00	15,253.74	11,244.97	67.76	83.69	-133.47	3,871.41	-196.59	935.31	810.68	124.63	7.505	
14,400.00	10,600.00	15,344.12	11,245.80	68.98	85.26	-133.50	3,961.78	-197.50	936.14	809.49	126.65	7.392	
14,500.00	10,600.00	15,455.04	11,247.41	70.20	87.18	-133.58	4,072.68	-197.96	936.91	807.72	129.19	7.252	
14,600.00	10,600.00	15,557.76	11,248.61	71.43	88.98	-133.69	4,175.39	-197.46	936.83	805.36	131.47	7.126	
14,617.91	10,600.00	15,574.46	11,248.76	71.65	89.27	-133.70	4,192.09	-197.42	936.82	804.97	131.84	7.106	
14,700.00	10,600.00	15,652.66	11,249.56	72.67	90.64	-133.76	4,270.29	-197.54	937.04	803.45	133.60	7.014	
14,800.00	10,600.00	15,753.32	11,249.93	73.92	92.41	-133.77	4,370.94	-198.44	937.42	801.45	135.97	6.894	
14,900.00	10,600.00	15,851.22	11,249.79	75.17	94.14	-133.73	4,468.83	-199.80	937.79	799.46	138.33	6.779	
15,000.00	10,600.00	15,948.19	11,249.56	76.44	95.86	-133.66	4,565.78	-201.90	938.66	797.93	140.73	6.670	
15,100.00	10,600.00	16,051.53	11,248.27	77.70	97.70	-133.52	4,669.07	-204.83	939.32	795.88	143.44	6.549	
15,200.00	10,600.00	16,134.00	11,246.86	78.98	99.17	-133.37	4,751.49	-207.38	940.02	794.49	145.53	6.459 SF	
15,300.00	10,600.00	16,134.00	11,246.86	80.26	99.17	-133.37	4,751.49	-207.38	947.71	803.49	144.22	6.571	
15,400.00	10,600.00	16,134.00	11,246.86	81.55	99.17	-133.37	4,751.49	-207.38	965.75	823.91	141.85	6.809	
15,484.47	10,600.00	16,134.00	11,246.86	82.64	99.17	-133.37	4,751.49	-207.38	988.65	849.50	139.15	7.105	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	89.59	7.24	1,017.49	1,017.66					
100.00	100.00	93.72	93.72	0.52	0.14	89.58	7.46	1,017.00	1,017.08	1,016.43	0.65	1,558.529		
200.00	200.00	197.58	197.57	0.70	0.44	89.54	8.18	1,015.68	1,015.82	1,014.67	1.14	887.730		
300.00	300.00	303.99	303.95	0.99	0.82	89.48	9.12	1,013.79	1,014.05	1,012.24	1.81	559.818		
400.00	400.00	398.06	398.01	1.31	1.16	89.43	10.16	1,012.13	1,012.29	1,009.82	2.47	409.835		
500.00	500.00	490.06	490.00	1.65	1.49	89.37	11.14	1,011.12	1,011.21	1,008.07	3.14	322.478		
600.00	600.00	584.92	584.85	1.99	1.83	89.32	12.02	1,010.73	1,010.80	1,006.98	3.82	264.797		
647.25	647.25	630.32	630.25	2.15	1.99	89.30	12.42	1,010.69	1,010.76	1,006.62	4.14	244.032		
700.00	700.00	681.56	681.49	2.34	2.17	89.27	12.83	1,010.72	1,010.80	1,006.30	4.51	224.350		
800.00	800.00	778.70	778.62	2.69	2.51	89.24	13.47	1,010.99	1,011.09	1,005.90	5.20	194.575		
900.00	900.00	876.69	876.61	3.04	2.85	89.20	14.15	1,011.51	1,011.63	1,005.74	5.89	171.718		
1,000.00	1,000.00	979.12	979.04	3.40	3.21	89.16	14.86	1,012.05	1,012.17	1,005.56	6.61	153.243		
1,100.00	1,100.00	1,085.06	1,084.98	3.75	3.59	89.13	15.40	1,012.09	1,012.21	1,004.87	7.34	137.973		
1,200.00	1,200.00	1,184.92	1,184.83	4.11	3.94	89.11	15.78	1,011.88	1,012.01	1,003.96	8.05	125.734		
1,300.00	1,300.00	1,284.78	1,284.69	4.46	4.30	89.08	16.24	1,011.73	1,011.86	1,003.10	8.76	115.485		
1,400.00	1,400.00	1,385.46	1,385.37	4.82	4.66	89.06	16.60	1,011.50	1,011.64	1,002.16	9.48	106.733		
1,500.00	1,500.00	1,485.46	1,485.37	5.18	5.02	89.03	17.12	1,011.26	1,011.41	1,001.21	10.19	99.230		
1,600.00	1,600.00	1,586.95	1,586.85	5.53	5.38	88.99	17.88	1,010.95	1,011.12	1,000.20	10.91	92.653		
1,700.00	1,700.00	1,686.49	1,686.39	5.89	5.74	88.92	19.05	1,010.55	1,010.74	999.11	11.63	86.932		
1,800.00	1,800.00	1,785.68	1,785.57	6.25	6.09	88.83	20.63	1,010.23	1,010.44	998.10	12.34	81.887		
1,900.00	1,900.00	1,884.23	1,884.10	6.61	6.45	88.74	22.25	1,010.02	1,010.26	997.21	13.05	77.414		
2,000.00	2,000.00	1,984.18	1,984.04	6.96	6.81	88.66	23.62	1,009.88	1,010.16	996.39	13.77	73.382		
2,100.00	2,099.99	2,084.18	2,084.04	7.31	7.16	-8.89	24.76	1,009.75	1,009.19	994.72	14.47	69.736		
2,200.00	2,199.96	2,184.79	2,184.64	7.65	7.52	-6.98	25.91	1,009.58	1,006.45	991.28	15.17	66.338		
2,300.00	2,299.86	2,284.00	2,283.85	7.99	7.88	-7.08	27.03	1,009.43	1,002.00	986.13	15.87	63.146		
2,399.87	2,399.54	2,384.69	2,384.52	8.34	8.24	-7.20	28.20	1,009.25	995.81	979.24	16.57	60.095		
2,500.00	2,499.43	2,485.85	2,485.68	8.69	8.60	-7.32	29.46	1,008.94	988.62	971.34	17.28	57.221		
2,600.00	2,599.19	2,586.76	2,586.58	9.03	8.97	-7.45	30.79	1,008.51	981.31	963.33	17.98	54.568		
2,700.00	2,698.94	2,687.53	2,687.34	9.39	9.33	-7.59	32.23	1,007.95	973.90	955.21	18.69	52.107		
2,800.00	2,798.70	2,788.51	2,788.30	9.74	9.69	-7.75	33.94	1,007.27	966.38	946.98	19.40	49.815		
2,900.00	2,898.46	2,888.32	2,888.08	10.09	10.05	-7.94	36.18	1,006.46	958.75	938.64	20.11	47.686		
3,000.00	2,998.21	2,987.57	2,987.30	10.45	10.41	-8.14	38.53	1,005.71	951.20	930.38	20.81	45.706		
3,100.00	3,097.97	3,086.45	3,086.15	10.80	10.76	-8.35	40.96	1,004.99	943.69	922.17	21.52	43.858		
3,200.00	3,197.73	3,184.15	3,183.82	11.16	11.11	-8.56	43.30	1,004.42	936.34	914.12	22.22	42.141		
3,300.00	3,297.48	3,281.74	3,281.38	11.52	11.46	-8.77	45.67	1,004.09	929.23	906.31	22.92	40.540		
3,400.00	3,397.24	3,380.05	3,379.66	11.88	11.82	-8.98	48.09	1,003.94	922.33	898.71	23.63	39.037		
3,500.00	3,497.00	3,479.06	3,478.64	12.24	12.17	-9.20	50.52	1,003.89	915.56	891.22	24.34	37.622		
3,600.00	3,596.75	3,578.64	3,578.18	12.60	12.53	-9.43	52.97	1,003.89	908.84	883.79	25.05	36.286		
3,700.00	3,696.51	3,678.04	3,677.56	12.96	12.89	-9.66	55.42	1,003.91	902.16	876.40	25.76	35.025		
3,800.00	3,796.27	3,777.53	3,777.02	13.32	13.24	-9.88	57.79	1,003.97	895.52	869.05	26.47	33.832		
3,900.00	3,896.02	3,878.73	3,878.20	13.68	13.61	-10.09	59.80	1,003.99	888.83	861.64	27.19	32.693		
4,000.00	3,995.78	3,980.27	3,979.73	14.04	13.97	-10.26	61.23	1,003.85	881.93	854.03	27.91	31.605		
4,100.00	4,095.54	4,079.55	4,079.01	14.40	14.33	-10.41	62.25	1,003.68	874.99	846.38	28.62	30.576		
4,200.00	4,195.29	4,179.11	4,178.56	14.77	14.68	-10.55	63.01	1,003.58	868.11	838.78	29.33	29.599		
4,300.00	4,295.05	4,279.84	4,279.29	15.13	15.04	-10.66	63.47	1,003.47	861.18	831.13	30.04	28.663		
4,400.00	4,394.81	4,380.37	4,379.82	15.49	15.40	-10.78	63.89	1,003.20	854.10	823.34	30.76	27.767		
4,500.00	4,494.56	4,474.70	4,474.15	15.86	15.73	-10.88	64.14	1,003.10	847.18	815.73	31.45	26.937		
4,600.00	4,494.32	4,562.58	4,562.02	16.22	16.03	-10.92	63.64	1,004.13	841.44	809.33	32.11	26.205		
4,700.00	4,694.08	4,652.92	4,652.31	16.59	16.34	-10.89	62.24	1,006.53	837.08	804.31	32.77	25.544		
4,800.00	4,793.83	4,747.11	4,746.43	16.95	16.65	-10.81	60.11	1,009.74	833.41	799.98	33.43	24.928		
4,900.00	4,893.59	4,834.11	4,833.28	17.32	16.93	-10.67	57.38	1,013.85	830.98	796.92	34.06	24.396		
5,000.00	4,993.35	4,922.11	4,921.03	17.68	17.22	-10.48	53.93	1,019.48	830.14	795.44	34.69	23.928		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,100.00	5,093.10	5,021.01	5,019.62	18.05	17.55	-10.26	50.13	1,026.48	830.01	794.63	35.38	23.463		
5,200.00	5,192.86	5,122.13	5,120.42	18.42	17.89	-10.08	46.86	1,033.69	829.99	793.92	36.07	23.010		
5,300.00	5,292.62	5,230.54	5,228.57	18.78	18.26	-9.94	44.02	1,040.58	829.25	792.44	36.81	22.531		
5,400.00	5,392.37	5,336.18	5,334.03	19.15	18.62	-9.83	41.66	1,046.41	827.71	790.18	37.53	22.057		
5,500.00	5,492.13	5,438.79	5,436.49	19.52	18.97	-9.75	39.59	1,051.51	825.64	787.41	38.23	21.594		
5,600.00	5,591.89	5,539.85	5,537.42	19.88	19.32	-9.67	37.63	1,056.33	823.38	784.44	38.94	21.146		
5,700.00	5,691.64	5,640.97	5,638.42	20.25	19.67	-9.60	35.78	1,061.01	820.98	781.34	39.64	20.710		
5,800.00	5,791.40	5,742.25	5,739.57	20.62	20.02	-9.54	34.01	1,065.51	818.41	778.06	40.35	20.284		
5,900.00	5,891.16	5,840.58	5,837.79	20.98	20.36	-9.48	32.31	1,069.94	815.89	774.85	41.04	19.880		
6,000.00	5,990.91	5,940.55	5,937.64	21.35	20.70	-9.42	30.64	1,074.54	813.49	771.75	41.74	19.488		
6,100.00	6,090.67	6,041.91	6,038.89	21.72	21.05	-9.37	29.06	1,079.09	810.98	768.53	42.45	19.104		
6,200.00	6,190.42	6,143.49	6,140.37	22.09	21.41	-9.32	27.61	1,083.46	808.29	765.13	43.16	18.727		
6,300.00	6,290.18	6,245.26	6,242.04	22.45	21.76	-9.30	26.35	1,087.60	805.38	761.50	43.87	18.357		
6,400.00	6,389.94	6,346.72	6,343.42	22.82	22.12	-9.28	25.26	1,091.50	802.26	757.68	44.59	17.994		
6,500.00	6,489.69	6,447.34	6,443.97	23.19	22.47	-9.27	24.17	1,095.22	798.99	753.70	45.29	17.640		
6,600.00	6,589.45	6,548.66	6,545.21	23.56	22.82	-9.25	23.10	1,098.88	795.64	749.64	46.01	17.295		
6,700.00	6,689.21	6,650.47	6,646.96	23.93	23.18	-9.26	22.22	1,102.31	792.06	745.34	46.72	16.954		
6,800.00	6,788.96	6,752.91	6,749.35	24.29	23.54	-9.27	21.40	1,105.48	788.21	740.78	47.44	16.616		
6,900.00	6,888.72	6,853.08	6,849.48	24.66	23.89	-9.28	20.64	1,108.38	784.16	736.01	48.14	16.288		
7,000.00	6,988.48	6,956.28	6,952.63	25.03	24.25	-9.29	19.85	1,111.17	779.92	731.05	48.86	15.961		
7,100.00	7,088.23	7,056.47	7,052.78	25.40	24.60	-9.31	19.05	1,113.64	775.44	725.87	49.57	15.643		
7,200.00	7,187.99	7,159.02	7,155.31	25.77	24.96	-9.32	18.20	1,115.96	770.76	720.47	50.29	15.327		
7,300.00	7,287.75	7,260.69	7,256.95	26.14	25.32	-9.33	17.30	1,117.96	765.77	714.77	51.00	15.015		
7,400.00	7,387.50	7,361.03	7,357.27	26.50	25.67	-9.31	16.11	1,119.82	760.66	708.95	51.71	14.710		
7,500.00	7,487.26	7,461.64	7,457.85	26.87	26.01	-9.27	14.53	1,121.64	755.48	703.06	52.42	14.413		
7,600.00	7,587.02	7,562.16	7,558.34	27.24	26.36	-9.21	12.71	1,123.34	750.16	697.04	53.12	14.121		
7,700.00	7,686.77	7,661.34	7,657.49	27.61	26.71	-9.13	10.67	1,125.06	744.88	691.05	53.83	13.838		
7,800.00	7,786.53	7,760.42	7,756.52	27.98	27.05	-9.03	8.37	1,126.89	739.69	685.16	54.53	13.565		
7,900.00	7,886.29	7,859.70	7,855.75	28.35	27.39	-8.91	5.90	1,128.84	734.61	679.37	55.23	13.300		
8,000.00	7,986.04	7,959.06	7,955.05	28.72	27.74	-8.76	3.06	1,130.88	729.59	673.65	55.94	13.043		
8,100.00	8,085.80	8,059.32	8,055.24	29.09	28.09	-8.60	0.04	1,132.97	724.61	667.96	56.65	12.792		
8,200.00	8,185.56	8,161.06	8,156.91	29.46	28.44	-8.42	-3.20	1,134.94	719.47	662.12	57.36	12.544		
8,300.00	8,285.31	8,260.70	8,256.47	29.83	28.79	-8.21	-6.72	1,136.71	714.17	656.11	58.06	12.300		
8,400.00	8,385.07	8,359.95	8,355.64	30.20	29.13	-7.97	-10.51	1,138.58	708.97	650.21	58.77	12.064		
8,500.00	8,484.83	8,459.57	8,455.16	30.56	29.48	-7.73	-14.34	1,140.51	703.84	644.37	59.47	11.835		
8,600.00	8,584.58	8,559.35	8,554.85	30.93	29.83	-7.49	-18.15	1,142.46	698.74	638.56	60.18	11.611		
8,700.00	8,684.34	8,659.77	8,655.18	31.30	30.18	-7.24	-22.01	1,144.38	693.61	632.72	60.89	11.392		
8,800.00	8,784.10	8,759.93	8,755.24	31.67	30.53	-6.99	-25.81	1,146.23	688.42	626.83	61.59	11.177		
8,900.00	8,883.85	8,860.20	8,855.44	32.04	30.88	-6.76	-29.39	1,148.03	683.21	620.90	62.30	10.966		
9,000.00	8,983.61	8,961.90	8,957.07	32.41	31.24	-6.56	-32.53	1,149.66	677.81	614.80	63.02	10.756		
9,100.00	9,083.37	9,063.47	9,058.59	32.78	31.59	-6.37	-35.61	1,151.01	672.16	608.44	63.73	10.547		
9,200.00	9,183.12	9,166.51	9,161.57	33.15	31.95	-6.13	-39.09	1,152.08	666.22	601.78	64.44	10.338		
9,300.00	9,282.88	9,269.14	9,264.14	33.52	32.31	-5.91	-42.41	1,152.47	659.64	594.49	65.15	10.125		
9,400.00	9,382.64	9,367.56	9,362.50	33.89	32.65	-5.67	-45.86	1,152.83	653.04	587.19	65.86	9.916		
9,428.07	9,410.64	9,394.97	9,389.89	33.99	32.74	-5.60	-46.87	1,152.97	651.24	585.19	66.05	9.859		
9,500.00	9,482.43	9,465.09	9,459.95	34.26	32.99	-5.37	-49.79	1,153.47	647.43	580.87	66.56	9.727		
9,600.00	9,582.36	9,562.64	9,557.36	34.62	33.33	-4.93	-54.99	1,154.46	644.71	577.44	67.26	9.585		
9,642.09	9,624.44	9,603.98	9,598.63	34.76	33.47	-4.74	-57.25	1,154.98	644.45	576.90	67.55	9.540		
9,694.65	9,677.00	9,662.08	9,656.64	34.95	33.68	91.02	-60.47	1,155.48	644.59	576.66	67.93	9.489		
9,700.00	9,682.35	9,667.99	9,662.54	34.97	33.70	91.05	-60.80	1,155.50	644.62	576.65	67.97	9.484		
9,800.00	9,782.35	9,777.75	9,772.11	35.31	34.08	91.62	-67.19	1,155.00	644.29	575.63	68.67	9.383		
9,900.00	9,882.35	9,876.77	9,870.96	35.65	34.42	92.12	-72.77	1,153.78	643.24	573.89	69.36	9.275		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	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	9,982.35	9,974.56	9,968.64	35.99	34.76	92.54	-77.44	1,152.92	642.55	572.51	70.05	9.173	CC			
10,019.26	10,001.61	9,993.41	9,987.47	36.05	34.83	92.61	-78.24	1,152.79	642.46	572.28	70.18	9.155				
10,044.69	10,027.04	10,013.11	10,007.15	36.14	34.90	92.68	-79.08	1,152.81	642.53	572.18	70.35	9.133				
10,050.00	10,032.35	10,017.63	10,011.67	36.16	34.91	93.12	-79.27	1,152.83	642.55	572.17	70.38	9.129				
10,100.00	10,082.26	10,060.10	10,054.10	36.32	35.06	93.40	-81.00	1,153.23	643.28	572.57	70.71	9.097				
10,150.00	10,131.76	10,109.12	10,103.08	36.49	35.23	94.03	-82.87	1,154.06	644.71	573.65	71.05	9.074				
10,200.00	10,180.46	10,159.75	10,153.68	36.65	35.41	95.00	-84.51	1,154.78	646.47	575.08	71.39	9.055				
10,250.00	10,227.98	10,206.65	10,200.55	36.81	35.58	96.15	-85.86	1,155.37	648.87	577.15	71.71	9.048				
10,300.00	10,273.98	10,251.63	10,245.51	36.95	35.74	97.44	-87.14	1,155.96	652.30	580.27	72.03	9.056				
10,350.00	10,318.11	10,293.18	10,287.04	37.09	35.88	98.74	-88.31	1,156.58	657.14	584.81	72.33	9.085				
10,400.00	10,360.01	10,332.22	10,326.06	37.21	36.02	99.98	-89.41	1,157.29	663.80	591.18	72.63	9.140				
10,450.00	10,399.38	10,369.46	10,363.28	37.32	36.15	101.13	-90.44	1,158.08	672.61	599.69	72.91	9.225				
10,500.00	10,435.92	10,404.74	10,398.54	37.42	36.28	102.09	-91.41	1,158.86	683.79	610.60	73.19	9.342				
10,550.00	10,469.35	10,436.89	10,430.66	37.51	36.39	102.73	-92.28	1,159.59	697.60	624.14	73.46	9.496				
10,600.00	10,499.41	10,465.66	10,459.41	37.59	36.50	102.97	-93.04	1,160.26	714.23	640.51	73.72	9.688				
10,650.00	10,525.87	10,493.06	10,486.81	37.66	36.56	102.86	-93.71	1,160.90	733.75	659.81	73.94	9.923				
10,700.00	10,548.54	10,517.84	10,511.58	37.74	36.61	102.28	-94.15	1,161.46	756.11	681.97	74.14	10.199				
10,750.00	10,567.24	10,538.69	10,532.42	37.84	36.64	101.07	-94.40	1,161.91	781.23	706.90	74.32	10.511				
10,800.00	10,581.83	11,124.49	11,015.80	37.97	36.85	127.49	175.95	1,146.84	808.49	742.89	65.60	12.324				
10,850.00	10,592.19	11,258.71	11,070.56	38.11	37.15	129.04	297.89	1,138.73	813.16	748.99	64.17	12.672				
10,900.00	10,598.26	11,428.99	11,097.35	38.25	37.79	129.45	465.47	1,134.21	812.27	748.52	63.76	12.740				
10,933.85	10,599.90	11,471.52	11,099.57	38.35	38.00	129.54	507.92	1,133.02	811.82	747.88	63.94	12.697				
10,944.69	10,600.00	11,485.13	11,100.21	38.39	38.06	129.58	521.51	1,132.58	811.87	747.88	63.98	12.688				
11,000.00	10,600.00	11,546.02	11,102.84	38.56	38.39	129.80	582.29	1,130.28	812.09	747.86	64.23	12.644				
11,100.00	10,600.00	11,645.48	11,107.39	38.91	39.00	130.21	681.56	1,125.95	812.26	747.54	64.71	12.551				
11,200.00	10,600.00	11,758.86	11,112.05	39.31	39.79	130.67	794.71	1,120.53	811.86	746.52	65.34	12.426				
11,300.00	10,600.00	11,853.28	11,115.27	39.76	40.53	131.02	888.97	1,115.90	810.93	744.90	66.03	12.281				
11,400.00	10,600.00	11,951.92	11,119.61	40.25	41.38	131.46	987.37	1,110.71	810.42	743.64	66.79	12.135				
11,500.00	10,600.00	12,056.91	11,123.11	40.79	42.36	131.85	1,092.17	1,105.58	809.53	741.83	67.69	11.959				
11,600.00	10,600.00	12,151.00	11,125.08	41.37	43.29	132.08	1,186.18	1,102.28	808.86	740.16	68.70	11.773				
11,658.75	10,600.00	12,207.23	11,126.07	41.73	43.88	132.18	1,242.39	1,100.85	808.77	739.41	69.37	11.659				
11,700.00	10,600.00	12,246.95	11,126.72	41.99	44.30	132.24	1,282.10	1,100.03	808.81	738.97	69.85	11.580				
11,800.00	10,600.00	12,343.27	11,128.45	42.65	45.37	132.38	1,378.38	1,098.27	809.21	738.13	71.08	11.385				
11,900.00	10,600.00	12,443.74	11,130.89	43.35	46.53	132.56	1,478.80	1,096.48	810.09	737.70	72.38	11.192				
12,000.00	10,600.00	12,562.33	11,131.31	44.09	47.97	132.64	1,597.37	1,094.42	809.60	735.63	73.96	10.946				
12,100.00	10,600.00	12,678.51	11,128.13	44.86	49.43	132.54	1,713.48	1,092.09	806.80	731.07	75.72	10.655				
12,200.00	10,600.00	12,781.63	11,124.18	45.67	50.79	132.43	1,816.49	1,089.35	802.79	725.33	77.46	10.364				
12,300.00	10,600.00	12,878.95	11,121.53	46.50	52.10	132.43	1,913.71	1,085.84	798.83	719.70	79.13	10.095				
12,400.00	10,600.00	12,972.86	11,120.77	47.37	53.41	132.56	2,007.52	1,081.50	795.41	714.69	80.72	9.854				
12,500.00	10,600.00	13,074.96	11,121.01	48.26	54.86	132.80	2,109.48	1,076.21	792.30	709.96	82.35	9.621				
12,600.00	10,600.00	13,174.03	11,121.38	49.18	56.31	133.05	2,208.40	1,070.83	789.12	705.14	83.98	9.397				
12,700.00	10,600.00	13,281.47	11,121.67	50.13	57.91	133.35	2,315.64	1,064.29	785.39	699.72	85.67	9.168				
12,800.00	10,600.00	13,380.98	11,122.05	51.10	59.42	133.67	2,414.93	1,057.63	781.32	694.02	87.31	8.949				
12,900.00	10,600.00	13,480.85	11,122.62	52.09	60.96	134.01	2,514.55	1,050.75	777.28	688.33	88.95	8.738				
13,000.00	10,600.00	13,580.51	11,123.16	53.10	62.52	134.35	2,613.98	1,043.98	773.30	682.69	90.61	8.534				
13,100.00	10,600.00	13,679.82	11,123.85	54.14	64.10	134.71	2,713.05	1,037.04	769.33	677.06	92.27	8.338				
13,200.00	10,600.00	13,773.30	11,123.81	55.19	65.59	134.96	2,806.37	1,031.63	765.73	671.73	94.00	8.146				
13,300.00	10,600.00	13,864.91	11,123.66	56.26	67.07	135.10	2,897.92	1,028.10	763.38	667.57	95.82	7.967				
13,400.00	10,600.00	13,960.73	11,123.30	57.35	68.62	135.19	2,993.69	1,025.40	761.65	663.89	97.76	7.791				
13,500.00	10,600.00	14,062.72	11,123.19	58.45	70.29	135.27	3,095.65	1,023.08	760.50	660.71	99.79	7.621				
13,600.00	10,600.00	14,175.42	11,121.98	59.57	72.16	135.36	3,208.28	1,019.35	757.91	655.97	101.93	7.435				
13,700.00	10,600.00	14,286.72	11,119.56	60.71	74.02	135.45	3,319.45	1,014.56	753.86	649.78	104.08	7.243				
13,800.00	10,600.00	14,397.99	11,119.19	61.84	75.89	135.54	3,430.76	1,009.84	750.00	645.99	106.25	7.054				
13,900.00	10,600.00	14,509.29	11,118.82	62.97	77.76	135.63	3,542.07	1,004.92	746.17	642.20	108.42	6.865				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,392.58	11,115.76	61.85	75.81	135.46	3,425.14	1,009.68	748.58	642.31	106.27	7.044	
13,900.00	10,600.00	14,498.94	11,111.27	63.01	77.62	135.47	3,531.26	1,004.30	742.54	634.05	108.49	6.844	
14,000.00	10,600.00	14,607.31	11,106.14	64.18	79.48	135.52	3,639.31	997.72	735.41	624.72	110.70	6.643	
14,100.00	10,600.00	14,709.24	11,100.61	65.37	81.25	135.55	3,740.87	990.99	727.43	614.54	112.89	6.444	
14,200.00	10,600.00	14,800.81	11,096.77	66.56	82.85	135.67	3,832.12	984.36	719.89	604.97	114.92	6.264	
14,300.00	10,600.00	14,886.75	11,094.53	67.76	84.35	135.83	3,917.84	978.81	714.03	597.15	116.87	6.109	
14,400.00	10,600.00	14,976.38	11,093.49	68.98	85.92	136.01	4,007.34	974.08	710.01	591.19	118.81	5.976	
14,500.00	10,600.00	15,083.29	11,092.31	70.20	87.80	136.23	4,114.09	968.32	705.98	585.14	120.84	5.842	
14,600.00	10,600.00	15,183.52	11,091.10	71.43	89.58	136.48	4,214.12	962.22	701.41	578.62	122.79	5.712	
14,700.00	10,600.00	15,281.42	11,090.47	72.67	91.32	136.76	4,311.84	956.17	697.19	572.53	124.66	5.593	
14,800.00	10,600.00	15,384.59	11,089.95	73.92	93.16	137.10	4,414.78	949.32	692.79	566.30	126.49	5.477	
14,900.00	10,600.00	15,486.05	11,089.36	75.17	94.98	137.47	4,515.97	942.00	687.97	559.71	128.26	5.364	
15,000.00	10,600.00	15,583.68	11,089.01	76.44	96.74	137.85	4,613.33	934.81	683.23	553.26	129.96	5.257	
15,100.00	10,600.00	15,679.18	11,089.43	77.70	98.47	138.27	4,708.57	927.72	679.07	547.51	131.57	5.161	
15,171.83	10,600.00	15,725.00	11,089.77	78.62	99.30	138.48	4,754.27	924.36	676.81	544.23	132.58	5.105 ES	
15,200.00	10,600.00	15,725.00	11,089.77	78.98	99.30	138.48	4,754.27	924.36	677.40	544.65	132.75	5.103 SF	
15,300.00	10,600.00	15,725.00	11,089.77	80.26	99.30	138.48	4,754.27	924.36	688.84	556.68	132.17	5.212	
15,400.00	10,600.00	15,725.00	11,089.77	81.55	99.30	138.48	4,754.27	924.36	714.24	584.32	129.92	5.497	
15,484.47	10,600.00	15,725.00	11,089.77	82.64	99.30	138.48	4,754.27	924.36	745.53	618.44	127.09	5.866	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	85.93	164.65	2,316.13	2,322.08					
100.00	100.00	91.61	91.61	0.52	0.13	85.94	164.34	2,315.89	2,321.75	2,321.10	0.65	3,567.144		
200.00	200.00	214.92	214.91	0.70	0.49	85.97	163.02	2,314.68	2,320.70	2,319.51	1.20	1,938.487		
300.00	300.00	319.16	319.12	0.99	0.87	86.01	161.28	2,312.90	2,318.88	2,317.02	1.86	1,248.402		
400.00	400.00	413.29	413.22	1.31	1.21	86.05	159.49	2,311.46	2,317.23	2,314.71	2.52	920.215		
500.00	500.00	506.58	506.49	1.65	1.55	86.09	157.71	2,310.30	2,315.85	2,312.66	3.19	725.714		
600.00	600.00	612.04	611.92	1.99	1.93	86.14	155.82	2,309.14	2,314.64	2,310.73	3.92	591.158		
700.00	700.00	708.61	708.47	2.34	2.28	86.17	154.33	2,307.90	2,313.25	2,308.64	4.61	501.596		
800.00	800.00	808.37	808.22	2.69	2.64	86.21	152.99	2,306.69	2,311.96	2,306.64	5.32	434.565		
900.00	900.00	909.21	909.05	3.04	3.00	86.22	152.23	2,305.40	2,310.63	2,304.60	6.03	382.965		
1,000.00	1,000.00	1,005.18	1,005.00	3.40	3.34	86.23	151.95	2,304.20	2,309.37	2,302.64	6.73	343.236		
1,100.00	1,100.00	1,099.09	1,098.90	3.75	3.67	86.23	151.87	2,303.22	2,308.31	2,300.90	7.41	311.351		
1,200.00	1,200.00	1,191.84	1,191.66	4.11	3.99	86.22	151.96	2,302.52	2,307.57	2,299.47	8.09	285.087		
1,300.00	1,300.00	1,290.46	1,290.27	4.46	4.34	86.22	152.28	2,302.00	2,307.07	2,298.27	8.79	262.366		
1,400.00	1,400.00	1,394.63	1,394.44	4.82	4.70	86.20	153.05	2,301.30	2,306.44	2,296.93	9.51	242.528		
1,500.00	1,500.00	1,494.58	1,494.38	5.18	5.04	86.16	154.25	2,300.48	2,305.70	2,295.49	10.21	225.802		
1,600.00	1,600.00	1,592.63	1,592.41	5.53	5.38	86.12	155.96	2,299.71	2,305.03	2,294.13	10.91	211.366		
1,700.00	1,700.00	1,687.75	1,687.51	5.89	5.71	86.07	157.95	2,299.06	2,304.50	2,292.91	11.59	198.841		
1,800.00	1,800.00	1,787.82	1,787.55	6.25	6.05	86.02	160.04	2,298.53	2,304.12	2,291.82	12.29	187.448		
1,900.00	1,900.00	1,879.72	1,879.43	6.61	6.37	85.97	162.04	2,298.14	2,303.85	2,290.88	12.97	177.672		
1,914.55	1,914.55	1,892.84	1,892.55	6.66	6.42	85.96	162.31	2,298.12	2,303.84	2,290.78	13.06	176.347		
2,000.00	2,000.00	1,978.60	1,978.29	6.96	6.71	85.91	164.17	2,297.99	2,303.84	2,290.18	13.67	168.576		
2,100.00	2,099.99	2,086.05	2,085.71	7.31	7.09	-9.63	166.61	2,297.64	2,302.83	2,288.44	14.39	160.050		
2,200.00	2,199.96	2,186.58	2,186.21	7.65	7.44	-9.71	169.03	2,297.11	2,299.90	2,284.82	15.08	152.520		
2,300.00	2,299.86	2,279.81	2,279.42	7.99	7.76	-9.79	171.27	2,296.76	2,295.40	2,279.66	15.75	145.768		
2,399.87	2,399.54	2,378.33	2,377.91	8.34	8.11	-9.88	173.53	2,296.56	2,289.36	2,272.93	16.43	139.305		
2,500.00	2,499.43	2,479.00	2,478.54	8.69	8.46	-9.98	176.11	2,296.31	2,282.43	2,265.30	17.13	133.227		
2,600.00	2,599.19	2,576.66	2,576.17	9.03	8.80	-10.07	178.69	2,296.13	2,275.59	2,257.77	17.82	127.697		
2,700.00	2,698.94	2,678.50	2,677.98	9.39	9.16	-10.17	181.23	2,295.87	2,268.67	2,250.15	18.53	122.463		
2,800.00	2,798.70	2,772.72	2,772.17	9.74	9.49	-10.26	183.55	2,295.77	2,261.90	2,242.70	19.21	117.776		
2,900.00	2,898.46	2,868.85	2,868.27	10.09	9.83	-10.35	186.14	2,295.81	2,255.31	2,235.41	19.89	113.373		
3,000.00	2,998.21	2,962.75	2,962.12	10.45	10.16	-10.45	188.88	2,296.04	2,248.94	2,228.37	20.57	109.312		
3,100.00	3,097.97	3,057.23	3,056.55	10.80	10.50	-10.56	191.78	2,296.49	2,242.83	2,221.58	21.26	105.509		
3,200.00	3,197.73	3,152.88	3,152.16	11.16	10.84	-10.66	194.84	2,297.16	2,236.95	2,215.01	21.95	101.929		
3,300.00	3,297.48	3,249.51	3,248.73	11.52	11.18	-10.78	198.23	2,297.92	2,231.20	2,208.56	22.64	98.552		
3,400.00	3,397.24	3,344.53	3,343.68	11.88	11.51	-10.90	201.61	2,298.88	2,225.68	2,202.36	23.33	95.405		
3,500.00	3,497.00	3,442.16	3,441.23	12.24	11.86	-11.02	205.31	2,299.95	2,220.29	2,196.26	24.03	92.404		
3,600.00	3,596.75	3,538.72	3,537.70	12.60	12.20	-11.15	209.15	2,301.13	2,215.05	2,190.32	24.72	89.589		
3,700.00	3,696.51	3,632.29	3,631.20	12.96	12.54	-11.27	212.74	2,302.42	2,209.97	2,184.56	25.41	86.970		
3,800.00	3,796.27	3,722.51	3,721.33	13.32	12.86	-11.40	216.37	2,304.06	2,205.34	2,179.26	26.08	84.545		
3,900.00	3,896.02	3,817.63	3,816.36	13.68	13.19	-11.52	220.16	2,306.07	2,201.02	2,174.24	26.78	82.198		
4,000.00	3,995.78	3,913.46	3,912.09	14.04	13.53	-11.65	223.79	2,308.29	2,196.90	2,169.42	27.47	79.968		
4,100.00	4,095.54	4,011.35	4,009.89	14.40	13.88	-11.77	227.29	2,310.75	2,192.95	2,164.77	28.17	77.834		
4,200.00	4,195.29	4,111.76	4,110.21	14.77	14.24	-11.89	230.84	2,313.26	2,189.00	2,160.11	28.89	75.778		
4,300.00	4,295.05	4,214.20	4,212.56	15.13	14.60	-12.00	234.09	2,315.86	2,185.05	2,155.44	29.61	73.802		
4,400.00	4,394.81	4,318.30	4,316.58	15.49	14.97	-12.12	237.30	2,318.25	2,180.86	2,150.53	30.33	71.896		
4,500.00	4,494.56	4,397.53	4,395.75	15.86	15.25	-12.21	239.75	2,320.24	2,176.93	2,145.97	30.97	70.296		
4,600.00	4,494.32	4,464.71	4,462.85	16.22	15.49	-12.28	241.65	2,322.88	2,174.37	2,142.81	31.55	68.914		
4,700.00	4,494.08	4,537.00	4,535.00	16.59	15.74	-12.32	242.87	2,327.11	2,173.46	2,141.32	32.15	67.607		
4,711.02	4,705.07	4,537.00	4,535.00	16.63	15.74	-12.32	242.87	2,327.11	2,173.44	2,141.25	32.18	67.536		
4,800.00	4,793.83	4,602.13	4,599.95	16.95	15.97	-12.35	243.34	2,331.93	2,173.98	2,141.27	32.71	66.467		
4,900.00	4,893.59	4,688.65	4,686.17	17.32	16.27	-12.36	243.55	2,339.15	2,175.47	2,142.12	33.35	65.228		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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)					
5,000.00	4,993.35	4,769.38	4,766.58	17.68	16.55	-12.37	243.42	2,346.34	2,177.51	2,143.54	33.97	64.103				
5,100.00	5,093.10	4,841.28	4,838.09	18.05	16.80	-12.35	242.47	2,353.73	2,180.77	2,146.22	34.54	63.131				
5,200.00	5,192.86	4,918.00	4,914.26	18.42	17.07	-12.30	240.66	2,362.69	2,185.26	2,150.13	35.13	62.198				
5,300.00	5,292.62	4,992.76	4,988.37	18.78	17.33	-12.25	238.62	2,372.28	2,190.86	2,155.15	35.71	61.348				
5,400.00	5,392.37	5,116.13	5,110.67	19.15	17.77	-12.17	235.55	2,388.25	2,196.70	2,160.18	36.52	60.148				
5,500.00	5,492.13	5,250.79	5,244.43	19.52	18.25	-12.09	232.43	2,403.41	2,200.77	2,163.39	37.38	58.873				
5,600.00	5,591.89	5,367.97	5,360.98	19.88	18.67	-12.03	229.80	2,415.35	2,203.83	2,165.67	38.16	57.751				
5,700.00	5,691.64	5,461.27	5,453.79	20.25	19.01	-11.99	227.78	2,424.65	2,206.68	2,167.84	38.84	56.820				
5,800.00	5,791.40	5,549.92	5,541.93	20.62	19.33	-11.94	225.71	2,433.85	2,209.91	2,170.41	39.49	55.960				
5,900.00	5,891.16	5,650.87	5,642.28	20.98	19.70	-11.89	223.35	2,444.55	2,213.38	2,173.18	40.20	55.057				
6,000.00	5,990.91	5,757.57	5,748.39	21.35	20.09	-11.83	220.87	2,455.61	2,216.60	2,175.66	40.94	54.143				
6,100.00	6,090.67	5,851.34	5,841.61	21.72	20.43	-11.78	218.74	2,465.40	2,219.92	2,178.30	41.62	53.338				
6,200.00	6,190.42	5,954.57	5,944.24	22.09	20.82	-11.72	215.92	2,476.20	2,223.20	2,180.85	42.34	52.504				
6,300.00	6,290.18	6,048.13	6,037.23	22.45	21.16	-11.65	213.01	2,486.14	2,226.62	2,183.59	43.02	51.753				
6,400.00	6,389.94	6,157.84	6,146.26	22.82	21.57	-11.58	209.96	2,497.92	2,230.20	2,186.42	43.78	50.943				
6,500.00	6,489.69	6,277.66	6,265.46	23.19	22.02	-11.50	206.33	2,509.48	2,232.61	2,188.03	44.58	50.084				
6,600.00	6,589.45	6,373.26	6,360.59	23.56	22.37	-11.43	203.27	2,518.56	2,234.90	2,189.64	45.27	49.369				
6,700.00	6,689.21	6,468.68	6,455.51	23.93	22.73	-11.36	200.36	2,527.85	2,237.45	2,191.49	45.96	48.680				
6,800.00	6,788.96	6,576.80	6,563.09	24.29	23.13	-11.30	197.61	2,538.29	2,239.97	2,193.26	46.71	47.953				
6,900.00	6,888.72	6,680.28	6,666.07	24.66	23.52	-11.24	194.51	2,547.96	2,242.14	2,194.70	47.44	47.262				
7,000.00	6,988.48	6,771.03	6,756.35	25.03	23.86	-11.17	191.49	2,556.60	2,244.46	2,196.34	48.11	46.649				
7,100.00	7,088.23	6,886.94	6,871.70	25.40	24.30	-11.09	187.92	2,567.48	2,246.67	2,197.77	48.90	45.945				
7,200.00	7,187.99	6,976.38	6,960.70	25.77	24.64	-11.03	185.08	2,575.91	2,248.89	2,199.32	49.57	45.370				
7,300.00	7,287.75	7,087.46	7,071.23	26.14	25.06	-10.95	181.34	2,586.18	2,250.94	2,200.60	50.33	44.721				
7,400.00	7,387.50	7,189.33	7,172.64	26.50	25.44	-10.87	177.75	2,595.20	2,252.57	2,201.52	51.06	44.119				
7,500.00	7,487.26	7,283.61	7,266.48	26.87	25.80	-10.80	174.76	2,603.79	2,254.51	2,202.76	51.75	43.566				
7,600.00	7,587.02	7,386.72	7,369.11	27.24	26.19	-10.73	171.51	2,613.13	2,256.40	2,203.92	52.48	42.996				
7,700.00	7,686.77	7,496.29	7,478.19	27.61	26.60	-10.66	167.90	2,622.87	2,258.11	2,204.87	53.24	42.415				
7,800.00	7,786.53	7,597.95	7,579.42	27.98	26.99	-10.58	164.42	2,631.47	2,259.39	2,205.42	53.96	41.869				
7,900.00	7,886.29	7,703.26	7,684.29	28.35	27.39	-10.50	160.55	2,640.42	2,260.68	2,205.98	54.70	41.326				
8,000.00	7,986.04	7,797.26	7,777.87	28.72	27.74	-10.41	156.78	2,648.32	2,261.86	2,206.47	55.40	40.830				
8,100.00	8,085.80	7,909.05	7,889.18	29.09	28.16	-10.32	152.25	2,657.74	2,263.08	2,206.91	56.17	40.293				
8,200.00	8,185.56	7,995.23	7,974.96	29.46	28.49	-10.23	148.23	2,665.00	2,264.23	2,207.40	56.83	39.845				
8,300.00	8,285.31	8,123.33	8,102.47	29.83	28.98	-10.08	141.81	2,675.39	2,265.05	2,207.38	57.66	39.281				
8,400.00	8,385.07	8,218.73	8,197.44	30.20	29.34	-9.97	136.66	2,682.74	2,265.44	2,207.07	58.36	38.816				
8,500.00	8,484.83	8,323.10	8,301.35	30.56	29.73	-9.84	130.86	2,690.71	2,265.76	2,206.66	59.10	38.337				
8,600.00	8,584.58	8,429.71	8,407.53	30.93	30.13	-9.72	125.60	2,698.65	2,265.96	2,206.11	59.85	37.862				
8,700.00	8,684.34	8,529.96	8,507.44	31.30	30.51	-9.62	121.05	2,705.68	2,265.76	2,205.19	60.57	37.408				
8,800.00	8,784.10	8,643.61	8,620.68	31.67	30.93	-9.51	115.87	2,713.81	2,265.73	2,204.39	61.34	36.936				
8,900.00	8,883.85	8,749.21	8,725.96	32.04	31.33	-9.41	111.11	2,720.45	2,264.81	2,202.73	62.08	36.480				
9,000.00	8,983.61	8,871.83	8,848.28	32.41	31.78	-9.32	106.69	2,727.61	2,263.53	2,200.64	62.89	35.993				
9,100.00	9,083.37	8,996.59	8,972.88	32.78	32.24	-9.27	103.68	2,733.25	2,260.97	2,197.28	63.69	35.498				
9,200.00	9,183.12	9,110.58	9,086.77	33.15	32.65	-9.25	101.74	2,737.58	2,257.78	2,193.32	64.46	35.028				
9,300.00	9,282.88	9,210.21	9,186.33	33.52	33.01	-9.23	99.98	2,740.86	2,254.06	2,188.88	65.17	34.586				
9,400.00	9,382.64	9,332.50	9,308.56	33.89	33.44	-9.22	98.63	2,744.56	2,250.15	2,184.19	65.96	34.114				
9,428.07	9,410.64	9,360.64	9,336.68	33.99	33.54	-9.22	98.49	2,745.23	2,248.88	2,182.71	66.16	33.991				
9,500.00	9,482.43	9,435.73	9,411.76	34.26	33.81	-9.22	98.16	2,746.94	2,246.20	2,179.51	66.69	33.684				
9,600.00	9,582.36	9,532.91	9,508.91	34.62	34.12	-9.22	97.79	2,749.01	2,244.57	2,177.21	67.36	33.323				
9,604.12	9,586.48	9,535.96	9,511.97	34.63	34.13	-9.22	97.77	2,749.08	2,244.57	2,177.19	67.38	33.313				
9,694.65	9,677.00	9,603.18	9,579.15	34.95	34.25	86.26	97.56	2,751.02	2,246.09	2,178.27	67.83	33.116				
9,700.00	9,682.35	9,607.15	9,583.12	34.97	34.26	86.26	97.54	2,751.16	2,246.28	2,178.43	67.85	33.106				
9,800.00	9,782.35	9,682.28	9,658.19	35.31	34.39	86.27	97.34	2,754.20	2,250.28	2,181.97	68.32	32.939				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
9,900.00	9,882.35	9,766.08	9,741.89	35.65	34.41	86.28	97.27	2,758.31	2,255.18	2,186.52	68.66	32.844		
10,000.00	9,982.35	11,386.80	10,972.81	35.99	35.70	72.64	540.05	2,394.88	2,218.34	2,153.26	65.08	34.087		
10,044.69	10,027.04	11,388.05	10,972.94	36.14	35.71	72.60	541.21	2,394.44	2,198.31	2,132.67	65.63	33.494		
10,050.00	10,032.35	11,388.20	10,972.96	36.16	35.71	73.27	541.36	2,394.39	2,195.97	2,130.27	65.70	33.425		
10,100.00	10,082.26	11,390.24	10,973.17	36.32	35.72	75.58	543.26	2,393.69	2,173.85	2,107.54	66.31	32.784		
10,150.00	10,131.76	11,393.33	10,973.50	36.49	35.74	77.90	546.14	2,392.63	2,151.67	2,084.76	66.90	32.162		
10,200.00	10,180.46	11,407.00	10,974.95	36.65	35.82	79.94	558.97	2,388.12	2,129.66	2,062.12	67.53	31.536		
10,250.00	10,227.98	11,407.00	10,974.95	36.81	35.82	82.35	558.97	2,388.12	2,107.74	2,039.69	68.05	30.973		
10,300.00	10,273.98	11,407.00	10,974.95	36.95	35.82	84.71	558.97	2,388.12	2,086.27	2,017.73	68.54	30.438		
10,350.00	10,318.11	11,421.23	10,976.43	37.09	35.91	86.67	572.39	2,383.62	2,065.30	1,996.22	69.08	29.896		
10,400.00	10,360.01	11,439.00	10,978.19	37.21	36.02	88.49	589.23	2,378.23	2,044.95	1,975.34	69.61	29.375		
10,450.00	10,399.38	11,457.02	10,979.88	37.32	36.14	90.26	606.36	2,372.90	2,025.25	1,955.13	70.12	28.883		
10,500.00	10,435.92	11,470.00	10,981.03	37.42	36.23	92.05	618.72	2,369.10	2,006.24	1,935.68	70.56	28.435		
10,550.00	10,469.35	11,470.00	10,981.03	37.51	36.23	93.96	618.72	2,369.10	1,988.40	1,917.52	70.87	28.055		
10,600.00	10,499.41	11,508.00	10,983.91	37.59	36.49	95.17	655.15	2,358.71	1,970.98	1,899.55	71.43	27.593		
10,650.00	10,525.87	11,524.27	10,984.88	37.66	36.60	96.62	670.89	2,354.68	1,955.07	1,883.27	71.80	27.228		
10,700.00	10,548.54	11,565.00	10,986.66	37.74	36.89	97.70	710.57	2,345.73	1,940.81	1,868.47	72.33	26.832		
10,750.00	10,567.24	11,565.00	10,986.66	37.84	36.89	99.10	710.57	2,345.73	1,927.17	1,854.64	72.53	26.571		
10,800.00	10,581.83	11,588.13	10,987.36	37.97	37.06	100.17	733.23	2,341.16	1,915.22	1,842.33	72.89	26.277		
10,850.00	10,592.19	11,624.21	10,988.31	38.11	37.33	101.10	768.63	2,334.25	1,904.42	1,831.09	73.32	25.973		
10,900.00	10,598.26	11,661.32	10,989.12	38.25	37.61	102.00	805.11	2,327.43	1,894.76	1,821.02	73.74	25.695		
10,944.69	10,600.00	11,703.95	10,989.85	38.39	37.97	102.78	847.04	2,319.78	1,887.04	1,812.84	74.20	25.433		
11,000.00	10,600.00	11,757.02	10,990.49	38.56	38.42	102.86	899.25	2,310.35	1,877.99	1,803.22	74.76	25.119		
11,100.00	10,600.00	11,857.97	10,991.48	38.91	39.36	103.01	998.59	2,292.36	1,861.52	1,785.57	75.95	24.509		
11,200.00	10,600.00	11,936.88	10,992.46	39.31	40.15	103.14	1,076.29	2,278.68	1,845.60	1,768.57	77.03	23.959		
11,300.00	10,600.00	12,020.30	10,993.40	39.76	41.03	103.26	1,158.59	2,265.05	1,830.64	1,752.38	78.26	23.393		
11,400.00	10,600.00	12,086.95	10,993.85	40.25	41.77	103.34	1,224.48	2,255.00	1,816.87	1,737.49	79.39	22.887		
11,500.00	10,600.00	12,151.17	10,994.43	40.79	42.49	103.42	1,288.14	2,246.63	1,805.07	1,724.52	80.55	22.408		
11,600.00	10,600.00	12,225.00	10,996.16	41.37	43.34	103.53	1,361.46	2,238.15	1,795.09	1,713.20	81.89	21.921		
11,700.00	10,600.00	12,318.18	10,998.51	41.99	44.45	103.68	1,454.08	2,228.26	1,786.05	1,702.52	83.53	21.382		
11,800.00	10,600.00	12,408.46	11,000.46	42.65	45.58	103.80	1,543.86	2,218.93	1,777.23	1,692.01	85.22	20.854		
11,900.00	10,600.00	12,484.37	11,002.30	43.35	46.55	103.91	1,619.41	2,211.74	1,769.32	1,682.52	86.80	20.383		
12,000.00	10,600.00	12,593.09	11,003.66	44.09	47.97	104.02	1,727.73	2,202.55	1,762.16	1,673.27	88.88	19.826		
12,100.00	10,600.00	12,678.05	11,003.67	44.86	49.12	104.07	1,812.39	2,195.45	1,754.77	1,664.04	90.73	19.340		
12,200.00	10,600.00	12,802.80	11,004.76	45.67	50.86	104.19	1,936.67	2,184.79	1,747.46	1,654.29	93.18	18.754		
12,300.00	10,600.00	12,872.99	11,006.60	46.50	51.87	104.29	2,006.56	2,178.57	1,740.16	1,645.22	94.93	18.330		
12,400.00	10,600.00	13,000.29	11,011.49	47.37	53.74	104.54	2,133.24	2,166.95	1,733.02	1,635.51	97.51	17.772		
12,500.00	10,600.00	13,099.16	11,015.03	48.26	55.25	104.72	2,231.58	2,157.41	1,725.28	1,625.50	99.77	17.292		
12,600.00	10,600.00	13,210.91	11,018.64	49.18	56.98	104.94	2,342.62	2,145.33	1,716.29	1,614.02	102.26	16.783		
12,700.00	10,600.00	13,284.13	11,021.48	50.13	58.13	105.09	2,415.39	2,137.84	1,708.15	1,603.90	104.24	16.386		
12,800.00	10,600.00	13,358.03	11,023.84	51.10	59.29	105.21	2,489.03	2,132.09	1,702.03	1,595.77	106.26	16.017		
12,900.00	10,600.00	13,422.07	11,025.45	52.09	60.29	105.29	2,552.94	2,128.42	1,697.67	1,589.52	108.15	15.697		
13,000.00	10,600.00	13,526.73	11,027.59	53.10	61.94	105.40	2,657.46	2,123.29	1,694.21	1,583.51	110.70	15.304		
13,100.00	10,600.00	13,640.48	11,029.02	54.14	63.76	105.50	2,771.01	2,116.92	1,689.85	1,576.41	113.44	14.896		
13,200.00	10,600.00	13,728.73	11,031.00	55.19	65.19	105.60	2,859.09	2,111.70	1,685.46	1,569.65	115.81	14.554		
13,300.00	10,600.00	13,807.80	11,034.19	56.26	66.48	105.74	2,937.97	2,107.41	1,682.02	1,564.00	118.03	14.251		
13,400.00	10,600.00	13,908.19	11,039.81	57.35	68.13	105.97	3,038.08	2,102.37	1,679.43	1,558.84	120.58	13.928		
13,500.00	10,600.00	13,997.33	11,043.86	58.45	69.60	106.13	3,127.02	2,098.16	1,676.85	1,553.86	122.99	13.634		
13,600.00	10,600.00	14,126.12	11,047.02	59.57	71.75	106.28	3,255.65	2,092.46	1,674.03	1,547.92	126.11	13.274		
13,700.00	10,600.00	14,213.51	11,048.33	60.71	73.22	106.36	3,342.93	2,088.26	1,670.55	1,541.95	128.60	12.991		
13,800.00	10,600.00	14,306.50	11,049.18	61.85	74.80	106.42	3,435.83	2,084.53	1,667.66	1,536.47	131.20	12.711		
13,900.00	10,600.00	14,410.18	11,048.79	63.01	76.56	106.44	3,539.44	2,080.70	1,664.71	1,530.69	134.03	12.421		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,000.00	10,600.00	14,485.94	11,048.94	64.18	77.85	106.46	3,615.16	2,078.38	1,662.53	1,526.15	136.38	12.191	
14,100.00	10,600.00	14,596.96	11,050.80	65.37	79.75	106.54	3,726.12	2,075.02	1,660.82	1,521.48	139.34	11.919	
14,200.00	10,600.00	14,670.08	11,052.58	66.56	81.00	106.62	3,799.19	2,073.07	1,659.61	1,517.98	141.63	11.718	
14,300.00	10,600.00	14,782.95	11,056.40	67.76	82.95	106.76	3,911.96	2,070.25	1,658.91	1,514.29	144.62	11.471	
14,400.00	10,600.00	14,901.08	11,060.05	68.98	85.01	106.92	4,029.94	2,065.50	1,656.58	1,508.86	147.72	11.214	
14,500.00	10,600.00	14,987.91	11,063.02	70.20	86.53	107.04	4,116.66	2,062.45	1,654.88	1,504.60	150.29	11.011	
14,600.00	10,600.00	15,092.15	11,066.35	71.43	88.37	107.19	4,220.76	2,058.23	1,652.63	1,499.46	153.17	10.790	
14,691.81	10,600.00	15,154.00	11,068.47	72.57	89.46	107.27	4,282.55	2,056.55	1,651.81	1,496.60	155.21	10.642	
14,700.00	10,600.00	15,160.41	11,068.71	72.67	89.57	107.28	4,288.96	2,056.43	1,651.82	1,496.41	155.41	10.629	
14,800.00	10,600.00	15,248.82	11,072.81	73.92	91.12	107.43	4,377.25	2,054.93	1,652.28	1,494.30	157.98	10.459	
14,900.00	10,600.00	15,362.69	11,078.73	75.17	93.13	107.64	4,490.96	2,052.86	1,652.84	1,491.81	161.03	10.264	
15,000.00	10,600.00	15,485.04	11,084.26	76.44	95.30	107.85	4,613.11	2,048.82	1,651.68	1,487.45	164.24	10.057	
15,100.00	10,600.00	15,582.11	11,087.56	77.70	97.04	107.98	4,710.07	2,045.83	1,650.48	1,483.46	167.03	9.881	
15,166.26	10,600.00	15,629.00	11,089.05	78.55	97.88	108.04	4,756.92	2,044.42	1,649.82	1,481.25	168.57	9.787 CC, ES	
15,200.00	10,600.00	15,629.00	11,089.05	78.98	97.88	108.04	4,756.92	2,044.42	1,650.17	1,481.30	168.87	9.772	
15,300.00	10,600.00	15,629.00	11,089.05	80.26	97.88	108.04	4,756.92	2,044.42	1,655.23	1,485.80	169.43	9.769 SF	
15,400.00	10,600.00	15,629.00	11,089.05	81.55	97.88	108.04	4,756.92	2,044.42	1,666.30	1,496.79	169.51	9.830	
15,484.47	10,600.00	15,629.00	11,089.05	82.64	97.88	108.04	4,756.92	2,044.42	1,680.23	1,511.02	169.21	9.930	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	0.90	0.90	0.50	0.50	-90.38	-0.20	-30.00	30.00				
100.00	100.00	100.90	100.90	0.52	0.52	-90.38	-0.20	-30.00	30.00	28.96	1.04	28.948	
200.00	200.00	200.90	200.90	0.70	0.70	-90.38	-0.20	-30.00	30.00	28.59	1.41	21.330	
300.00	300.00	300.90	300.90	0.99	0.99	-90.38	-0.20	-30.00	30.00	28.02	1.98	15.171	
400.00	400.00	400.90	400.90	1.31	1.31	-90.38	-0.20	-30.00	30.00	27.38	2.62	11.446	
500.00	500.00	500.90	500.90	1.65	1.65	-90.38	-0.20	-30.00	30.00	26.71	3.30	9.104	
600.00	600.00	600.90	600.90	1.99	1.99	-90.38	-0.20	-30.00	30.00	26.02	3.98	7.530	
700.00	700.00	700.90	700.90	2.34	2.34	-90.38	-0.20	-30.00	30.00	25.32	4.68	6.408	
800.00	800.00	800.90	800.90	2.69	2.69	-90.38	-0.20	-30.00	30.00	24.62	5.38	5.572	
900.00	900.00	900.90	900.90	3.04	3.05	-90.38	-0.20	-30.00	30.00	23.91	6.09	4.926 Alert	
1,000.00	1,000.00	1,000.90	1,000.90	3.40	3.40	-90.38	-0.20	-30.00	30.00	23.20	6.80	4.413 Alert	
1,100.00	1,100.00	1,100.90	1,100.90	3.75	3.76	-90.38	-0.20	-30.00	30.00	22.49	7.51	3.996 Alert	
1,200.00	1,200.00	1,200.90	1,200.90	4.11	4.11	-90.38	-0.20	-30.00	30.00	21.78	8.22	3.650 Alert	
1,300.00	1,300.00	1,300.90	1,300.90	4.46	4.47	-90.38	-0.20	-30.00	30.00	21.07	8.93	3.359 Alert	
1,400.00	1,400.00	1,400.90	1,400.90	4.82	4.82	-90.38	-0.20	-30.00	30.00	20.36	9.64	3.111 Alert	
1,500.00	1,500.00	1,500.90	1,500.90	5.18	5.18	-90.38	-0.20	-30.00	30.00	19.64	10.36	2.896 Alert	
1,600.00	1,600.00	1,600.90	1,600.90	5.53	5.54	-90.38	-0.20	-30.00	30.00	18.93	11.07	2.710 Alert	
1,700.00	1,700.00	1,700.90	1,700.90	5.89	5.89	-90.38	-0.20	-30.00	30.00	18.22	11.79	2.546 Alert	
1,800.00	1,800.00	1,800.90	1,800.90	6.25	6.25	-90.38	-0.20	-30.00	30.00	17.50	12.50	2.400 Minor Risk	
1,900.00	1,900.00	1,900.90	1,900.90	6.61	6.61	-90.38	-0.20	-30.00	30.00	16.79	13.21	2.270 Minor Risk	
2,000.00	2,000.00	2,000.90	2,000.90	6.96	6.97	-90.38	-0.20	-30.00	30.00	16.07	13.93	2.154 Minor Risk	
2,100.00	2,099.99	2,100.89	2,100.89	7.31	7.32	174.31	-0.20	-30.00	30.87	16.23	14.64	2.109 Minor Risk	
2,200.00	2,199.96	2,200.86	2,200.86	7.65	7.68	174.75	-0.20	-30.00	33.47	18.14	15.33	2.183 Minor Risk	
2,300.00	2,299.86	2,300.76	2,300.76	7.99	8.04	175.35	-0.20	-30.00	37.82	21.79	16.03	2.359 Minor Risk	
2,399.87	2,399.54	2,400.44	2,400.44	8.34	8.40	175.99	-0.20	-30.00	43.90	27.17	16.73	2.624 Alert	
2,500.00	2,499.43	2,500.33	2,500.33	8.69	8.75	176.54	-0.20	-30.00	50.87	33.44	17.43	2.918 Alert	
2,600.00	2,599.19	2,600.09	2,600.09	9.03	9.11	176.96	-0.20	-30.00	57.83	39.70	18.13	3.189 Alert	
2,700.00	2,698.94	2,699.84	2,699.84	9.39	9.47	177.28	-0.20	-30.00	64.79	45.96	18.83	3.440 Alert	
2,800.00	2,798.70	2,800.85	2,800.84	9.74	9.82	177.48	-0.33	-29.12	70.89	51.36	19.53	3.630 Alert	
2,900.00	2,898.46	2,902.04	2,902.00	10.09	10.16	177.52	-0.73	-26.48	75.23	55.01	20.21	3.721 Alert	
3,000.00	2,998.21	3,003.35	3,003.21	10.45	10.51	177.43	-1.39	-22.06	77.81	56.91	20.90	3.723 Alert	
3,100.00	3,097.97	3,104.73	3,104.39	10.80	10.85	177.22	-2.31	-15.87	78.63	57.06	21.58	3.644 Alert	
3,200.00	3,197.73	3,206.10	3,205.44	11.16	11.20	176.87	-3.50	-7.91	77.70	55.44	22.25	3.492 Alert	
3,300.00	3,297.48	3,307.41	3,306.27	11.52	11.56	176.36	-4.95	1.81	75.01	52.08	22.92	3.272 Alert	
3,400.00	3,397.24	3,408.58	3,406.77	11.88	11.91	175.64	-6.66	13.28	70.57	46.98	23.59	2.992 Alert	
3,500.00	3,497.00	3,509.56	3,506.87	12.24	12.27	174.58	-8.63	26.47	64.41	40.15	24.25	2.656 Alert	
3,600.00	3,596.75	3,610.29	3,606.46	12.60	12.63	173.01	-10.86	41.37	56.53	31.63	24.91	2.270 Minor Risk	
3,700.00	3,696.51	3,710.70	3,705.47	12.96	13.00	170.47	-13.33	57.94	47.01	21.44	25.57	1.839 Minor Risk	
3,800.00	3,796.27	3,810.74	3,803.79	13.32	13.37	165.89	-16.05	76.15	35.95	9.72	26.23	1.371 Major Risk	
3,900.00	3,896.02	3,909.93	3,901.16	13.68	13.75	156.73	-18.84	94.88	24.70	-2.30	27.00	0.915 Collision	
4,000.00	3,995.78	4,009.18	3,998.58	14.04	14.13	134.38	-21.64	113.62	15.01	-12.91	27.93	0.538 Collision	
4,078.77	4,074.36	4,087.36	4,075.32	14.33	14.43	94.71	-23.85	128.39	11.52	-17.23	28.76	0.401 Collision, CC, ES, SF	
4,100.00	4,095.54	4,108.43	4,096.01	14.40	14.51	82.12	-24.44	132.37	11.81	-17.08	28.89	0.409 Collision	
4,200.00	4,195.29	4,207.68	4,193.43	14.77	14.90	42.80	-27.24	151.11	18.77	-10.49	29.26	0.641 Collision	
4,300.00	4,295.05	4,306.93	4,290.86	15.13	15.29	27.95	-30.04	169.86	29.39	-0.43	29.82	0.985 Collision	
4,400.00	4,394.81	4,406.18	4,388.28	15.49	15.68	21.19	-32.84	188.61	40.91	10.43	30.48	1.342 Major Risk	
4,500.00	4,494.56	4,505.43	4,485.70	15.86	16.08	17.42	-35.64	207.35	52.75	21.58	31.17	1.692 Minor Risk	
4,600.00	4,594.32	4,604.68	4,583.13	16.22	16.48	15.04	-38.43	226.10	64.73	32.86	31.87	2.031 Minor Risk	
4,700.00	4,694.08	4,703.93	4,680.55	16.59	16.88	13.41	-41.23	244.84	76.78	44.21	32.57	2.357 Minor Risk	
4,800.00	4,793.83	4,803.18	4,777.98	16.95	17.28	12.22	-44.03	263.59	88.89	55.60	33.28	2.671 Alert	
4,900.00	4,893.59	4,902.43	4,875.40	17.32	17.69	11.31	-46.83	282.33	101.02	67.02	34.00	2.971 Alert	
5,000.00	4,993.35	5,001.68	4,972.82	17.68	18.10	10.60	-49.63	301.08	113.16	78.45	34.71	3.260 Alert	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	5,100.93	5,070.25	18.05	18.51	10.03	-52.43	319.83	125.33	89.90	35.43	3.538	Alert	
5,200.00	5,192.86	5,200.18	5,167.67	18.42	18.92	9.56	-55.23	338.57	137.50	101.36	36.14	3.804	Alert	
5,300.00	5,292.62	5,300.57	5,265.10	18.78	19.34	9.16	-58.03	357.32	149.68	112.81	36.87	4.060	Alert	
5,400.00	5,392.37	5,398.69	5,362.52	19.15	19.75	8.83	-60.82	376.06	161.87	124.29	37.58	4.307	Alert	
5,500.00	5,492.13	5,497.94	5,459.94	19.52	20.16	8.54	-63.62	394.81	174.06	135.76	38.30	4.544	Alert	
5,600.00	5,591.89	5,602.81	5,557.37	19.88	20.61	8.29	-66.42	413.55	186.25	147.21	39.04	4.770	Alert	
5,700.00	5,691.64	5,696.44	5,654.79	20.25	21.00	8.07	-69.22	432.30	198.45	158.71	39.74	4.993	Alert	
5,800.00	5,791.40	5,804.31	5,752.22	20.62	21.46	7.87	-72.02	451.05	210.65	170.15	40.50	5.201		
5,900.00	5,891.16	5,905.06	5,849.64	20.98	21.89	7.70	-74.82	469.79	222.86	181.63	41.23	5.405		
6,000.00	5,990.91	6,005.81	5,947.06	21.35	22.32	7.54	-77.62	488.54	235.06	193.10	41.96	5.602		
6,100.00	6,090.67	6,093.44	6,044.49	21.72	22.69	7.40	-80.42	507.28	247.27	204.63	42.64	5.799		
6,200.00	6,190.42	6,192.69	6,141.91	22.09	23.12	7.28	-83.21	526.03	259.47	216.11	43.36	5.984		
6,300.00	6,290.18	6,308.06	6,239.34	22.45	23.61	7.16	-86.01	544.77	271.68	227.53	44.15	6.154		
6,400.00	6,389.94	6,391.19	6,336.76	22.82	23.97	7.06	-88.81	563.52	283.89	239.08	44.82	6.335		
6,500.00	6,489.69	6,509.56	6,434.18	23.19	24.48	6.96	-91.61	582.27	296.10	250.49	45.61	6.491		
6,600.00	6,589.45	6,589.69	6,531.61	23.56	24.82	6.87	-94.41	601.01	308.31	262.04	46.27	6.663		
6,700.00	6,689.21	6,688.94	6,629.03	23.93	25.25	6.79	-97.21	619.76	320.53	273.53	47.00	6.820		
6,800.00	6,788.96	6,788.19	6,726.46	24.29	25.68	6.71	-100.01	638.50	332.74	285.01	47.73	6.972		
6,900.00	6,888.72	6,887.44	6,823.88	24.66	26.11	6.64	-102.81	657.25	344.95	296.50	48.45	7.119		
7,000.00	6,988.48	6,986.69	6,921.30	25.03	26.54	6.58	-105.60	675.99	357.16	307.98	49.18	7.262		
7,100.00	7,088.23	7,085.94	7,018.73	25.40	26.98	6.51	-108.40	694.74	369.38	319.47	49.91	7.401		
7,200.00	7,187.99	7,185.20	7,116.15	25.77	27.41	6.46	-111.20	713.49	381.59	330.95	50.64	7.535		
7,300.00	7,287.75	7,284.45	7,213.58	26.14	27.84	6.40	-114.00	732.23	393.81	342.44	51.37	7.666		
7,400.00	7,387.50	7,383.70	7,311.00	26.50	28.28	6.35	-116.80	750.98	406.02	353.92	52.10	7.793		
7,500.00	7,487.26	7,482.95	7,408.42	26.87	28.71	6.30	-119.60	769.72	418.24	365.41	52.83	7.916		
7,600.00	7,587.02	7,582.20	7,505.85	27.24	29.14	6.26	-122.40	788.47	430.45	376.89	53.56	8.036		
7,700.00	7,686.77	7,681.45	7,603.27	27.61	29.58	6.22	-125.19	807.21	442.67	388.38	54.29	8.153		
7,800.00	7,786.53	7,780.70	7,700.70	27.98	30.01	6.18	-127.99	825.96	454.89	399.86	55.03	8.267		
7,900.00	7,886.29	7,879.95	7,798.12	28.35	30.45	6.14	-130.79	844.71	467.10	411.35	55.76	8.378		
8,000.00	7,986.04	7,979.20	7,895.54	28.72	30.89	6.10	-133.59	863.45	479.32	422.83	56.49	8.485		
8,100.00	8,085.80	8,078.45	7,992.97	29.09	31.32	6.07	-136.39	882.20	491.54	434.31	57.22	8.590		
8,200.00	8,185.56	8,179.68	8,092.34	29.46	31.77	6.03	-139.24	901.29	503.73	445.75	57.98	8.688		
8,300.00	8,285.31	8,294.42	8,205.35	29.83	32.26	6.01	-142.16	920.84	514.06	455.17	58.89	8.729		
8,400.00	8,385.07	8,409.76	8,319.52	30.20	32.73	6.01	-144.59	937.11	521.40	461.65	59.76	8.725		
8,500.00	8,484.83	8,525.52	8,434.53	30.56	33.18	6.03	-146.51	950.00	525.73	465.15	60.58	8.678		
8,600.00	8,584.58	8,641.47	8,550.09	30.93	33.61	6.06	-147.92	959.44	527.03	465.67	61.36	8.590		
8,700.00	8,684.34	8,757.40	8,665.86	31.30	34.01	6.12	-148.81	965.42	525.29	463.21	62.08	8.461		
8,800.00	8,784.10	8,873.11	8,781.53	31.67	34.40	6.20	-149.19	967.92	520.53	457.78	62.75	8.295		
8,900.00	8,883.85	8,976.33	8,884.75	32.04	34.72	6.29	-149.20	968.00	513.67	450.24	63.44	8.097		
9,000.00	8,983.61	9,076.09	8,984.51	32.41	35.04	6.37	-149.20	968.00	506.74	442.61	64.14	7.901		
9,100.00	9,083.37	9,175.84	9,084.27	32.78	35.36	6.46	-149.20	968.00	499.81	434.98	64.83	7.709		
9,200.00	9,183.12	9,281.70	9,190.10	33.15	35.69	6.45	-148.25	967.99	492.72	427.22	65.50	7.523		
9,300.00	9,282.88	9,400.29	9,306.94	33.52	36.05	6.44	-129.24	967.85	482.58	416.53	66.05	7.306		
9,400.00	9,382.64	9,506.75	9,406.53	33.89	36.34	-0.09	-92.03	967.58	470.42	403.67	66.76	7.047		
9,428.07	9,410.64	9,533.76	9,430.55	33.99	36.40	-1.61	-79.70	967.49	467.20	400.20	67.00	6.973		
9,500.00	9,482.43	9,596.94	9,484.30	34.26	36.54	-5.73	-46.54	967.25	461.19	393.50	67.69	6.813		
9,548.96	9,531.35	9,635.14	9,514.91	34.43	36.62	-8.59	-23.70	967.08	459.86	391.70	68.15	6.747		
9,600.00	9,582.36	9,671.08	9,542.25	34.62	36.68	-11.51	-0.39	966.91	461.47	392.93	68.54	6.733		
9,694.65	9,677.00	9,728.36	9,582.66	34.95	36.77	78.93	40.17	966.61	473.93	405.16	68.77	6.891		
9,700.00	9,682.35	9,731.27	9,584.60	34.97	36.77	78.66	42.34	966.60	475.02	406.26	68.76	6.908		
9,800.00	9,782.35	9,780.06	9,615.49	35.31	36.84	74.17	80.09	966.32	502.12	434.08	68.05	7.379		
9,900.00	9,882.35	9,819.84	9,638.23	35.65	36.88	70.44	112.72	966.08	541.56	475.08	66.48	8.146		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	9,982.35	9,850.00	9,653.93	35.99	36.91	67.60	138.47	965.89	592.05	527.73	64.32	9.204		
10,044.69	10,027.04	9,865.37	9,661.40	36.14	36.92	66.17	151.90	965.80	617.70	554.32	63.38	9.746		
10,050.00	10,032.35	9,866.84	9,662.09	36.16	36.92	66.09	153.19	965.79	620.85	557.59	63.26	9.814		
10,100.00	10,082.26	9,881.15	9,668.69	36.32	36.93	61.49	165.89	965.69	650.84	588.71	62.12	10.477		
10,150.00	10,131.76	9,900.00	9,676.90	36.49	36.95	56.81	182.86	965.57	681.02	619.91	61.11	11.145		
10,200.00	10,180.46	9,912.16	9,681.89	36.65	36.95	52.95	193.94	965.49	710.95	651.04	59.91	11.867		
10,250.00	10,227.98	9,928.63	9,688.28	36.81	36.96	49.18	209.13	965.38	740.35	681.48	58.87	12.576		
10,300.00	10,273.98	9,950.00	9,695.92	36.95	36.98	45.59	229.08	965.23	768.93	710.94	57.99	13.259		
10,350.00	10,318.11	9,963.09	9,700.22	37.09	36.98	42.77	241.45	965.14	796.36	739.41	56.95	13.982		
10,400.00	10,360.01	9,980.94	9,705.64	37.21	36.99	40.12	258.45	965.02	822.52	766.43	56.09	14.665		
10,450.00	10,399.38	10,000.00	9,710.83	37.32	37.00	37.78	276.79	964.88	847.19	791.88	55.31	15.318		
10,500.00	10,435.92	10,017.61	9,715.09	37.42	37.01	35.80	293.88	964.76	870.22	815.65	54.57	15.946		
10,550.00	10,469.35	10,036.35	9,719.03	37.51	37.02	34.07	312.19	964.62	891.47	837.54	53.94	16.528		
10,600.00	10,499.41	10,050.00	9,721.53	37.59	37.03	32.67	325.61	964.52	910.87	857.55	53.32	17.082		
10,650.00	10,525.87	10,074.44	9,725.20	37.66	37.04	31.34	349.78	964.35	928.21	875.26	52.95	17.530		
10,700.00	10,548.54	10,100.00	9,727.94	37.74	37.06	30.23	375.18	964.16	943.56	890.89	52.66	17.916		
10,750.00	10,567.24	10,113.17	9,728.90	37.84	37.06	29.44	388.32	964.07	956.66	904.29	52.37	18.267		
10,800.00	10,581.83	10,132.70	9,729.78	37.97	37.08	28.75	407.83	963.92	967.61	915.36	52.25	18.519		
10,850.00	10,592.19	10,157.90	9,730.00	38.11	37.10	28.19	433.02	963.74	976.27	924.02	52.26	18.682		
10,900.00	10,598.26	10,207.52	9,730.00	38.25	37.15	27.77	482.64	963.37	981.64	929.22	52.42	18.725		
10,944.69	10,600.00	10,252.16	9,730.00	38.39	37.21	27.65	527.28	963.05	983.18	930.54	52.64	18.677		
11,000.00	10,600.00	10,307.47	9,730.00	38.56	37.31	27.65	582.59	962.64	983.18	930.23	52.95	18.567		
11,100.00	10,600.00	10,407.47	9,730.00	38.91	37.55	27.65	682.59	961.91	983.18	929.61	53.57	18.353		
11,200.00	10,600.00	10,507.47	9,730.00	39.31	37.88	27.65	782.59	961.18	983.19	928.93	54.25	18.122		
11,300.00	10,600.00	10,607.47	9,730.00	39.76	38.29	27.65	882.58	960.45	983.19	928.19	54.99	17.878		
11,400.00	10,600.00	10,707.47	9,730.00	40.25	38.77	27.65	982.58	959.71	983.19	927.40	55.79	17.623		
11,500.00	10,600.00	10,807.47	9,730.00	40.79	39.31	27.65	1,082.58	958.98	983.19	926.55	56.64	17.358		
11,600.00	10,600.00	10,907.47	9,730.00	41.37	39.91	27.65	1,182.57	958.25	983.19	925.64	57.55	17.084		
11,700.00	10,600.00	11,007.47	9,730.00	41.99	40.55	27.65	1,282.57	957.52	983.19	924.68	58.51	16.805		
11,800.00	10,600.00	11,107.47	9,730.00	42.65	41.24	27.65	1,382.57	956.79	983.19	923.68	59.51	16.521		
11,900.00	10,600.00	11,207.47	9,730.00	43.35	41.98	27.65	1,482.57	956.05	983.19	922.63	60.56	16.235		
12,000.00	10,600.00	11,307.47	9,730.00	44.09	42.75	27.65	1,582.56	955.32	983.19	921.54	61.65	15.948		
12,100.00	10,600.00	11,407.47	9,730.00	44.86	43.56	27.65	1,682.56	954.59	983.19	920.41	62.78	15.660		
12,200.00	10,600.00	11,507.47	9,730.00	45.67	44.40	27.65	1,782.56	953.86	983.20	919.24	63.96	15.373		
12,300.00	10,600.00	11,607.47	9,730.00	46.50	45.28	27.65	1,882.56	953.13	983.20	918.03	65.16	15.088		
12,400.00	10,600.00	11,707.47	9,730.00	47.37	46.18	27.65	1,982.55	952.39	983.20	916.79	66.41	14.805		
12,500.00	10,600.00	11,807.47	9,730.00	48.26	47.11	27.65	2,082.55	951.66	983.20	915.52	67.68	14.526		
12,600.00	10,600.00	11,907.47	9,730.00	49.18	48.07	27.65	2,182.55	950.93	983.20	914.21	68.99	14.251		
12,700.00	10,600.00	12,007.47	9,730.00	50.13	49.05	27.65	2,282.54	950.20	983.20	912.87	70.33	13.980		
12,800.00	10,600.00	12,107.47	9,730.00	51.10	50.06	27.65	2,382.54	949.47	983.20	911.51	71.69	13.715		
12,900.00	10,600.00	12,207.47	9,730.00	52.09	51.09	27.65	2,482.54	948.73	983.20	910.12	73.08	13.454		
13,000.00	10,600.00	12,307.47	9,730.00	53.10	52.13	27.65	2,582.54	948.00	983.20	908.71	74.49	13.198		
13,100.00	10,600.00	12,407.47	9,730.00	54.14	53.20	27.65	2,682.53	947.27	983.21	907.27	75.93	12.949		
13,200.00	10,600.00	12,507.47	9,730.00	55.19	54.29	27.65	2,782.53	946.54	983.21	905.82	77.39	12.704		
13,300.00	10,600.00	12,607.47	9,730.00	56.26	55.39	27.65	2,882.53	945.81	983.21	904.34	78.87	12.466		
13,400.00	10,600.00	12,707.47	9,730.00	57.35	56.51	27.65	2,982.53	945.07	983.21	902.84	80.37	12.233		
13,500.00	10,600.00	12,807.47	9,730.00	58.45	57.64	27.65	3,082.52	944.34	983.21	901.32	81.89	12.007		
13,600.00	10,600.00	12,907.47	9,730.00	59.57	58.79	27.65	3,182.52	943.61	983.21	899.79	83.43	11.786		
13,700.00	10,600.00	13,007.47	9,730.00	60.71	59.95	27.65	3,282.52	942.88	983.21	898.23	84.98	11.570		
13,800.00	10,600.00	13,107.47	9,730.00	61.85	61.12	27.65	3,382.52	942.15	983.21	896.67	86.55	11.361		
13,900.00	10,600.00	13,207.47	9,730.00	63.01	62.30	27.65	3,482.51	941.41	983.21	895.09	88.13	11.157		
14,000.00	10,600.00	13,307.47	9,730.00	64.18	63.50	27.65	3,582.51	940.68	983.22	893.49	89.73	10.958		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,100.00	10,600.00	13,407.47	9,730.00	65.37	64.71	27.65	3,682.51	939.95	983.22	891.88	91.34	10.765	
14,200.00	10,600.00	13,507.47	9,730.00	66.56	65.92	27.65	3,782.50	939.22	983.22	890.26	92.96	10.577	
14,300.00	10,600.00	13,607.47	9,730.00	67.76	67.15	27.65	3,882.50	938.49	983.22	888.63	94.59	10.394	
14,400.00	10,600.00	13,707.47	9,730.00	68.98	68.39	27.65	3,982.50	937.75	983.22	886.98	96.24	10.216	
14,500.00	10,600.00	13,807.47	9,730.00	70.20	69.63	27.65	4,082.50	937.02	983.22	885.33	97.90	10.043	
14,600.00	10,600.00	13,907.47	9,730.00	71.43	70.88	27.65	4,182.49	936.29	983.22	883.66	99.56	9.875	
14,700.00	10,600.00	14,007.47	9,730.00	72.67	72.14	27.65	4,282.49	935.56	983.22	881.98	101.24	9.712	
14,800.00	10,600.00	14,107.47	9,730.00	73.92	73.41	27.65	4,382.49	934.83	983.22	880.30	102.93	9.553	
14,900.00	10,600.00	14,207.47	9,730.00	75.17	74.68	27.66	4,482.49	934.09	983.23	878.60	104.62	9.398	
15,000.00	10,600.00	14,307.47	9,730.00	76.44	75.96	27.66	4,582.48	933.36	983.23	876.90	106.33	9.247	
15,100.00	10,600.00	14,407.47	9,730.00	77.70	77.25	27.66	4,682.48	932.63	983.23	875.19	108.04	9.101	
15,200.00	10,600.00	14,507.47	9,730.00	78.98	78.54	27.66	4,782.48	931.90	983.23	873.47	109.76	8.958	
15,300.00	10,600.00	14,607.47	9,730.00	80.26	79.84	27.66	4,882.48	931.17	983.23	871.75	111.48	8.820	
15,400.00	10,600.00	14,707.47	9,730.00	81.55	81.14	27.66	4,982.47	930.43	983.23	870.02	113.22	8.685	
15,484.47	10,600.00	14,808.06	9,730.00	82.64	82.46	27.66	5,066.94	929.81	983.23	868.41	114.83	8.563	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.90	92.04	1,700.02	1,702.66					
100.00	100.00	77.50	77.50	0.52	0.51	86.90	92.04	1,700.02	1,702.51	1,701.48	1.03	1,655.346		
200.00	200.00	177.50	177.50	0.70	0.65	86.90	92.04	1,700.02	1,702.51	1,701.16	1.35	1,260.996		
300.00	300.00	277.50	277.50	0.99	0.92	86.90	92.04	1,700.02	1,702.51	1,700.61	1.91	893.225		
400.00	400.00	377.50	377.50	1.31	1.23	86.90	92.04	1,700.02	1,702.51	1,699.97	2.54	669.221		
500.00	500.00	477.50	477.50	1.65	1.57	86.90	92.04	1,700.02	1,702.51	1,699.30	3.22	529.467		
600.00	600.00	577.50	577.50	1.99	1.91	86.90	92.04	1,700.02	1,702.51	1,698.61	3.90	436.179		
700.00	700.00	677.50	677.50	2.34	2.26	86.90	92.04	1,700.02	1,702.51	1,697.91	4.60	370.119		
800.00	800.00	777.50	777.50	2.69	2.61	86.90	92.04	1,700.02	1,702.51	1,697.21	5.30	321.109		
900.00	900.00	877.50	877.50	3.04	2.96	86.90	92.04	1,700.02	1,702.51	1,696.51	6.01	283.395		
1,000.00	1,000.00	977.50	977.50	3.40	3.32	86.90	92.04	1,700.02	1,702.51	1,695.80	6.72	253.517		
1,100.00	1,100.00	1,077.50	1,077.50	3.75	3.67	86.90	92.04	1,700.02	1,702.51	1,695.09	7.43	229.286		
1,200.00	1,200.00	1,177.50	1,177.50	4.11	4.03	86.90	92.04	1,700.02	1,702.51	1,694.38	8.14	209.250		
1,300.00	1,300.00	1,277.50	1,277.50	4.46	4.38	86.90	92.04	1,700.02	1,702.51	1,693.66	8.85	192.413		
1,400.00	1,400.00	1,377.50	1,377.50	4.82	4.74	86.90	92.04	1,700.02	1,702.51	1,692.95	9.56	178.070		
1,500.00	1,500.00	1,477.50	1,477.50	5.18	5.10	86.90	92.04	1,700.02	1,702.51	1,692.24	10.27	165.708		
1,600.00	1,600.00	1,577.50	1,577.50	5.53	5.45	86.90	92.04	1,700.02	1,702.51	1,691.53	10.99	154.944		
1,700.00	1,700.00	1,677.50	1,677.50	5.89	5.81	86.90	92.04	1,700.02	1,702.51	1,690.81	11.70	145.488		
1,800.00	1,800.00	1,777.50	1,777.50	6.25	6.17	86.90	92.04	1,700.02	1,702.51	1,690.10	12.42	137.116		
1,900.00	1,900.00	1,877.50	1,877.50	6.61	6.53	86.90	92.04	1,700.02	1,702.51	1,689.38	13.13	129.653		
2,000.00	2,000.00	1,977.50	1,977.50	6.96	6.88	86.90	92.04	1,700.02	1,702.51	1,688.67	13.85	122.958		
2,100.00	2,099.99	2,077.49	2,077.49	7.31	7.24	-8.58	92.04	1,700.02	1,701.65	1,687.10	14.55	116.940		
2,200.00	2,199.96	2,177.46	2,177.46	7.65	7.60	-8.60	92.04	1,700.02	1,699.06	1,683.81	15.25	111.426		
2,300.00	2,299.86	2,277.36	2,277.36	7.99	7.96	-8.63	92.04	1,700.02	1,694.75	1,678.80	15.95	106.276		
2,399.87	2,399.54	2,377.04	2,377.04	8.34	8.31	-8.67	92.04	1,700.02	1,688.72	1,672.08	16.65	101.454		
2,500.00	2,499.43	2,476.93	2,476.93	8.69	8.67	-8.70	92.04	1,700.02	1,681.82	1,664.47	17.35	96.955		
2,600.00	2,599.19	2,576.69	2,576.69	9.03	9.03	-8.74	92.04	1,700.02	1,674.93	1,656.88	18.05	92.804		
2,700.00	2,698.94	2,676.44	2,676.44	9.39	9.38	-8.78	92.04	1,700.02	1,668.03	1,649.28	18.75	88.958		
2,800.00	2,798.70	2,772.50	2,772.50	9.74	9.72	-8.81	92.01	1,700.05	1,661.17	1,641.73	19.44	85.460		
2,900.00	2,898.46	2,858.24	2,858.24	10.09	10.01	-8.81	91.23	1,700.65	1,654.93	1,634.86	20.07	82.458		
3,000.00	2,998.21	2,944.06	2,944.02	10.45	10.29	-8.78	89.45	1,702.04	1,649.53	1,628.83	20.70	79.693		
3,100.00	3,097.97	3,029.91	3,029.80	10.80	10.57	-8.71	86.64	1,704.22	1,644.98	1,623.65	21.33	77.125		
3,200.00	3,197.73	3,124.23	3,123.98	11.16	10.89	-8.60	82.64	1,707.32	1,641.13	1,619.14	21.99	74.630		
3,300.00	3,297.48	3,224.10	3,223.70	11.52	11.22	-8.48	78.32	1,710.68	1,637.36	1,614.69	22.67	72.213		
3,400.00	3,397.24	3,323.97	3,323.42	11.88	11.55	-8.36	74.00	1,714.04	1,633.59	1,610.23	23.36	69.929		
3,500.00	3,497.00	3,423.84	3,423.14	12.24	11.89	-8.24	69.69	1,717.39	1,629.84	1,605.79	24.05	67.770		
3,600.00	3,596.75	3,523.71	3,522.86	12.60	12.23	-8.11	65.37	1,720.75	1,626.08	1,601.34	24.74	65.726		
3,700.00	3,696.51	3,623.58	3,622.58	12.96	12.57	-7.99	61.05	1,724.10	1,622.34	1,596.91	25.43	63.787		
3,800.00	3,796.27	3,723.44	3,722.30	13.32	12.91	-7.87	56.73	1,727.46	1,618.60	1,592.48	26.13	61.948		
3,900.00	3,896.02	3,823.31	3,822.02	13.68	13.25	-7.74	52.41	1,730.81	1,614.88	1,588.05	26.83	60.200		
4,000.00	3,995.78	3,923.18	3,921.74	14.04	13.60	-7.62	48.09	1,734.17	1,611.16	1,583.63	27.52	58.538		
4,100.00	4,095.54	4,023.05	4,021.45	14.40	13.94	-7.49	43.77	1,737.52	1,607.44	1,579.22	28.22	56.955		
4,200.00	4,195.29	4,122.92	4,121.17	14.77	14.29	-7.37	39.45	1,740.88	1,603.74	1,574.81	28.92	55.447		
4,300.00	4,295.05	4,222.79	4,220.89	15.13	14.64	-7.24	35.13	1,744.23	1,600.04	1,570.41	29.63	54.008		
4,400.00	4,394.81	4,322.66	4,320.61	15.49	14.99	-7.11	30.82	1,747.59	1,596.35	1,566.02	30.33	52.634		
4,500.00	4,494.56	4,422.53	4,420.33	15.86	15.34	-6.98	26.50	1,750.94	1,592.67	1,561.64	31.03	51.321		
4,600.00	4,594.32	4,522.40	4,520.05	16.22	15.69	-6.85	22.18	1,754.30	1,589.00	1,557.26	31.74	50.064		
4,700.00	4,694.08	4,622.26	4,619.77	16.59	16.04	-6.73	17.86	1,757.65	1,585.33	1,552.88	32.45	48.861		
4,800.00	4,793.83	4,722.13	4,719.49	16.95	16.39	-6.60	13.54	1,761.01	1,581.67	1,548.52	33.15	47.709		
4,900.00	4,893.59	4,822.00	4,819.21	17.32	16.74	-6.47	9.22	1,764.36	1,578.02	1,544.16	33.86	46.604		
5,000.00	4,993.35	4,921.87	4,918.93	17.68	17.09	-6.34	4.90	1,767.72	1,574.38	1,539.81	34.57	45.543		
5,100.00	5,093.10	5,021.74	5,018.64	18.05	17.45	-6.20	0.58	1,771.08	1,570.75	1,535.47	35.28	44.524		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,121.61	5,118.36	18.42	17.80	-6.07	-3.74	1,774.43	1,567.12	1,531.13	35.99	43.545		
5,300.00	5,292.62	5,221.48	5,218.08	18.78	18.16	-5.94	-8.05	1,777.79	1,563.51	1,526.81	36.70	42.603		
5,400.00	5,392.37	5,321.35	5,317.80	19.15	18.51	-5.81	-12.37	1,781.14	1,559.90	1,522.49	37.41	41.696		
5,500.00	5,492.13	5,421.22	5,417.52	19.52	18.87	-5.67	-16.69	1,784.50	1,556.30	1,518.18	38.12	40.823		
5,600.00	5,591.89	5,521.08	5,517.24	19.88	19.22	-5.54	-21.01	1,787.85	1,552.71	1,513.87	38.84	39.982		
5,700.00	5,691.64	5,620.95	5,616.96	20.25	19.58	-5.40	-25.33	1,791.21	1,549.13	1,509.58	39.55	39.171		
5,800.00	5,791.40	5,720.82	5,716.68	20.62	19.94	-5.27	-29.65	1,794.56	1,545.55	1,505.29	40.26	38.388		
5,900.00	5,891.16	5,820.69	5,816.40	20.98	20.29	-5.13	-33.97	1,797.92	1,541.99	1,501.01	40.98	37.632		
6,000.00	5,990.91	5,920.56	5,916.12	21.35	20.65	-4.99	-38.29	1,801.27	1,538.43	1,496.74	41.69	36.902		
6,100.00	6,090.67	6,020.43	6,015.84	21.72	21.01	-4.86	-42.61	1,804.63	1,534.88	1,492.48	42.40	36.197		
6,200.00	6,190.42	6,120.30	6,115.55	22.09	21.37	-4.72	-46.92	1,807.98	1,531.35	1,488.23	43.12	35.515		
6,300.00	6,290.18	6,220.17	6,215.27	22.45	21.72	-4.58	-51.24	1,811.34	1,527.82	1,483.98	43.83	34.855		
6,400.00	6,389.94	6,320.04	6,314.99	22.82	22.08	-4.44	-55.56	1,814.69	1,524.30	1,479.75	44.55	34.216		
6,500.00	6,489.69	6,419.90	6,414.71	23.19	22.44	-4.30	-59.88	1,818.05	1,520.78	1,475.52	45.27	33.597		
6,600.00	6,589.45	6,519.77	6,514.43	23.56	22.80	-4.16	-64.20	1,821.41	1,517.28	1,471.30	45.98	32.998		
6,700.00	6,689.21	6,619.64	6,614.15	23.93	23.16	-4.02	-68.52	1,824.76	1,513.79	1,467.09	46.70	32.417		
6,800.00	6,788.96	6,719.51	6,713.87	24.29	23.52	-3.87	-72.84	1,828.12	1,510.31	1,462.89	47.41	31.853		
6,900.00	6,888.72	6,819.38	6,813.59	24.66	23.88	-3.73	-77.16	1,831.47	1,506.83	1,458.70	48.13	31.307		
7,000.00	6,988.48	6,919.25	6,913.31	25.03	24.24	-3.59	-81.48	1,834.83	1,503.37	1,454.52	48.85	30.776		
7,100.00	7,088.23	7,019.12	7,013.03	25.40	24.60	-3.44	-85.79	1,838.18	1,499.91	1,450.34	49.57	30.261		
7,200.00	7,187.99	7,118.99	7,112.74	25.77	24.96	-3.30	-90.11	1,841.54	1,496.46	1,446.18	50.28	29.761		
7,300.00	7,287.75	7,218.86	7,212.46	26.14	25.32	-3.15	-94.43	1,844.89	1,493.03	1,442.03	51.00	29.274		
7,400.00	7,387.50	7,318.72	7,312.18	26.50	25.68	-3.01	-98.75	1,848.25	1,489.60	1,437.88	51.72	28.802		
7,500.00	7,487.26	7,418.59	7,411.90	26.87	26.04	-2.86	-103.07	1,851.60	1,486.18	1,433.75	52.44	28.342		
7,600.00	7,587.02	7,518.46	7,511.62	27.24	26.40	-2.71	-107.39	1,854.96	1,482.78	1,429.62	53.16	27.895		
7,700.00	7,686.77	7,618.33	7,611.34	27.61	26.77	-2.57	-111.71	1,858.31	1,479.38	1,425.51	53.87	27.460		
7,800.00	7,786.53	7,718.20	7,711.06	27.98	27.13	-2.42	-116.03	1,861.67	1,475.99	1,421.40	54.59	27.036		
7,900.00	7,886.29	7,818.07	7,810.78	28.35	27.49	-2.27	-120.35	1,865.02	1,472.61	1,417.30	55.31	26.624		
8,000.00	7,986.04	7,917.94	7,910.50	28.72	27.85	-2.12	-124.66	1,868.38	1,469.25	1,413.22	56.03	26.222		
8,100.00	8,085.80	8,017.81	8,010.22	29.09	28.21	-1.97	-128.98	1,871.74	1,465.89	1,409.14	56.75	25.831		
8,200.00	8,185.56	8,117.68	8,109.93	29.46	28.57	-1.81	-133.30	1,875.09	1,462.54	1,405.07	57.47	25.450		
8,300.00	8,285.31	8,217.54	8,209.65	29.83	28.94	-1.66	-137.62	1,878.45	1,459.21	1,401.02	58.19	25.078		
8,400.00	8,385.07	8,317.41	8,309.37	30.20	29.30	-1.51	-141.94	1,881.80	1,455.88	1,396.97	58.91	24.715		
8,500.00	8,484.83	8,417.28	8,409.09	30.56	29.66	-1.36	-146.26	1,885.16	1,452.56	1,392.94	59.63	24.361		
8,600.00	8,584.58	8,517.15	8,508.81	30.93	30.02	-1.20	-150.58	1,888.51	1,449.26	1,388.91	60.35	24.016		
8,700.00	8,684.34	8,620.69	8,612.19	31.30	30.40	-1.04	-155.03	1,891.97	1,445.95	1,384.87	61.08	23.674		
8,800.00	8,784.10	8,754.67	8,746.10	31.67	30.88	-0.92	-158.58	1,894.73	1,441.23	1,379.33	61.90	23.283		
8,900.00	8,883.85	8,869.93	8,861.35	32.04	31.28	-0.91	-158.96	1,895.02	1,434.50	1,371.86	62.64	22.899		
9,000.00	8,983.61	8,969.69	8,961.11	32.41	31.62	-0.91	-158.96	1,895.02	1,427.53	1,364.19	63.34	22.536		
9,100.00	9,083.37	9,069.44	9,060.87	32.78	31.95	-0.92	-158.96	1,895.02	1,420.56	1,356.51	64.04	22.182		
9,200.00	9,183.12	9,170.18	9,161.60	33.15	32.30	-0.92	-158.94	1,895.02	1,413.58	1,348.84	64.74	21.834		
9,300.00	9,282.88	9,294.78	9,285.11	33.52	32.70	-1.52	-144.46	1,894.91	1,405.64	1,340.16	65.48	21.467		
9,400.00	9,382.64	9,407.89	9,392.16	33.89	33.04	-3.00	-108.50	1,894.64	1,396.53	1,330.35	66.17	21.104		
9,428.07	9,410.64	9,436.66	9,418.08	33.99	33.11	-3.52	-96.04	1,894.55	1,393.95	1,327.58	66.36	21.004		
9,500.00	9,482.43	9,503.90	9,476.01	34.26	33.29	-4.93	-61.97	1,894.29	1,388.38	1,321.54	66.84	20.771		
9,600.00	9,582.36	9,582.46	9,538.07	34.62	33.47	-6.92	-13.90	1,893.92	1,384.70	1,317.24	67.47	20.524		
9,614.49	9,596.84	9,592.51	9,545.52	34.67	33.50	-7.20	-7.15	1,893.87	1,384.64	1,317.09	67.55	20.498 CC, ES		
9,694.65	9,677.00	9,642.73	9,580.89	34.95	33.61	86.79	28.46	1,893.60	1,386.72	1,318.76	67.97	20.403		
9,700.00	9,682.35	9,645.77	9,582.94	34.97	33.61	86.70	30.72	1,893.58	1,387.01	1,319.02	67.99	20.400		
9,800.00	9,782.35	9,696.69	9,615.27	35.31	33.72	85.08	70.03	1,893.28	1,394.91	1,326.55	68.36	20.404		
9,900.00	9,882.35	9,737.88	9,638.79	35.65	33.81	83.69	103.83	1,893.03	1,407.91	1,339.35	68.56	20.535		
10,000.00	9,982.35	9,771.55	9,656.18	35.99	33.89	82.51	132.66	1,892.81	1,426.40	1,357.83	68.57	20.802		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	9,784.64	9,662.47	36.14	33.92	82.04	144.14	1,892.72	1,436.48	1,367.97	68.51	20.968		
10,050.00	10,032.35	9,786.14	9,663.18	36.16	33.92	82.28	145.46	1,892.71	1,437.75	1,369.25	68.50	20.989		
10,100.00	10,082.26	9,800.00	9,669.52	36.32	33.95	80.53	157.78	1,892.62	1,450.13	1,381.74	68.39	21.205		
10,150.00	10,131.76	9,816.21	9,676.57	36.49	33.99	78.66	172.38	1,892.51	1,463.15	1,394.90	68.25	21.438		
10,200.00	10,180.46	9,832.38	9,683.18	36.65	34.03	76.79	187.13	1,892.39	1,476.62	1,408.54	68.08	21.689		
10,250.00	10,227.98	9,850.00	9,689.90	36.81	34.07	74.88	203.42	1,892.27	1,490.35	1,422.45	67.90	21.949		
10,300.00	10,273.98	9,866.46	9,695.73	36.95	34.11	73.05	218.81	1,892.15	1,504.15	1,436.46	67.69	22.221		
10,350.00	10,318.11	9,884.21	9,701.52	37.09	34.15	71.24	235.59	1,892.03	1,517.85	1,450.37	67.48	22.494		
10,400.00	10,360.01	9,900.00	9,706.23	37.21	34.19	69.55	250.66	1,891.91	1,531.29	1,464.03	67.25	22.769		
10,450.00	10,399.38	9,920.82	9,711.80	37.32	34.23	67.85	270.73	1,891.76	1,544.29	1,477.23	67.06	23.028		
10,500.00	10,435.92	9,950.00	9,718.37	37.42	34.30	66.11	299.15	1,891.54	1,556.81	1,489.88	66.93	23.262		
10,550.00	10,469.35	9,950.00	9,718.37	37.51	34.30	65.01	299.15	1,891.54	1,568.52	1,501.86	66.65	23.532		
10,600.00	10,499.41	9,977.84	9,723.29	37.59	34.37	63.57	326.55	1,891.33	1,579.37	1,512.81	66.55	23.731		
10,650.00	10,525.87	10,000.00	9,726.25	37.66	34.43	62.37	348.51	1,891.17	1,589.35	1,522.89	66.46	23.916		
10,700.00	10,548.54	10,016.83	9,727.92	37.74	34.47	61.38	365.26	1,891.04	1,598.28	1,531.91	66.37	24.081		
10,750.00	10,567.24	10,036.54	9,729.26	37.84	34.52	60.49	384.91	1,890.89	1,606.10	1,539.75	66.34	24.209		
10,800.00	10,581.83	10,056.35	9,729.92	37.97	34.57	59.75	404.71	1,890.74	1,612.73	1,546.36	66.36	24.302		
10,850.00	10,592.19	10,108.17	9,730.00	38.11	34.71	59.08	440.19	1,890.47	1,617.98	1,551.46	66.51	24.326		
10,900.00	10,598.26	10,141.45	9,730.00	38.25	34.81	58.63	489.81	1,890.09	1,621.12	1,554.45	66.68	24.313		
10,944.69	10,600.00	10,186.09	9,730.00	38.39	34.94	58.50	534.45	1,889.76	1,622.02	1,555.11	66.91	24.242		
11,000.00	10,600.00	10,241.40	9,730.00	38.56	35.13	58.50	589.76	1,889.33	1,622.01	1,554.76	67.25	24.118		
11,100.00	10,600.00	10,341.40	9,730.00	38.91	35.51	58.50	689.76	1,888.58	1,621.99	1,554.04	67.95	23.872		
11,200.00	10,600.00	10,441.40	9,730.00	39.31	35.95	58.50	789.75	1,887.82	1,621.97	1,553.24	68.73	23.600		
11,300.00	10,600.00	10,541.40	9,730.00	39.76	36.44	58.50	889.75	1,887.06	1,621.94	1,552.34	69.60	23.303		
11,400.00	10,600.00	10,641.40	9,730.00	40.25	36.98	58.50	989.75	1,886.30	1,621.92	1,551.36	70.56	22.986		
11,500.00	10,600.00	10,741.40	9,730.00	40.79	37.57	58.50	1,089.74	1,885.54	1,621.90	1,550.30	71.60	22.651		
11,600.00	10,600.00	10,841.40	9,730.00	41.37	38.21	58.50	1,189.74	1,884.78	1,621.88	1,549.15	72.73	22.301		
11,700.00	10,600.00	10,941.40	9,730.00	41.99	38.89	58.50	1,289.74	1,884.02	1,621.86	1,547.93	73.92	21.939		
11,800.00	10,600.00	11,041.40	9,730.00	42.65	39.61	58.50	1,389.73	1,883.26	1,621.84	1,546.64	75.19	21.569		
11,900.00	10,600.00	11,141.40	9,730.00	43.35	40.37	58.50	1,489.73	1,882.50	1,621.81	1,545.28	76.53	21.191		
12,000.00	10,600.00	11,241.40	9,730.00	44.09	41.17	58.50	1,589.73	1,881.74	1,621.79	1,543.86	77.94	20.809		
12,100.00	10,600.00	11,341.40	9,730.00	44.86	42.01	58.49	1,689.73	1,880.98	1,621.77	1,542.37	79.40	20.425		
12,200.00	10,600.00	11,441.40	9,730.00	45.67	42.88	58.49	1,789.72	1,880.22	1,621.75	1,540.83	80.92	20.041		
12,300.00	10,600.00	11,541.40	9,730.00	46.50	43.77	58.49	1,889.72	1,879.46	1,621.73	1,539.23	82.50	19.657		
12,400.00	10,600.00	11,641.40	9,730.00	47.37	44.70	58.49	1,989.72	1,878.70	1,621.71	1,537.58	84.13	19.277		
12,500.00	10,600.00	11,741.40	9,730.00	48.26	45.66	58.49	2,089.71	1,877.94	1,621.69	1,535.88	85.81	18.899		
12,600.00	10,600.00	11,841.40	9,730.00	49.18	46.64	58.49	2,189.71	1,877.18	1,621.66	1,534.13	87.53	18.527		
12,700.00	10,600.00	11,941.40	9,730.00	50.13	47.65	58.49	2,289.71	1,876.42	1,621.64	1,532.34	89.30	18.160		
12,800.00	10,600.00	12,041.40	9,730.00	51.10	48.67	58.49	2,389.71	1,875.66	1,621.62	1,530.51	91.11	17.799		
12,900.00	10,600.00	12,141.40	9,730.00	52.09	49.72	58.49	2,489.70	1,874.90	1,621.60	1,528.65	92.95	17.446		
13,000.00	10,600.00	12,241.40	9,730.00	53.10	50.79	58.49	2,589.70	1,874.14	1,621.58	1,526.74	94.83	17.099		
13,100.00	10,600.00	12,341.40	9,730.00	54.14	51.88	58.49	2,689.70	1,873.38	1,621.56	1,524.80	96.75	16.760		
13,200.00	10,600.00	12,441.40	9,730.00	55.19	52.99	58.49	2,789.69	1,872.62	1,621.53	1,522.83	98.70	16.429		
13,300.00	10,600.00	12,541.40	9,730.00	56.26	54.11	58.49	2,889.69	1,871.86	1,621.51	1,520.83	100.68	16.106		
13,400.00	10,600.00	12,641.40	9,730.00	57.35	55.25	58.49	2,989.69	1,871.10	1,621.49	1,518.81	102.69	15.791		
13,500.00	10,600.00	12,741.40	9,730.00	58.45	56.41	58.49	3,089.69	1,870.34	1,621.47	1,516.75	104.72	15.484		
13,600.00	10,600.00	12,841.40	9,730.00	59.57	57.57	58.49	3,189.68	1,869.58	1,621.45	1,514.67	106.78	15.185		
13,700.00	10,600.00	12,941.40	9,730.00	60.71	58.75	58.49	3,289.68	1,868.82	1,621.43	1,512.56	108.86	14.894		
13,800.00	10,600.00	13,041.40	9,730.00	61.85	59.94	58.49	3,389.68	1,868.06	1,621.40	1,510.44	110.97	14.611		
13,900.00	10,600.00	13,141.40	9,730.00	63.01	61.15	58.49	3,489.67	1,867.30	1,621.38	1,508.29	113.10	14.336		
14,000.00	10,600.00	13,241.40	9,730.00	64.18	62.36	58.49	3,589.67	1,866.54	1,621.36	1,506.12	115.24	14.069		
14,100.00	10,600.00	13,341.40	9,730.00	65.37	63.59	58.49	3,689.67	1,865.78	1,621.34	1,503.93	117.41	13.809		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	13,441.40	9,730.00	66.56	64.82	58.48	3,789.67	1,865.02	1,621.32	1,501.73	119.59	13.557	
14,300.00	10,600.00	13,541.40	9,730.00	67.76	66.06	58.48	3,889.66	1,864.26	1,621.30	1,499.50	121.79	13.312	
14,400.00	10,600.00	13,641.40	9,730.00	68.98	67.32	58.48	3,989.66	1,863.50	1,621.27	1,497.26	124.01	13.074	
14,500.00	10,600.00	13,741.40	9,730.00	70.20	68.58	58.48	4,089.66	1,862.74	1,621.25	1,495.01	126.24	12.842	
14,600.00	10,600.00	13,841.40	9,730.00	71.43	69.84	58.48	4,189.65	1,861.98	1,621.23	1,492.74	128.49	12.618	
14,700.00	10,600.00	13,941.40	9,730.00	72.67	71.12	58.48	4,289.65	1,861.22	1,621.21	1,490.46	130.75	12.399	
14,800.00	10,600.00	14,041.40	9,730.00	73.92	72.40	58.48	4,389.65	1,860.46	1,621.19	1,488.17	133.02	12.187	
14,900.00	10,600.00	14,141.40	9,730.00	75.17	73.69	58.48	4,489.65	1,859.70	1,621.17	1,485.86	135.31	11.981	
15,000.00	10,600.00	14,241.40	9,730.00	76.44	74.98	58.48	4,589.64	1,858.94	1,621.15	1,483.54	137.61	11.781	
15,100.00	10,600.00	14,341.40	9,730.00	77.70	76.28	58.48	4,689.64	1,858.18	1,621.12	1,481.21	139.91	11.587	
15,200.00	10,600.00	14,441.40	9,730.00	78.98	77.59	58.48	4,789.64	1,857.42	1,621.10	1,478.87	142.23	11.397	
15,300.00	10,600.00	14,541.40	9,730.00	80.26	78.90	58.48	4,889.63	1,856.66	1,621.08	1,476.52	144.56	11.214	
15,400.00	10,600.00	14,641.40	9,730.00	81.55	80.21	58.48	4,989.63	1,855.91	1,621.06	1,474.16	146.90	11.035	
15,484.47	10,600.00	14,725.87	9,730.00	82.64	81.33	58.48	5,074.10	1,855.26	1,621.04	1,472.16	148.88	10.888 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.95	92.21	1,730.02	1,732.63					
100.00	100.00	77.30	77.30	0.52	0.51	86.95	92.21	1,730.02	1,732.48	1,731.45	1.03	1,684.572		
200.00	200.00	177.30	177.30	0.70	0.65	86.95	92.21	1,730.02	1,732.48	1,731.13	1.35	1,283.624		
300.00	300.00	277.30	277.30	0.99	0.92	86.95	92.21	1,730.02	1,732.48	1,730.57	1.91	909.233		
400.00	400.00	377.30	377.30	1.31	1.23	86.95	92.21	1,730.02	1,732.48	1,729.94	2.54	681.175		
500.00	500.00	477.30	477.30	1.65	1.57	86.95	92.21	1,730.02	1,732.48	1,729.26	3.21	538.900		
600.00	600.00	577.30	577.30	1.99	1.91	86.95	92.21	1,730.02	1,732.48	1,728.58	3.90	443.935		
700.00	700.00	677.30	677.30	2.34	2.26	86.95	92.21	1,730.02	1,732.48	1,727.88	4.60	376.691		
800.00	800.00	777.30	777.30	2.69	2.61	86.95	92.21	1,730.02	1,732.48	1,727.18	5.30	326.804		
900.00	900.00	877.30	877.30	3.04	2.96	86.95	92.21	1,730.02	1,732.48	1,726.47	6.01	288.417		
1,000.00	1,000.00	977.30	977.30	3.40	3.32	86.95	92.21	1,730.02	1,732.48	1,725.76	6.71	258.007		
1,100.00	1,100.00	1,077.30	1,077.30	3.75	3.67	86.95	92.21	1,730.02	1,732.48	1,725.05	7.42	233.344		
1,200.00	1,200.00	1,177.30	1,177.30	4.11	4.03	86.95	92.21	1,730.02	1,732.48	1,724.34	8.14	212.952		
1,300.00	1,300.00	1,277.30	1,277.30	4.46	4.38	86.95	92.21	1,730.02	1,732.48	1,723.63	8.85	195.816		
1,400.00	1,400.00	1,377.30	1,377.30	4.82	4.74	86.95	92.21	1,730.02	1,732.48	1,722.92	9.56	181.218		
1,500.00	1,500.00	1,477.30	1,477.30	5.18	5.10	86.95	92.21	1,730.02	1,732.48	1,722.21	10.27	168.636		
1,600.00	1,600.00	1,577.30	1,577.30	5.53	5.45	86.95	92.21	1,730.02	1,732.48	1,721.49	10.99	157.681		
1,700.00	1,700.00	1,677.30	1,677.30	5.89	5.81	86.95	92.21	1,730.02	1,732.48	1,720.78	11.70	148.058		
1,800.00	1,800.00	1,777.30	1,777.30	6.25	6.17	86.95	92.21	1,730.02	1,732.48	1,720.06	12.42	139.538		
1,900.00	1,900.00	1,877.30	1,877.30	6.61	6.52	86.95	92.21	1,730.02	1,732.48	1,719.35	13.13	131.942		
2,000.00	2,000.00	1,977.30	1,977.30	6.96	6.88	86.95	92.21	1,730.02	1,732.48	1,718.63	13.85	125.129		
2,100.00	2,099.99	2,077.29	2,077.29	7.31	7.24	-8.53	92.21	1,730.02	1,731.62	1,717.07	14.55	119.005		
2,200.00	2,199.96	2,177.26	2,177.26	7.65	7.60	-8.55	92.21	1,730.02	1,729.03	1,713.78	15.25	113.396		
2,300.00	2,299.86	2,277.16	2,277.16	7.99	7.95	-8.58	92.21	1,730.02	1,724.71	1,708.77	15.95	108.160		
2,399.87	2,399.54	2,370.81	2,370.81	8.34	8.29	-8.62	92.20	1,730.06	1,718.73	1,702.11	16.62	103.410		
2,500.00	2,499.43	2,448.35	2,448.35	8.69	8.55	-8.64	92.04	1,730.85	1,712.83	1,695.61	17.23	99.428		
2,600.00	2,599.19	2,525.90	2,525.87	9.03	8.81	-8.65	91.65	1,732.66	1,708.25	1,690.42	17.83	95.811		
2,700.00	2,698.94	2,603.53	2,603.44	9.39	9.08	-8.65	91.05	1,735.51	1,704.96	1,686.53	18.43	92.500		
2,800.00	2,798.70	2,681.21	2,681.02	9.74	9.34	-8.64	90.22	1,739.39	1,702.99	1,683.95	19.03	89.468		
2,900.00	2,898.46	2,758.91	2,758.56	10.09	9.61	-8.62	89.18	1,744.29	1,702.32	1,682.69	19.64	86.692		
2,900.77	2,899.23	2,759.51	2,759.16	10.09	9.61	-8.62	89.17	1,744.33	1,702.32	1,682.68	19.64	86.672 CC, ES		
3,000.00	2,998.21	2,836.61	2,836.03	10.45	9.88	-8.60	87.92	1,750.23	1,702.97	1,682.73	20.24	84.151		
3,100.00	3,097.97	2,914.28	2,913.37	10.80	10.15	-8.56	86.45	1,757.18	1,704.92	1,684.09	20.84	81.825		
3,200.00	3,197.73	2,991.88	2,990.54	11.16	10.42	-8.52	84.76	1,765.16	1,708.19	1,686.75	21.43	79.696		
3,300.00	3,297.48	3,069.40	3,067.51	11.52	10.69	-8.47	82.85	1,774.15	1,712.76	1,690.73	22.03	77.750		
3,400.00	3,397.24	3,146.80	3,144.23	11.88	10.97	-8.40	80.73	1,784.13	1,718.64	1,696.02	22.62	75.973		
3,500.00	3,497.00	3,224.05	3,220.67	12.24	11.25	-8.33	78.40	1,795.11	1,725.83	1,702.61	23.21	74.351		
3,600.00	3,596.75	3,300.00	3,295.65	12.60	11.53	-8.26	75.91	1,806.89	1,734.31	1,710.52	23.79	72.892		
3,700.00	3,696.51	3,378.01	3,372.50	12.96	11.81	-8.17	73.12	1,820.00	1,744.10	1,719.72	24.38	71.530		
3,800.00	3,796.27	3,454.66	3,447.83	13.32	12.10	-8.08	70.18	1,833.87	1,755.18	1,730.22	24.96	70.311		
3,900.00	3,896.02	3,542.09	3,533.54	13.68	12.44	-7.96	66.61	1,850.71	1,767.41	1,741.81	25.60	69.035		
4,000.00	3,995.78	3,641.24	3,630.72	14.04	12.82	-7.83	62.53	1,869.95	1,779.82	1,753.51	26.31	67.656		
4,100.00	4,095.54	3,740.38	3,727.90	14.40	13.21	-7.71	58.45	1,889.19	1,792.23	1,765.22	27.01	66.343		
4,200.00	4,195.29	3,839.53	3,825.08	14.77	13.60	-7.58	54.37	1,908.43	1,804.66	1,776.93	27.72	65.093		
4,300.00	4,295.05	3,938.68	3,922.26	15.13	13.99	-7.46	50.29	1,927.67	1,817.09	1,788.65	28.44	63.901		
4,400.00	4,394.81	4,037.83	4,019.44	15.49	14.39	-7.34	46.20	1,946.91	1,829.53	1,800.38	29.15	62.763		
4,500.00	4,494.56	4,136.98	4,116.61	15.86	14.80	-7.22	42.12	1,966.15	1,841.98	1,812.11	29.86	61.677		
4,600.00	4,594.32	4,236.13	4,213.79	16.22	15.20	-7.10	38.04	1,985.39	1,854.43	1,823.85	30.58	60.639		
4,700.00	4,694.08	4,335.27	4,310.97	16.59	15.61	-6.98	33.96	2,004.63	1,866.90	1,835.60	31.30	59.646		
4,800.00	4,793.83	4,434.42	4,408.15	16.95	16.02	-6.87	29.88	2,023.87	1,879.37	1,847.35	32.02	58.696		
4,900.00	4,893.59	4,533.57	4,505.33	17.32	16.44	-6.75	25.80	2,043.11	1,891.85	1,859.11	32.74	57.785		
5,000.00	4,993.35	4,632.72	4,602.50	17.68	16.85	-6.64	21.72	2,062.35	1,904.34	1,870.87	33.46	56.912		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	4,731.87	4,699.68	18.05	17.27	-6.53	17.64	2,081.59	1,916.83	1,882.65	34.18	56.075		
5,200.00	5,192.86	4,831.02	4,796.86	18.42	17.69	-6.42	13.55	2,100.83	1,929.33	1,894.42	34.91	55.270		
5,300.00	5,292.62	4,930.17	4,894.04	18.78	18.11	-6.31	9.47	2,120.07	1,941.84	1,906.20	35.63	54.498		
5,400.00	5,392.37	5,029.31	4,991.22	19.15	18.54	-6.20	5.39	2,139.31	1,954.35	1,917.99	36.36	53.755		
5,500.00	5,492.13	5,128.46	5,088.40	19.52	18.96	-6.10	1.31	2,158.55	1,966.87	1,929.79	37.08	53.040		
5,600.00	5,591.89	5,227.61	5,185.57	19.88	19.39	-6.00	-2.77	2,177.79	1,979.40	1,941.59	37.81	52.352		
5,700.00	5,691.64	5,326.76	5,282.75	20.25	19.82	-5.89	-6.85	2,197.03	1,991.93	1,953.39	38.54	51.689		
5,800.00	5,791.40	5,425.91	5,379.93	20.62	20.24	-5.79	-10.93	2,216.27	2,004.47	1,965.21	39.27	51.050		
5,900.00	5,891.16	5,525.06	5,477.11	20.98	20.67	-5.69	-15.01	2,235.51	2,017.02	1,977.02	39.99	50.433		
6,000.00	5,990.91	5,624.21	5,574.29	21.35	21.11	-5.59	-19.10	2,254.75	2,029.57	1,988.85	40.72	49.838		
6,100.00	6,090.67	5,723.35	5,671.46	21.72	21.54	-5.49	-23.18	2,273.99	2,042.13	2,000.67	41.45	49.264		
6,200.00	6,190.42	5,822.50	5,768.64	22.09	21.97	-5.40	-27.26	2,293.23	2,054.69	2,012.51	42.18	48.709		
6,300.00	6,290.18	5,921.65	5,865.82	22.45	22.41	-5.30	-31.34	2,312.47	2,067.26	2,024.34	42.91	48.172		
6,400.00	6,389.94	6,020.80	5,963.00	22.82	22.84	-5.21	-35.42	2,331.71	2,079.83	2,036.19	43.65	47.653		
6,500.00	6,489.69	6,119.95	6,060.18	23.19	23.28	-5.12	-39.50	2,350.95	2,092.41	2,048.04	44.38	47.151		
6,600.00	6,589.45	6,219.10	6,157.35	23.56	23.71	-5.02	-43.58	2,370.19	2,105.00	2,059.89	45.11	46.665		
6,700.00	6,689.21	6,318.25	6,254.53	23.93	24.15	-4.93	-47.66	2,389.43	2,117.59	2,071.75	45.84	46.194		
6,800.00	6,788.96	6,417.39	6,351.71	24.29	24.59	-4.84	-51.74	2,408.67	2,130.19	2,083.61	46.57	45.738		
6,900.00	6,888.72	6,516.54	6,448.89	24.66	25.03	-4.75	-55.83	2,427.91	2,142.79	2,095.48	47.31	45.296		
7,000.00	6,988.48	6,615.69	6,546.07	25.03	25.47	-4.67	-59.91	2,447.15	2,155.39	2,107.35	48.04	44.867		
7,100.00	7,088.23	6,714.84	6,643.25	25.40	25.91	-4.58	-63.99	2,466.39	2,168.00	2,119.23	48.77	44.450		
7,200.00	7,187.99	6,813.99	6,740.42	25.77	26.35	-4.49	-68.07	2,485.63	2,180.62	2,131.11	49.51	44.046		
7,300.00	7,287.75	6,913.14	6,837.60	26.14	26.79	-4.41	-72.15	2,504.87	2,193.24	2,143.00	50.24	43.654		
7,400.00	7,387.50	7,012.28	6,934.78	26.50	27.23	-4.33	-76.23	2,524.11	2,205.87	2,154.89	50.98	43.273		
7,500.00	7,487.26	7,111.43	7,031.96	26.87	27.68	-4.24	-80.31	2,543.35	2,218.50	2,166.78	51.71	42.902		
7,600.00	7,587.02	7,210.58	7,129.14	27.24	28.12	-4.16	-84.39	2,562.59	2,231.13	2,178.68	52.45	42.542		
7,700.00	7,686.77	7,309.73	7,226.31	27.61	28.56	-4.08	-88.48	2,581.83	2,243.77	2,190.59	53.18	42.191		
7,800.00	7,786.53	7,408.88	7,323.49	27.98	29.01	-4.00	-92.56	2,601.07	2,256.41	2,202.50	53.92	41.850		
7,900.00	7,886.29	7,508.03	7,420.67	28.35	29.45	-3.92	-96.64	2,620.31	2,269.06	2,214.41	54.65	41.519		
8,000.00	7,986.04	7,607.18	7,517.85	28.72	29.89	-3.84	-100.72	2,639.55	2,281.71	2,226.32	55.39	41.195		
8,100.00	8,085.80	7,706.32	7,615.03	29.09	30.34	-3.77	-104.80	2,658.79	2,294.37	2,238.24	56.12	40.881		
8,200.00	8,185.56	7,805.47	7,712.21	29.46	30.78	-3.69	-108.88	2,678.03	2,307.03	2,250.17	56.86	40.574		
8,300.00	8,285.31	7,904.62	7,809.38	29.83	31.23	-3.61	-112.96	2,697.27	2,319.69	2,262.09	57.60	40.275		
8,400.00	8,385.07	8,003.77	7,906.56	30.20	31.68	-3.54	-117.04	2,716.51	2,332.36	2,274.03	58.33	39.984		
8,500.00	8,484.83	8,102.92	8,003.74	30.56	32.12	-3.46	-121.13	2,735.75	2,345.03	2,285.96	59.07	39.700		
8,600.00	8,584.58	8,203.85	8,101.52	30.93	32.56	-3.34	-125.21	2,755.00	2,357.70	2,297.89	59.80	39.416		
8,700.00	8,684.34	8,303.78	8,200.29	31.30	33.00	-3.23	-129.29	2,774.25	2,370.45	2,309.82	60.53	39.132		
8,800.00	8,784.10	8,403.71	8,299.00	31.67	33.44	-3.12	-133.37	2,793.50	2,383.20	2,321.75	61.26	38.848		
8,900.00	8,883.85	8,503.64	8,397.71	32.04	33.88	-3.01	-137.45	2,812.75	2,395.95	2,333.70	61.99	38.564		
9,000.00	8,983.61	8,603.57	8,496.42	32.41	34.32	-2.90	-141.53	2,832.00	2,408.70	2,345.65	62.72	38.280		
9,100.00	9,083.37	8,703.50	8,595.13	32.78	34.76	-2.79	-145.61	2,851.25	2,421.45	2,357.60	63.45	38.000		
9,200.00	9,183.12	8,803.43	8,694.84	33.15	35.20	-2.68	-149.69	2,870.50	2,434.20	2,369.55	64.18	37.720		
9,300.00	9,282.88	8,903.36	8,794.55	33.52	35.64	-2.57	-153.77	2,889.75	2,446.95	2,381.50	64.91	37.440		
9,400.00	9,382.64	9,003.29	8,894.26	33.89	36.08	-2.46	-157.85	2,909.00	2,459.70	2,393.45	65.64	37.160		
9,428.07	9,410.64	9,526.44	9,412.01	33.99	37.04	-4.73	-78.93	2,818.57	2,317.15	2,249.77	67.39	34.386		
9,500.00	9,482.43	9,592.77	9,469.57	34.26	37.18	-5.55	-46.05	2,818.32	2,312.28	2,244.41	67.87	34.069		
9,600.00	9,582.36	9,670.78	9,531.86	34.62	37.32	-6.71	0.82	2,817.96	2,308.83	2,240.31	68.52	33.696		
9,626.58	9,608.93	9,688.94	9,545.40	34.71	37.34	-7.01	12.91	2,817.87	2,308.66	2,239.98	68.68	33.613		
9,694.65	9,677.00	9,731.03	9,575.28	34.95	37.40	87.73	42.55	2,817.64	2,309.81	2,240.72	69.09	33.431		
9,700.00	9,682.35	9,734.09	9,577.36	34.97	37.40	87.67	44.79	2,817.63	2,310.00	2,240.88	69.12	33.419		
9,800.00	9,782.35	9,785.29	9,610.43	35.31	37.46	86.70	83.85	2,817.33	2,314.97	2,245.31	69.66	33.232		
9,900.00	9,882.35	9,826.89	9,634.65	35.65	37.49	85.87	117.66	2,817.07	2,323.01	2,252.88	70.13	33.124		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	9,982.35	9,861.02	9,652.64	35.99	37.52	85.15	146.65	2,816.85	2,334.41	2,263.89	70.52	33.103		
10,044.69	10,027.04	9,874.31	9,659.18	36.14	37.52	84.86	158.23	2,816.76	2,340.65	2,269.98	70.67	33.122		
10,050.00	10,032.35	9,875.83	9,659.91	36.16	37.52	85.17	159.56	2,816.75	2,341.43	2,270.75	70.68	33.125		
10,100.00	10,082.26	9,890.65	9,666.84	36.32	37.53	84.09	172.66	2,816.65	2,349.11	2,278.28	70.83	33.166		
10,150.00	10,131.76	9,900.00	9,671.04	36.49	37.54	83.08	181.01	2,816.59	2,357.22	2,286.29	70.93	33.232		
10,200.00	10,180.46	9,922.61	9,680.63	36.65	37.54	81.80	201.49	2,816.43	2,365.60	2,294.54	71.06	33.288		
10,250.00	10,227.98	9,939.53	9,687.27	36.81	37.55	80.63	217.05	2,816.32	2,374.19	2,303.03	71.16	33.365		
10,300.00	10,273.98	9,950.00	9,691.15	36.95	37.55	79.57	226.77	2,816.24	2,382.88	2,311.66	71.21	33.461		
10,350.00	10,318.11	9,974.82	9,699.63	37.09	37.56	78.31	250.09	2,816.06	2,391.49	2,320.18	71.31	33.536		
10,400.00	10,360.01	10,000.00	9,707.19	37.21	37.56	77.10	274.11	2,815.88	2,400.00	2,328.59	71.40	33.613		
10,450.00	10,399.38	10,011.62	9,710.33	37.32	37.56	76.13	285.30	2,815.80	2,408.22	2,336.78	71.44	33.712		
10,500.00	10,435.92	10,030.47	9,714.92	37.42	37.57	75.11	303.58	2,815.66	2,416.12	2,344.62	71.50	33.794		
10,550.00	10,469.35	10,050.00	9,719.05	37.51	37.57	74.16	322.67	2,815.51	2,423.59	2,352.03	71.56	33.866		
10,600.00	10,499.41	10,068.86	9,722.41	37.59	37.57	73.30	341.22	2,815.37	2,430.54	2,358.91	71.63	33.931		
10,650.00	10,525.87	10,100.00	9,726.63	37.66	37.57	72.40	372.07	2,815.14	2,436.97	2,365.21	71.76	33.961		
10,700.00	10,548.54	10,100.00	9,726.63	37.74	37.57	71.86	372.07	2,815.14	2,442.63	2,370.84	71.79	34.023		
10,750.00	10,567.24	10,127.72	9,728.96	37.84	37.58	71.20	399.69	2,814.93	2,447.58	2,375.64	71.94	34.024		
10,800.00	10,581.83	10,150.00	9,729.87	37.97	37.58	70.68	421.95	2,814.76	2,451.78	2,379.70	72.08	34.015		
10,850.00	10,592.19	10,175.29	9,730.00	38.11	37.59	70.25	447.24	2,814.56	2,455.13	2,382.88	72.25	33.980		
10,900.00	10,598.26	10,224.91	9,730.00	38.25	37.61	69.93	496.85	2,814.19	2,457.20	2,384.68	72.52	33.883		
10,944.69	10,600.00	10,269.55	9,730.00	38.39	37.64	69.83	541.50	2,813.85	2,457.79	2,385.00	72.79	33.766		
11,000.00	10,600.00	10,324.86	9,730.00	38.56	37.69	69.83	596.81	2,813.43	2,457.78	2,384.63	73.15	33.600		
11,100.00	10,600.00	10,424.86	9,730.00	38.91	37.84	69.83	696.80	2,812.66	2,457.75	2,383.87	73.88	33.267		
11,200.00	10,600.00	10,524.86	9,730.00	39.31	38.08	69.83	796.80	2,811.90	2,457.73	2,383.02	74.71	32.899		
11,300.00	10,600.00	10,624.86	9,730.00	39.76	38.41	69.83	896.80	2,811.14	2,457.70	2,382.07	75.63	32.498		
11,400.00	10,600.00	10,724.86	9,730.00	40.25	38.83	69.83	996.80	2,810.38	2,457.68	2,381.04	76.64	32.069		
11,500.00	10,600.00	10,824.86	9,730.00	40.79	39.33	69.83	1,096.79	2,809.62	2,457.65	2,379.91	77.74	31.615		
11,600.00	10,600.00	10,924.86	9,730.00	41.37	39.89	69.83	1,196.79	2,808.86	2,457.63	2,378.71	78.92	31.142		
11,700.00	10,600.00	11,024.86	9,730.00	41.99	40.51	69.83	1,296.79	2,808.10	2,457.60	2,377.42	80.18	30.652		
11,800.00	10,600.00	11,124.86	9,730.00	42.65	41.17	69.83	1,396.78	2,807.34	2,457.58	2,376.06	81.52	30.149		
11,900.00	10,600.00	11,224.86	9,730.00	43.35	41.88	69.83	1,496.78	2,806.58	2,457.55	2,374.63	82.92	29.636		
12,000.00	10,600.00	11,324.86	9,730.00	44.09	42.64	69.83	1,596.78	2,805.82	2,457.53	2,373.12	84.40	29.117		
12,100.00	10,600.00	11,424.86	9,730.00	44.86	43.43	69.83	1,696.77	2,805.06	2,457.50	2,371.56	85.94	28.594		
12,200.00	10,600.00	11,524.86	9,730.00	45.67	44.25	69.83	1,796.77	2,804.29	2,457.48	2,369.93	87.55	28.070		
12,300.00	10,600.00	11,624.86	9,730.00	46.50	45.11	69.83	1,896.77	2,803.53	2,457.45	2,368.24	89.21	27.547		
12,400.00	10,600.00	11,724.86	9,730.00	47.37	46.00	69.83	1,996.77	2,802.77	2,457.43	2,366.50	90.93	27.026		
12,500.00	10,600.00	11,824.86	9,730.00	48.26	46.91	69.83	2,096.76	2,802.01	2,457.40	2,364.70	92.70	26.510		
12,600.00	10,600.00	11,924.86	9,730.00	49.18	47.86	69.83	2,196.76	2,801.25	2,457.38	2,362.86	94.52	26.000		
12,700.00	10,600.00	12,024.86	9,730.00	50.13	48.83	69.83	2,296.76	2,800.49	2,457.35	2,360.97	96.38	25.496		
12,800.00	10,600.00	12,124.86	9,730.00	51.10	49.82	69.83	2,396.75	2,799.73	2,457.33	2,359.04	98.29	25.001		
12,900.00	10,600.00	12,224.86	9,730.00	52.09	50.83	69.83	2,496.75	2,798.97	2,457.30	2,357.06	100.24	24.514		
13,000.00	10,600.00	12,324.86	9,730.00	53.10	51.87	69.83	2,596.75	2,798.21	2,457.28	2,355.05	102.23	24.037		
13,100.00	10,600.00	12,424.86	9,730.00	54.14	52.92	69.83	2,696.75	2,797.45	2,457.25	2,353.00	104.25	23.570		
13,200.00	10,600.00	12,524.86	9,730.00	55.19	54.00	69.83	2,796.74	2,796.68	2,457.23	2,350.92	106.31	23.113		
13,300.00	10,600.00	12,624.86	9,730.00	56.26	55.09	69.83	2,896.74	2,795.92	2,457.20	2,348.80	108.40	22.667		
13,400.00	10,600.00	12,724.86	9,730.00	57.35	56.20	69.83	2,996.74	2,795.16	2,457.18	2,346.65	110.53	22.232		
13,500.00	10,600.00	12,824.86	9,730.00	58.45	57.32	69.83	3,096.73	2,794.40	2,457.15	2,344.47	112.68	21.807		
13,600.00	10,600.00	12,924.86	9,730.00	59.57	58.46	69.83	3,196.73	2,793.64	2,457.13	2,342.27	114.86	21.393		
13,700.00	10,600.00	13,024.86	9,730.00	60.71	59.61	69.83	3,296.73	2,792.88	2,457.10	2,340.04	117.06	20.990		
13,800.00	10,600.00	13,124.86	9,730.00	61.85	60.78	69.83	3,396.73	2,792.12	2,457.08	2,337.79	119.29	20.597		
13,900.00	10,600.00	13,224.86	9,730.00	63.01	61.95	69.83	3,496.72	2,791.36	2,457.05	2,335.51	121.54	20.215		
14,000.00	10,600.00	13,324.86	9,730.00	64.18	63.14	69.83	3,596.72	2,790.60	2,457.03	2,333.21	123.82	19.844		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	13,424.86	9,730.00	65.37	64.34	69.83	3,696.72	2,789.84	2,457.00	2,330.89	126.11	19.483	
14,200.00	10,600.00	13,524.86	9,730.00	66.56	65.55	69.83	3,796.71	2,789.07	2,456.98	2,328.55	128.43	19.131	
14,300.00	10,600.00	13,624.86	9,730.00	67.76	66.77	69.83	3,896.71	2,788.31	2,456.95	2,326.19	130.76	18.790	
14,400.00	10,600.00	13,724.86	9,730.00	68.98	68.00	69.83	3,996.71	2,787.55	2,456.93	2,323.82	133.11	18.458	
14,500.00	10,600.00	13,824.86	9,730.00	70.20	69.24	69.83	4,096.71	2,786.79	2,456.90	2,321.43	135.48	18.135	
14,600.00	10,600.00	13,924.86	9,730.00	71.43	70.48	69.83	4,196.70	2,786.03	2,456.88	2,319.02	137.86	17.822	
14,700.00	10,600.00	14,024.86	9,730.00	72.67	71.74	69.83	4,296.70	2,785.27	2,456.85	2,316.60	140.26	17.517	
14,800.00	10,600.00	14,124.86	9,730.00	73.92	73.00	69.83	4,396.70	2,784.51	2,456.83	2,314.16	142.67	17.221	
14,900.00	10,600.00	14,224.86	9,730.00	75.17	74.27	69.83	4,496.69	2,783.75	2,456.80	2,311.71	145.09	16.933	
15,000.00	10,600.00	14,324.86	9,730.00	76.44	75.54	69.83	4,596.69	2,782.99	2,456.78	2,309.25	147.53	16.653	
15,100.00	10,600.00	14,424.86	9,730.00	77.70	76.82	69.83	4,696.69	2,782.23	2,456.75	2,306.77	149.98	16.380	
15,200.00	10,600.00	14,524.86	9,730.00	78.98	78.11	69.82	4,796.68	2,781.47	2,456.73	2,304.29	152.44	16.116	
15,300.00	10,600.00	14,624.86	9,730.00	80.26	79.40	69.82	4,896.68	2,780.70	2,456.70	2,301.79	154.92	15.858	
15,400.00	10,600.00	14,724.86	9,730.00	81.55	80.70	69.82	4,996.68	2,779.94	2,456.68	2,299.28	157.40	15.608	
15,484.47	10,600.00	14,809.33	9,730.00	82.64	81.80	69.82	5,081.15	2,779.30	2,456.66	2,297.15	159.50	15.402 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.85	91.87	1,670.02	1,672.70					
100.00	100.00	77.60	77.60	0.52	0.51	86.85	91.87	1,670.02	1,672.55	1,671.52	1.03	1,626.168		
200.00	200.00	177.60	177.60	0.70	0.65	86.85	91.87	1,670.02	1,672.55	1,671.20	1.35	1,238.593		
300.00	300.00	277.60	277.60	0.99	0.92	86.85	91.87	1,670.02	1,672.55	1,670.64	1.91	877.365		
400.00	400.00	377.60	377.60	1.31	1.24	86.85	91.87	1,670.02	1,672.55	1,670.00	2.54	657.358		
500.00	500.00	477.60	477.60	1.65	1.57	86.85	91.87	1,670.02	1,672.55	1,669.33	3.22	520.093		
600.00	600.00	577.60	577.60	1.99	1.91	86.85	91.87	1,670.02	1,672.55	1,668.64	3.90	428.464		
700.00	700.00	677.60	677.60	2.34	2.26	86.85	91.87	1,670.02	1,672.55	1,667.95	4.60	363.577		
800.00	800.00	777.60	777.60	2.69	2.61	86.85	91.87	1,670.02	1,672.55	1,667.25	5.30	315.436		
900.00	900.00	877.60	877.60	3.04	2.96	86.85	91.87	1,670.02	1,672.55	1,666.54	6.01	278.390		
1,000.00	1,000.00	977.60	977.60	3.40	3.32	86.85	91.87	1,670.02	1,672.55	1,665.83	6.72	249.042		
1,100.00	1,100.00	1,077.60	1,077.60	3.75	3.67	86.85	91.87	1,670.02	1,672.55	1,665.12	7.43	225.240		
1,200.00	1,200.00	1,177.60	1,177.60	4.11	4.03	86.85	91.87	1,670.02	1,672.55	1,664.41	8.14	205.558		
1,300.00	1,300.00	1,277.60	1,277.60	4.46	4.38	86.85	91.87	1,670.02	1,672.55	1,663.70	8.85	189.019		
1,400.00	1,400.00	1,377.60	1,377.60	4.82	4.74	86.85	91.87	1,670.02	1,672.55	1,662.99	9.56	174.930		
1,500.00	1,500.00	1,477.60	1,477.60	5.18	5.10	86.85	91.87	1,670.02	1,672.55	1,662.27	10.27	162.786		
1,600.00	1,600.00	1,577.60	1,577.60	5.53	5.45	86.85	91.87	1,670.02	1,672.55	1,661.56	10.99	152.212		
1,700.00	1,700.00	1,677.60	1,677.60	5.89	5.81	86.85	91.87	1,670.02	1,672.55	1,660.85	11.70	142.923		
1,800.00	1,800.00	1,777.60	1,777.60	6.25	6.17	86.85	91.87	1,670.02	1,672.55	1,660.13	12.42	134.699		
1,900.00	1,900.00	1,877.60	1,877.60	6.61	6.53	86.85	91.87	1,670.02	1,672.55	1,659.42	13.13	127.368		
2,000.00	2,000.00	1,977.60	1,977.60	6.96	6.88	86.85	91.87	1,670.02	1,672.55	1,658.70	13.85	120.791		
2,100.00	2,099.99	2,077.59	2,077.59	7.31	7.24	-8.63	91.87	1,670.02	1,671.69	1,657.13	14.55	114.878		
2,200.00	2,199.96	2,177.56	2,177.56	7.65	7.60	-8.65	91.87	1,670.02	1,669.10	1,653.85	15.25	109.458		
2,300.00	2,299.86	2,277.46	2,277.46	7.99	7.96	-8.68	91.87	1,670.02	1,664.79	1,648.84	15.95	104.394		
2,399.87	2,399.54	2,377.14	2,377.14	8.34	8.31	-8.72	91.87	1,670.02	1,658.76	1,642.11	16.65	99.652		
2,500.00	2,499.43	2,477.03	2,477.03	8.69	8.67	-8.76	91.87	1,670.02	1,651.86	1,634.51	17.35	95.225		
2,600.00	2,599.19	2,576.79	2,576.79	9.03	9.03	-8.79	91.87	1,670.02	1,644.97	1,626.92	18.05	91.142		
2,700.00	2,698.94	2,676.54	2,676.54	9.39	9.38	-8.83	91.87	1,670.02	1,638.07	1,619.32	18.75	87.359		
2,800.00	2,798.70	2,776.30	2,776.30	9.74	9.74	-8.87	91.87	1,670.02	1,631.18	1,611.73	19.46	83.843		
2,900.00	2,898.46	2,876.06	2,876.06	10.09	10.10	-8.91	91.87	1,670.02	1,624.29	1,604.13	20.16	80.569		
3,000.00	2,998.21	2,975.81	2,975.81	10.45	10.46	-8.94	91.87	1,670.02	1,617.40	1,596.54	20.87	77.513		
3,100.00	3,097.97	3,075.57	3,075.57	10.80	10.81	-8.98	91.87	1,670.02	1,610.52	1,588.94	21.57	74.653		
3,200.00	3,197.73	3,175.33	3,175.33	11.16	11.17	-9.02	91.87	1,670.02	1,603.63	1,581.35	22.28	71.973		
3,300.00	3,297.48	3,275.08	3,275.08	11.52	11.53	-9.06	91.87	1,670.02	1,596.74	1,573.75	22.99	69.455		
3,400.00	3,397.24	3,374.84	3,374.84	11.88	11.88	-9.10	91.87	1,670.02	1,589.85	1,566.16	23.70	67.087		
3,500.00	3,497.00	3,474.60	3,474.60	12.24	12.24	-9.14	91.87	1,670.02	1,582.97	1,558.56	24.41	64.854		
3,600.00	3,596.75	3,574.35	3,574.35	12.60	12.60	-9.18	91.87	1,670.02	1,576.08	1,550.97	25.12	62.746		
3,700.00	3,696.51	3,674.11	3,674.11	12.96	12.96	-9.22	91.87	1,670.02	1,569.20	1,543.37	25.83	60.752		
3,800.00	3,796.27	3,773.87	3,773.87	13.32	13.31	-9.26	91.87	1,670.02	1,562.32	1,535.78	26.54	58.865		
3,900.00	3,896.02	3,873.62	3,873.62	13.68	13.67	-9.30	91.87	1,670.02	1,555.43	1,528.18	27.25	57.075		
4,000.00	3,995.78	3,973.38	3,973.38	14.04	14.03	-9.35	91.87	1,670.02	1,548.55	1,520.59	27.96	55.376		
4,100.00	4,095.54	4,077.29	4,077.29	14.40	14.39	-9.37	91.35	1,669.95	1,541.57	1,512.90	28.68	53.757		
4,200.00	4,195.29	4,182.65	4,182.62	14.77	14.73	-9.33	88.98	1,669.64	1,534.24	1,504.87	29.37	52.232		
4,300.00	4,295.05	4,285.56	4,285.45	15.13	15.06	-9.22	84.97	1,669.10	1,526.58	1,496.52	30.06	50.784		
4,400.00	4,394.81	4,385.22	4,385.02	15.49	15.39	-9.11	80.77	1,668.53	1,518.86	1,488.12	30.74	49.410		
4,500.00	4,494.56	4,484.87	4,484.58	15.86	15.71	-8.99	76.57	1,667.97	1,511.15	1,479.73	31.42	48.093		
4,600.00	4,594.32	4,584.53	4,584.15	16.22	16.04	-8.87	72.36	1,667.41	1,503.45	1,471.34	32.11	46.829		
4,700.00	4,694.08	4,684.18	4,683.71	16.59	16.37	-8.75	68.16	1,666.84	1,495.75	1,462.96	32.79	45.616		
4,800.00	4,793.83	4,783.84	4,783.28	16.95	16.70	-8.63	63.96	1,666.28	1,488.06	1,454.58	33.48	44.450		
4,900.00	4,893.59	4,883.49	4,882.84	17.32	17.03	-8.51	59.76	1,665.71	1,480.37	1,446.21	34.17	43.330		
5,000.00	4,993.35	4,983.15	4,982.41	17.68	17.36	-8.39	55.56	1,665.15	1,472.69	1,437.84	34.86	42.252		
5,100.00	5,093.10	5,082.80	5,081.97	18.05	17.70	-8.27	51.36	1,664.59	1,465.02	1,429.48	35.55	41.215		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,182.46	5,181.54	18.42	18.03	-8.14	47.15	1,664.02	1,457.36	1,421.12	36.24	40.216		
5,300.00	5,292.62	5,282.11	5,281.10	18.78	18.37	-8.01	42.95	1,663.46	1,449.70	1,412.77	36.93	39.253		
5,400.00	5,392.37	5,381.77	5,380.67	19.15	18.71	-7.89	38.75	1,662.89	1,442.05	1,404.42	37.63	38.325		
5,500.00	5,492.13	5,481.42	5,480.23	19.52	19.04	-7.76	34.55	1,662.33	1,434.40	1,396.08	38.32	37.429		
5,600.00	5,591.89	5,581.08	5,579.80	19.88	19.38	-7.63	30.35	1,661.77	1,426.77	1,387.75	39.02	36.565		
5,700.00	5,691.64	5,680.73	5,679.36	20.25	19.72	-7.50	26.14	1,661.20	1,419.14	1,379.42	39.72	35.731		
5,800.00	5,791.40	5,780.39	5,778.93	20.62	20.06	-7.36	21.94	1,660.64	1,411.52	1,371.10	40.42	34.924		
5,900.00	5,891.16	5,880.05	5,878.49	20.98	20.40	-7.23	17.74	1,660.08	1,403.90	1,362.79	41.12	34.145		
6,000.00	5,990.91	5,979.70	5,978.06	21.35	20.75	-7.09	13.54	1,659.51	1,396.30	1,354.48	41.82	33.391		
6,100.00	6,090.67	6,079.36	6,077.62	21.72	21.09	-6.95	9.34	1,658.95	1,388.70	1,346.18	42.52	32.661		
6,200.00	6,190.42	6,179.01	6,177.18	22.09	21.43	-6.81	5.14	1,658.38	1,381.11	1,337.89	43.22	31.955		
6,300.00	6,290.18	6,278.67	6,276.75	22.45	21.78	-6.67	0.93	1,657.82	1,373.53	1,329.61	43.92	31.271		
6,400.00	6,389.94	6,378.32	6,376.31	22.82	22.12	-6.53	-3.27	1,657.26	1,365.96	1,321.33	44.63	30.609		
6,500.00	6,489.69	6,477.98	6,475.88	23.19	22.47	-6.39	-7.47	1,656.69	1,358.39	1,313.06	45.33	29.966		
6,600.00	6,589.45	6,577.63	6,575.44	23.56	22.81	-6.24	-11.67	1,656.13	1,350.83	1,304.80	46.04	29.343		
6,700.00	6,689.21	6,677.29	6,675.01	23.93	23.16	-6.10	-15.87	1,655.56	1,343.29	1,296.55	46.74	28.739		
6,800.00	6,788.96	6,776.94	6,774.57	24.29	23.51	-5.95	-20.07	1,655.00	1,335.75	1,288.30	47.45	28.153		
6,900.00	6,888.72	6,876.60	6,874.14	24.66	23.85	-5.80	-24.28	1,654.44	1,328.22	1,280.07	48.15	27.583		
7,000.00	6,988.48	6,976.25	6,973.70	25.03	24.20	-5.64	-28.48	1,653.87	1,320.70	1,271.84	48.86	27.030		
7,100.00	7,088.23	7,075.91	7,073.27	25.40	24.55	-5.49	-32.68	1,653.31	1,313.19	1,263.62	49.57	26.493		
7,200.00	7,187.99	7,175.56	7,172.83	25.77	24.90	-5.33	-36.88	1,652.75	1,305.69	1,255.41	50.28	25.971		
7,300.00	7,287.75	7,275.22	7,272.40	26.14	25.25	-5.18	-41.08	1,652.18	1,298.20	1,247.21	50.98	25.463		
7,400.00	7,387.50	7,374.87	7,371.96	26.50	25.60	-5.02	-45.28	1,651.62	1,290.71	1,239.02	51.69	24.969		
7,500.00	7,487.26	7,474.53	7,471.53	26.87	25.95	-4.86	-49.49	1,651.05	1,283.24	1,230.84	52.40	24.488		
7,600.00	7,587.02	7,574.18	7,571.09	27.24	26.30	-4.69	-53.69	1,650.49	1,275.78	1,222.67	53.11	24.021		
7,700.00	7,686.77	7,673.84	7,670.66	27.61	26.65	-4.53	-57.89	1,649.93	1,268.33	1,214.51	53.82	23.565		
7,800.00	7,786.53	7,773.49	7,770.22	27.98	27.00	-4.36	-62.09	1,649.36	1,260.89	1,206.36	54.53	23.122		
7,900.00	7,886.29	7,873.15	7,869.79	28.35	27.35	-4.19	-66.29	1,648.80	1,253.46	1,198.22	55.24	22.690		
8,000.00	7,986.04	7,972.80	7,969.35	28.72	27.70	-4.02	-70.50	1,648.23	1,246.04	1,190.09	55.95	22.269		
8,100.00	8,085.80	8,072.46	8,068.92	29.09	28.06	-3.85	-74.70	1,647.67	1,238.63	1,181.97	56.67	21.858		
8,200.00	8,185.56	8,172.11	8,168.48	29.46	28.41	-3.67	-78.90	1,647.11	1,231.24	1,173.86	57.38	21.458		
8,300.00	8,285.31	8,271.77	8,268.05	29.83	28.76	-3.50	-83.10	1,646.54	1,223.85	1,165.76	58.09	21.068		
8,400.00	8,385.07	8,371.42	8,367.61	30.20	29.11	-3.32	-87.30	1,645.98	1,216.48	1,157.68	58.80	20.687		
8,500.00	8,484.83	8,471.08	8,467.18	30.56	29.47	-3.14	-91.50	1,645.41	1,209.12	1,149.60	59.52	20.316		
8,600.00	8,584.58	8,570.73	8,566.74	30.93	29.82	-2.95	-95.71	1,644.85	1,201.77	1,141.54	60.23	19.953		
8,700.00	8,684.34	8,670.39	8,666.31	31.30	30.17	-2.77	-99.91	1,644.29	1,194.43	1,133.49	60.94	19.600		
8,800.00	8,784.10	8,770.04	8,765.87	31.67	30.53	-2.58	-104.11	1,643.72	1,187.11	1,125.45	61.66	19.254		
8,900.00	8,883.85	8,869.70	8,865.44	32.04	30.88	-2.39	-108.31	1,643.16	1,179.80	1,117.43	62.37	18.916		
9,000.00	8,983.61	8,969.35	8,965.00	32.41	31.24	-2.20	-112.51	1,642.60	1,172.50	1,109.42	63.08	18.587		
9,100.00	9,083.37	9,069.01	9,064.57	32.78	31.59	-2.00	-116.71	1,642.03	1,165.22	1,101.42	63.80	18.264		
9,200.00	9,183.12	9,168.66	9,164.13	33.15	31.94	-1.80	-120.92	1,641.47	1,157.95	1,093.44	64.51	17.949		
9,300.00	9,282.88	9,268.32	9,263.69	33.52	32.30	-1.60	-125.12	1,640.90	1,150.69	1,085.46	65.23	17.641		
9,400.00	9,382.64	9,367.97	9,363.26	33.89	32.65	-1.40	-129.32	1,640.34	1,143.45	1,077.51	65.94	17.340		
9,428.07	9,410.64	9,404.05	9,391.21	33.99	32.78	-1.34	-130.50	1,640.18	1,141.42	1,075.25	66.17	17.249		
9,500.00	9,482.43	9,467.67	9,462.87	34.26	33.01	-1.19	-133.52	1,639.78	1,136.90	1,070.24	66.66	17.056		
9,600.00	9,582.36	9,566.73	9,561.84	34.62	33.36	-1.00	-137.41	1,639.25	1,132.89	1,065.52	67.37	16.816		
9,694.65	9,677.00	9,659.85	9,654.95	34.95	33.69	94.57	-139.07	1,639.03	1,131.62	1,063.59	68.03	16.635		
9,700.00	9,682.35	9,665.12	9,660.22	34.97	33.71	94.57	-139.09	1,639.03	1,131.62	1,063.56	68.06	16.626		
9,740.18	9,722.53	9,705.03	9,700.13	35.10	33.84	94.57	-139.13	1,639.02	1,131.62	1,063.28	68.34	16.558		
9,800.00	9,782.35	9,764.85	9,759.95	35.31	34.05	94.57	-139.13	1,639.02	1,131.62	1,062.87	68.75	16.460		
9,900.00	9,882.35	9,864.85	9,859.95	35.65	34.39	94.57	-139.13	1,639.02	1,131.62	1,062.18	69.44	16.297		
10,000.00	9,982.35	9,964.85	9,959.95	35.99	34.74	94.57	-139.13	1,639.02	1,131.62	1,061.49	70.13	16.137		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,009.54	10,004.64	36.14	34.89	94.57	-139.13	1,639.02	1,131.62	1,061.18	70.43	16.066		
10,050.00	10,032.35	10,014.85	10,009.95	36.16	34.91	94.99	-139.13	1,639.02	1,131.62	1,061.15	70.47	16.058		
10,100.00	10,082.26	10,071.76	10,066.83	36.32	35.10	95.06	-137.75	1,639.01	1,131.75	1,060.92	70.83	15.979		
10,150.00	10,131.76	10,132.41	10,127.00	36.49	35.31	95.11	-130.34	1,638.96	1,131.83	1,060.65	71.18	15.901		
10,200.00	10,180.46	10,193.14	10,186.12	36.65	35.50	95.11	-116.60	1,638.85	1,131.82	1,060.30	71.52	15.825		
10,250.00	10,227.98	10,253.78	10,243.38	36.81	35.69	95.06	-96.72	1,638.70	1,131.73	1,059.88	71.85	15.752		
10,300.00	10,273.98	10,314.21	10,298.03	36.95	35.86	94.96	-70.99	1,638.50	1,131.56	1,059.40	72.16	15.681		
10,350.00	10,318.11	10,374.29	10,349.38	37.09	36.03	94.81	-39.86	1,638.27	1,131.31	1,058.85	72.46	15.612		
10,400.00	10,360.01	10,433.90	10,396.83	37.21	36.19	94.63	-3.82	1,637.99	1,131.00	1,058.25	72.76	15.545		
10,450.00	10,399.38	10,492.93	10,439.88	37.32	36.34	94.40	36.53	1,637.69	1,130.64	1,057.60	73.05	15.479		
10,500.00	10,435.92	10,551.29	10,478.14	37.42	36.49	94.13	80.56	1,637.35	1,130.24	1,056.91	73.33	15.413		
10,550.00	10,469.35	10,608.90	10,511.32	37.51	36.63	93.83	127.63	1,636.99	1,129.82	1,056.20	73.62	15.347		
10,600.00	10,499.41	10,665.70	10,539.25	37.59	36.77	93.49	177.06	1,636.62	1,129.39	1,055.48	73.91	15.281		
10,650.00	10,525.87	10,721.66	10,561.84	37.66	36.90	93.13	228.22	1,636.23	1,128.96	1,054.76	74.20	15.216		
10,700.00	10,548.54	10,776.73	10,579.11	37.74	37.04	92.75	280.50	1,635.83	1,128.55	1,054.07	74.49	15.151		
10,750.00	10,567.24	10,830.92	10,591.12	37.84	37.17	92.35	333.32	1,635.43	1,128.18	1,053.40	74.78	15.086		
10,800.00	10,581.83	10,884.22	10,598.01	37.97	37.30	91.94	386.15	1,635.02	1,127.85	1,052.78	75.07	15.023		
10,850.00	10,592.19	10,936.39	10,600.00	38.11	37.43	91.51	438.27	1,634.63	1,127.58	1,052.22	75.36	14.962		
10,900.00	10,598.26	10,986.01	10,600.00	38.25	37.56	91.22	487.88	1,634.25	1,127.42	1,051.77	75.65	14.903		
10,944.69	10,600.00	11,030.66	10,600.00	38.39	37.69	91.14	532.52	1,633.91	1,127.37	1,051.46	75.91	14.851		
11,000.00	10,600.00	11,085.96	10,600.00	38.56	37.86	91.14	587.83	1,633.49	1,127.36	1,051.11	76.24	14.786		
11,100.00	10,600.00	11,185.96	10,600.00	38.91	38.22	91.14	687.83	1,632.73	1,127.33	1,050.40	76.93	14.653		
11,200.00	10,600.00	11,285.96	10,600.00	39.31	38.63	91.14	787.83	1,631.97	1,127.30	1,049.58	77.73	14.504		
11,300.00	10,600.00	11,385.96	10,600.00	39.76	39.08	91.14	887.82	1,631.20	1,127.28	1,048.66	78.62	14.339		
11,400.00	10,600.00	11,485.96	10,600.00	40.25	39.59	91.14	987.82	1,630.44	1,127.25	1,047.64	79.61	14.160		
11,500.00	10,600.00	11,585.96	10,600.00	40.79	40.14	91.14	1,087.82	1,629.68	1,127.22	1,046.54	80.69	13.970		
11,600.00	10,600.00	11,685.96	10,600.00	41.37	40.73	91.14	1,187.81	1,628.92	1,127.20	1,045.34	81.86	13.770		
11,700.00	10,600.00	11,785.96	10,600.00	41.99	41.37	91.14	1,287.81	1,628.16	1,127.17	1,044.05	83.12	13.561		
11,800.00	10,600.00	11,885.96	10,600.00	42.65	42.05	91.14	1,387.81	1,627.40	1,127.14	1,042.69	84.45	13.346		
11,900.00	10,600.00	11,985.96	10,600.00	43.35	42.77	91.14	1,487.81	1,626.64	1,127.12	1,041.25	85.87	13.126		
12,000.00	10,600.00	12,085.96	10,600.00	44.09	43.53	91.14	1,587.80	1,625.88	1,127.09	1,039.73	87.36	12.901		
12,100.00	10,600.00	12,185.96	10,600.00	44.86	44.32	91.14	1,687.80	1,625.11	1,127.06	1,038.14	88.92	12.675		
12,200.00	10,600.00	12,285.96	10,600.00	45.67	45.14	91.14	1,787.80	1,624.35	1,127.04	1,036.49	90.55	12.447		
12,300.00	10,600.00	12,385.96	10,600.00	46.50	45.99	91.14	1,887.79	1,623.59	1,127.01	1,034.77	92.24	12.218		
12,400.00	10,600.00	12,485.96	10,600.00	47.37	46.88	91.14	1,987.79	1,622.83	1,126.98	1,032.99	93.99	11.990		
12,500.00	10,600.00	12,585.96	10,600.00	48.26	47.79	91.14	2,087.79	1,622.07	1,126.96	1,031.16	95.80	11.764		
12,600.00	10,600.00	12,685.96	10,600.00	49.18	48.73	91.14	2,187.78	1,621.31	1,126.93	1,029.27	97.66	11.539		
12,700.00	10,600.00	12,785.96	10,600.00	50.13	49.69	91.14	2,287.78	1,620.55	1,126.90	1,027.33	99.57	11.318		
12,800.00	10,600.00	12,885.96	10,600.00	51.10	50.68	91.14	2,387.78	1,619.79	1,126.87	1,025.35	101.53	11.099		
12,900.00	10,600.00	12,985.96	10,600.00	52.09	51.69	91.14	2,487.78	1,619.02	1,126.85	1,023.31	103.53	10.884		
13,000.00	10,600.00	13,085.96	10,600.00	53.10	52.72	91.14	2,587.77	1,618.26	1,126.82	1,021.24	105.58	10.673		
13,100.00	10,600.00	13,185.96	10,600.00	54.14	53.77	91.14	2,687.77	1,617.50	1,126.79	1,019.13	107.66	10.466		
13,200.00	10,600.00	13,285.96	10,600.00	55.19	54.84	91.14	2,787.77	1,616.74	1,126.77	1,016.98	109.79	10.263		
13,300.00	10,600.00	13,385.96	10,600.00	56.26	55.93	91.14	2,887.76	1,615.98	1,126.74	1,014.79	111.95	10.065		
13,400.00	10,600.00	13,485.96	10,600.00	57.35	57.03	91.14	2,987.76	1,615.22	1,126.71	1,012.57	114.14	9.871		
13,500.00	10,600.00	13,585.96	10,600.00	58.45	58.15	91.14	3,087.76	1,614.46	1,126.69	1,010.32	116.36	9.683		
13,600.00	10,600.00	13,685.96	10,600.00	59.57	59.28	91.14	3,187.76	1,613.70	1,126.66	1,008.04	118.62	9.498		
13,700.00	10,600.00	13,785.96	10,600.00	60.71	60.43	91.14	3,287.75	1,612.93	1,126.63	1,005.73	120.90	9.319		
13,800.00	10,600.00	13,885.96	10,600.00	61.85	61.59	91.14	3,387.75	1,612.17	1,126.61	1,003.40	123.21	9.144		
13,900.00	10,600.00	13,985.96	10,600.00	63.01	62.76	91.14	3,487.75	1,611.41	1,126.58	1,001.04	125.54	8.974		
14,000.00	10,600.00	14,085.96	10,600.00	64.18	63.94	91.14	3,587.74	1,610.65	1,126.55	998.65	127.90	8.808		
14,100.00	10,600.00	14,185.96	10,600.00	65.37	65.14	91.14	3,687.74	1,609.89	1,126.53	996.25	130.28	8.647		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,285.96	10,600.00	66.56	66.34	91.14	3,787.74	1,609.13	1,126.50	993.82	132.68	8.490	
14,300.00	10,600.00	14,385.96	10,600.00	67.76	67.56	91.14	3,887.74	1,608.37	1,126.47	991.37	135.10	8.338	
14,400.00	10,600.00	14,485.96	10,600.00	68.98	68.78	91.14	3,987.73	1,607.60	1,126.44	988.90	137.54	8.190	
14,500.00	10,600.00	14,585.96	10,600.00	70.20	70.02	91.14	4,087.73	1,606.84	1,126.42	986.42	140.00	8.046	
14,600.00	10,600.00	14,685.96	10,600.00	71.43	71.26	91.14	4,187.73	1,606.08	1,126.39	983.92	142.47	7.906	
14,700.00	10,600.00	14,785.96	10,600.00	72.67	72.51	91.14	4,287.72	1,605.32	1,126.36	981.40	144.97	7.770	
14,800.00	10,600.00	14,885.96	10,600.00	73.92	73.77	91.14	4,387.72	1,604.56	1,126.34	978.86	147.47	7.638	
14,900.00	10,600.00	14,985.96	10,600.00	75.17	75.03	91.14	4,487.72	1,603.80	1,126.31	976.32	149.99	7.509	
15,000.00	10,600.00	15,085.96	10,600.00	76.44	76.30	91.14	4,587.72	1,603.04	1,126.28	973.75	152.53	7.384	
15,100.00	10,600.00	15,185.96	10,600.00	77.70	77.58	91.14	4,687.71	1,602.28	1,126.26	971.18	155.08	7.263	
15,200.00	10,600.00	15,285.96	10,600.00	78.98	78.87	91.14	4,787.71	1,601.51	1,126.23	968.59	157.64	7.144	
15,300.00	10,600.00	15,385.96	10,600.00	80.26	80.16	91.14	4,887.71	1,600.75	1,126.20	965.99	160.21	7.029	
15,400.00	10,600.00	15,485.96	10,600.00	81.55	81.45	91.14	4,987.70	1,599.99	1,126.18	963.38	162.80	6.918	
15,484.47	10,600.00	15,570.43	10,600.00	82.64	82.55	91.14	5,072.17	1,599.35	1,126.15	961.16	164.99	6.826	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	87.00	92.38	1,760.02	1,762.59					
100.00	100.00	77.20	77.20	0.52	0.51	87.00	92.38	1,760.02	1,762.45	1,761.42	1.03	1,713.756		
200.00	200.00	177.20	177.20	0.70	0.65	87.00	92.38	1,760.02	1,762.45	1,761.10	1.35	1,306.047		
300.00	300.00	277.20	277.20	0.99	0.92	87.00	92.38	1,760.02	1,762.45	1,760.54	1.91	925.106		
400.00	400.00	377.20	377.20	1.31	1.23	87.00	92.38	1,760.02	1,762.45	1,759.90	2.54	693.047		
500.00	500.00	477.20	477.20	1.65	1.57	87.00	92.38	1,760.02	1,762.45	1,759.23	3.21	548.280		
600.00	600.00	577.20	577.20	1.99	1.91	87.00	92.38	1,760.02	1,762.45	1,758.54	3.90	451.654		
700.00	700.00	677.20	677.20	2.34	2.26	87.00	92.38	1,760.02	1,762.45	1,757.85	4.60	383.236		
800.00	800.00	777.20	777.20	2.69	2.61	87.00	92.38	1,760.02	1,762.45	1,757.15	5.30	332.479		
900.00	900.00	877.20	877.20	3.04	2.96	87.00	92.38	1,760.02	1,762.45	1,756.44	6.01	293.423		
1,000.00	1,000.00	977.20	977.20	3.40	3.32	87.00	92.38	1,760.02	1,762.45	1,755.73	6.71	262.483		
1,100.00	1,100.00	1,077.20	1,077.20	3.75	3.67	87.00	92.38	1,760.02	1,762.45	1,755.02	7.42	237.392		
1,200.00	1,200.00	1,177.20	1,177.20	4.11	4.03	87.00	92.38	1,760.02	1,762.45	1,754.31	8.14	216.645		
1,300.00	1,300.00	1,277.20	1,277.20	4.46	4.38	87.00	92.38	1,760.02	1,762.45	1,753.60	8.85	199.211		
1,400.00	1,400.00	1,377.20	1,377.20	4.82	4.74	87.00	92.38	1,760.02	1,762.45	1,752.89	9.56	184.360		
1,500.00	1,500.00	1,477.20	1,477.20	5.18	5.10	87.00	92.38	1,760.02	1,762.45	1,752.17	10.27	171.559		
1,600.00	1,600.00	1,577.20	1,577.20	5.53	5.45	87.00	92.38	1,760.02	1,762.45	1,751.46	10.99	160.414		
1,700.00	1,700.00	1,677.20	1,677.20	5.89	5.81	87.00	92.38	1,760.02	1,762.45	1,750.75	11.70	150.623		
1,800.00	1,800.00	1,777.20	1,777.20	6.25	6.17	87.00	92.38	1,760.02	1,762.45	1,750.03	12.42	141.955		
1,900.00	1,900.00	1,877.20	1,877.20	6.61	6.52	87.00	92.38	1,760.02	1,762.45	1,749.32	13.13	134.228		
2,000.00	2,000.00	1,977.20	1,977.20	6.96	6.88	87.00	92.38	1,760.02	1,762.45	1,748.60	13.85	127.297		
2,100.00	2,099.99	2,059.54	2,059.54	7.31	7.17	-8.48	92.31	1,760.33	1,761.97	1,747.49	14.48	121.682		
2,200.00	2,199.96	2,136.66	2,136.65	7.65	7.43	-8.48	92.03	1,761.62	1,761.03	1,745.95	15.08	116.775		
2,300.00	2,299.86	2,213.79	2,213.75	7.99	7.70	-8.48	91.53	1,763.92	1,759.67	1,743.99	15.68	112.246		
2,399.87	2,399.54	2,290.83	2,290.71	8.34	7.96	-8.48	90.81	1,767.23	1,757.88	1,741.60	16.27	108.026		
2,500.00	2,499.43	2,368.10	2,367.85	8.69	8.22	-8.46	89.86	1,771.57	1,756.52	1,739.65	16.87	104.118		
2,554.30	2,553.60	2,410.00	2,409.65	8.88	8.37	-8.45	89.26	1,774.35	1,756.33	1,739.13	17.19	102.144 CC		
2,600.00	2,599.19	2,445.27	2,444.83	9.03	8.49	-8.44	88.69	1,776.92	1,756.46	1,738.99	17.47	100.557 ES		
2,700.00	2,698.94	2,522.43	2,521.71	9.39	8.76	-8.41	87.31	1,783.28	1,757.71	1,739.64	18.06	97.306		
2,800.00	2,798.70	2,600.00	2,598.90	9.74	9.03	-8.37	85.69	1,790.69	1,760.25	1,741.59	18.66	94.326		
2,900.00	2,898.46	2,676.58	2,675.01	10.09	9.30	-8.33	83.88	1,799.01	1,764.09	1,744.84	19.25	91.622		
3,000.00	2,998.21	2,753.51	2,751.34	10.45	9.57	-8.27	81.84	1,808.36	1,769.23	1,749.39	19.85	89.142		
3,100.00	3,097.97	2,830.32	2,827.42	10.80	9.85	-8.21	79.58	1,818.70	1,775.67	1,755.23	20.44	86.879		
3,200.00	3,197.73	2,912.60	2,908.75	11.16	10.15	-8.13	76.93	1,830.83	1,783.37	1,762.31	21.05	84.701		
3,300.00	3,297.48	3,012.22	3,007.18	11.52	10.52	-8.03	73.66	1,845.86	1,791.43	1,769.68	21.76	82.343		
3,400.00	3,397.24	3,111.85	3,105.62	11.88	10.89	-7.94	70.38	1,860.89	1,799.50	1,777.05	22.46	80.123		
3,500.00	3,497.00	3,211.48	3,204.05	12.24	11.26	-7.84	67.10	1,875.92	1,807.58	1,784.42	23.16	78.031		
3,600.00	3,596.75	3,311.11	3,302.49	12.60	11.64	-7.75	63.82	1,890.95	1,815.66	1,791.79	23.87	76.057		
3,700.00	3,696.51	3,410.74	3,400.92	12.96	12.02	-7.66	60.54	1,905.99	1,823.75	1,799.17	24.58	74.191		
3,800.00	3,796.27	3,510.37	3,499.36	13.32	12.40	-7.56	57.26	1,921.02	1,831.84	1,806.55	25.29	72.425		
3,900.00	3,896.02	3,610.00	3,597.79	13.68	12.79	-7.47	53.98	1,936.05	1,839.94	1,813.93	26.01	70.751		
4,000.00	3,995.78	3,709.63	3,696.22	14.04	13.18	-7.38	50.71	1,951.08	1,848.04	1,821.32	26.72	69.163		
4,100.00	4,095.54	3,809.26	3,794.66	14.40	13.57	-7.29	47.43	1,966.11	1,856.14	1,828.71	27.44	67.656		
4,200.00	4,195.29	3,908.89	3,893.09	14.77	13.96	-7.21	44.15	1,981.14	1,864.25	1,836.10	28.15	66.222		
4,300.00	4,295.05	4,008.52	3,991.53	15.13	14.35	-7.12	40.87	1,996.17	1,872.37	1,843.50	28.87	64.857		
4,400.00	4,394.81	4,108.15	4,089.96	15.49	14.74	-7.03	37.59	2,011.20	1,880.48	1,850.90	29.59	63.556		
4,500.00	4,494.56	4,207.78	4,188.40	15.86	15.14	-6.94	34.31	2,026.23	1,888.61	1,858.30	30.31	62.315		
4,600.00	4,594.32	4,307.40	4,286.83	16.22	15.53	-6.86	31.03	2,041.26	1,896.73	1,865.70	31.03	61.131		
4,700.00	4,694.08	4,407.03	4,385.26	16.59	15.93	-6.77	27.76	2,056.29	1,904.86	1,873.11	31.75	59.998		
4,800.00	4,793.83	4,506.66	4,483.70	16.95	16.33	-6.69	24.48	2,071.32	1,913.00	1,880.53	32.47	58.915		
4,900.00	4,893.59	4,606.29	4,582.13	17.32	16.73	-6.61	21.20	2,086.35	1,921.14	1,887.94	33.19	57.878		
5,000.00	4,993.35	4,705.92	4,680.57	17.68	17.13	-6.52	17.92	2,101.38	1,929.28	1,895.36	33.92	56.884		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	4,805.55	4,779.00	18.05	17.53	-6.44	14.64	2,116.41	1,937.43	1,902.79	34.64	55.931		
5,200.00	5,192.86	4,905.18	4,877.44	18.42	17.94	-6.36	11.36	2,131.45	1,945.58	1,910.21	35.36	55.016		
5,300.00	5,292.62	5,004.81	4,975.87	18.78	18.34	-6.28	8.08	2,146.48	1,953.73	1,917.64	36.09	54.137		
5,400.00	5,392.37	5,104.44	5,074.30	19.15	18.74	-6.20	4.80	2,161.51	1,961.89	1,925.08	36.81	53.293		
5,500.00	5,492.13	5,204.07	5,172.74	19.52	19.15	-6.12	1.53	2,176.54	1,970.05	1,932.52	37.54	52.480		
5,600.00	5,591.89	5,303.70	5,271.17	19.88	19.55	-6.04	-1.75	2,191.57	1,978.22	1,939.96	38.27	51.698		
5,700.00	5,691.64	5,403.33	5,369.61	20.25	19.96	-5.96	-5.03	2,206.60	1,986.39	1,947.40	38.99	50.944		
5,800.00	5,791.40	5,502.96	5,468.04	20.62	20.36	-5.88	-8.31	2,221.63	1,994.56	1,954.85	39.72	50.218		
5,900.00	5,891.16	5,602.59	5,566.48	20.98	20.77	-5.81	-11.59	2,236.66	2,002.74	1,962.30	40.45	49.517		
6,000.00	5,990.91	5,702.21	5,664.91	21.35	21.18	-5.73	-14.87	2,251.69	2,010.92	1,969.75	41.17	48.841		
6,100.00	6,090.67	5,801.84	5,763.35	21.72	21.59	-5.66	-18.15	2,266.72	2,019.11	1,977.21	41.90	48.188		
6,200.00	6,190.42	5,901.47	5,861.78	22.09	21.99	-5.58	-21.42	2,281.75	2,027.29	1,984.67	42.63	47.557		
6,300.00	6,290.18	6,001.10	5,960.21	22.45	22.40	-5.51	-24.70	2,296.78	2,035.48	1,992.13	43.36	46.947		
6,400.00	6,389.94	6,100.73	6,058.65	22.82	22.81	-5.43	-27.98	2,311.81	2,043.68	1,999.59	44.09	46.357		
6,500.00	6,489.69	6,200.36	6,157.08	23.19	23.22	-5.36	-31.26	2,326.84	2,051.88	2,007.06	44.81	45.786		
6,600.00	6,589.45	6,300.01	6,255.52	23.56	23.63	-5.29	-34.54	2,341.88	2,060.08	2,014.53	45.54	45.233		
6,700.00	6,689.21	6,400.38	6,353.95	23.93	24.04	-5.21	-37.82	2,356.91	2,068.28	2,022.01	46.28	44.695		
6,800.00	6,788.96	6,500.75	6,452.39	24.29	24.46	-5.14	-41.10	2,371.94	2,076.49	2,029.48	47.01	44.174		
6,900.00	6,888.72	6,601.12	6,550.82	24.66	24.87	-5.07	-44.38	2,386.97	2,084.70	2,036.96	47.74	43.668		
7,000.00	6,988.48	6,701.49	6,649.25	25.03	25.28	-5.00	-47.65	2,402.00	2,092.91	2,044.44	48.47	43.177		
7,100.00	7,088.23	6,801.86	6,747.69	25.40	25.70	-4.93	-50.93	2,417.03	2,101.13	2,051.93	49.21	42.702		
7,200.00	7,187.99	6,902.23	6,846.12	25.77	26.11	-4.86	-54.21	2,432.06	2,109.35	2,059.41	49.94	42.239		
7,300.00	7,287.75	7,002.61	6,944.56	26.14	26.53	-4.79	-57.49	2,447.09	2,117.58	2,066.90	50.67	41.791		
7,400.00	7,387.50	7,102.98	7,042.99	26.50	26.94	-4.73	-60.77	2,462.12	2,125.80	2,074.40	51.40	41.355		
7,500.00	7,487.26	7,203.35	7,141.43	26.87	27.36	-4.66	-64.05	2,477.15	2,134.03	2,081.89	52.14	40.931		
7,600.00	7,587.02	7,303.72	7,239.86	27.24	27.77	-4.59	-67.33	2,492.18	2,142.26	2,089.39	52.87	40.519		
7,700.00	7,686.77	7,404.09	7,338.29	27.61	28.19	-4.52	-70.60	2,507.21	2,150.50	2,096.89	53.60	40.118		
7,800.00	7,786.53	7,504.46	7,436.73	27.98	28.60	-4.46	-73.88	2,522.24	2,158.74	2,104.40	54.34	39.728		
7,900.00	7,886.29	7,604.83	7,535.16	28.35	29.02	-4.39	-77.16	2,537.27	2,166.98	2,111.90	55.07	39.348		
8,000.00	7,986.04	7,705.20	7,633.60	28.72	29.44	-4.33	-80.44	2,552.30	2,175.22	2,119.41	55.81	38.978		
8,100.00	8,085.80	7,805.57	7,732.03	29.09	29.85	-4.26	-83.72	2,567.34	2,183.47	2,126.93	56.54	38.618		
8,200.00	8,185.56	7,905.94	7,830.47	29.46	30.27	-4.20	-87.00	2,582.37	2,191.72	2,134.44	57.27	38.267		
8,300.00	8,285.31	7,993.69	7,928.90	29.83	30.63	-4.13	-90.28	2,597.40	2,199.97	2,142.01	57.96	37.956		
8,400.00	8,385.07	8,106.68	8,027.33	30.20	31.10	-4.07	-93.55	2,612.43	2,208.22	2,149.48	58.74	37.591		
8,500.00	8,484.83	8,207.05	8,125.77	30.56	31.52	-4.01	-96.83	2,627.46	2,216.48	2,157.00	59.48	37.266		
8,600.00	8,584.58	8,307.43	8,224.20	30.93	31.94	-3.95	-100.11	2,642.49	2,224.74	2,164.53	60.21	36.948		
8,700.00	8,684.34	8,407.80	8,322.64	31.30	32.35	-3.88	-103.39	2,657.52	2,233.00	2,172.05	60.95	36.639		
8,800.00	8,784.10	8,508.17	8,421.07	31.67	32.77	-3.82	-106.67	2,672.55	2,241.27	2,179.58	61.68	36.336		
8,900.00	8,883.85	8,608.54	8,519.51	32.04	33.19	-3.76	-109.95	2,687.58	2,249.53	2,187.12	62.42	36.041		
9,000.00	8,983.61	8,708.91	8,617.94	32.41	33.61	-3.70	-113.23	2,702.61	2,257.80	2,194.65	63.15	35.753		
9,100.00	9,083.37	8,809.28	8,716.38	32.78	34.02	-3.64	-116.51	2,717.64	2,266.07	2,202.19	63.89	35.471		
9,200.00	9,183.12	8,909.65	8,814.81	33.15	34.44	-3.58	-119.78	2,732.67	2,274.35	2,209.73	64.62	35.195		
9,300.00	9,282.88	9,009.98	8,913.24	33.52	34.78	-3.52	-123.06	2,747.70	2,282.63	2,217.35	65.28	34.966		
9,400.00	9,382.64	9,089.61	9,011.68	33.89	35.19	-3.46	-126.34	2,762.73	2,290.91	2,224.89	66.01	34.704		
9,428.07	9,410.64	9,117.58	9,039.31	33.99	35.31	-3.45	-127.26	2,766.95	2,293.23	2,227.01	66.22	34.631		
9,500.00	9,482.43	9,222.86	9,143.39	34.26	35.74	-3.39	-130.64	2,782.43	2,299.69	2,232.78	66.92	34.367		
9,600.00	9,582.36	9,468.33	9,387.39	34.62	36.69	-3.29	-136.28	2,808.28	2,306.54	2,238.30	68.25	33.796		
9,694.65	9,677.00	9,701.88	9,620.66	34.95	37.51	92.22	-138.53	2,818.62	2,309.60	2,240.30	69.30	33.329		
9,700.00	9,682.35	9,715.10	9,633.88	34.97	37.55	92.22	-138.57	2,818.79	2,309.67	2,240.32	69.35	33.306		
9,800.00	9,782.35	9,840.77	9,759.55	35.31	37.95	92.22	-138.62	2,819.02	2,309.76	2,239.69	70.07	32.964		
9,900.00	9,882.35	9,940.77	9,859.55	35.65	38.27	92.22	-138.62	2,819.02	2,309.76	2,239.02	70.75	32.649		
10,000.00	9,982.35	10,040.77	9,959.55	35.99	38.59	92.22	-138.62	2,819.02	2,309.76	2,238.34	71.42	32.340		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,085.46	10,004.24	36.14	38.73	92.22	-138.62	2,819.02	2,309.76	2,238.04	71.72	32.203		
10,050.00	10,032.35	10,090.77	10,009.55	36.16	38.74	92.64	-138.62	2,819.02	2,309.76	2,238.00	71.76	32.187		
10,100.00	10,082.26	10,148.31	10,067.06	36.32	38.92	92.68	-137.22	2,819.01	2,309.83	2,237.73	72.11	32.033		
10,150.00	10,131.76	10,210.07	10,128.32	36.49	39.11	92.70	-129.60	2,818.95	2,309.87	2,237.42	72.45	31.881		
10,200.00	10,180.46	10,271.89	10,188.45	36.65	39.29	92.70	-115.41	2,818.85	2,309.86	2,237.07	72.79	31.734		
10,250.00	10,227.98	10,333.58	10,246.60	36.81	39.45	92.67	-94.88	2,818.69	2,309.80	2,236.68	73.11	31.593		
10,300.00	10,273.98	10,395.01	10,301.97	36.95	39.60	92.61	-68.35	2,818.49	2,309.69	2,236.26	73.42	31.457		
10,350.00	10,318.11	10,456.01	10,353.83	37.09	39.72	92.53	-36.29	2,818.24	2,309.53	2,235.81	73.73	31.326		
10,400.00	10,360.01	10,516.45	10,401.57	37.21	39.83	92.42	0.73	2,817.96	2,309.35	2,235.33	74.02	31.199		
10,450.00	10,399.38	10,576.21	10,444.67	37.32	39.91	92.29	42.08	2,817.65	2,309.13	2,234.82	74.31	31.076		
10,500.00	10,435.92	10,635.19	10,482.77	37.42	39.98	92.15	87.07	2,817.31	2,308.89	2,234.30	74.59	30.956		
10,550.00	10,469.35	10,693.30	10,515.59	37.51	40.02	91.98	135.00	2,816.94	2,308.64	2,233.78	74.86	30.838		
10,600.00	10,499.41	10,750.50	10,542.99	37.59	40.05	91.80	185.18	2,816.56	2,308.39	2,233.25	75.14	30.721		
10,650.00	10,525.87	10,806.74	10,564.93	37.66	40.07	91.61	236.94	2,816.17	2,308.14	2,232.72	75.42	30.606		
10,700.00	10,548.54	10,862.00	10,581.43	37.74	40.08	91.40	289.65	2,815.76	2,307.90	2,232.21	75.69	30.491		
10,750.00	10,567.24	10,916.27	10,592.63	37.84	40.09	91.19	342.74	2,815.36	2,307.69	2,231.73	75.96	30.378		
10,800.00	10,581.83	10,969.57	10,598.69	37.97	40.10	90.97	395.66	2,814.96	2,307.50	2,231.26	76.24	30.267		
10,850.00	10,592.19	11,021.18	10,600.00	38.11	40.11	90.75	447.24	2,814.57	2,307.35	2,230.84	76.51	30.156		
10,900.00	10,598.26	11,070.79	10,600.00	38.25	40.14	90.61	496.86	2,814.19	2,307.27	2,230.48	76.79	30.048		
10,944.69	10,600.00	11,115.44	10,600.00	38.39	40.18	90.57	541.50	2,813.85	2,307.24	2,230.21	77.03	29.953		
11,000.00	10,600.00	11,170.75	10,600.00	38.56	40.24	90.57	596.81	2,813.43	2,307.22	2,229.87	77.35	29.828		
11,100.00	10,600.00	11,270.75	10,600.00	38.91	40.42	90.57	696.80	2,812.67	2,307.19	2,229.19	78.01	29.577		
11,200.00	10,600.00	11,370.75	10,600.00	39.31	40.69	90.57	796.80	2,811.91	2,307.17	2,228.40	78.77	29.291		
11,300.00	10,600.00	11,470.75	10,600.00	39.76	41.05	90.57	896.80	2,811.14	2,307.14	2,227.52	79.63	28.975		
11,400.00	10,600.00	11,570.75	10,600.00	40.25	41.47	90.57	996.80	2,810.38	2,307.11	2,226.53	80.58	28.631		
11,500.00	10,600.00	11,670.75	10,600.00	40.79	41.96	90.57	1,096.79	2,809.62	2,307.09	2,225.46	81.63	28.263		
11,600.00	10,600.00	11,770.75	10,600.00	41.37	42.51	90.57	1,196.79	2,808.86	2,307.06	2,224.29	82.77	27.874		
11,700.00	10,600.00	11,870.75	10,600.00	41.99	43.10	90.57	1,296.79	2,808.10	2,307.03	2,223.05	83.99	27.468		
11,800.00	10,600.00	11,970.75	10,600.00	42.65	43.74	90.57	1,396.78	2,807.34	2,307.01	2,221.71	85.29	27.048		
11,900.00	10,600.00	12,070.75	10,600.00	43.35	44.42	90.57	1,496.78	2,806.58	2,306.98	2,220.30	86.68	26.616		
12,000.00	10,600.00	12,170.75	10,600.00	44.09	45.13	90.57	1,596.78	2,805.82	2,306.96	2,218.82	88.14	26.175		
12,100.00	10,600.00	12,270.75	10,600.00	44.86	45.88	90.57	1,696.78	2,805.06	2,306.93	2,217.26	89.66	25.729		
12,200.00	10,600.00	12,370.75	10,600.00	45.67	46.67	90.57	1,796.77	2,804.30	2,306.90	2,215.64	91.26	25.278		
12,300.00	10,600.00	12,470.75	10,600.00	46.50	47.48	90.57	1,896.77	2,803.53	2,306.88	2,213.96	92.92	24.826		
12,400.00	10,600.00	12,570.75	10,600.00	47.37	48.33	90.57	1,996.77	2,802.77	2,306.85	2,212.21	94.64	24.375		
12,500.00	10,600.00	12,670.75	10,600.00	48.26	49.20	90.57	2,096.76	2,802.01	2,306.82	2,210.40	96.42	23.925		
12,600.00	10,600.00	12,770.75	10,600.00	49.18	50.11	90.57	2,196.76	2,801.25	2,306.80	2,208.55	98.25	23.479		
12,700.00	10,600.00	12,870.75	10,600.00	50.13	51.03	90.57	2,296.76	2,800.49	2,306.77	2,206.64	100.13	23.037		
12,800.00	10,600.00	12,970.75	10,600.00	51.10	51.98	90.57	2,396.75	2,799.73	2,306.74	2,204.68	102.06	22.601		
12,900.00	10,600.00	13,070.75	10,600.00	52.09	52.96	90.57	2,496.75	2,798.97	2,306.72	2,202.67	104.04	22.171		
13,000.00	10,600.00	13,170.75	10,600.00	53.10	53.95	90.57	2,596.75	2,798.21	2,306.69	2,200.63	106.06	21.748		
13,100.00	10,600.00	13,270.75	10,600.00	54.14	54.97	90.57	2,696.75	2,797.45	2,306.66	2,198.54	108.12	21.334		
13,200.00	10,600.00	13,370.75	10,600.00	55.19	56.01	90.57	2,796.74	2,796.69	2,306.64	2,196.41	110.22	20.927		
13,300.00	10,600.00	13,470.75	10,600.00	56.26	57.06	90.57	2,896.74	2,795.92	2,306.61	2,194.25	112.36	20.529		
13,400.00	10,600.00	13,570.75	10,600.00	57.35	58.13	90.57	2,996.74	2,795.16	2,306.58	2,192.05	114.53	20.140		
13,500.00	10,600.00	13,670.75	10,600.00	58.45	59.22	90.57	3,096.73	2,794.40	2,306.56	2,189.83	116.73	19.760		
13,600.00	10,600.00	13,770.75	10,600.00	59.57	60.32	90.57	3,196.73	2,793.64	2,306.53	2,187.57	118.96	19.388		
13,700.00	10,600.00	13,870.75	10,600.00	60.71	61.44	90.57	3,296.73	2,792.88	2,306.50	2,185.28	121.23	19.027		
13,800.00	10,600.00	13,970.75	10,600.00	61.85	62.57	90.57	3,396.73	2,792.12	2,306.48	2,182.96	123.51	18.674		
13,900.00	10,600.00	14,070.75	10,600.00	63.01	63.71	90.57	3,496.72	2,791.36	2,306.45	2,180.62	125.83	18.330		
14,000.00	10,600.00	14,170.75	10,600.00	64.18	64.87	90.57	3,596.72	2,790.60	2,306.42	2,178.26	128.17	17.995		
14,100.00	10,600.00	14,270.75	10,600.00	65.37	66.04	90.57	3,696.72	2,789.84	2,306.40	2,175.87	130.53	17.669		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,370.75	10,600.00	66.56	67.22	90.57	3,796.71	2,789.08	2,306.37	2,173.46	132.92	17.352	
14,300.00	10,600.00	14,470.75	10,600.00	67.76	68.41	90.57	3,896.71	2,788.31	2,306.34	2,171.02	135.32	17.044	
14,400.00	10,600.00	14,570.75	10,600.00	68.98	69.61	90.57	3,996.71	2,787.55	2,306.32	2,168.57	137.74	16.743	
14,500.00	10,600.00	14,670.75	10,600.00	70.20	70.81	90.57	4,096.71	2,786.79	2,306.29	2,166.10	140.19	16.451	
14,600.00	10,600.00	14,770.75	10,600.00	71.43	72.03	90.57	4,196.70	2,786.03	2,306.26	2,163.62	142.65	16.168	
14,700.00	10,600.00	14,870.75	10,600.00	72.67	73.26	90.57	4,296.70	2,785.27	2,306.24	2,161.11	145.13	15.891	
14,800.00	10,600.00	14,970.75	10,600.00	73.92	74.50	90.57	4,396.70	2,784.51	2,306.21	2,158.59	147.62	15.623	
14,900.00	10,600.00	15,070.75	10,600.00	75.17	75.74	90.57	4,496.69	2,783.75	2,306.19	2,156.06	150.13	15.362	
15,000.00	10,600.00	15,170.75	10,600.00	76.44	76.99	90.57	4,596.69	2,782.99	2,306.16	2,153.51	152.65	15.108	
15,100.00	10,600.00	15,270.75	10,600.00	77.70	78.25	90.57	4,696.69	2,782.23	2,306.13	2,150.95	155.19	14.860	
15,200.00	10,600.00	15,370.75	10,600.00	78.98	79.51	90.57	4,796.69	2,781.47	2,306.11	2,148.37	157.74	14.620	
15,300.00	10,600.00	15,470.75	10,600.00	80.26	80.78	90.57	4,896.68	2,780.71	2,306.08	2,145.78	160.30	14.386	
15,400.00	10,600.00	15,570.75	10,600.00	81.55	82.06	90.57	4,996.68	2,779.94	2,306.05	2,143.18	162.87	14.159	
15,484.47	10,600.00	15,655.22	10,600.00	82.64	83.14	90.57	5,081.15	2,779.30	2,306.03	2,140.98	165.05	13.971 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	-72.41	462.36	-1,458.80	1,530.43					
100.00	100.00	81.80	81.80	0.52	10.06	-72.41	462.36	-1,458.80	1,530.32	1,519.74	10.58	144.705		
200.00	200.00	181.80	181.80	0.70	10.33	-72.41	462.36	-1,458.80	1,530.32	1,519.29	11.03	138.769		
300.00	300.00	281.80	281.80	0.99	10.80	-72.41	462.36	-1,458.80	1,530.32	1,518.53	11.78	129.863		
400.00	400.00	381.80	381.80	1.31	11.45	-72.41	462.36	-1,458.80	1,530.32	1,517.56	12.75	119.979		
500.00	500.00	481.80	481.80	1.65	12.24	-72.41	462.36	-1,458.80	1,530.32	1,516.43	13.89	110.169		
600.00	600.00	581.80	581.80	1.99	13.17	-72.41	462.36	-1,458.80	1,530.32	1,515.16	15.16	100.968		
700.00	700.00	681.80	681.80	2.34	14.19	-72.41	462.36	-1,458.80	1,530.32	1,513.79	16.52	92.606		
800.00	800.00	781.80	781.80	2.69	15.28	-72.41	462.36	-1,458.80	1,530.32	1,512.34	17.98	85.136		
900.00	900.00	881.80	881.80	3.04	16.45	-72.41	462.36	-1,458.80	1,530.32	1,510.83	19.49	78.519		
1,000.00	1,000.00	981.80	981.80	3.40	17.66	-72.41	462.36	-1,458.80	1,530.32	1,509.26	21.06	72.677		
1,100.00	1,100.00	1,081.80	1,081.80	3.75	18.91	-72.41	462.36	-1,458.80	1,530.32	1,507.65	22.66	67.520		
1,200.00	1,200.00	1,181.80	1,181.80	4.11	20.20	-72.41	462.36	-1,458.80	1,530.32	1,506.01	24.31	62.958		
1,300.00	1,300.00	1,281.80	1,281.80	4.46	21.51	-72.41	462.36	-1,458.80	1,530.32	1,504.34	25.98	58.910		
1,400.00	1,400.00	1,381.80	1,381.80	4.82	22.85	-72.41	462.36	-1,458.80	1,530.32	1,502.65	27.67	55.306		
1,500.00	1,500.00	1,481.80	1,481.80	5.18	24.21	-72.41	462.36	-1,458.80	1,530.32	1,500.93	29.38	52.083		
1,600.00	1,600.00	1,581.80	1,581.80	5.53	25.58	-72.41	462.36	-1,458.80	1,530.32	1,499.21	31.11	49.189		
1,700.00	1,700.00	1,681.80	1,681.80	5.89	26.96	-72.41	462.36	-1,458.80	1,530.32	1,497.46	32.85	46.581		
1,800.00	1,800.00	1,781.80	1,781.80	6.25	28.36	-72.41	462.36	-1,458.80	1,530.32	1,495.71	34.61	44.221		
1,900.00	1,900.00	1,881.80	1,881.80	6.61	29.76	-72.41	462.36	-1,458.80	1,530.32	1,493.95	36.37	42.077		
2,000.00	2,000.00	1,981.80	1,981.80	6.96	31.18	-72.41	462.36	-1,458.80	1,530.32	1,492.18	38.14	40.122 CC		
2,100.00	2,099.99	2,081.79	2,081.79	7.31	32.60	-167.90	462.36	-1,458.80	1,531.17	1,491.26	39.91	38.364 ES		
2,200.00	2,199.96	2,181.76	2,181.76	7.65	34.03	-167.91	462.36	-1,458.80	1,533.73	1,492.05	41.68	36.799		
2,300.00	2,299.86	2,281.66	2,281.66	7.99	35.46	-167.94	462.36	-1,458.80	1,538.00	1,494.54	43.45	35.395		
2,399.87	2,399.54	2,381.34	2,381.34	8.34	36.90	-167.97	462.36	-1,458.80	1,543.96	1,498.73	45.23	34.136		
2,500.00	2,499.43	2,481.23	2,481.23	8.69	38.34	-168.03	462.36	-1,458.80	1,550.79	1,503.77	47.02	32.985		
2,600.00	2,599.19	2,580.99	2,580.99	9.03	39.78	-168.08	462.36	-1,458.80	1,557.61	1,508.81	48.80	31.916		
2,700.00	2,698.94	2,680.74	2,680.74	9.39	41.23	-168.13	462.36	-1,458.80	1,564.44	1,513.84	50.60	30.919		
2,800.00	2,798.70	2,780.50	2,780.50	9.74	42.68	-168.18	462.36	-1,458.80	1,571.26	1,518.87	52.39	29.989		
2,900.00	2,898.46	2,880.26	2,880.26	10.09	44.14	-168.24	462.36	-1,458.80	1,578.09	1,523.89	54.20	29.118		
3,000.00	2,998.21	2,980.01	2,980.01	10.45	45.59	-168.29	462.36	-1,458.80	1,584.92	1,528.91	56.00	28.301		
3,100.00	3,097.97	3,079.77	3,079.77	10.80	47.05	-168.34	462.36	-1,458.80	1,591.75	1,533.94	57.81	27.534		
3,200.00	3,197.73	3,179.53	3,179.53	11.16	48.51	-168.39	462.36	-1,458.80	1,598.58	1,538.96	59.62	26.812		
3,300.00	3,297.48	3,279.28	3,279.28	11.52	49.98	-168.44	462.36	-1,458.80	1,605.41	1,543.97	61.43	26.132		
3,400.00	3,397.24	3,379.04	3,379.04	11.88	51.44	-168.49	462.36	-1,458.80	1,612.24	1,548.99	63.25	25.490		
3,500.00	3,497.00	3,478.80	3,478.80	12.24	52.91	-168.54	462.36	-1,458.80	1,619.08	1,554.01	65.07	24.882		
3,600.00	3,596.75	3,578.55	3,578.55	12.60	54.37	-168.59	462.36	-1,458.80	1,625.91	1,559.02	66.89	24.307		
3,700.00	3,696.51	3,678.31	3,678.31	12.96	55.84	-168.63	462.36	-1,458.80	1,632.75	1,564.04	68.71	23.762		
3,800.00	3,796.27	3,778.07	3,778.07	13.32	57.31	-168.68	462.36	-1,458.80	1,639.59	1,569.05	70.54	23.245		
3,900.00	3,896.02	3,877.82	3,877.82	13.68	58.79	-168.73	462.36	-1,458.80	1,646.42	1,574.06	72.36	22.753		
4,000.00	3,995.78	3,977.58	3,977.58	14.04	60.26	-168.78	462.36	-1,458.80	1,653.26	1,579.08	74.19	22.285		
4,100.00	4,095.54	4,077.34	4,077.34	14.40	61.73	-168.82	462.36	-1,458.80	1,660.11	1,584.09	76.02	21.839		
4,200.00	4,195.29	4,177.09	4,177.09	14.77	63.21	-168.87	462.36	-1,458.80	1,666.95	1,589.10	77.85	21.413		
4,300.00	4,295.05	4,276.85	4,276.85	15.13	64.68	-168.92	462.36	-1,458.80	1,673.79	1,594.11	79.68	21.007		
4,400.00	4,394.81	4,376.61	4,376.61	15.49	66.16	-168.96	462.36	-1,458.80	1,680.64	1,599.13	81.51	20.619		
4,500.00	4,494.56	4,476.36	4,476.36	15.86	67.64	-169.01	462.36	-1,458.80	1,687.48	1,604.14	83.34	20.248		
4,600.00	4,594.32	4,576.12	4,576.12	16.22	69.11	-169.05	462.36	-1,458.80	1,694.33	1,609.15	85.18	19.892		
4,700.00	4,694.08	4,675.88	4,675.88	16.59	70.59	-169.10	462.36	-1,458.80	1,701.17	1,614.16	87.01	19.551		
4,800.00	4,793.83	4,775.63	4,775.63	16.95	72.07	-169.14	462.36	-1,458.80	1,708.02	1,619.18	88.85	19.224		
4,900.00	4,893.59	4,875.39	4,875.39	17.32	73.55	-169.19	462.36	-1,458.80	1,714.87	1,624.19	90.68	18.911		
5,000.00	4,993.35	4,975.15	4,975.15	17.68	75.03	-169.23	462.36	-1,458.80	1,721.72	1,629.20	92.52	18.609		
5,100.00	5,093.10	5,074.90	5,074.90	18.05	76.51	-169.27	462.36	-1,458.80	1,728.57	1,634.22	94.36	18.319		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,174.66	5,174.66	18.42	78.00	-169.32	462.36	-1,458.80	1,735.43	1,639.23	96.20	18.040		
5,300.00	5,292.62	5,274.42	5,274.42	18.78	79.48	-169.36	462.36	-1,458.80	1,742.28	1,644.24	98.04	17.772		
5,400.00	5,392.37	5,374.17	5,374.17	19.15	80.96	-169.40	462.36	-1,458.80	1,749.14	1,649.26	99.88	17.513		
5,500.00	5,492.13	5,473.93	5,473.93	19.52	82.44	-169.44	462.36	-1,458.80	1,755.99	1,654.27	101.72	17.264		
5,600.00	5,591.89	5,573.69	5,573.69	19.88	83.93	-169.48	462.36	-1,458.80	1,762.85	1,659.29	103.56	17.023		
5,700.00	5,691.64	5,673.44	5,673.44	20.25	85.41	-169.52	462.36	-1,458.80	1,769.70	1,664.31	105.40	16.791		
5,800.00	5,791.40	5,773.20	5,773.20	20.62	86.89	-169.57	462.36	-1,458.80	1,776.56	1,669.32	107.24	16.566		
5,900.00	5,891.16	5,872.96	5,872.96	20.98	88.38	-169.61	462.36	-1,458.80	1,783.42	1,674.34	109.08	16.349		
6,000.00	5,990.91	5,972.71	5,972.71	21.35	89.86	-169.65	462.36	-1,458.80	1,790.28	1,679.36	110.93	16.139 SF		
6,100.00	6,090.67	5,487.00	5,485.89	21.72	82.64	-169.45	462.36	-1,458.80	1,890.45	1,791.39	99.06	19.084		
6,200.00	6,190.42	5,487.00	5,485.89	22.09	82.64	-169.45	462.36	-1,458.80	1,930.15	1,832.33	97.82	19.731		
6,300.00	6,290.18	5,487.00	5,485.89	22.45	82.64	-169.45	462.36	-1,458.80	1,974.13	1,877.67	96.45	20.467		
6,400.00	6,389.94	5,487.00	5,485.89	22.82	82.64	-169.45	462.36	-1,458.80	2,022.10	1,927.12	94.98	21.290		
6,500.00	6,489.69	5,487.00	5,485.89	23.19	82.64	-169.45	462.36	-1,458.80	2,073.78	1,980.35	93.43	22.196		
6,600.00	6,589.45	5,487.00	5,485.89	23.56	82.64	-169.45	462.36	-1,458.80	2,128.91	2,037.07	91.84	23.182		
6,700.00	6,689.21	5,487.00	5,485.89	23.93	82.64	-169.45	462.36	-1,458.80	2,187.22	2,097.01	90.21	24.245		
6,800.00	6,788.96	5,487.00	5,485.89	24.29	82.64	-169.45	462.36	-1,458.80	2,248.47	2,159.89	88.59	25.382		
6,900.00	6,888.72	5,487.00	5,485.89	24.66	82.64	-169.45	462.36	-1,458.80	2,312.43	2,225.46	86.97	26.589		
7,000.00	6,988.48	5,487.00	5,485.89	25.03	82.64	-169.45	462.36	-1,458.80	2,378.87	2,293.50	85.37	27.864		
7,100.00	7,088.23	5,487.00	5,485.89	25.40	82.64	-169.45	462.36	-1,458.80	2,447.59	2,363.78	83.81	29.204		
7,200.00	7,187.99	5,487.00	5,485.89	25.77	82.64	-169.45	462.36	-1,458.80	2,518.41	2,436.12	82.29	30.604		
7,300.00	7,287.75	5,487.00	5,485.89	26.14	82.64	-169.45	462.36	-1,458.80	2,591.16	2,510.34	80.82	32.062		
7,400.00	7,387.50	5,487.00	5,485.89	26.50	82.64	-169.45	462.36	-1,458.80	2,665.67	2,586.27	79.40	33.574		
7,500.00	7,487.26	5,487.00	5,485.89	26.87	82.64	-169.45	462.36	-1,458.80	2,741.80	2,663.77	78.03	35.138		
7,600.00	7,587.02	5,487.00	5,485.89	27.24	82.64	-169.45	462.36	-1,458.80	2,819.43	2,742.71	76.72	36.749		
7,700.00	7,686.77	5,487.00	5,485.89	27.61	82.64	-169.45	462.36	-1,458.80	2,898.42	2,822.95	75.47	38.405		
7,800.00	7,786.53	5,487.00	5,485.89	27.98	82.64	-169.45	462.36	-1,458.80	2,978.68	2,904.40	74.28	40.102		
7,900.00	7,886.29	5,487.00	5,485.89	28.35	82.64	-169.45	462.36	-1,458.80	3,060.10	2,986.96	73.14	41.838		
8,000.00	7,986.04	5,487.00	5,485.89	28.72	82.64	-169.45	462.36	-1,458.80	3,142.60	3,070.54	72.06	43.608		
8,100.00	8,085.80	5,487.00	5,485.89	29.09	82.64	-169.45	462.36	-1,458.80	3,226.08	3,155.04	71.04	45.411		
8,200.00	8,185.56	5,487.00	5,485.89	29.46	82.64	-169.45	462.36	-1,458.80	3,310.49	3,240.41	70.07	47.242		
8,300.00	8,285.31	5,487.00	5,485.89	29.83	82.64	-169.45	462.36	-1,458.80	3,395.73	3,326.57	69.16	49.100		
8,400.00	8,385.07	5,487.00	5,485.89	30.20	82.64	-169.45	462.36	-1,458.80	3,481.77	3,413.47	68.30	50.981		
8,500.00	8,484.83	5,487.00	5,485.89	30.56	82.64	-169.45	462.36	-1,458.80	3,568.53	3,501.05	67.48	52.882		
8,600.00	8,584.58	5,487.00	5,485.89	30.93	82.64	-169.45	462.36	-1,458.80	3,655.97	3,589.25	66.71	54.801		
8,700.00	8,684.34	5,487.00	5,485.89	31.30	82.64	-169.45	462.36	-1,458.80	3,744.03	3,678.04	65.99	56.734		
8,800.00	8,784.10	5,487.00	5,485.89	31.67	82.64	-169.45	462.36	-1,458.80	3,832.68	3,767.37	65.31	58.680		
8,900.00	8,883.85	5,487.00	5,485.89	32.04	82.64	-169.45	462.36	-1,458.80	3,921.88	3,857.20	64.68	60.636		
9,000.00	8,983.61	5,487.00	5,485.89	32.41	82.64	-169.45	462.36	-1,458.80	4,011.59	3,947.51	64.08	62.599		
9,100.00	9,083.37	5,487.00	5,485.89	32.78	82.64	-169.45	462.36	-1,458.80	4,101.77	4,038.25	63.53	64.567		
9,200.00	9,183.12	5,487.00	5,485.89	33.15	82.64	-169.45	462.36	-1,458.80	4,192.40	4,129.39	63.01	66.539		
9,300.00	9,282.88	5,487.00	5,485.89	33.52	82.64	-169.45	462.36	-1,458.80	4,283.45	4,220.92	62.52	68.510		
9,400.00	9,382.64	5,487.00	5,485.89	33.89	82.64	-169.45	462.36	-1,458.80	4,374.88	4,312.81	62.07	70.481		
9,428.07	9,410.64	5,487.00	5,485.89	33.99	82.64	-169.45	462.36	-1,458.80	4,400.62	4,338.67	61.95	71.034		
9,500.00	9,482.43	5,487.00	5,485.89	34.26	82.64	-169.89	462.36	-1,458.80	4,466.42	4,404.78	61.64	72.457		
9,600.00	9,582.36	5,487.00	5,485.89	34.62	82.64	-170.44	462.36	-1,458.80	4,557.32	4,496.12	61.21	74.460		
9,694.65	9,677.00	5,487.00	5,485.89	34.95	82.64	-75.45	462.36	-1,458.80	4,642.71	4,581.93	60.78	76.381		
9,700.00	9,682.35	5,487.00	5,485.89	34.97	82.64	-75.45	462.36	-1,458.80	4,647.52	4,586.76	60.76	76.491		
9,800.00	9,782.35	5,487.00	5,485.89	35.31	82.64	-75.45	462.36	-1,458.80	4,737.63	4,677.30	60.33	78.530		
9,900.00	9,882.35	5,487.00	5,485.89	35.65	82.64	-75.45	462.36	-1,458.80	4,828.12	4,768.19	59.93	80.562		
10,000.00	9,982.35	5,487.00	5,485.89	35.99	82.64	-75.45	462.36	-1,458.80	4,918.99	4,859.43	59.56	82.587		
10,044.69	10,027.04	5,487.00	5,485.89	36.14	82.64	-75.45	462.36	-1,458.80	4,959.71	4,900.30	59.41	83.490		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	5,487.00	5,485.89	36.16	82.64	-73.89	462.36	-1,458.80	4,964.55	4,905.16	59.39	83.597		
10,100.00	10,082.26	5,487.00	5,485.89	36.32	82.64	-63.93	462.36	-1,458.80	5,009.84	4,950.63	59.21	84.613		
10,150.00	10,131.76	5,487.00	5,485.89	36.49	82.64	-55.46	462.36	-1,458.80	5,054.39	4,995.37	59.02	85.637		
10,200.00	10,180.46	5,487.00	5,485.89	36.65	82.64	-48.51	462.36	-1,458.80	5,097.89	5,039.06	58.83	86.660		
10,250.00	10,227.98	5,487.00	5,485.89	36.81	82.64	-42.91	462.36	-1,458.80	5,140.02	5,081.40	58.63	87.675		
10,300.00	10,273.98	5,487.00	5,485.89	36.95	82.64	-38.41	462.36	-1,458.80	5,180.52	5,122.10	58.42	88.674		
10,350.00	10,318.11	5,487.00	5,485.89	37.09	82.64	-34.79	462.36	-1,458.80	5,219.11	5,160.90	58.22	89.649		
10,400.00	10,360.01	5,487.00	5,485.89	37.21	82.64	-31.86	462.36	-1,458.80	5,255.55	5,197.53	58.02	90.589		
10,450.00	10,399.38	5,487.00	5,485.89	37.32	82.64	-29.49	462.36	-1,458.80	5,289.60	5,231.78	57.82	91.486		
10,500.00	10,435.92	5,487.00	5,485.89	37.42	82.64	-27.56	462.36	-1,458.80	5,321.05	5,263.42	57.63	92.330		
10,550.00	10,469.35	5,487.00	5,485.89	37.51	82.64	-25.98	462.36	-1,458.80	5,349.71	5,292.26	57.46	93.109		
10,600.00	10,499.41	5,487.00	5,485.89	37.59	82.64	-24.70	462.36	-1,458.80	5,375.42	5,318.12	57.30	93.814		
10,650.00	10,525.87	5,487.00	5,485.89	37.66	82.64	-23.66	462.36	-1,458.80	5,398.01	5,340.85	57.16	94.433		
10,700.00	10,548.54	5,487.00	5,485.89	37.74	82.64	-22.83	462.36	-1,458.80	5,417.36	5,360.31	57.05	94.957		
10,750.00	10,567.24	5,487.00	5,485.89	37.84	82.64	-22.18	462.36	-1,458.80	5,433.35	5,376.38	56.97	95.376		
10,800.00	10,581.83	5,487.00	5,485.89	37.97	82.64	-21.70	462.36	-1,458.80	5,445.89	5,388.98	56.92	95.682		
10,850.00	10,592.19	5,487.00	5,485.89	38.11	82.64	-21.36	462.36	-1,458.80	5,454.92	5,398.02	56.90	95.868		
10,900.00	10,598.26	5,487.00	5,485.89	38.25	82.64	-21.16	462.36	-1,458.80	5,460.37	5,403.45	56.92	95.929		
10,944.69	10,600.00	5,487.00	5,485.89	38.39	82.64	-21.10	462.36	-1,458.80	5,462.20	5,405.23	56.97	95.874		
11,000.00	10,600.00	5,487.00	5,485.89	38.56	82.64	-21.10	462.36	-1,458.80	5,462.96	5,405.89	57.07	95.720		
11,100.00	10,600.00	5,487.00	5,485.89	38.91	82.64	-21.10	462.36	-1,458.80	5,465.75	5,408.42	57.33	95.336		
11,200.00	10,600.00	5,487.00	5,485.89	39.31	82.64	-21.10	462.36	-1,458.80	5,470.37	5,412.68	57.69	94.822		
11,300.00	10,600.00	5,487.00	5,485.89	39.76	82.64	-21.10	462.36	-1,458.80	5,476.81	5,418.66	58.15	94.189		
11,400.00	10,600.00	5,487.00	5,485.89	40.25	82.64	-21.10	462.36	-1,458.80	5,485.06	5,426.36	58.70	93.447		
11,500.00	10,600.00	5,487.00	5,485.89	40.79	82.64	-21.10	462.36	-1,458.80	5,495.12	5,435.79	59.34	92.611		
11,600.00	10,600.00	5,487.00	5,485.89	41.37	82.64	-21.10	462.36	-1,458.80	5,506.98	5,446.93	60.06	91.694		
11,700.00	10,600.00	5,487.00	5,485.89	41.99	82.64	-21.10	462.36	-1,458.80	5,520.63	5,459.77	60.86	90.712		
11,800.00	10,600.00	5,487.00	5,485.89	42.65	82.64	-21.10	462.36	-1,458.80	5,536.05	5,474.32	61.73	89.679		
11,900.00	10,600.00	5,487.00	5,485.89	43.35	82.64	-21.10	462.36	-1,458.80	5,553.23	5,490.56	62.67	88.609		
12,000.00	10,600.00	5,487.00	5,485.89	44.09	82.64	-21.10	462.36	-1,458.80	5,572.15	5,508.48	63.67	87.514		
12,100.00	10,600.00	5,487.00	5,485.89	44.86	82.64	-21.10	462.36	-1,458.80	5,592.79	5,528.07	64.73	86.408		
12,200.00	10,600.00	5,487.00	5,485.89	45.67	82.64	-21.10	462.36	-1,458.80	5,615.14	5,549.31	65.83	85.300		
12,300.00	10,600.00	5,487.00	5,485.89	46.50	82.64	-21.10	462.36	-1,458.80	5,639.18	5,572.20	66.97	84.200		
12,400.00	10,600.00	5,487.00	5,485.89	47.37	82.64	-21.10	462.36	-1,458.80	5,664.87	5,596.72	68.16	83.117		
12,500.00	10,600.00	5,487.00	5,485.89	48.26	82.64	-21.10	462.36	-1,458.80	5,692.21	5,622.84	69.37	82.057		
12,600.00	10,600.00	5,487.00	5,485.89	49.18	82.64	-21.10	462.36	-1,458.80	5,721.17	5,650.56	70.61	81.027		
12,700.00	10,600.00	5,487.00	5,485.89	50.13	82.64	-21.10	462.36	-1,458.80	5,751.72	5,679.85	71.87	80.030		
12,800.00	10,600.00	5,487.00	5,485.89	51.10	82.64	-21.10	462.36	-1,458.80	5,783.84	5,710.69	73.15	79.070		
12,900.00	10,600.00	5,487.00	5,485.89	52.09	82.64	-21.10	462.36	-1,458.80	5,817.50	5,743.06	74.44	78.151		
13,000.00	10,600.00	5,487.00	5,485.89	53.10	82.64	-21.10	462.36	-1,458.80	5,852.67	5,776.93	75.74	77.274		
13,100.00	10,600.00	5,487.00	5,485.89	54.14	82.64	-21.10	462.36	-1,458.80	5,889.33	5,812.29	77.04	76.441		
13,200.00	10,600.00	5,487.00	5,485.89	55.19	82.64	-21.10	462.36	-1,458.80	5,927.46	5,849.11	78.35	75.653		
13,300.00	10,600.00	5,487.00	5,485.89	56.26	82.64	-21.10	462.36	-1,458.80	5,967.01	5,887.35	79.66	74.909		
13,400.00	10,600.00	5,487.00	5,485.89	57.35	82.64	-21.10	462.36	-1,458.80	6,007.97	5,927.01	80.96	74.211		
13,500.00	10,600.00	5,487.00	5,485.89	58.45	82.64	-21.10	462.36	-1,458.80	6,050.31	5,968.05	82.25	73.556		
13,600.00	10,600.00	5,487.00	5,485.89	59.57	82.64	-21.10	462.36	-1,458.80	6,093.99	6,010.45	83.54	72.946		
13,700.00	10,600.00	5,487.00	5,485.89	60.71	82.64	-21.10	462.36	-1,458.80	6,138.99	6,054.17	84.82	72.379		
13,800.00	10,600.00	5,487.00	5,485.89	61.85	82.64	-21.10	462.36	-1,458.80	6,185.28	6,099.20	86.08	71.854		
13,900.00	10,600.00	5,487.00	5,485.89	63.01	82.64	-21.10	462.36	-1,458.80	6,232.83	6,145.50	87.33	71.369		
14,000.00	10,600.00	5,487.00	5,485.89	64.18	82.64	-21.10	462.36	-1,458.80	6,281.61	6,193.05	88.57	70.925		
14,100.00	10,600.00	5,487.00	5,485.89	65.37	82.64	-21.10	462.36	-1,458.80	6,331.60	6,241.81	89.79	70.519		
14,200.00	10,600.00	5,487.00	5,485.89	66.56	82.64	-21.10	462.36	-1,458.80	6,382.76	6,291.77	90.99	70.150		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
14,300.00	10,600.00	5,487.00	5,485.89	67.76	82.64	-21.10	462.36	-1,458.80	6,435.07	6,342.90	92.17	69.818		
14,400.00	10,600.00	5,487.00	5,485.89	68.98	82.64	-21.10	462.36	-1,458.80	6,488.50	6,395.17	93.33	69.520		
14,500.00	10,600.00	5,487.00	5,485.89	70.20	82.64	-21.10	462.36	-1,458.80	6,543.02	6,448.54	94.48	69.255		
14,600.00	10,600.00	5,487.00	5,485.89	71.43	82.64	-21.10	462.36	-1,458.80	6,598.61	6,503.01	95.60	69.022		
14,700.00	10,600.00	5,487.00	5,485.89	72.67	82.64	-21.10	462.36	-1,458.80	6,655.23	6,558.53	96.70	68.820		
14,800.00	10,600.00	5,487.00	5,485.89	73.92	82.64	-21.10	462.36	-1,458.80	6,712.87	6,615.08	97.79	68.647		
14,900.00	10,600.00	5,487.00	5,485.89	75.17	82.64	-21.10	462.36	-1,458.80	6,771.49	6,672.64	98.85	68.503		
15,000.00	10,600.00	5,487.00	5,485.89	76.44	82.64	-21.10	462.36	-1,458.80	6,831.07	6,731.18	99.89	68.386		
15,100.00	10,600.00	5,487.00	5,485.89	77.70	82.64	-21.10	462.36	-1,458.80	6,891.59	6,790.68	100.91	68.295		
15,200.00	10,600.00	5,487.00	5,485.89	78.98	82.64	-21.10	462.36	-1,458.80	6,953.02	6,851.12	101.91	68.229		
15,300.00	10,600.00	5,487.00	5,485.89	80.26	82.64	-21.10	462.36	-1,458.80	7,015.34	6,912.46	102.88	68.186		
15,400.00	10,600.00	5,487.00	5,485.89	81.55	82.64	-21.10	462.36	-1,458.80	7,078.53	6,974.69	103.84	68.167		
15,484.47	10,600.00	5,487.00	5,485.89	82.64	82.64	-21.10	462.36	-1,458.80	7,132.55	7,027.92	104.63	68.168		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	38.44	3,124.12	2,479.28	3,988.51					
100.00	100.00	65.00	65.00	0.52	0.96	38.44	3,124.12	2,479.28	3,988.35	3,986.87	1.48	2,692.521		
200.00	200.00	165.00	165.00	0.70	2.37	38.44	3,124.12	2,479.28	3,988.35	3,985.28	3.08	1,296.403		
300.00	300.00	265.00	265.00	0.99	3.85	38.44	3,124.12	2,479.28	3,988.35	3,983.52	4.84	824.284		
400.00	400.00	365.00	365.00	1.31	5.34	38.44	3,124.12	2,479.28	3,988.35	3,981.71	6.65	599.870		
500.00	500.00	465.00	465.00	1.65	6.83	38.44	3,124.12	2,479.28	3,988.35	3,979.88	8.48	470.433		
600.00	600.00	565.00	565.00	1.99	8.33	38.44	3,124.12	2,479.28	3,988.35	3,978.04	10.32	386.589		
700.00	700.00	665.00	665.00	2.34	9.82	38.44	3,124.12	2,479.28	3,988.35	3,976.19	12.16	327.971		
800.00	800.00	765.00	765.00	2.69	11.32	38.44	3,124.12	2,479.28	3,988.35	3,974.35	14.01	284.724		
900.00	900.00	865.00	865.00	3.04	12.81	38.44	3,124.12	2,479.28	3,988.35	3,972.50	15.86	251.520		
1,000.00	1,000.00	965.00	965.00	3.40	14.31	38.44	3,124.12	2,479.28	3,988.35	3,970.65	17.71	225.234		
1,100.00	1,100.00	1,065.00	1,065.00	3.75	15.81	38.44	3,124.12	2,479.28	3,988.35	3,968.79	19.56	203.912		
1,200.00	1,200.00	1,165.00	1,165.00	4.11	17.30	38.44	3,124.12	2,479.28	3,988.35	3,966.94	21.41	186.271		
1,300.00	1,300.00	1,265.00	1,265.00	4.46	18.80	38.44	3,124.12	2,479.28	3,988.35	3,965.09	23.26	171.435		
1,400.00	1,400.00	1,365.00	1,365.00	4.82	20.30	38.44	3,124.12	2,479.28	3,988.35	3,963.24	25.12	158.785		
1,500.00	1,500.00	1,465.00	1,465.00	5.18	21.79	38.44	3,124.12	2,479.28	3,988.35	3,961.38	26.97	147.872		
1,600.00	1,600.00	1,565.00	1,565.00	5.53	23.29	38.44	3,124.12	2,479.28	3,988.35	3,959.53	28.83	138.361		
1,700.00	1,700.00	1,665.00	1,665.00	5.89	24.79	38.44	3,124.12	2,479.28	3,988.35	3,957.67	30.68	129.999		
1,800.00	1,800.00	1,765.00	1,765.00	6.25	26.29	38.44	3,124.12	2,479.28	3,988.35	3,955.82	32.53	122.589		
1,900.00	1,900.00	1,865.00	1,865.00	6.61	27.78	38.44	3,124.12	2,479.28	3,988.35	3,953.96	34.39	115.977		
2,000.00	2,000.00	1,965.00	1,965.00	6.96	29.28	38.44	3,124.12	2,479.28	3,988.35	3,952.11	36.24	110.042		
2,100.00	2,099.99	2,064.99	2,064.99	7.31	30.78	-57.06	3,124.12	2,479.28	3,987.88	3,949.79	38.09	104.699		
2,200.00	2,199.96	2,164.96	2,164.96	7.65	32.27	-57.10	3,124.12	2,479.28	3,986.46	3,946.53	39.93	99.847		
2,300.00	2,299.86	2,264.86	2,264.86	7.99	33.77	-57.17	3,124.12	2,479.28	3,984.09	3,942.32	41.76	95.397		
2,399.87	2,399.54	2,364.54	2,364.54	8.34	35.26	-57.27	3,124.12	2,479.28	3,980.78	3,937.18	43.60	91.303		
2,500.00	2,499.43	2,464.43	2,464.43	8.69	36.76	-57.36	3,124.12	2,479.28	3,977.01	3,931.56	45.44	87.518		
2,600.00	2,599.19	2,564.19	2,564.19	9.03	38.25	-57.44	3,124.12	2,479.28	3,973.24	3,925.96	47.28	84.030		
2,700.00	2,698.94	2,663.94	2,663.94	9.39	39.75	-57.53	3,124.12	2,479.28	3,969.49	3,920.36	49.13	80.800		
2,800.00	2,798.70	2,763.70	2,763.70	9.74	41.24	-57.61	3,124.12	2,479.28	3,965.74	3,914.77	50.97	77.803		
2,900.00	2,898.46	2,863.46	2,863.46	10.09	42.73	-57.70	3,124.12	2,479.28	3,962.00	3,909.19	52.82	75.012		
3,000.00	2,998.21	2,963.21	2,963.21	10.45	44.23	-57.78	3,124.12	2,479.28	3,958.28	3,903.61	54.67	72.409		
3,100.00	3,097.97	3,062.97	3,062.97	10.80	45.72	-57.87	3,124.12	2,479.28	3,954.56	3,898.04	56.51	69.975		
3,200.00	3,197.73	3,162.73	3,162.73	11.16	47.22	-57.95	3,124.12	2,479.28	3,950.85	3,892.48	58.36	67.694		
3,300.00	3,297.48	3,262.48	3,262.48	11.52	48.71	-58.04	3,124.12	2,479.28	3,947.14	3,886.93	60.21	65.553		
3,400.00	3,397.24	3,362.24	3,362.24	11.88	50.20	-58.13	3,124.12	2,479.28	3,943.45	3,881.39	62.06	63.538		
3,500.00	3,497.00	3,462.00	3,462.00	12.24	51.70	-58.21	3,124.12	2,479.28	3,939.77	3,875.85	63.92	61.640		
3,600.00	3,596.75	3,561.75	3,561.75	12.60	53.19	-58.30	3,124.12	2,479.28	3,936.09	3,870.32	65.77	59.848		
3,700.00	3,696.51	3,661.51	3,661.51	12.96	54.68	-58.38	3,124.12	2,479.28	3,932.42	3,864.80	67.62	58.153		
3,800.00	3,796.27	3,761.27	3,761.27	13.32	56.18	-58.47	3,124.12	2,479.28	3,928.77	3,859.29	69.48	56.549		
3,900.00	3,896.02	3,861.02	3,861.02	13.68	57.67	-58.56	3,124.12	2,479.28	3,925.12	3,853.79	71.33	55.028		
4,000.00	3,995.78	3,960.78	3,960.78	14.04	59.17	-58.64	3,124.12	2,479.28	3,921.48	3,848.29	73.18	53.584		
4,100.00	4,095.54	4,060.54	4,060.54	14.40	60.66	-58.73	3,124.12	2,479.28	3,917.85	3,842.81	75.04	52.211		
4,200.00	4,195.29	4,160.29	4,160.29	14.77	62.15	-58.82	3,124.12	2,479.28	3,914.23	3,837.33	76.89	50.904		
4,300.00	4,295.05	4,260.05	4,260.05	15.13	63.65	-58.90	3,124.12	2,479.28	3,910.61	3,831.86	78.75	49.658		
4,400.00	4,394.81	4,359.81	4,359.81	15.49	65.14	-58.99	3,124.12	2,479.28	3,907.01	3,826.40	80.61	48.470		
4,500.00	4,494.56	4,459.56	4,459.56	15.86	66.64	-59.08	3,124.12	2,479.28	3,903.42	3,820.95	82.46	47.335		
4,600.00	4,594.32	4,559.32	4,559.32	16.22	68.13	-59.17	3,124.12	2,479.28	3,899.83	3,815.51	84.32	46.250		
4,700.00	4,694.08	4,659.08	4,659.08	16.59	69.62	-59.26	3,124.12	2,479.28	3,896.25	3,810.08	86.18	45.212		
4,800.00	4,793.83	4,758.83	4,758.83	16.95	71.12	-59.34	3,124.12	2,479.28	3,892.69	3,804.65	88.04	44.217		
4,900.00	4,893.59	4,858.59	4,858.59	17.32	72.61	-59.43	3,124.12	2,479.28	3,889.13	3,799.24	89.89	43.264		
5,000.00	4,993.35	4,958.35	4,958.35	17.68	74.10	-59.52	3,124.12	2,479.28	3,885.58	3,793.83	91.75	42.349		
5,100.00	5,093.10	5,058.10	5,058.10	18.05	75.60	-59.61	3,124.12	2,479.28	3,882.04	3,788.43	93.61	41.470		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,157.86	5,157.86	18.42	77.09	-59.70	3,124.12	2,479.28	3,878.51	3,783.05	95.47	40.626		
5,300.00	5,292.62	5,257.62	5,257.62	18.78	78.59	-59.79	3,124.12	2,479.28	3,874.99	3,777.67	97.33	39.814		
5,400.00	5,392.37	5,357.37	5,357.37	19.15	80.08	-59.88	3,124.12	2,479.28	3,871.48	3,772.30	99.19	39.032		
5,500.00	5,492.13	5,457.13	5,457.13	19.52	81.57	-59.96	3,124.12	2,479.28	3,867.98	3,766.94	101.05	38.279		
5,600.00	5,591.89	5,556.89	5,556.89	19.88	83.07	-60.05	3,124.12	2,479.28	3,864.49	3,761.58	102.91	37.554		
5,700.00	5,691.64	5,656.64	5,656.64	20.25	84.56	-60.14	3,124.12	2,479.28	3,861.01	3,756.24	104.77	36.854		
5,800.00	5,791.40	5,756.40	5,756.40	20.62	86.06	-60.23	3,124.12	2,479.28	3,857.53	3,750.91	106.62	36.179		
5,900.00	5,891.16	5,856.16	5,856.16	20.98	87.55	-60.32	3,124.12	2,479.28	3,854.07	3,745.59	108.48	35.526		
6,000.00	5,990.91	5,955.91	5,955.91	21.35	89.04	-60.41	3,124.12	2,479.28	3,850.62	3,740.27	110.34	34.896		
6,100.00	6,090.67	6,055.67	6,055.67	21.72	90.54	-60.50	3,124.12	2,479.28	3,847.17	3,734.97	112.21	34.287		
6,200.00	6,190.42	6,155.42	6,155.42	22.09	92.03	-60.59	3,124.12	2,479.28	3,843.74	3,729.67	114.07	33.698		
6,300.00	6,290.18	6,255.18	6,255.18	22.45	93.52	-60.68	3,124.12	2,479.28	3,840.31	3,724.38	115.93	33.127		
6,400.00	6,389.94	6,354.94	6,354.94	22.82	95.02	-60.77	3,124.12	2,479.28	3,836.89	3,719.11	117.79	32.575		
6,500.00	6,489.69	6,454.69	6,454.69	23.19	96.51	-60.86	3,124.12	2,479.28	3,833.49	3,713.84	119.65	32.040		
6,600.00	6,589.45	6,554.45	6,554.45	23.56	98.01	-60.96	3,124.12	2,479.28	3,830.09	3,708.58	121.51	31.521		
6,700.00	6,689.21	6,654.21	6,654.21	23.93	99.50	-61.05	3,124.12	2,479.28	3,826.70	3,703.34	123.37	31.018		
6,800.00	6,788.96	6,753.96	6,753.96	24.29	100.99	-61.14	3,124.12	2,479.28	3,823.33	3,698.10	125.23	30.530		
6,900.00	6,888.72	6,853.72	6,853.72	24.66	102.49	-61.23	3,124.12	2,479.28	3,819.96	3,692.87	127.09	30.057		
7,000.00	6,988.48	6,953.48	6,953.48	25.03	103.98	-61.32	3,124.12	2,479.28	3,816.60	3,687.65	128.95	29.597		
7,100.00	7,088.23	7,053.23	7,053.23	25.40	105.48	-61.41	3,124.12	2,479.28	3,813.25	3,682.44	130.81	29.150		
7,200.00	7,187.99	7,152.99	7,152.99	25.77	106.97	-61.50	3,124.12	2,479.28	3,809.92	3,677.24	132.68	28.716		
7,300.00	7,287.75	7,252.75	7,252.75	26.14	108.46	-61.60	3,124.12	2,479.28	3,806.59	3,672.05	134.54	28.294		
7,400.00	7,387.50	7,352.50	7,352.50	26.50	109.96	-61.69	3,124.12	2,479.28	3,803.27	3,666.87	136.40	27.883		
7,500.00	7,487.26	7,452.26	7,452.26	26.87	111.45	-61.78	3,124.12	2,479.28	3,799.96	3,661.70	138.26	27.484		
7,600.00	7,587.02	7,552.02	7,552.02	27.24	112.94	-61.87	3,124.12	2,479.28	3,796.66	3,656.54	140.12	27.095		
7,700.00	7,686.77	7,651.77	7,651.77	27.61	114.44	-61.97	3,124.12	2,479.28	3,793.37	3,651.39	141.98	26.717		
7,800.00	7,786.53	7,751.53	7,751.53	27.98	115.93	-62.06	3,124.12	2,479.28	3,790.10	3,646.25	143.85	26.348		
7,900.00	7,886.29	7,851.29	7,851.29	28.35	117.43	-62.15	3,124.12	2,479.28	3,786.83	3,641.12	145.71	25.989		
8,000.00	7,986.04	7,951.04	7,951.04	28.72	118.92	-62.25	3,124.12	2,479.28	3,783.57	3,636.00	147.57	25.639		
8,100.00	8,085.80	8,050.80	8,050.80	29.09	120.41	-62.34	3,124.12	2,479.28	3,780.32	3,630.89	149.43	25.298		
8,200.00	8,185.56	8,150.56	8,150.56	29.46	121.91	-62.43	3,124.12	2,479.28	3,777.08	3,625.79	151.30	24.965		
8,300.00	8,285.31	8,250.31	8,250.31	29.83	123.40	-62.53	3,124.12	2,479.28	3,773.85	3,620.70	153.16	24.640		
8,400.00	8,385.07	8,350.07	8,350.07	30.20	124.90	-62.62	3,124.12	2,479.28	3,770.64	3,615.62	155.02	24.323		
8,500.00	8,484.83	8,449.83	8,449.83	30.56	126.39	-62.71	3,124.12	2,479.28	3,767.43	3,610.54	156.88	24.014		
8,600.00	8,584.58	8,549.58	8,549.58	30.93	127.88	-62.81	3,124.12	2,479.28	3,764.23	3,605.48	158.75	23.712		
8,700.00	8,684.34	8,649.34	8,649.34	31.30	129.38	-62.90	3,124.12	2,479.28	3,761.04	3,600.43	160.61	23.418		
8,800.00	8,784.10	8,749.10	8,749.10	31.67	130.87	-63.00	3,124.12	2,479.28	3,757.86	3,595.39	162.47	23.129		
8,900.00	8,883.85	8,848.85	8,848.85	32.04	132.36	-63.09	3,124.12	2,479.28	3,754.70	3,590.36	164.33	22.848		
9,000.00	8,983.61	8,948.61	8,948.61	32.41	133.86	-63.19	3,124.12	2,479.28	3,751.54	3,585.34	166.20	22.573		
9,100.00	9,083.37	9,048.37	9,048.37	32.78	135.35	-63.28	3,124.12	2,479.28	3,748.39	3,580.34	168.06	22.304		
9,200.00	9,183.12	9,148.12	9,148.12	33.15	136.85	-63.38	3,124.12	2,479.28	3,745.26	3,575.34	169.92	22.041		
9,300.00	9,282.88	9,247.88	9,247.88	33.52	138.34	-63.47	3,124.12	2,479.28	3,742.13	3,570.35	171.79	21.784		
9,400.00	9,382.64	9,347.64	9,347.64	33.89	139.83	-63.57	3,124.12	2,479.28	3,739.02	3,565.37	173.65	21.532		
9,428.07	9,410.64	9,375.64	9,375.64	33.99	140.25	-63.59	3,124.12	2,479.28	3,738.14	3,563.97	174.17	21.462		
9,500.00	9,482.43	9,447.43	9,447.43	34.26	141.33	-63.63	3,124.12	2,479.28	3,736.21	3,560.70	175.51	21.288		
9,600.00	9,582.36	9,547.36	9,547.36	34.62	142.82	-63.66	3,124.12	2,479.28	3,734.53	3,554.61	176.85	21.128		
9,694.65	9,677.00	9,642.00	9,642.00	34.95	144.31	-63.69	3,124.12	2,479.28	3,733.01	3,548.54	178.19	20.977		
9,700.00	9,682.35	9,647.35	9,647.35	34.97	144.33	-63.69	3,124.12	2,479.28	3,733.01	3,548.54	178.19	20.977		
9,800.00	9,782.35	9,747.35	9,747.35	35.31	145.82	-63.72	3,124.12	2,479.28	3,731.49	3,547.02	179.53	20.826		
9,900.00	9,882.35	9,847.35	9,847.35	35.65	147.31	-63.75	3,124.12	2,479.28	3,730.01	3,545.54	180.87	20.675		
10,000.00	9,982.35	9,947.35	9,947.35	35.99	148.80	-63.78	3,124.12	2,479.28	3,728.54	3,544.06	182.21	20.524		
10,044.69	10,027.04	10,002.04	10,002.04	36.14	149.81	-63.81	3,124.12	2,479.28	3,727.06	3,542.58	183.55	20.373		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	10,000.62	9,997.35	36.16	149.63	32.23	3,124.12	2,479.28	3,733.99	3,548.28	185.71	20.107		
10,100.00	10,082.26	10,049.29	10,047.26	36.32	151.33	32.37	3,124.12	2,479.28	3,731.75	3,544.18	187.58	19.894		
10,150.00	10,131.76	10,098.79	10,096.76	36.49	153.06	32.75	3,124.12	2,479.28	3,725.85	3,536.37	189.48	19.664		
10,200.00	10,180.46	10,147.48	10,145.46	36.65	154.77	33.38	3,124.12	2,479.28	3,716.33	3,524.99	191.34	19.423		
10,250.00	10,227.98	10,195.01	10,192.98	36.81	156.43	34.26	3,124.12	2,479.28	3,703.28	3,510.12	193.15	19.173		
10,300.00	10,273.98	10,241.01	10,238.98	36.95	158.04	35.43	3,124.12	2,479.28	3,686.80	3,491.90	194.91	18.916		
10,350.00	10,318.11	10,285.13	10,283.11	37.09	159.59	36.90	3,124.12	2,479.28	3,667.06	3,470.48	196.58	18.654		
10,400.00	10,360.01	10,327.04	10,325.01	37.21	161.05	38.72	3,124.12	2,479.28	3,644.21	3,446.04	198.17	18.390		
10,450.00	10,399.38	10,366.41	10,364.38	37.32	162.43	40.94	3,124.12	2,479.28	3,618.46	3,418.81	199.65	18.124		
10,500.00	10,435.92	10,402.95	10,400.92	37.42	163.71	43.58	3,124.12	2,479.28	3,590.03	3,389.01	201.03	17.859		
10,550.00	10,469.35	10,436.37	10,434.35	37.51	164.88	46.72	3,124.12	2,479.28	3,559.17	3,356.89	202.28	17.595		
10,600.00	10,499.41	10,466.43	10,464.41	37.59	165.93	50.41	3,124.12	2,479.28	3,526.14	3,322.74	203.40	17.336		
10,650.00	10,525.87	10,492.90	10,490.87	37.66	166.86	54.69	3,124.12	2,479.28	3,491.23	3,286.85	204.38	17.082		
10,700.00	10,548.54	10,515.57	10,513.54	37.74	167.65	59.58	3,124.12	2,479.28	3,454.74	3,249.51	205.23	16.834		
10,750.00	10,567.24	10,534.27	10,532.24	37.84	168.31	65.08	3,124.12	2,479.28	3,416.96	3,211.05	205.92	16.594		
10,800.00	10,581.83	10,548.85	10,546.83	37.97	168.82	71.10	3,124.12	2,479.28	3,378.23	3,171.77	206.46	16.363		
10,850.00	10,592.19	10,559.22	10,557.19	38.11	169.18	77.52	3,124.12	2,479.28	3,338.86	3,132.01	206.84	16.142		
10,900.00	10,598.26	10,565.29	10,563.26	38.25	169.39	84.12	3,124.12	2,479.28	3,299.17	3,092.09	207.07	15.932		
10,944.69	10,600.00	10,567.03	10,565.00	38.39	169.45	90.00	3,124.12	2,479.28	3,263.68	3,056.54	207.15	15.755		
11,000.00	10,600.00	10,567.03	10,565.00	38.56	169.45	90.00	3,124.12	2,479.28	3,220.04	3,012.87	207.17	15.543		
11,100.00	10,600.00	10,567.03	10,565.00	38.91	169.45	90.00	3,124.12	2,479.28	3,142.07	2,934.84	207.23	15.162		
11,200.00	10,600.00	10,567.03	10,565.00	39.31	169.45	90.00	3,124.12	2,479.28	3,065.38	2,858.05	207.33	14.785		
11,300.00	10,600.00	10,567.03	10,565.00	39.76	169.45	90.00	3,124.12	2,479.28	2,990.07	2,782.59	207.47	14.412		
11,400.00	10,600.00	10,567.03	10,565.00	40.25	169.45	90.00	3,124.12	2,479.28	2,916.24	2,708.57	207.66	14.043		
11,500.00	10,600.00	10,567.03	10,565.00	40.79	169.45	90.00	3,124.12	2,479.28	2,844.01	2,636.10	207.90	13.679		
11,600.00	10,600.00	10,567.03	10,565.00	41.37	169.45	90.00	3,124.12	2,479.28	2,773.50	2,565.29	208.21	13.321		
11,700.00	10,600.00	10,567.03	10,565.00	41.99	169.45	90.00	3,124.12	2,479.28	2,704.85	2,496.28	208.57	12.968		
11,800.00	10,600.00	10,567.03	10,565.00	42.65	169.45	90.00	3,124.12	2,479.28	2,638.21	2,429.21	209.01	12.622		
11,900.00	10,600.00	10,567.03	10,565.00	43.35	169.45	90.00	3,124.12	2,479.28	2,573.74	2,364.21	209.52	12.284		
12,000.00	10,600.00	10,567.03	10,565.00	44.09	169.45	90.00	3,124.12	2,479.28	2,511.58	2,301.46	210.12	11.953		
12,100.00	10,600.00	10,567.03	10,565.00	44.86	169.45	90.00	3,124.12	2,479.28	2,451.94	2,241.14	210.80	11.632		
12,200.00	10,600.00	10,567.03	10,565.00	45.67	169.45	90.00	3,124.12	2,479.28	2,394.98	2,183.41	211.57	11.320		
12,300.00	10,600.00	10,567.03	10,565.00	46.50	169.45	90.00	3,124.12	2,479.28	2,340.91	2,128.48	212.43	11.020		
12,400.00	10,600.00	10,567.03	10,565.00	47.37	169.45	90.00	3,124.12	2,479.28	2,289.93	2,076.55	213.38	10.732		
12,500.00	10,600.00	10,567.03	10,565.00	48.26	169.45	90.00	3,124.12	2,479.28	2,242.26	2,027.84	214.42	10.457		
12,600.00	10,600.00	10,567.03	10,565.00	49.18	169.45	90.00	3,124.12	2,479.28	2,198.11	1,982.56	215.55	10.198		
12,700.00	10,600.00	10,567.03	10,565.00	50.13	169.45	90.00	3,124.12	2,479.28	2,157.69	1,940.93	216.75	9.955		
12,800.00	10,600.00	10,567.03	10,565.00	51.10	169.45	90.00	3,124.12	2,479.28	2,121.21	1,903.19	218.02	9.729		
12,900.00	10,600.00	10,567.03	10,565.00	52.09	169.45	90.00	3,124.12	2,479.28	2,088.90	1,869.54	219.36	9.523		
13,000.00	10,600.00	10,567.03	10,565.00	53.10	169.45	90.00	3,124.12	2,479.28	2,060.93	1,840.20	220.73	9.337		
13,100.00	10,600.00	10,567.03	10,565.00	54.14	169.45	90.00	3,124.12	2,479.28	2,037.49	1,815.35	222.14	9.172		
13,200.00	10,600.00	10,567.03	10,565.00	55.19	169.45	90.00	3,124.12	2,479.28	2,018.74	1,795.19	223.55	9.030		
13,300.00	10,600.00	10,567.03	10,565.00	56.26	169.45	90.00	3,124.12	2,479.28	2,004.80	1,779.85	224.96	8.912		
13,400.00	10,600.00	10,567.03	10,565.00	57.35	169.45	90.00	3,124.12	2,479.28	1,995.79	1,769.45	226.34	8.818		
13,500.00	10,600.00	10,567.03	10,565.00	58.45	169.45	90.00	3,124.12	2,479.28	1,991.76	1,764.09	227.67	8.748		
13,530.32	10,600.00	10,567.03	10,565.00	58.79	169.45	90.00	3,124.12	2,479.28	1,991.53	1,763.46	228.07	8.732 CC, ES		
13,600.00	10,600.00	10,567.03	10,565.00	59.57	169.45	90.00	3,124.12	2,479.28	1,992.75	1,763.80	228.95	8.704		
13,700.00	10,600.00	10,567.03	10,565.00	60.71	169.45	90.00	3,124.12	2,479.28	1,998.74	1,768.59	230.15	8.684 SF		
13,800.00	10,600.00	10,567.03	10,565.00	61.85	169.45	90.00	3,124.12	2,479.28	2,009.71	1,778.44	231.27	8.690		
13,900.00	10,600.00	10,567.03	10,565.00	63.01	169.45	90.00	3,124.12	2,479.28	2,025.55	1,793.26	232.29	8.720		
14,000.00	10,600.00	10,567.03	10,565.00	64.18	169.45	90.00	3,124.12	2,479.28	2,046.16	1,812.96	233.21	8.774		
14,100.00	10,600.00	10,567.03	10,565.00	65.37	169.45	90.00	3,124.12	2,479.28	2,071.41	1,837.38	234.02	8.851		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	10,567.03	10,565.00	66.56	169.45	90.00	3,124.12	2,479.28	2,101.11	1,866.38	234.73	8.951	
14,300.00	10,600.00	10,567.03	10,565.00	67.76	169.45	90.00	3,124.12	2,479.28	2,135.09	1,899.75	235.34	9.072	
14,400.00	10,600.00	10,567.03	10,565.00	68.98	169.45	90.00	3,124.12	2,479.28	2,173.14	1,937.29	235.85	9.214	
14,500.00	10,600.00	10,567.03	10,565.00	70.20	169.45	90.00	3,124.12	2,479.28	2,215.06	1,978.79	236.27	9.375	
14,600.00	10,600.00	10,567.03	10,565.00	71.43	169.45	90.00	3,124.12	2,479.28	2,260.62	2,024.02	236.60	9.555	
14,700.00	10,600.00	10,567.03	10,565.00	72.67	169.45	90.00	3,124.12	2,479.28	2,309.62	2,072.77	236.85	9.751	
14,800.00	10,600.00	10,567.03	10,565.00	73.92	169.45	90.00	3,124.12	2,479.28	2,361.84	2,124.81	237.03	9.964	
14,900.00	10,600.00	10,567.03	10,565.00	75.17	169.45	90.00	3,124.12	2,479.28	2,417.07	2,179.92	237.15	10.192	
15,000.00	10,600.00	10,567.03	10,565.00	76.44	169.45	90.00	3,124.12	2,479.28	2,475.11	2,237.89	237.22	10.434	
15,100.00	10,600.00	10,567.03	10,565.00	77.70	169.45	90.00	3,124.12	2,479.28	2,535.76	2,298.53	237.23	10.689	
15,200.00	10,600.00	10,567.03	10,565.00	78.98	169.45	90.00	3,124.12	2,479.28	2,598.85	2,361.65	237.20	10.956	
15,300.00	10,600.00	10,567.03	10,565.00	80.26	169.45	90.00	3,124.12	2,479.28	2,664.20	2,427.06	237.14	11.235	
15,400.00	10,600.00	10,567.03	10,565.00	81.55	169.45	90.00	3,124.12	2,479.28	2,731.65	2,494.60	237.05	11.523	
15,484.47	10,600.00	10,567.03	10,565.00	82.64	169.45	90.00	3,124.12	2,479.28	2,790.14	2,553.19	236.96	11.775	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 @ 3689.00ft

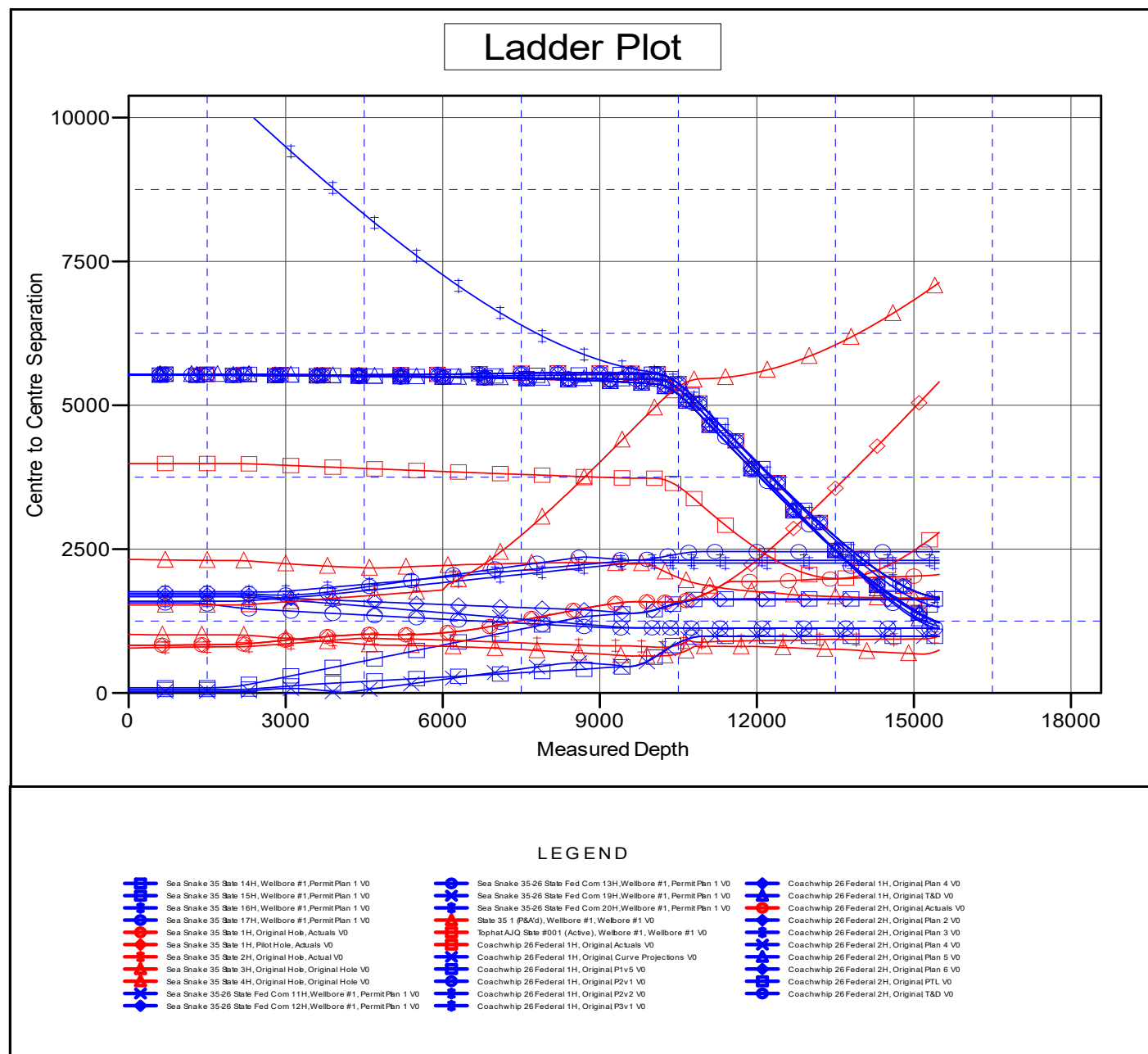
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 18H

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 @ 3689.00ft

Offset Depths are relative to Offset Datum

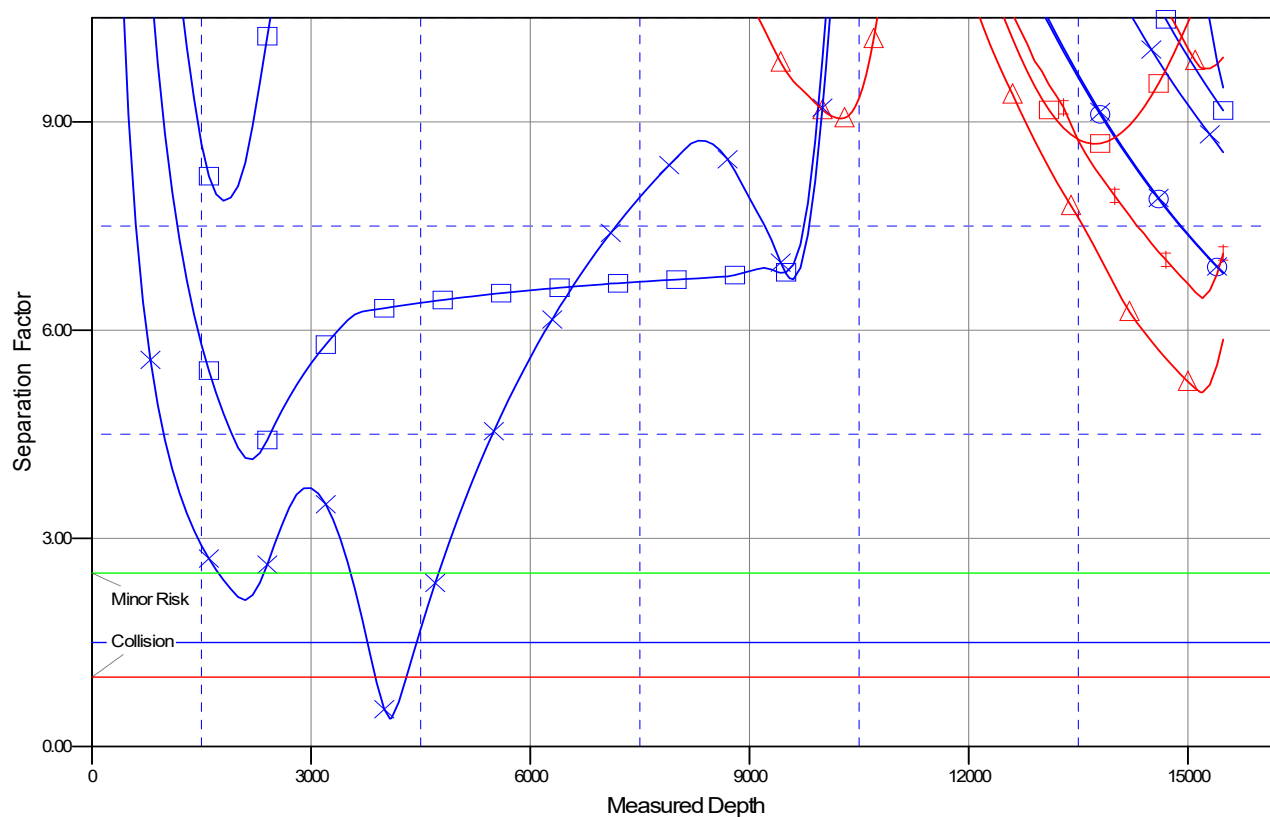
Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 18H

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 35-26 State Fed Com 13H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original Plan 4 V0
Sea Snake 35 State 15H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 19H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original T&D V0
Sea Snake 35 State 16H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 20H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 2H, Original Actuals V0
Sea Snake 35 State 17H, Wellbore #1, Permit Plan 1 V0	State 35 1 (P&A), Wellbore #1, Wellbore #1 V0	Coachwhip 26 Federal 2H, Original Plan 2 V0
Sea Snake 35 State 1H, Original Hob, Actuals V0	Tophat AJO State #001 (Active), Wellbore #1, Wellbore #1 V0	Coachwhip 26 Federal 2H, Original Plan 3 V0
Sea Snake 35 State 1H, Plot Hole, Actuals V0	Coachwhip 26 Federal 1H, Original Actuals V0	Coachwhip 26 Federal 2H, Original Plan 4 V0
Sea Snake 35 State 2H, Original Hob, Actual V0	Coachwhip 26 Federal 1H, Original Curve Projections V0	Coachwhip 26 Federal 2H, Original Plan 5 V0
Sea Snake 35 State 3H, Original Hob, Original Hole V0	Coachwhip 26 Federal 1H, Original P1v5 V0	Coachwhip 26 Federal 2H, Original Plan 6 V0
Sea Snake 35 State 4H, Original Hob, Original Hole V0	Coachwhip 26 Federal 1H, Original P2v1 V0	Coachwhip 26 Federal 2H, Original PTL V0
Sea Snake 35-26 State Fed Com 11H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original P2v2 V0	Coachwhip 26 Federal 2H, Original T&D V0
Sea Snake 35-26 State Fed Com 12H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original P3v1 V0	

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

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 35-23S-33E

Sea Snake 35 State 18H

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	15,484.47	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 26-23S-33E						
Coachwhip 26 Federal 1H - Original - Actuals	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - Curve Projections	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P1v5	15,484.47	10,602.80	1,491.63	1,410.49	18.383	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P2v1	15,484.47	10,543.29	1,654.94	1,573.21	20.251	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P2v2	15,484.47	10,640.00	1,657.95	1,576.30	20.305	CC, ES, SF
Coachwhip 26 Federal 1H - Original - P3v1	15,484.47	10,543.29	1,654.94	1,573.21	20.251	CC, ES, SF
Coachwhip 26 Federal 1H - Original - Plan 4	15,484.47	10,543.26	1,655.60	1,536.89	13.947	CC, ES, SF
Coachwhip 26 Federal 1H - Original - T&D	15,484.47	10,610.84	1,161.60	1,081.16	14.441	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Actuals	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 2	15,484.47	11,400.00	1,216.98	1,088.79	9.493	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 3	15,484.47	11,404.00	1,224.49	1,118.31	11.532	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 4	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 5	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - Plan 6	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - PTL	15,484.47	11,421.91	1,222.98	1,117.14	11.555	CC, ES, SF
Coachwhip 26 Federal 2H - Original - T&D	15,484.47	10,603.27	1,112.66	1,032.38	13.859	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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						
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	1,500.00	1,502.30	90.00	79.64	8.685	CC, ES
Sea Snake 35 State 14H - Wellbore #1 - Permit Plan 1	1,800.00	1,797.43	97.73	85.30	7.864	SF
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	2,000.00	2,001.60	60.00	46.07	4.307	Alert, CC, ES
Sea Snake 35 State 15H - Wellbore #1 - Permit Plan 1	2,200.00	2,201.56	63.47	48.14	4.139	Alert, SF
Sea Snake 35 State 16H - 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 16H - Wellbore #1 - Permit Plan 1	15,484.47	15,566.21	2,258.02	2,092.85	13.671	SF
Sea Snake 35 State 17H - Wellbore #1 - Permit Plan 1	15,484.47	15,626.10	1,128.03	962.59	6.818	CC, ES, SF
Sea Snake 35 State 1H - Original Hole - Actuals	637.21	638.25	830.55	826.41	200.508	CC
Sea Snake 35 State 1H - Original Hole - Actuals	700.00	696.23	830.74	826.18	182.097	ES
Sea Snake 35 State 1H - Original Hole - Actuals	15,400.00	15,977.00	2,051.55	1,880.78	12.014	SF
Sea Snake 35 State 1H - Pilot Hole - Actuals	637.21	638.25	830.55	826.41	200.508	CC
Sea Snake 35 State 1H - Pilot Hole - Actuals	700.00	696.23	830.74	826.18	182.097	ES
Sea Snake 35 State 1H - Pilot Hole - Actuals	10,550.00	10,528.67	1,595.59	1,532.32	25.217	SF
Sea Snake 35 State 2H - Original Hole - Actual	0.00	1.40	781.62			
Sea Snake 35 State 2H - Original Hole - Actual	10,171.05	10,224.56	796.06	727.75	11.655	ES
Sea Snake 35 State 2H - Original Hole - Actual	15,200.00	16,134.00	940.02	794.49	6.459	SF
Sea Snake 35 State 3H - Original Hole - Original Hole	10,019.26	9,993.41	642.46	572.28	9.155	CC
Sea Snake 35 State 3H - Original Hole - Original Hole	15,171.83	15,725.00	676.81	544.23	5.105	ES
Sea Snake 35 State 3H - Original Hole - Original Hole	15,200.00	15,725.00	677.40	544.65	5.103	SF
Sea Snake 35 State 4H - Original Hole - Original Hole	15,166.26	15,629.00	1,649.82	1,481.25	9.787	CC, ES
Sea Snake 35 State 4H - Original Hole - Original Hole	15,300.00	15,629.00	1,655.23	1,485.80	9.769	SF
Sea Snake 35-26 State Fed Com 11H - Wellbore #1 - Pe	4,078.77	4,087.36	11.52	-17.23	0.401	Collision, CC, ES, SF
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	9,614.49	9,592.51	1,384.64	1,317.09	20.498	CC, ES
Sea Snake 35-26 State Fed Com 12H - Wellbore #1 - Pe	15,484.47	14,725.87	1,621.04	1,472.16	10.888	SF
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	2,900.77	2,759.51	1,702.32	1,682.68	86.672	CC, ES
Sea Snake 35-26 State Fed Com 13H - Wellbore #1 - Pe	15,484.47	14,809.33	2,456.66	2,297.15	15.402	SF
Sea Snake 35-26 State Fed Com 19H - Wellbore #1 - Pe	15,484.47	15,570.43	1,126.15	961.16	6.826	CC, ES, SF
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,554.30	2,410.00	1,756.33	1,739.13	102.144	CC
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	2,600.00	2,445.27	1,756.46	1,738.99	100.557	ES
Sea Snake 35-26 State Fed Com 20H - Wellbore #1 - Pe	15,484.47	15,655.22	2,306.03	2,140.98	13.971	SF
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	2,000.00	1,981.80	1,530.32	1,492.18	40.122	CC
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	2,100.00	2,081.79	1,531.17	1,491.26	38.364	ES
State 35 1 (P&A'd) - Wellbore #1 - Wellbore #1	6,000.00	5,972.71	1,790.28	1,679.36	16.139	SF
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,530.32	10,567.03	1,991.53	1,763.46	8.732	CC, ES
Tophat AJQ State #001 (Active) - Wellbore #1 - Wellbore	13,700.00	10,567.03	1,998.74	1,768.59	8.684	SF

Offset Design		Sec 26-23S-33E - Coachwhip 26 Federal 1H - Original - Actuals										Offset Site Error:	0.00 ft
Survey Program: 166-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)	Offset Wellbore Centre +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	16.89	5,302.03	1,610.31	5,541.19				
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928	
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390	
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366	
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136	
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919	
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205	
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067	
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,599.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		
4,900.00	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-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		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,652.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,652.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,652.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,652.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,652.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,652.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,652.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,652.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		
13,700.00	10,600.00	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341		
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052		
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781		
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534		
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314		
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128		
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979		
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873		
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Actuals												Offset Site Error:	0.00 ft
Survey Program: 166-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	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928		
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390		
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366		
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136		
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919		
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205		
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067		
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833		
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058		
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617		
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665		
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674		
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875		
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585		
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680		
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330		
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214		
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822		
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510		
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544		
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252		
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038		
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353		
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953		
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188		
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986		
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913		
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050		
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769		
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706		
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705		
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092		
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534		
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873		
4,700.00	4,694.08	4,601.93	4,601.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818		
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 11409-													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		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,652.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,652.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,652.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,652.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,652.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,652.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,652.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,652.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Curve Projections												Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF, 11409-												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	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341	
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052	
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781	
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534	
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314	
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128	
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979	
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873	
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	89.10	89.10	0.52	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.66	0.52	N/A		
200.00	200.00	189.10	189.10	0.70	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.47	0.70	7,890.005		
300.00	300.00	289.10	289.10	0.99	0.00	16.89	5,302.03	1,610.31	5,541.18	5,540.19	0.99	5,611.117		
400.00	400.00	389.10	389.10	1.31	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.87	1.31	4,232.199		
500.00	500.00	489.10	489.10	1.65	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.53	1.65	3,365.861		
600.00	600.00	589.10	589.10	1.99	0.00	16.89	5,302.03	1,610.31	5,541.18	5,539.19	1.99	2,783.388		
700.00	700.00	689.10	689.10	2.34	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.84	2.34	2,368.515		
800.00	800.00	789.10	789.10	2.69	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.49	2.69	2,059.309		
900.00	900.00	889.10	889.10	3.04	0.00	16.89	5,302.03	1,610.31	5,541.18	5,538.13	3.04	1,820.509		
1,000.00	1,000.00	989.10	989.10	3.40	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.78	3.40	1,630.783		
1,100.00	1,100.00	1,089.10	1,089.10	3.75	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.42	3.75	1,476.544		
1,200.00	1,200.00	1,189.10	1,189.10	4.11	0.00	16.89	5,302.03	1,610.31	5,541.18	5,537.07	4.11	1,348.758		
1,300.00	1,300.00	1,289.10	1,289.10	4.46	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.71	4.46	1,241.199		
1,400.00	1,400.00	1,389.10	1,389.10	4.82	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.36	4.82	1,149.441		
1,500.00	1,500.00	1,489.10	1,489.10	5.18	0.00	16.89	5,302.03	1,610.31	5,541.18	5,536.00	5.18	1,070.256		
1,600.00	1,600.00	1,589.10	1,589.10	5.53	0.00	16.89	5,302.03	1,610.31	5,541.18	5,535.64	5.53	1,001.237		
1,700.00	1,700.00	1,689.10	1,689.10	5.89	0.00	16.89	5,302.03	1,610.31	5,541.18	5,535.29	5.89	940.549		
1,800.00	1,800.00	1,789.10	1,789.10	6.25	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.93	6.25	886.776		
1,900.00	1,900.00	1,889.10	1,889.10	6.61	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.57	6.61	838.801		
2,000.00	2,000.00	1,989.10	1,989.10	6.96	0.00	16.89	5,302.03	1,610.31	5,541.18	5,534.21	6.96	795.739		
2,100.00	2,099.99	2,089.09	2,089.09	7.31	0.00	-78.59	5,302.03	1,610.31	5,541.00	5,533.69	7.31	757.848		
2,200.00	2,199.96	2,189.06	2,189.06	7.65	0.00	-78.63	5,302.03	1,610.31	5,540.49	5,532.84	7.65	724.107		
2,300.00	2,299.86	2,288.96	2,288.96	7.99	0.00	-78.68	5,302.03	1,610.31	5,539.63	5,531.63	7.99	692.990		
2,399.87	2,399.54	2,388.64	2,388.64	8.34	0.00	-78.75	5,302.03	1,610.31	5,538.43	5,530.09	8.34	664.228		
2,500.00	2,499.43	2,488.53	2,488.53	8.69	0.00	-78.82	5,302.03	1,610.31	5,537.07	5,528.39	8.69	637.489		
2,600.00	2,599.19	2,588.29	2,588.29	9.03	0.00	-78.89	5,302.03	1,610.31	5,535.72	5,526.69	9.03	612.711		
2,700.00	2,698.94	2,688.04	2,688.04	9.39	0.00	-78.96	5,302.03	1,610.31	5,534.38	5,524.99	9.39	589.672		
2,800.00	2,798.70	2,787.80	2,787.80	9.74	0.00	-79.03	5,302.03	1,610.31	5,533.04	5,523.31	9.74	568.205		
2,900.00	2,898.46	2,887.56	2,887.56	10.09	0.00	-79.10	5,302.03	1,610.31	5,531.72	5,521.63	10.09	548.164		
3,000.00	2,998.21	2,987.31	2,987.31	10.45	0.00	-79.18	5,302.03	1,610.31	5,530.40	5,519.96	10.45	529.420		
3,100.00	3,097.97	3,087.07	3,087.07	10.80	0.00	-79.25	5,302.03	1,610.31	5,529.09	5,518.29	10.80	511.855		
3,200.00	3,197.73	3,186.83	3,186.83	11.16	0.00	-79.32	5,302.03	1,610.31	5,527.79	5,516.63	11.16	495.368		
3,300.00	3,297.48	3,286.58	3,286.58	11.52	0.00	-79.39	5,302.03	1,610.31	5,526.50	5,514.99	11.52	479.867		
3,400.00	3,397.24	3,386.34	3,386.34	11.88	0.00	-79.46	5,302.03	1,610.31	5,525.22	5,513.34	11.88	465.268		
3,500.00	3,497.00	3,486.10	3,486.10	12.24	0.00	-79.53	5,302.03	1,610.31	5,523.94	5,511.71	12.23	451.498		
3,600.00	3,596.75	3,585.85	3,585.85	12.60	0.00	-79.60	5,302.03	1,610.31	5,522.68	5,510.08	12.59	438.490		
3,700.00	3,696.51	3,685.61	3,685.61	12.96	0.00	-79.67	5,302.03	1,610.31	5,521.42	5,508.47	12.96	426.186		
3,800.00	3,796.27	3,785.37	3,785.37	13.32	0.00	-79.74	5,302.03	1,610.31	5,520.17	5,506.86	13.32	414.531		
3,900.00	3,896.02	3,885.12	3,885.12	13.68	0.00	-79.81	5,302.03	1,610.31	5,518.93	5,505.25	13.68	403.477		
4,000.00	3,995.78	3,984.88	3,984.88	14.04	0.00	-79.88	5,302.03	1,610.31	5,517.70	5,503.66	14.04	392.979		
4,100.00	4,095.54	4,084.64	4,084.64	14.40	0.00	-79.96	5,302.03	1,610.31	5,516.48	5,502.07	14.40	382.998		
4,200.00	4,195.29	4,184.39	4,184.39	14.77	0.00	-80.03	5,302.03	1,610.31	5,515.26	5,500.50	14.77	373.497		
4,300.00	4,295.05	4,284.15	4,284.15	15.13	0.00	-80.10	5,302.03	1,610.31	5,514.06	5,498.93	15.13	364.444		
4,400.00	4,394.81	4,383.91	4,383.91	15.49	0.00	-80.17	5,302.03	1,610.31	5,512.86	5,497.36	15.49	355.807		
4,500.00	4,494.56	4,483.66	4,483.66	15.86	0.00	-80.24	5,302.03	1,610.31	5,511.67	5,495.81	15.86	347.560		
4,600.00	4,594.32	4,583.42	4,583.42	16.22	0.00	-80.31	5,302.03	1,610.31	5,510.49	5,494.27	16.22	339.677		
4,700.00	4,694.08	4,683.18	4,683.18	16.59	0.00	-80.38	5,302.03	1,610.31	5,509.32	5,492.73	16.59	332.136		
4,800.00	4,793.83	4,782.93	4,782.93	16.95	0.00	-80.45	5,302.03	1,610.31	5,508.15	5,491.20	16.95	324.914		
4,900.00	4,893.59	4,882.69	4,882.69	17.32	0.00	-80.53	5,302.03	1,610.31	5,507.00	5,489.68	17.32	317.993		
5,000.00	4,993.35	4,982.45	4,982.45	17.68	0.00	-80.60	5,302.03	1,610.31	5,505.85	5,488.17	17.68	311.353		
5,100.00	5,093.10	5,082.20	5,082.20	18.05	0.00	-80.67	5,302.03	1,610.31	5,504.71	5,486.67	18.05	304.980		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
5,200.00	5,192.86	5,181.96	5,181.96	18.42	0.00	-80.74	5,302.03	1,610.31	5,503.59	5,485.17	18.42	298.856		
5,300.00	5,292.62	5,281.72	5,281.72	18.78	0.00	-80.81	5,302.03	1,610.31	5,502.47	5,483.68	18.78	292.969		
5,400.00	5,392.37	5,381.47	5,381.47	19.15	0.00	-80.88	5,302.03	1,610.31	5,501.35	5,482.21	19.15	287.304		
5,500.00	5,492.13	5,465.45	5,465.45	19.52	0.00	-80.94	5,302.03	1,610.69	5,500.37	5,480.85	19.52	281.852		
5,600.00	5,591.89	5,545.94	5,545.93	19.88	0.00	-80.98	5,302.03	1,612.17	5,499.73	5,479.85	19.88	276.618		
5,700.00	5,691.64	5,626.53	5,626.47	20.25	0.00	-81.01	5,302.03	1,614.79	5,499.45	5,479.20	20.25	271.592		
5,729.10	5,720.67	5,650.00	5,649.92	20.36	0.00	-81.02	5,302.03	1,615.77	5,499.44	5,479.08	20.36	270.167		
5,800.00	5,791.40	5,707.19	5,707.05	20.62	0.00	-81.03	5,302.03	1,618.55	5,499.53	5,478.91	20.62	266.763		
5,900.00	5,891.16	5,787.89	5,787.60	20.98	0.00	-81.04	5,302.03	1,623.44	5,499.95	5,478.97	20.98	262.120		
6,000.00	5,990.91	5,868.59	5,868.07	21.35	0.00	-81.04	5,302.03	1,629.46	5,500.73	5,479.38	21.35	257.655		
6,100.00	6,090.67	5,961.06	5,960.20	21.72	0.00	-81.03	5,302.03	1,637.44	5,501.79	5,480.07	21.72	253.347		
6,200.00	6,190.42	6,061.05	6,059.80	22.09	0.00	-81.01	5,302.03	1,646.15	5,502.88	5,480.79	22.08	249.180		
6,300.00	6,290.18	6,161.03	6,159.40	22.45	0.00	-80.99	5,302.03	1,654.87	5,503.97	5,481.51	22.45	245.148		
6,400.00	6,389.94	6,261.01	6,259.00	22.82	0.00	-80.98	5,302.03	1,663.58	5,505.06	5,482.24	22.82	241.244		
6,500.00	6,489.69	6,360.99	6,358.60	23.19	0.00	-80.96	5,302.03	1,672.29	5,506.15	5,482.96	23.19	237.463		
6,600.00	6,589.45	6,460.97	6,458.20	23.56	0.00	-80.94	5,302.03	1,681.01	5,507.24	5,483.68	23.56	233.800		
6,700.00	6,689.21	6,560.96	6,557.81	23.93	0.00	-80.93	5,302.03	1,689.72	5,508.33	5,484.40	23.92	230.248		
6,800.00	6,788.96	6,660.94	6,657.41	24.29	0.00	-80.91	5,302.03	1,698.44	5,509.42	5,485.13	24.29	226.803		
6,900.00	6,888.72	6,760.92	6,757.01	24.66	0.00	-80.90	5,302.03	1,707.15	5,510.51	5,485.85	24.66	223.460		
7,000.00	6,988.48	6,860.90	6,856.61	25.03	0.00	-80.88	5,302.03	1,715.86	5,511.60	5,486.57	25.03	220.215		
7,100.00	7,088.23	6,960.88	6,956.21	25.40	0.00	-80.86	5,302.03	1,724.58	5,512.69	5,487.30	25.40	217.063		
7,200.00	7,187.99	7,060.86	7,055.81	25.77	0.00	-80.85	5,302.03	1,733.29	5,513.79	5,488.02	25.77	214.001		
7,300.00	7,287.75	7,160.85	7,155.41	26.14	0.00	-80.83	5,302.03	1,742.01	5,514.88	5,488.75	26.13	211.025		
7,400.00	7,387.50	7,260.83	7,255.02	26.50	0.00	-80.82	5,302.03	1,750.72	5,515.97	5,489.47	26.50	208.131		
7,500.00	7,487.26	7,360.81	7,354.62	26.87	0.00	-80.80	5,302.03	1,759.43	5,517.07	5,490.20	26.87	205.315		
7,600.00	7,587.02	7,460.79	7,454.22	27.24	0.00	-80.78	5,302.03	1,768.15	5,518.16	5,490.92	27.24	202.576		
7,700.00	7,686.77	7,560.77	7,553.82	27.61	0.00	-80.77	5,302.03	1,776.86	5,519.26	5,491.65	27.61	199.909		
7,800.00	7,786.53	7,660.76	7,653.42	27.98	0.00	-80.75	5,302.03	1,785.58	5,520.35	5,492.38	27.98	197.313		
7,900.00	7,886.29	7,760.74	7,753.02	28.35	0.00	-80.74	5,302.03	1,794.29	5,521.45	5,493.10	28.35	194.783		
8,000.00	7,986.04	7,860.72	7,852.63	28.72	0.00	-80.72	5,302.03	1,803.00	5,522.55	5,493.83	28.72	192.318		
8,100.00	8,085.80	7,960.70	7,952.23	29.09	0.00	-80.70	5,302.03	1,811.72	5,523.64	5,494.56	29.08	189.915		
8,200.00	8,185.56	8,060.68	8,051.83	29.46	0.00	-80.69	5,302.03	1,820.43	5,524.74	5,495.29	29.45	187.573		
8,300.00	8,285.31	8,160.67	8,151.43	29.83	0.00	-80.67	5,302.03	1,829.15	5,525.84	5,496.01	29.82	185.288		
8,400.00	8,385.07	8,260.65	8,251.03	30.20	0.00	-80.65	5,302.03	1,837.86	5,526.94	5,496.74	30.19	183.058		
8,500.00	8,484.83	8,360.63	8,350.63	30.56	0.00	-80.64	5,302.03	1,846.57	5,528.03	5,497.47	30.56	180.882		
8,600.00	8,584.58	8,460.61	8,450.23	30.93	0.00	-80.62	5,302.03	1,855.29	5,529.13	5,498.20	30.93	178.758		
8,700.00	8,684.34	8,560.59	8,549.84	31.30	0.00	-80.61	5,302.03	1,864.00	5,530.23	5,498.93	31.30	176.684		
8,800.00	8,784.10	8,660.58	8,649.44	31.67	0.00	-80.59	5,302.03	1,872.72	5,531.33	5,499.66	31.67	174.658		
8,900.00	8,883.85	8,760.56	8,749.04	32.04	0.00	-80.57	5,302.03	1,881.43	5,532.43	5,500.39	32.04	172.678		
9,000.00	8,983.61	8,860.54	8,848.64	32.41	0.00	-80.56	5,302.03	1,890.14	5,533.53	5,501.13	32.41	170.744		
9,100.00	9,083.37	8,960.52	8,948.24	32.78	0.00	-80.54	5,302.03	1,898.86	5,534.63	5,501.86	32.78	168.853		
9,200.00	9,183.12	9,069.11	9,056.43	33.15	0.00	-80.53	5,302.03	1,908.11	5,535.69	5,502.54	33.15	167.000		
9,300.00	9,282.88	9,183.33	9,170.32	33.52	0.00	-80.52	5,302.03	1,916.82	5,536.51	5,502.99	33.52	165.179		
9,400.00	9,382.64	9,297.56	9,284.30	33.89	0.00	-80.53	5,302.03	1,924.38	5,537.07	5,503.18	33.89	163.392		
9,428.07	9,410.64	9,329.62	9,316.31	33.99	0.00	-80.53	5,302.03	1,926.30	5,537.18	5,503.19	33.99	162.896		
9,500.00	9,482.43	9,411.78	9,398.34	34.26	0.00	-80.54	5,302.03	1,930.81	5,537.48	5,503.23	34.26	161.648		
9,600.00	9,582.36	9,525.99	9,512.43	34.62	0.00	-80.54	5,302.03	1,936.10	5,538.06	5,503.44	34.62	159.981		
9,694.65	9,677.00	9,634.09	9,620.45	34.95	0.00	14.95	5,302.03	1,940.06	5,538.76	5,503.81	34.95	158.493		
9,700.00	9,682.35	9,640.20	9,626.56	34.97	0.00	14.95	5,302.03	1,940.26	5,538.80	5,503.84	34.96	158.412		
9,800.00	9,782.35	9,754.43	9,740.75	35.31	0.00	14.98	5,302.03	1,943.27	5,539.48	5,504.18	35.30	156.909		
9,900.00	9,882.35	9,868.72	9,855.02	35.65	0.00	15.00	5,302.03	1,945.15	5,539.91	5,504.27	35.64	155.426		
10,000.00	9,982.35	9,983.02	9,969.32	35.99	0.00	15.01	5,302.03	1,945.89	5,540.08	5,504.09	35.98	153.963		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
10,044.69	10,027.04	10,029.84	10,016.14	36.14	0.00	15.01	5,302.03	1,945.90	5,540.08	5,503.94	36.14	153.315		
10,050.00	10,032.35	10,035.15	10,021.45	36.16	0.00	15.43	5,302.03	1,945.90	5,540.06	5,503.90	36.15	153.238		
10,100.00	10,082.26	10,085.06	10,071.36	36.32	0.00	15.51	5,302.03	1,945.90	5,537.51	5,501.19	36.32	152.455		
10,150.00	10,131.76	10,134.56	10,120.86	36.49	0.00	15.71	5,302.03	1,945.90	5,530.78	5,494.29	36.49	151.576		
10,200.00	10,180.46	10,183.26	10,169.56	36.65	0.00	16.05	5,302.03	1,945.90	5,519.92	5,483.27	36.65	150.614		
10,250.00	10,227.98	10,230.78	10,217.08	36.81	0.00	16.53	5,302.03	1,945.90	5,505.01	5,468.20	36.80	149.582		
10,300.00	10,273.98	10,276.78	10,263.08	36.95	0.00	17.18	5,302.03	1,945.90	5,486.17	5,449.22	36.95	148.488		
10,350.00	10,318.11	10,320.91	10,307.21	37.09	0.00	18.02	5,302.03	1,945.90	5,463.55	5,426.47	37.08	147.344		
10,400.00	10,360.01	10,362.81	10,349.11	37.21	0.00	19.09	5,302.03	1,945.90	5,437.32	5,400.11	37.20	146.159		
10,450.00	10,399.38	10,402.18	10,388.48	37.32	0.00	20.44	5,302.03	1,945.90	5,407.68	5,370.37	37.31	144.941		
10,500.00	10,435.92	10,438.72	10,425.02	37.42	0.00	22.15	5,302.03	1,945.90	5,374.87	5,337.47	37.40	143.698		
10,550.00	10,469.35	10,472.15	10,458.45	37.51	0.00	24.32	5,302.03	1,945.90	5,339.14	5,301.66	37.48	142.438		
10,600.00	10,499.41	10,502.21	10,488.51	37.59	0.00	27.09	5,302.03	1,945.90	5,300.77	5,263.22	37.55	141.166		
10,650.00	10,525.87	10,528.67	10,514.97	37.66	0.00	30.69	5,302.03	1,945.90	5,260.05	5,222.45	37.60	139.888		
10,700.00	10,548.54	10,551.34	10,537.64	37.74	0.00	35.42	5,302.03	1,945.90	5,217.31	5,179.67	37.64	138.610		
10,750.00	10,567.24	10,570.04	10,556.34	37.84	0.00	41.73	5,302.03	1,945.90	5,172.86	5,135.19	37.67	137.334		
10,800.00	10,581.83	10,584.63	10,570.93	37.97	0.00	50.23	5,302.03	1,945.90	5,127.05	5,089.37	37.68	136.065		
10,850.00	10,592.19	10,594.99	10,581.29	38.11	0.00	61.52	5,302.03	1,945.90	5,080.24	5,042.55	37.69	134.805		
10,900.00	10,598.26	10,601.06	10,587.36	38.25	0.00	75.73	5,302.03	1,945.90	5,032.78	4,995.09	37.68	133.555		
10,944.69	10,600.00	10,602.80	10,589.10	38.39	0.00	90.00	5,302.03	1,945.90	4,990.11	4,952.43	37.68	132.449		
11,000.00	10,600.00	10,602.80	10,589.10	38.56	0.00	90.00	5,302.03	1,945.90	4,937.29	4,899.63	37.66	131.085		
11,100.00	10,600.00	10,602.80	10,589.10	38.91	0.00	90.00	5,302.03	1,945.90	4,841.95	4,804.30	37.65	128.606		
11,200.00	10,600.00	10,602.80	10,589.10	39.31	0.00	90.00	5,302.03	1,945.90	4,746.79	4,709.15	37.64	126.106		
11,300.00	10,600.00	10,602.80	10,589.10	39.76	0.00	90.00	5,302.03	1,945.90	4,651.84	4,614.20	37.64	123.585		
11,400.00	10,600.00	10,602.80	10,589.10	40.25	0.00	90.00	5,302.03	1,945.90	4,557.10	4,519.46	37.65	121.041		
11,500.00	10,600.00	10,602.80	10,589.10	40.79	0.00	90.00	5,302.03	1,945.90	4,462.60	4,424.93	37.67	118.474		
11,600.00	10,600.00	10,602.80	10,589.10	41.37	0.00	90.00	5,302.03	1,945.90	4,368.34	4,330.64	37.70	115.883		
11,700.00	10,600.00	10,602.80	10,589.10	41.99	0.00	90.00	5,302.03	1,945.90	4,274.34	4,236.60	37.74	113.266		
11,800.00	10,600.00	10,602.80	10,589.10	42.65	0.00	90.00	5,302.03	1,945.90	4,180.61	4,142.82	37.79	110.623		
11,900.00	10,600.00	10,602.80	10,589.10	43.35	0.00	90.00	5,302.03	1,945.90	4,087.19	4,049.33	37.86	107.952		
12,000.00	10,600.00	10,602.80	10,589.10	44.09	0.00	90.00	5,302.03	1,945.90	3,994.08	3,956.14	37.95	105.253		
12,100.00	10,600.00	10,602.80	10,589.10	44.86	0.00	90.00	5,302.03	1,945.90	3,901.32	3,863.27	38.05	102.524		
12,200.00	10,600.00	10,602.80	10,589.10	45.67	0.00	90.00	5,302.03	1,945.90	3,808.92	3,770.74	38.18	99.765		
12,300.00	10,600.00	10,602.80	10,589.10	46.50	0.00	90.00	5,302.03	1,945.90	3,716.91	3,678.59	38.33	96.974		
12,400.00	10,600.00	10,602.80	10,589.10	47.37	0.00	90.00	5,302.03	1,945.90	3,625.33	3,586.83	38.51	94.152		
12,500.00	10,600.00	10,602.80	10,589.10	48.26	0.00	90.00	5,302.03	1,945.90	3,534.21	3,495.50	38.71	91.298		
12,600.00	10,600.00	10,602.80	10,589.10	49.18	0.00	90.00	5,302.03	1,945.90	3,443.57	3,404.63	38.95	88.413		
12,700.00	10,600.00	10,602.80	10,589.10	50.13	0.00	90.00	5,302.03	1,945.90	3,353.47	3,314.25	39.22	85.497		
12,800.00	10,600.00	10,602.80	10,589.10	51.10	0.00	90.00	5,302.03	1,945.90	3,263.95	3,224.41	39.54	82.551		
12,900.00	10,600.00	10,602.80	10,589.10	52.09	0.00	90.00	5,302.03	1,945.90	3,175.05	3,135.15	39.90	79.577		
13,000.00	10,600.00	10,602.80	10,589.10	53.10	0.00	90.00	5,302.03	1,945.90	3,086.83	3,046.52	40.31	76.577		
13,100.00	10,600.00	10,602.80	10,589.10	54.14	0.00	90.00	5,302.03	1,945.90	2,999.35	2,958.58	40.78	73.556		
13,200.00	10,600.00	10,602.80	10,589.10	55.19	0.00	90.00	5,302.03	1,945.90	2,912.68	2,871.38	41.30	70.517		
13,300.00	10,600.00	10,602.80	10,589.10	56.26	0.00	90.00	5,302.03	1,945.90	2,826.89	2,784.99	41.90	67.465		
13,400.00	10,600.00	10,602.80	10,589.10	57.35	0.00	90.00	5,302.03	1,945.90	2,742.06	2,699.48	42.57	64.408		
13,500.00	10,600.00	10,602.80	10,589.10	58.45	0.00	90.00	5,302.03	1,945.90	2,658.28	2,614.95	43.33	61.352		
13,600.00	10,600.00	10,602.80	10,589.10	59.57	0.00	90.00	5,302.03	1,945.90	2,575.66	2,531.49	44.17	58.308		
13,700.00	10,600.00	10,602.80	10,589.10	60.71	0.00	90.00	5,302.03	1,945.90	2,494.32	2,449.20	45.12	55.285		
13,800.00	10,600.00	10,602.80	10,589.10	61.85	0.00	90.00	5,302.03	1,945.90	2,414.38	2,368.21	46.17	52.294		
13,900.00	10,600.00	10,602.80	10,589.10	63.01	0.00	90.00	5,302.03	1,945.90	2,335.98	2,288.64	47.34	49.348		
14,000.00	10,600.00	10,602.80	10,589.10	64.18	0.00	90.00	5,302.03	1,945.90	2,259.29	2,210.66	48.63	46.461		
14,100.00	10,600.00	10,602.80	10,589.10	65.37	0.00	90.00	5,302.03	1,945.90	2,184.48	2,134.43	50.05	43.646		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P1v5												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
14,200.00	10,600.00	10,602.80	10,589.10	66.56	0.00	90.00	5,302.03	1,945.90	2,111.76	2,060.15	51.61	40.916	
14,300.00	10,600.00	10,602.80	10,589.10	67.76	0.00	90.00	5,302.03	1,945.90	2,041.36	1,988.04	53.32	38.287	
14,400.00	10,600.00	10,602.80	10,589.10	68.98	0.00	90.00	5,302.03	1,945.90	1,973.50	1,918.33	55.17	35.772	
14,500.00	10,600.00	10,602.80	10,589.10	70.20	0.00	90.00	5,302.03	1,945.90	1,908.48	1,851.31	57.17	33.384	
14,600.00	10,600.00	10,602.80	10,589.10	71.43	0.00	90.00	5,302.03	1,945.90	1,846.59	1,787.28	59.31	31.134	
14,700.00	10,600.00	10,602.80	10,589.10	72.67	0.00	90.00	5,302.03	1,945.90	1,788.15	1,726.56	61.59	29.033	
14,800.00	10,600.00	10,602.80	10,589.10	73.92	0.00	90.00	5,302.03	1,945.90	1,733.51	1,669.52	63.99	27.091	
14,900.00	10,600.00	10,602.80	10,589.10	75.17	0.00	90.00	5,302.03	1,945.90	1,683.04	1,616.56	66.49	25.314	
15,000.00	10,600.00	10,602.80	10,589.10	76.44	0.00	90.00	5,302.03	1,945.90	1,637.14	1,568.08	69.06	23.707	
15,100.00	10,600.00	10,602.80	10,589.10	77.70	0.00	90.00	5,302.03	1,945.90	1,596.18	1,524.52	71.66	22.273	
15,200.00	10,600.00	10,602.80	10,589.10	78.98	0.00	90.00	5,302.03	1,945.90	1,560.57	1,486.31	74.26	21.015	
15,300.00	10,600.00	10,602.80	10,589.10	80.26	0.00	90.00	5,302.03	1,945.90	1,530.68	1,453.88	76.80	19.931	
15,400.00	10,600.00	10,602.80	10,589.10	81.55	0.00	90.00	5,302.03	1,945.90	1,506.84	1,427.61	79.22	19.020	
15,484.47	10,600.00	10,602.80	10,589.10	82.64	0.00	90.00	5,302.03	1,945.90	1,491.63	1,410.49	81.14	18.383	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.00	16.89	5,302.10	1,610.18	5,541.21	5,540.69	0.52	N/A		
200.00	200.00	181.34	181.34	0.70	0.00	16.89	5,302.36	1,609.71	5,541.32	5,540.62	0.70	7,890.138		
300.00	300.00	285.09	285.09	0.99	0.00	16.88	5,302.76	1,608.83	5,541.45	5,540.46	0.99	5,611.386		
400.00	400.00	393.04	393.02	1.31	0.00	16.87	5,302.98	1,607.91	5,541.39	5,540.08	1.31	4,232.359		
500.00	500.00	494.51	494.49	1.65	0.00	16.86	5,303.17	1,607.05	5,541.33	5,539.68	1.65	3,365.950		
600.00	600.00	601.48	601.46	1.99	0.00	16.85	5,303.36	1,605.86	5,541.17	5,539.18	1.99	2,783.380		
700.00	700.00	706.46	706.43	2.34	0.00	16.83	5,303.44	1,604.56	5,540.89	5,538.55	2.34	2,368.390		
800.00	800.00	803.09	803.06	2.69	0.00	16.82	5,303.44	1,603.66	5,540.61	5,537.92	2.69	2,059.101		
900.00	900.00	902.69	902.65	3.04	0.00	16.81	5,303.45	1,602.66	5,540.34	5,537.29	3.04	1,820.235		
1,000.00	1,000.00	997.89	997.84	3.40	0.00	16.80	5,303.61	1,601.66	5,540.19	5,536.79	3.40	1,630.493		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	0.00	16.80	5,303.59	1,600.77	5,539.92	5,536.17	3.75	1,476.212		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	0.00	16.79	5,303.54	1,600.21	5,539.72	5,535.61	4.11	1,348.405		
1,300.00	1,300.00	1,312.65	1,312.60	4.46	0.00	16.79	5,303.30	1,599.70	5,539.37	5,534.90	4.46	1,240.800		
1,400.00	1,400.00	1,401.25	1,401.20	4.82	0.00	16.78	5,303.12	1,599.31	5,539.04	5,534.22	4.82	1,149.000		
1,500.00	1,500.00	1,489.85	1,489.80	5.18	0.00	16.78	5,303.13	1,598.92	5,538.93	5,533.75	5.18	1,069.822		
1,506.10	1,506.10	1,495.25	1,495.20	5.20	0.00	16.78	5,303.14	1,598.89	5,538.93	5,533.73	5.20	1,065.343		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	0.00	16.77	5,303.32	1,598.53	5,539.00	5,533.46	5.53	1,000.843		
1,700.00	1,700.00	1,670.87	1,670.81	5.89	0.00	16.77	5,303.52	1,598.40	5,539.19	5,533.29	5.89	940.215		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	0.00	16.77	5,303.87	1,598.40	5,539.50	5,533.25	6.25	886.507		
1,900.00	1,900.00	1,870.81	1,870.75	6.61	0.00	16.77	5,304.06	1,598.40	5,539.69	5,533.09	6.61	838.581		
2,000.00	2,000.00	2,002.16	2,002.10	6.96	0.00	16.77	5,304.16	1,598.34	5,539.76	5,532.80	6.96	795.538		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	0.00	-78.72	5,303.93	1,598.20	5,539.34	5,532.02	7.31	757.622		
2,200.00	2,199.96	2,196.79	2,196.74	7.65	0.00	-78.75	5,303.67	1,598.31	5,538.59	5,530.94	7.65	723.859		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	0.00	-78.80	5,303.66	1,598.43	5,537.77	5,529.77	7.99	692.758		
2,399.87	2,399.54	2,373.02	2,372.97	8.34	0.00	-78.86	5,303.81	1,598.68	5,536.82	5,528.48	8.34	664.036		
2,500.00	2,499.43	2,475.41	2,475.35	8.69	0.00	-78.93	5,304.00	1,599.09	5,535.76	5,527.07	8.69	637.337		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	0.00	-79.00	5,304.04	1,599.36	5,534.52	5,525.49	9.03	612.578		
2,700.00	2,698.94	2,664.88	2,664.83	9.39	0.00	-79.06	5,304.16	1,599.54	5,533.42	5,524.03	9.39	589.568		
2,800.00	2,798.70	2,737.00	2,736.94	9.74	0.00	-79.11	5,304.58	1,599.94	5,532.79	5,523.05	9.74	568.186		
2,895.67	2,894.13	2,810.72	2,810.65	10.08	0.00	-79.16	5,305.27	1,600.60	5,532.63	5,522.56	10.08	549.107		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	0.00	-79.16	5,305.31	1,600.64	5,532.63	5,522.54	10.09	548.274		
3,000.00	2,998.21	2,913.30	2,913.22	10.45	0.00	-79.22	5,306.38	1,601.80	5,532.69	5,522.24	10.45	529.656		
3,100.00	3,097.97	3,038.22	3,038.13	10.80	0.00	-79.30	5,307.46	1,603.05	5,532.50	5,521.70	10.80	512.171		
3,200.00	3,197.73	3,140.30	3,140.20	11.16	0.00	-79.37	5,308.14	1,603.72	5,532.03	5,520.87	11.16	495.746		
3,300.00	3,297.48	3,234.73	3,234.62	11.52	0.00	-79.43	5,308.92	1,604.29	5,531.70	5,520.18	11.52	480.317		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	0.00	-79.51	5,309.72	1,604.58	5,531.16	5,519.29	11.88	465.763		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	0.00	-79.60	5,310.42	1,604.72	5,530.50	5,518.26	12.23	452.028		
3,600.00	3,596.75	3,571.59	3,571.49	12.60	0.00	-79.67	5,310.64	1,604.72	5,529.45	5,516.85	12.59	439.023		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	0.00	-79.74	5,310.90	1,604.79	5,528.48	5,515.52	12.96	426.726		
3,800.00	3,796.27	3,764.48	3,764.37	13.32	0.00	-79.80	5,311.12	1,605.16	5,527.56	5,514.24	13.32	415.080		
3,900.00	3,896.02	3,849.64	3,849.53	13.68	0.00	-79.86	5,311.28	1,606.17	5,526.83	5,513.15	13.68	404.047		
4,000.00	3,995.78	3,939.90	3,939.76	14.04	0.00	-79.90	5,311.41	1,608.21	5,526.35	5,512.31	14.04	393.589		
4,100.00	4,095.54	4,031.57	4,031.37	14.40	0.00	-79.93	5,311.30	1,611.61	5,526.02	5,511.61	14.40	383.655		
4,174.29	4,169.65	4,091.74	4,091.47	14.67	0.00	-79.95	5,311.17	1,614.46	5,525.90	5,511.23	14.67	376.597		
4,200.00	4,195.29	4,110.84	4,110.54	14.77	0.00	-79.95	5,311.14	1,615.48	5,525.92	5,511.15	14.77	374.219		
4,300.00	4,295.05	4,183.69	4,183.26	15.13	0.00	-79.96	5,311.08	1,619.97	5,526.27	5,511.14	15.13	365.265		
4,400.00	4,394.81	4,247.00	4,246.40	15.49	0.00	-79.96	5,311.19	1,624.45	5,527.15	5,511.66	15.49	356.772		
4,500.00	4,494.56	4,315.02	4,314.20	15.86	0.00	-79.95	5,311.58	1,629.89	5,528.65	5,512.80	15.85	348.707		
4,600.00	4,594.32	4,443.75	4,442.38	16.22	0.00	-79.93	5,312.31	1,641.82	5,530.53	5,514.31	16.22	340.956		
4,700.00	4,694.08	4,601.99	4,601.87	16.59	0.00	-79.88	5,311.01	1,657.15	5,530.99	5,514.40	16.59	333.448		
4,800.00	4,793.83	4,693.26	4,690.77	16.95	0.00	-79.86	5,310.21	1,665.30	5,531.33	5,514.38	16.95	326.290		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	4,893.59	4,778.85	4,776.06	17.32	0.00	-79.85	5,309.82	1,672.37	5,531.89	5,514.58	17.32	319.446		
5,000.00	4,993.35	4,874.99	4,871.86	17.68	0.00	-79.84	5,309.53	1,680.60	5,532.67	5,514.99	17.68	312.888		
5,100.00	5,093.10	4,990.07	4,986.51	18.05	0.00	-79.82	5,309.05	1,690.39	5,533.34	5,515.29	18.05	306.577		
5,200.00	5,192.86	5,091.58	5,087.66	18.42	0.00	-79.81	5,308.45	1,698.89	5,533.80	5,515.39	18.41	300.508		
5,300.00	5,292.62	5,207.11	5,202.87	18.78	0.00	-79.80	5,307.95	1,707.50	5,534.17	5,515.39	18.78	294.663		
5,400.00	5,392.37	5,324.57	5,320.10	19.15	0.00	-79.81	5,307.27	1,714.98	5,534.08	5,514.93	19.15	289.016		
5,435.10	5,427.39	5,352.75	5,348.21	19.28	0.00	-79.81	5,307.10	1,716.83	5,534.06	5,514.78	19.28	287.087		
5,500.00	5,492.13	5,400.00	5,395.34	19.52	0.00	-79.81	5,306.82	1,720.16	5,534.14	5,514.62	19.51	283.595		
5,600.00	5,591.89	5,458.94	5,454.08	19.88	0.00	-79.80	5,306.65	1,724.93	5,534.82	5,514.94	19.88	278.416		
5,700.00	5,691.64	5,543.61	5,538.39	20.25	0.00	-79.78	5,306.70	1,732.78	5,536.12	5,515.88	20.25	273.446		
5,800.00	5,791.40	5,639.24	5,633.59	20.62	0.00	-79.76	5,306.72	1,741.83	5,537.47	5,516.86	20.61	268.645		
5,900.00	5,891.16	5,759.61	5,753.44	20.98	0.00	-79.74	5,306.76	1,753.04	5,538.81	5,517.82	20.98	263.995		
6,000.00	5,990.91	5,857.08	5,850.52	21.35	0.00	-79.72	5,306.61	1,761.79	5,539.86	5,518.51	21.35	259.503		
6,100.00	6,090.67	5,966.21	5,959.23	21.72	0.00	-79.70	5,306.50	1,771.27	5,540.88	5,519.16	21.72	255.154		
6,200.00	6,190.42	6,067.02	6,059.69	22.09	0.00	-79.69	5,306.32	1,779.66	5,541.72	5,519.64	22.08	250.946		
6,300.00	6,290.18	6,132.83	6,125.26	22.45	0.00	-79.68	5,306.39	1,785.40	5,542.95	5,520.50	22.45	246.910		
6,400.00	6,389.94	6,226.66	6,218.69	22.82	0.00	-79.66	5,306.80	1,793.92	5,544.59	5,521.77	22.82	243.006		
6,500.00	6,489.69	6,344.07	6,335.68	23.19	0.00	-79.65	5,307.32	1,803.86	5,546.07	5,522.89	23.19	239.204		
6,600.00	6,589.45	6,435.36	6,426.61	23.56	0.00	-79.63	5,307.55	1,812.00	5,547.49	5,523.94	23.55	235.532		
6,700.00	6,689.21	6,542.88	6,533.67	23.93	0.00	-79.61	5,307.70	1,821.95	5,548.90	5,524.98	23.92	231.963		
6,800.00	6,788.96	6,652.79	6,643.12	24.29	0.00	-79.59	5,307.82	1,831.88	5,550.22	5,525.93	24.29	228.496		
6,900.00	6,888.72	6,771.79	6,761.70	24.66	0.00	-79.57	5,307.66	1,842.03	5,551.16	5,526.50	24.66	225.114		
7,000.00	6,988.48	6,850.80	6,840.44	25.03	0.00	-79.56	5,307.59	1,848.54	5,552.10	5,527.07	25.03	221.847		
7,100.00	7,088.23	6,925.34	6,914.65	25.40	0.00	-79.55	5,307.78	1,855.46	5,553.60	5,528.21	25.39	218.702		
7,200.00	7,187.99	7,033.10	7,021.97	25.77	0.00	-79.53	5,308.20	1,865.26	5,555.21	5,529.45	25.76	215.632		
7,300.00	7,287.75	7,150.21	7,138.63	26.14	0.00	-79.51	5,308.56	1,875.35	5,556.61	5,530.48	26.13	212.635		
7,400.00	7,387.50	7,240.64	7,228.74	26.50	0.00	-79.50	5,308.70	1,883.04	5,557.84	5,531.34	26.50	209.728		
7,500.00	7,487.26	7,350.27	7,337.88	26.87	0.00	-79.47	5,308.82	1,893.37	5,559.29	5,532.42	26.87	206.900		
7,600.00	7,587.02	7,460.78	7,447.93	27.24	0.00	-79.45	5,308.65	1,903.41	5,560.37	5,533.13	27.24	204.134		
7,700.00	7,686.77	7,569.10	7,555.84	27.61	0.00	-79.43	5,308.45	1,912.87	5,561.32	5,533.72	27.61	201.439		
7,800.00	7,786.53	7,634.08	7,620.54	27.98	0.00	-79.42	5,308.42	1,918.90	5,562.52	5,534.57	27.97	198.841		
7,900.00	7,886.29	7,764.48	7,750.26	28.35	0.00	-79.38	5,308.21	1,932.10	5,563.95	5,535.61	28.35	196.290		
8,000.00	7,986.04	7,893.46	7,878.69	28.72	0.00	-79.35	5,307.43	1,944.08	5,564.67	5,535.95	28.72	193.785		
8,100.00	8,085.80	8,039.82	8,024.47	29.09	0.00	-79.32	5,305.78	1,956.92	5,564.75	5,535.66	29.09	191.325		
8,157.87	8,143.53	8,076.17	8,060.68	29.30	0.00	-79.31	5,305.29	1,960.06	5,564.65	5,535.35	29.30	189.927		
8,200.00	8,185.56	8,104.21	8,088.61	29.46	0.00	-79.31	5,304.97	1,962.60	5,564.70	5,535.25	29.45	188.928		
8,300.00	8,285.31	8,193.47	8,177.47	29.83	0.00	-79.29	5,304.15	1,970.98	5,565.13	5,535.31	29.82	186.606		
8,400.00	8,385.07	8,331.42	8,314.85	30.20	0.00	-79.26	5,302.63	1,983.43	5,565.32	5,535.13	30.19	184.327		
8,500.00	8,484.83	8,444.23	8,427.25	30.56	0.00	-79.24	5,300.86	1,992.88	5,564.84	5,534.28	30.56	182.084		
8,600.00	8,584.58	8,527.88	8,510.55	30.93	0.00	-79.22	5,299.62	2,000.31	5,564.58	5,533.65	30.93	179.902		
8,700.00	8,684.34	8,657.76	8,639.89	31.30	0.00	-79.19	5,297.41	2,012.00	5,564.17	5,532.87	31.30	177.767		
8,800.00	8,784.10	8,785.97	8,767.61	31.67	0.00	-79.16	5,294.66	2,022.91	5,563.19	5,531.52	31.67	175.668		
8,900.00	8,883.85	8,884.50	8,865.79	32.04	0.00	-79.15	5,292.44	2,030.83	5,561.97	5,529.94	32.04	173.604		
9,000.00	8,983.61	8,941.43	8,922.53	32.41	0.00	-79.14	5,291.40	2,035.41	5,561.17	5,528.76	32.41	171.595		
9,046.84	9,030.34	8,967.80	8,948.80	32.58	0.00	-79.14	5,291.04	2,037.64	5,561.06	5,528.48	32.58	170.680		
9,100.00	9,083.37	9,010.83	8,991.67	32.78	0.00	-79.13	5,290.58	2,041.37	5,561.11	5,528.34	32.78	169.660		
9,200.00	9,183.12	9,124.26	9,104.69	33.15	0.00	-79.11	5,289.46	2,050.83	5,561.21	5,528.06	33.15	167.771		
9,300.00	9,282.88	9,229.46	9,209.59	33.52	0.00	-79.10	5,288.34	2,058.68	5,560.96	5,527.45	33.52	165.913		
9,400.00	9,382.64	9,326.46	9,306.36	33.89	0.00	-79.10	5,287.56	2,065.37	5,560.82	5,526.93	33.89	164.100		
9,428.07	9,410.64	9,355.03	9,334.86	33.99	0.00	-79.10	5,287.34	2,067.32	5,560.78	5,526.79	33.99	163.597		
9,500.00	9,482.43	9,479.13	9,458.69	34.26	0.00	-79.09	5,285.80	2,075.43	5,560.41	5,526.15	34.25	162.330		
9,600.00	9,582.36	9,607.37	9,586.67	34.62	0.00	-79.05	5,283.51	2,083.20	5,559.69	5,525.08	34.61	160.626		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
9,694.65	9,677.00	9,737.24	9,716.37	34.95	0.00	16.49	5,280.92	2,089.29	5,558.92	5,523.98	34.94	159.102		
9,700.00	9,682.35	9,744.64	9,723.76	34.97	0.00	16.50	5,280.76	2,089.59	5,558.87	5,523.91	34.96	159.019		
9,800.00	9,782.35	9,832.96	9,812.00	35.31	0.00	16.54	5,278.97	2,093.14	5,558.06	5,522.77	35.30	157.462		
9,900.00	9,882.35	9,957.73	9,936.66	35.65	0.00	16.59	5,276.40	2,097.51	5,557.08	5,521.45	35.64	155.943		
10,000.00	9,982.35	10,070.87	10,049.72	35.99	0.00	16.63	5,273.87	2,100.88	5,555.79	5,519.82	35.97	154.439		
10,044.69	10,027.04	10,126.52	10,105.33	36.14	0.00	16.65	5,272.51	2,102.56	5,555.14	5,519.01	36.12	153.776		
10,050.00	10,032.35	10,137.19	10,115.99	36.16	0.00	17.08	5,272.23	2,102.88	5,555.03	5,518.88	36.14	153.699		
10,100.00	10,082.26	10,225.24	10,203.97	36.32	0.00	17.23	5,269.57	2,105.39	5,551.44	5,515.13	36.31	152.908		
10,150.00	10,131.76	10,281.94	10,260.62	36.49	0.00	17.52	5,267.66	2,106.90	5,543.55	5,507.08	36.47	152.002		
10,200.00	10,180.46	10,333.30	10,311.93	36.65	0.00	17.95	5,265.88	2,108.23	5,531.54	5,494.91	36.63	151.011		
10,250.00	10,227.98	10,380.54	10,359.12	36.81	0.00	18.55	5,264.23	2,109.51	5,515.55	5,478.76	36.78	149.950		
10,300.00	10,273.98	10,429.00	10,407.52	36.95	0.00	19.34	5,262.48	2,110.94	5,495.69	5,458.77	36.93	148.834		
10,350.00	10,318.11	10,476.86	10,455.32	37.09	0.00	20.37	5,260.62	2,112.68	5,472.11	5,435.05	37.06	147.670		
10,400.00	10,360.01	10,520.04	10,498.42	37.21	0.00	21.66	5,258.82	2,114.51	5,444.99	5,407.81	37.18	146.467		
10,450.00	10,399.38	10,559.29	10,537.59	37.32	0.00	23.27	5,257.14	2,116.31	5,414.57	5,377.29	37.28	145.233		
10,500.00	10,435.92	10,594.81	10,573.04	37.42	0.00	25.30	5,255.58	2,118.03	5,381.09	5,343.72	37.37	143.978		
10,550.00	10,469.35	10,626.51	10,604.67	37.51	0.00	27.85	5,254.18	2,119.57	5,344.82	5,307.37	37.45	142.707		
10,600.00	10,499.41	10,640.00	10,618.13	37.59	0.00	30.97	5,253.59	2,120.22	5,306.06	5,268.54	37.52	141.416		
10,650.00	10,525.87	10,650.00	10,628.12	37.66	0.00	34.93	5,253.22	2,120.63	5,265.18	5,227.60	37.58	140.124		
10,700.00	10,548.54	10,650.00	10,628.12	37.74	0.00	39.93	5,253.22	2,120.63	5,222.46	5,184.84	37.62	138.831		
10,750.00	10,567.24	10,650.00	10,628.12	37.84	0.00	46.43	5,253.22	2,120.63	5,178.21	5,140.56	37.65	137.548		
10,800.00	10,581.83	10,650.00	10,628.12	37.97	0.00	54.89	5,253.22	2,120.63	5,132.73	5,095.07	37.66	136.278		
10,850.00	10,592.19	10,658.16	10,636.26	38.11	0.00	65.91	5,253.03	2,120.85	5,086.31	5,048.64	37.67	135.026		
10,900.00	10,598.26	10,659.13	10,637.24	38.25	0.00	78.97	5,253.01	2,120.86	5,039.34	5,001.68	37.67	133.785		
10,944.69	10,600.00	10,659.32	10,637.43	38.39	0.00	91.68	5,253.01	2,120.87	4,997.16	4,959.50	37.66	132.690		
11,000.00	10,600.00	10,659.14	10,637.25	38.56	0.00	91.67	5,253.01	2,120.86	4,944.99	4,907.34	37.65	131.340		
11,100.00	10,600.00	10,658.81	10,636.92	38.91	0.00	91.66	5,253.02	2,120.86	4,850.83	4,813.19	37.64	128.882		
11,200.00	10,600.00	10,658.45	10,636.56	39.31	0.00	91.65	5,253.02	2,120.85	4,756.91	4,719.27	37.63	126.399		
11,300.00	10,600.00	10,658.07	10,636.18	39.76	0.00	91.64	5,253.03	2,120.84	4,663.24	4,625.60	37.64	123.890		
11,400.00	10,600.00	10,657.67	10,635.78	40.25	0.00	91.62	5,253.04	2,120.84	4,569.84	4,532.18	37.66	121.354		
11,500.00	10,600.00	10,650.00	10,628.12	40.79	0.00	91.36	5,253.22	2,120.63	4,476.75	4,439.07	37.69	118.785		
11,600.00	10,600.00	10,650.00	10,628.12	41.37	0.00	91.36	5,253.22	2,120.63	4,383.94	4,346.21	37.73	116.191		
11,700.00	10,600.00	10,650.00	10,628.12	41.99	0.00	91.36	5,253.22	2,120.63	4,291.45	4,253.66	37.79	113.566		
11,800.00	10,600.00	10,650.00	10,628.12	42.65	0.00	91.36	5,253.22	2,120.63	4,199.30	4,161.44	37.86	110.909		
11,900.00	10,600.00	10,650.00	10,628.12	43.35	0.00	91.36	5,253.22	2,120.63	4,107.52	4,069.57	37.96	108.218		
12,000.00	10,600.00	10,650.00	10,628.12	44.09	0.00	91.36	5,253.22	2,120.63	4,016.13	3,978.06	38.07	105.494		
12,100.00	10,600.00	10,650.00	10,628.12	44.86	0.00	91.36	5,253.22	2,120.63	3,925.17	3,886.96	38.21	102.734		
12,200.00	10,600.00	10,650.00	10,628.12	45.67	0.00	91.36	5,253.22	2,120.63	3,834.65	3,796.28	38.37	99.940		
12,300.00	10,600.00	10,650.00	10,628.12	46.50	0.00	91.36	5,253.22	2,120.63	3,744.61	3,706.05	38.56	97.109		
12,400.00	10,600.00	10,650.00	10,628.12	47.37	0.00	91.36	5,253.22	2,120.63	3,655.10	3,616.31	38.78	94.243		
12,500.00	10,600.00	10,650.00	10,628.12	48.26	0.00	91.36	5,253.22	2,120.63	3,566.14	3,527.10	39.04	91.342		
12,600.00	10,600.00	10,650.00	10,628.12	49.18	0.00	91.36	5,253.22	2,120.63	3,477.78	3,438.44	39.34	88.407		
12,700.00	10,600.00	10,650.00	10,628.12	50.13	0.00	91.36	5,253.22	2,120.63	3,390.07	3,350.39	39.68	85.440		
12,800.00	10,600.00	10,647.25	10,625.37	51.10	0.00	91.26	5,253.31	2,120.53	3,303.05	3,262.98	40.06	82.443		
12,900.00	10,600.00	10,645.83	10,623.95	52.09	0.00	91.21	5,253.36	2,120.48	3,216.79	3,176.28	40.50	79.420		
13,000.00	10,600.00	10,644.24	10,622.36	53.10	0.00	91.16	5,253.42	2,120.41	3,131.34	3,090.34	41.00	76.376		
13,100.00	10,600.00	10,642.42	10,620.55	54.14	0.00	91.09	5,253.49	2,120.34	3,046.77	3,005.22	41.56	73.314		
13,200.00	10,600.00	10,640.67	10,618.80	55.19	0.00	91.03	5,253.56	2,120.26	2,963.17	2,920.98	42.18	70.243		
13,300.00	10,600.00	10,636.24	10,614.38	56.26	0.00	90.88	5,253.76	2,120.04	2,880.61	2,837.72	42.89	67.169		
13,400.00	10,600.00	10,631.80	10,609.95	57.35	0.00	90.73	5,253.95	2,119.82	2,799.17	2,755.50	43.67	64.101		
13,500.00	10,600.00	10,627.37	10,605.52	58.45	0.00	90.57	5,254.15	2,119.61	2,718.97	2,674.43	44.54	61.048		
13,600.00	10,600.00	10,622.93	10,601.10	59.57	0.00	90.42	5,254.34	2,119.39	2,640.11	2,594.61	45.50	58.022		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P2v1												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	10,618.49	10,596.67	60.71	0.00	90.26	5,254.54	2,119.18	2,562.72	2,516.16	46.57	55.033	
13,800.00	10,600.00	10,614.06	10,592.24	61.85	0.00	90.11	5,254.73	2,118.96	2,486.94	2,439.20	47.74	52.095	
13,900.00	10,600.00	10,609.62	10,587.82	63.01	0.00	89.96	5,254.93	2,118.75	2,412.91	2,363.89	49.02	49.219	
14,000.00	10,600.00	10,605.18	10,583.39	64.18	0.00	89.80	5,255.12	2,118.53	2,340.81	2,290.38	50.43	46.419	
14,100.00	10,600.00	10,600.75	10,578.96	65.37	0.00	89.65	5,255.32	2,118.31	2,270.81	2,218.86	51.95	43.708	
14,200.00	10,600.00	10,596.31	10,574.54	66.56	0.00	89.49	5,255.51	2,118.10	2,203.12	2,149.52	53.61	41.099	
14,300.00	10,600.00	10,591.88	10,570.11	67.76	0.00	89.34	5,255.71	2,117.88	2,137.96	2,082.57	55.38	38.603	
14,400.00	10,600.00	10,587.44	10,565.68	68.98	0.00	89.18	5,255.90	2,117.67	2,075.56	2,018.27	57.29	36.231	
14,500.00	10,600.00	10,583.00	10,561.26	70.20	0.00	89.03	5,256.10	2,117.45	2,016.18	1,956.87	59.31	33.994	
14,600.00	10,600.00	10,578.57	10,556.83	71.43	0.00	88.88	5,256.29	2,117.24	1,960.10	1,898.66	61.44	31.901	
14,700.00	10,600.00	10,574.38	10,552.65	72.67	0.00	88.73	5,256.48	2,117.03	1,907.60	1,843.93	63.68	29.957	
14,800.00	10,600.00	10,570.34	10,548.62	73.92	0.00	88.59	5,256.66	2,116.84	1,859.00	1,793.01	65.99	28.170	
14,900.00	10,600.00	10,566.33	10,544.61	75.17	0.00	88.45	5,256.83	2,116.64	1,814.60	1,746.23	68.37	26.542	
15,000.00	10,600.00	10,562.33	10,540.63	76.44	0.00	88.31	5,257.01	2,116.45	1,774.72	1,703.94	70.77	25.076	
15,100.00	10,600.00	10,558.36	10,536.67	77.70	0.00	88.17	5,257.18	2,116.27	1,739.67	1,666.49	73.18	23.772	
15,200.00	10,600.00	10,554.41	10,532.73	78.98	0.00	88.04	5,257.35	2,116.08	1,709.75	1,634.20	75.55	22.631	
15,300.00	10,600.00	10,550.48	10,528.80	80.26	0.00	87.90	5,257.52	2,115.90	1,685.23	1,607.39	77.84	21.651	
15,400.00	10,600.00	10,546.58	10,524.91	81.55	0.00	87.76	5,257.69	2,115.71	1,666.35	1,586.34	80.01	20.827	
15,484.47	10,600.00	10,543.29	10,521.63	82.64	0.00	87.65	5,257.83	2,115.56	1,654.94	1,573.21	81.72	20.251	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
2,399.87	2,399.54	10,640.00	10,618.13	8.34	0.00	-79.39	5,253.59	2,120.22	9,988.76	9,983.17	5.59	1,785.360		
2,500.00	2,499.43	10,640.00	10,618.13	8.69	0.00	-79.39	5,253.59	2,120.22	9,905.50	9,899.67	5.83	1,699.271		
2,600.00	2,599.19	10,640.00	10,618.13	9.03	0.00	-79.39	5,253.59	2,120.22	9,822.67	9,816.60	6.07	1,618.695		
2,700.00	2,698.94	10,640.00	10,618.13	9.39	0.00	-79.39	5,253.59	2,120.22	9,740.16	9,733.85	6.31	1,542.933		
2,800.00	2,798.70	10,640.00	10,618.13	9.74	0.00	-79.39	5,253.59	2,120.22	9,657.99	9,651.42	6.56	1,471.659		
2,900.00	2,898.46	10,640.00	10,618.13	10.09	0.00	-79.39	5,253.59	2,120.22	9,576.15	9,569.33	6.82	1,404.566		
3,000.00	2,998.21	10,640.00	10,618.13	10.45	0.00	-79.39	5,253.59	2,120.22	9,494.65	9,487.58	7.08	1,341.366		
3,100.00	3,097.97	10,640.00	10,618.13	10.80	0.00	-79.39	5,253.59	2,120.22	9,413.52	9,406.18	7.34	1,281.790		
3,200.00	3,197.73	10,640.00	10,618.13	11.16	0.00	-79.39	5,253.59	2,120.22	9,332.75	9,325.14	7.61	1,225.589		
3,300.00	3,197.48	10,640.00	10,618.13	11.52	0.00	-79.39	5,253.59	2,120.22	9,252.36	9,244.47	7.89	1,172.532		
3,400.00	3,197.24	10,640.00	10,618.13	11.88	0.00	-79.39	5,253.59	2,120.22	9,172.35	9,164.18	8.17	1,122.403		
3,500.00	3,197.00	10,640.00	10,618.13	12.24	0.00	-79.39	5,253.59	2,120.22	9,092.74	9,084.28	8.46	1,075.005		
3,600.00	3,196.75	10,640.00	10,618.13	12.60	0.00	-79.39	5,253.59	2,120.22	9,013.53	9,004.78	8.75	1,030.155		
3,700.00	3,196.51	10,640.00	10,618.13	12.96	0.00	-79.39	5,253.59	2,120.22	8,934.75	8,925.70	9.05	987.684		
3,800.00	3,196.27	10,640.00	10,618.13	13.32	0.00	-79.39	5,253.59	2,120.22	8,856.39	8,847.04	9.35	947.437		
3,900.00	3,196.02	10,640.00	10,618.13	13.68	0.00	-79.39	5,253.59	2,120.22	8,778.47	8,768.81	9.65	909.269		
4,000.00	3,195.78	10,640.00	10,618.13	14.04	0.00	-79.39	5,253.59	2,120.22	8,701.00	8,691.03	9.97	873.048		
4,100.00	4,095.54	10,640.00	10,618.13	14.40	0.00	-79.39	5,253.59	2,120.22	8,623.99	8,613.71	10.28	838.651		
4,200.00	4,195.29	10,640.00	10,618.13	14.77	0.00	-79.39	5,253.59	2,120.22	8,547.46	8,536.86	10.61	805.965		
4,300.00	4,295.05	10,640.00	10,618.13	15.13	0.00	-79.39	5,253.59	2,120.22	8,471.42	8,460.49	10.93	774.885		
4,400.00	4,394.81	10,640.00	10,618.13	15.49	0.00	-79.39	5,253.59	2,120.22	8,395.89	8,384.62	11.26	745.314		
4,500.00	4,494.56	10,640.00	10,618.13	15.86	0.00	-79.39	5,253.59	2,120.22	8,320.87	8,309.26	11.60	717.163		
4,600.00	4,594.32	10,640.00	10,618.13	16.22	0.00	-79.39	5,253.59	2,120.22	8,246.37	8,234.43	11.95	690.347		
4,700.00	4,694.08	10,640.00	10,618.13	16.59	0.00	-79.39	5,253.59	2,120.22	8,172.43	8,160.13	12.29	664.791		
4,800.00	4,793.83	10,640.00	10,618.13	16.95	0.00	-79.39	5,253.59	2,120.22	8,099.04	8,086.39	12.65	640.422		
4,900.00	4,893.59	10,640.00	10,618.13	17.32	0.00	-79.39	5,253.59	2,120.22	8,026.23	8,013.22	13.00	617.173		
5,000.00	4,993.35	10,640.00	10,618.13	17.68	0.00	-79.39	5,253.59	2,120.22	7,954.01	7,940.64	13.37	594.984		
5,100.00	5,093.10	10,640.00	10,618.13	18.05	0.00	-79.39	5,253.59	2,120.22	7,882.39	7,868.66	13.74	573.795		
5,200.00	5,192.86	10,640.00	10,618.13	18.42	0.00	-79.39	5,253.59	2,120.22	7,811.40	7,797.29	14.11	553.554		
5,300.00	5,292.62	10,640.00	10,618.13	18.78	0.00	-79.39	5,253.59	2,120.22	7,741.05	7,726.56	14.49	534.211		
5,400.00	5,392.37	10,640.00	10,618.13	19.15	0.00	-79.39	5,253.59	2,120.22	7,671.36	7,656.49	14.88	515.719		
5,500.00	5,492.13	10,640.00	10,618.13	19.52	0.00	-79.39	5,253.59	2,120.22	7,602.35	7,587.08	15.26	498.033		
5,600.00	5,591.89	10,640.00	10,618.13	19.88	0.00	-79.39	5,253.59	2,120.22	7,534.03	7,518.37	15.66	481.114		
5,700.00	5,691.64	10,640.00	10,618.13	20.25	0.00	-79.39	5,253.59	2,120.22	7,466.42	7,450.36	16.06	464.923		
5,800.00	5,791.40	10,640.00	10,618.13	20.62	0.00	-79.39	5,253.59	2,120.22	7,399.55	7,383.09	16.46	449.425		
5,900.00	5,891.16	10,640.00	10,618.13	20.98	0.00	-79.39	5,253.59	2,120.22	7,333.43	7,316.56	16.87	434.585		
6,000.00	5,990.91	10,640.00	10,618.13	21.35	0.00	-79.39	5,253.59	2,120.22	7,268.09	7,250.80	17.29	420.373		
6,100.00	6,090.67	10,640.00	10,618.13	21.72	0.00	-79.39	5,253.59	2,120.22	7,203.54	7,185.83	17.71	406.759		
6,200.00	6,190.42	10,640.00	10,618.13	22.09	0.00	-79.39	5,253.59	2,120.22	7,139.81	7,121.68	18.13	393.714		
6,300.00	6,290.18	10,640.00	10,618.13	22.45	0.00	-79.39	5,253.59	2,120.22	7,076.92	7,058.36	18.56	381.214		
6,400.00	6,389.94	10,640.00	10,618.13	22.82	0.00	-79.39	5,253.59	2,120.22	7,014.89	6,995.89	19.00	369.234		
6,500.00	6,489.69	10,640.00	10,618.13	23.19	0.00	-79.39	5,253.59	2,120.22	6,953.75	6,934.31	19.44	357.750		
6,600.00	6,589.45	10,640.00	10,618.13	23.56	0.00	-79.39	5,253.59	2,120.22	6,893.51	6,873.63	19.88	346.741		
6,700.00	6,689.21	10,640.00	10,618.13	23.93	0.00	-79.39	5,253.59	2,120.22	6,834.20	6,813.88	20.33	336.186		
6,800.00	6,788.96	10,640.00	10,618.13	24.29	0.00	-79.39	5,253.59	2,120.22	6,775.86	6,755.08	20.78	326.065		
6,900.00	6,888.72	10,640.00	10,618.13	24.66	0.00	-79.39	5,253.59	2,120.22	6,718.49	6,697.26	21.24	316.361		
7,000.00	6,988.48	10,640.00	10,618.13	25.03	0.00	-79.39	5,253.59	2,120.22	6,662.13	6,640.44	21.70	307.057		
7,100.00	7,088.23	10,640.00	10,618.13	25.40	0.00	-79.39	5,253.59	2,120.22	6,606.81	6,584.65	22.16	298.135		
7,200.00	7,187.99	10,640.00	10,618.13	25.77	0.00	-79.39	5,253.59	2,120.22	6,552.54	6,529.91	22.63	289.580		
7,300.00	7,287.75	10,640.00	10,618.13	26.14	0.00	-79.39	5,253.59	2,120.22	6,499.36	6,476.26	23.10	281.378		
7,400.00	7,387.50	10,640.00	10,618.13	26.50	0.00	-79.39	5,253.59	2,120.22	6,447.29	6,423.72	23.57	273.514		
7,500.00	7,487.26	10,640.00	10,618.13	26.87	0.00	-79.39	5,253.59	2,120.22	6,396.36	6,372.32	24.05	265.976		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
7,600.00	7,587.02	10,640.00	10,618.13	27.24	0.00	-79.39	5,253.59	2,120.22	6,346.60	6,322.07	24.53	258.751		
7,700.00	7,686.77	10,640.00	10,618.13	27.61	0.00	-79.39	5,253.59	2,120.22	6,298.04	6,273.03	25.01	251.828		
7,800.00	7,786.53	10,640.00	10,618.13	27.98	0.00	-79.39	5,253.59	2,120.22	6,250.69	6,225.20	25.49	245.194		
7,900.00	7,886.29	10,640.00	10,618.13	28.35	0.00	-79.39	5,253.59	2,120.22	6,204.60	6,178.62	25.98	238.839		
8,000.00	7,986.04	10,640.00	10,618.13	28.72	0.00	-79.39	5,253.59	2,120.22	6,159.78	6,133.32	26.46	232.753		
8,100.00	8,085.80	10,640.00	10,618.13	29.09	0.00	-79.39	5,253.59	2,120.22	6,116.27	6,089.32	26.95	226.926		
8,200.00	8,185.56	10,640.00	10,618.13	29.46	0.00	-79.39	5,253.59	2,120.22	6,074.10	6,046.66	27.44	221.349		
8,300.00	8,285.31	10,640.00	10,618.13	29.83	0.00	-79.39	5,253.59	2,120.22	6,033.29	6,005.36	27.93	216.013		
8,400.00	8,385.07	10,640.00	10,618.13	30.20	0.00	-79.39	5,253.59	2,120.22	5,993.87	5,965.45	28.42	210.910		
8,500.00	8,484.83	10,640.00	10,618.13	30.56	0.00	-79.39	5,253.59	2,120.22	5,955.87	5,926.96	28.91	206.032		
8,600.00	8,584.58	10,640.00	10,618.13	30.93	0.00	-79.39	5,253.59	2,120.22	5,919.31	5,889.92	29.40	201.370		
8,700.00	8,684.34	10,640.00	10,618.13	31.30	0.00	-79.39	5,253.59	2,120.22	5,884.23	5,854.35	29.88	196.918		
8,800.00	8,784.10	10,640.00	10,618.13	31.67	0.00	-79.39	5,253.59	2,120.22	5,850.64	5,820.28	30.37	192.668		
8,900.00	8,883.85	10,640.00	10,618.13	32.04	0.00	-79.39	5,253.59	2,120.22	5,818.58	5,787.73	30.85	188.614		
9,000.00	8,983.61	10,640.00	10,618.13	32.41	0.00	-79.39	5,253.59	2,120.22	5,788.07	5,756.75	31.33	184.750		
9,100.00	9,083.37	10,640.00	10,618.13	32.78	0.00	-79.39	5,253.59	2,120.22	5,759.14	5,727.33	31.81	181.068		
9,200.00	9,183.12	10,640.00	10,618.13	33.15	0.00	-79.39	5,253.59	2,120.22	5,731.80	5,699.52	32.28	177.564		
9,300.00	9,282.88	10,640.00	10,618.13	33.52	0.00	-79.39	5,253.59	2,120.22	5,706.09	5,673.34	32.75	174.231		
9,400.00	9,382.64	10,640.00	10,618.13	33.89	0.00	-79.39	5,253.59	2,120.22	5,682.02	5,648.81	33.22	171.065		
9,428.07	9,410.64	10,640.00	10,618.13	33.99	0.00	-79.39	5,253.59	2,120.22	5,675.56	5,642.22	33.35	170.205		
9,500.00	9,482.43	10,640.00	10,618.13	34.26	0.00	-79.15	5,253.59	2,120.22	5,659.74	5,626.06	33.67	168.071		
9,600.00	9,582.36	10,640.00	10,618.13	34.62	0.00	-78.85	5,253.59	2,120.22	5,639.61	5,605.48	34.12	165.280		
9,694.65	9,677.00	10,640.00	10,618.13	34.95	0.00	16.88	5,253.59	2,120.22	5,622.58	5,588.05	34.53	162.843		
9,700.00	9,682.35	10,640.00	10,618.13	34.97	0.00	16.88	5,253.59	2,120.22	5,621.68	5,587.13	34.55	162.712		
9,800.00	9,782.35	10,640.00	10,618.13	35.31	0.00	16.88	5,253.59	2,120.22	5,605.71	5,570.74	34.96	160.326		
9,900.00	9,882.35	10,640.00	10,618.13	35.65	0.00	16.88	5,253.59	2,120.22	5,591.48	5,556.10	35.37	158.075		
10,000.00	9,982.35	10,640.00	10,618.13	35.99	0.00	16.88	5,253.59	2,120.22	5,579.00	5,543.23	35.77	155.953		
10,044.69	10,027.04	10,640.00	10,618.13	36.14	0.00	16.88	5,253.59	2,120.22	5,574.00	5,538.05	35.95	155.045		
10,050.00	10,032.35	10,640.00	10,618.13	36.16	0.00	17.32	5,253.59	2,120.22	5,573.40	5,537.43	35.97	154.938		
10,100.00	10,082.26	10,640.00	10,618.13	36.32	0.00	17.55	5,253.59	2,120.22	5,565.77	5,529.60	36.17	153.892		
10,150.00	10,131.76	10,640.00	10,618.13	36.49	0.00	17.91	5,253.59	2,120.22	5,554.49	5,518.13	36.36	152.781		
10,200.00	10,180.46	10,640.00	10,618.13	36.65	0.00	18.39	5,253.59	2,120.22	5,539.62	5,503.08	36.54	151.617		
10,250.00	10,227.98	10,640.00	10,618.13	36.81	0.00	19.02	5,253.59	2,120.22	5,521.25	5,484.54	36.71	150.411		
10,300.00	10,273.98	10,640.00	10,618.13	36.95	0.00	19.83	5,253.59	2,120.22	5,499.48	5,462.61	36.87	149.172		
10,350.00	10,318.11	10,640.00	10,618.13	37.09	0.00	20.84	5,253.59	2,120.22	5,474.44	5,437.43	37.01	147.907		
10,400.00	10,360.01	10,640.00	10,618.13	37.21	0.00	22.08	5,253.59	2,120.22	5,446.28	5,409.14	37.14	146.624		
10,450.00	10,399.38	10,640.00	10,618.13	37.32	0.00	23.63	5,253.59	2,120.22	5,415.16	5,377.90	37.26	145.328		
10,500.00	10,435.92	10,640.00	10,618.13	37.42	0.00	25.55	5,253.59	2,120.22	5,381.28	5,343.92	37.36	144.026		
10,550.00	10,469.35	10,640.00	10,618.13	37.51	0.00	27.94	5,253.59	2,120.22	5,344.84	5,307.39	37.45	142.720		
10,600.00	10,499.41	10,640.00	10,618.13	37.59	0.00	30.97	5,253.59	2,120.22	5,306.06	5,268.54	37.52	141.416		
10,650.00	10,525.87	10,650.00	10,628.11	37.66	1.16	34.93	5,253.22	2,120.63	5,265.18	5,227.58	37.60	140.017		
10,700.00	10,548.54	10,650.00	10,628.11	37.74	1.16	39.93	5,253.22	2,120.63	5,222.46	5,184.73	37.73	138.420		
10,750.00	10,567.24	10,650.00	10,628.11	37.84	1.16	46.43	5,253.22	2,120.63	5,178.21	5,140.38	37.83	136.888		
10,800.00	10,581.83	10,650.00	10,628.11	37.97	1.16	54.89	5,253.22	2,120.63	5,132.73	5,094.83	37.90	135.431		
10,850.00	10,592.19	10,658.44	10,636.55	38.11	1.16	65.91	5,253.02	2,120.86	5,086.31	5,048.40	37.91	134.169		
10,900.00	10,598.26	10,659.43	10,637.54	38.25	1.16	78.98	5,253.00	2,120.88	5,039.34	5,001.42	37.92	132.881		
10,944.69	10,600.00	10,659.62	10,637.73	38.39	1.16	91.69	5,253.00	2,120.88	4,997.16	4,959.24	37.92	131.787		
11,000.00	10,600.00	10,659.44	10,637.55	38.56	1.16	91.68	5,253.00	2,120.88	4,944.98	4,907.08	37.90	130.464		
11,100.00	10,600.00	10,659.10	10,637.21	38.91	1.16	91.67	5,253.01	2,120.87	4,850.83	4,812.94	37.88	128.055		
11,200.00	10,600.00	10,658.73	10,636.84	39.31	1.16	91.66	5,253.01	2,120.86	4,756.91	4,719.04	37.87	125.622		
11,300.00	10,600.00	10,658.35	10,636.46	39.76	1.16	91.65	5,253.02	2,120.85	4,663.24	4,625.38	37.86	123.163		
11,400.00	10,600.00	10,657.94	10,636.05	40.25	1.16	91.63	5,253.03	2,120.85	4,569.84	4,531.97	37.87	120.676		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 10640-													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		
11,500.00	10,600.00	10,650.00	10,628.11	40.79	1.16	91.36	5,253.22	2,120.63	4,476.75	4,438.83	37.92	118.056		
11,600.00	10,600.00	10,650.00	10,628.11	41.37	1.16	91.36	5,253.22	2,120.63	4,383.94	4,345.99	37.95	115.519		
11,700.00	10,600.00	10,650.00	10,628.11	41.99	1.16	91.36	5,253.22	2,120.63	4,291.45	4,253.45	37.99	112.950		
11,800.00	10,600.00	10,650.00	10,628.11	42.65	1.16	91.36	5,253.22	2,120.63	4,199.30	4,161.25	38.05	110.350		
11,900.00	10,600.00	10,650.00	10,628.11	43.35	1.16	91.36	5,253.22	2,120.63	4,107.52	4,069.39	38.13	107.716		
12,000.00	10,600.00	10,650.00	10,628.11	44.09	1.16	91.36	5,253.22	2,120.63	4,016.13	3,977.90	38.23	105.048		
12,100.00	10,600.00	10,650.00	10,628.11	44.86	1.16	91.36	5,253.22	2,120.63	3,925.17	3,886.81	38.35	102.345		
12,200.00	10,600.00	10,650.00	10,628.11	45.67	1.16	91.36	5,253.22	2,120.63	3,834.65	3,796.15	38.50	99.607		
12,300.00	10,600.00	10,650.00	10,628.11	46.50	1.16	91.36	5,253.22	2,120.63	3,744.61	3,705.94	38.67	96.832		
12,400.00	10,600.00	10,650.00	10,628.11	47.37	1.16	91.36	5,253.22	2,120.63	3,655.10	3,616.22	38.88	94.021		
12,500.00	10,600.00	10,650.00	10,628.11	48.26	1.16	91.36	5,253.22	2,120.63	3,566.14	3,527.02	39.11	91.174		
12,600.00	10,600.00	10,650.00	10,628.11	49.18	1.16	91.36	5,253.22	2,120.63	3,477.78	3,438.39	39.39	88.291		
12,700.00	10,600.00	10,650.00	10,628.11	50.13	1.16	91.36	5,253.22	2,120.63	3,390.07	3,350.36	39.71	85.374		
12,800.00	10,600.00	10,647.33	10,625.45	51.10	0.85	91.26	5,253.31	2,120.54	3,303.05	3,262.96	40.08	82.402		
12,900.00	10,600.00	10,645.90	10,624.02	52.09	0.69	91.21	5,253.36	2,120.48	3,216.79	3,176.27	40.52	79.397		
13,000.00	10,600.00	10,644.28	10,622.40	53.10	0.50	91.16	5,253.42	2,120.42	3,131.34	3,090.33	41.01	76.356		
13,100.00	10,600.00	10,642.45	10,620.57	54.14	0.28	91.09	5,253.49	2,120.34	3,046.78	3,005.21	41.57	73.298		
13,200.00	10,600.00	10,640.00	10,618.13	55.19	0.00	91.01	5,253.59	2,120.22	2,963.17	2,920.99	42.18	70.243		
13,300.00	10,600.00	10,640.00	10,618.13	56.26	0.00	91.01	5,253.59	2,120.22	2,880.61	2,837.72	42.89	67.169		
13,400.00	10,600.00	10,640.00	10,618.13	57.35	0.00	91.01	5,253.59	2,120.22	2,799.18	2,755.52	43.67	64.100		
13,500.00	10,600.00	10,640.00	10,618.13	58.45	0.00	91.01	5,253.59	2,120.22	2,719.00	2,674.46	44.54	61.048		
13,600.00	10,600.00	10,640.00	10,618.13	59.57	0.00	91.01	5,253.59	2,120.22	2,640.17	2,594.66	45.50	58.021		
13,700.00	10,600.00	10,640.00	10,618.13	60.71	0.00	91.01	5,253.59	2,120.22	2,562.81	2,516.25	46.57	55.033		
13,800.00	10,600.00	10,640.00	10,618.13	61.85	0.00	91.01	5,253.59	2,120.22	2,487.08	2,439.33	47.74	52.094		
13,900.00	10,600.00	10,640.00	10,618.13	63.01	0.00	91.01	5,253.59	2,120.22	2,413.10	2,364.08	49.03	49.219		
14,000.00	10,600.00	10,640.00	10,618.13	64.18	0.00	91.01	5,253.59	2,120.22	2,341.07	2,290.64	50.43	46.420		
14,100.00	10,600.00	10,640.00	10,618.13	65.37	0.00	91.01	5,253.59	2,120.22	2,271.15	2,219.19	51.96	43.710		
14,200.00	10,600.00	10,640.00	10,618.13	66.56	0.00	91.01	5,253.59	2,120.22	2,203.56	2,149.94	53.61	41.102		
14,300.00	10,600.00	10,640.00	10,618.13	67.76	0.00	91.01	5,253.59	2,120.22	2,138.50	2,083.11	55.39	38.608		
14,400.00	10,600.00	10,640.00	10,618.13	68.98	0.00	91.01	5,253.59	2,120.22	2,076.22	2,018.93	57.29	36.239		
14,500.00	10,600.00	10,640.00	10,618.13	70.20	0.00	91.01	5,253.59	2,120.22	2,016.99	1,957.67	59.32	34.005		
14,600.00	10,600.00	10,640.00	10,618.13	71.43	0.00	91.01	5,253.59	2,120.22	1,961.06	1,899.61	61.45	31.914		
14,700.00	10,600.00	10,640.00	10,618.13	72.67	0.00	91.01	5,253.59	2,120.22	1,908.74	1,845.06	63.68	29.974		
14,800.00	10,600.00	10,640.00	10,618.13	73.92	0.00	91.01	5,253.59	2,120.22	1,860.33	1,794.34	65.99	28.191		
14,900.00	10,600.00	10,640.00	10,618.13	75.17	0.00	91.01	5,253.59	2,120.22	1,816.14	1,747.77	68.36	26.567		
15,000.00	10,600.00	10,640.00	10,618.13	76.44	0.00	91.01	5,253.59	2,120.22	1,776.48	1,705.72	70.76	25.105		
15,100.00	10,600.00	10,640.00	10,618.13	77.70	0.00	91.01	5,253.59	2,120.22	1,741.67	1,668.51	73.16	23.807		
15,200.00	10,600.00	10,640.00	10,618.13	78.98	0.00	91.01	5,253.59	2,120.22	1,712.00	1,636.48	75.52	22.671		
15,300.00	10,600.00	10,640.00	10,618.13	80.26	0.00	91.01	5,253.59	2,120.22	1,687.74	1,609.94	77.79	21.695		
15,400.00	10,600.00	10,640.00	10,618.13	81.55	0.00	91.01	5,253.59	2,120.22	1,669.13	1,589.18	79.95	20.877		
15,484.47	10,600.00	10,640.00	10,618.13	82.64	0.00	91.01	5,253.59	2,120.22	1,657.95	1,576.30	81.65	20.305 CC, ES, SF		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	16.89	5,302.03	1,610.31	5,541.19					
100.00	100.00	85.02	85.02	0.52	0.00	16.89	5,302.10	1,610.18	5,541.21	5,540.69	0.52	N/A		
200.00	200.00	181.34	181.34	0.70	0.00	16.89	5,302.36	1,609.71	5,541.32	5,540.62	0.70	7,890.138		
300.00	300.00	285.09	285.09	0.99	0.00	16.88	5,302.76	1,608.83	5,541.45	5,540.46	0.99	5,611.386		
400.00	400.00	393.04	393.02	1.31	0.00	16.87	5,302.98	1,607.91	5,541.39	5,540.08	1.31	4,232.359		
500.00	500.00	494.51	494.49	1.65	0.00	16.86	5,303.17	1,607.05	5,541.33	5,539.68	1.65	3,365.950		
600.00	600.00	601.48	601.46	1.99	0.00	16.85	5,303.36	1,605.86	5,541.17	5,539.18	1.99	2,783.380		
700.00	700.00	706.46	706.43	2.34	0.00	16.83	5,303.44	1,604.56	5,540.89	5,538.55	2.34	2,368.390		
800.00	800.00	803.09	803.06	2.69	0.00	16.82	5,303.44	1,603.66	5,540.61	5,537.92	2.69	2,059.101		
900.00	900.00	902.69	902.65	3.04	0.00	16.81	5,303.45	1,602.66	5,540.34	5,537.29	3.04	1,820.235		
1,000.00	1,000.00	997.89	997.84	3.40	0.00	16.80	5,303.61	1,601.66	5,540.19	5,536.79	3.40	1,630.493		
1,100.00	1,100.00	1,102.57	1,102.52	3.75	0.00	16.80	5,303.59	1,600.77	5,539.92	5,536.17	3.75	1,476.212		
1,200.00	1,200.00	1,203.81	1,203.76	4.11	0.00	16.79	5,303.54	1,600.21	5,539.72	5,535.61	4.11	1,348.405		
1,300.00	1,300.00	1,312.65	1,312.60	4.46	0.00	16.79	5,303.30	1,599.70	5,539.37	5,534.90	4.46	1,240.800		
1,400.00	1,400.00	1,401.25	1,401.20	4.82	0.00	16.78	5,303.12	1,599.31	5,539.04	5,534.22	4.82	1,149.000		
1,500.00	1,500.00	1,489.85	1,489.80	5.18	0.00	16.78	5,303.13	1,598.92	5,538.93	5,533.75	5.18	1,069.822		
1,506.10	1,506.10	1,495.25	1,495.20	5.20	0.00	16.78	5,303.14	1,598.89	5,538.93	5,533.73	5.20	1,065.343		
1,600.00	1,600.00	1,583.84	1,583.79	5.53	0.00	16.77	5,303.32	1,598.53	5,539.00	5,533.46	5.53	1,000.843		
1,700.00	1,700.00	1,670.87	1,670.81	5.89	0.00	16.77	5,303.52	1,598.40	5,539.19	5,533.29	5.89	940.215		
1,800.00	1,800.00	1,782.42	1,782.37	6.25	0.00	16.77	5,303.87	1,598.40	5,539.50	5,533.25	6.25	886.507		
1,900.00	1,900.00	1,870.81	1,870.75	6.61	0.00	16.77	5,304.06	1,598.40	5,539.69	5,533.09	6.61	838.581		
2,000.00	2,000.00	2,002.16	2,002.10	6.96	0.00	16.77	5,304.16	1,598.34	5,539.76	5,532.80	6.96	795.538		
2,100.00	2,099.99	2,103.78	2,103.72	7.31	0.00	-78.72	5,303.93	1,598.20	5,539.34	5,532.02	7.31	757.622		
2,200.00	2,199.96	2,196.79	2,196.74	7.65	0.00	-78.75	5,303.67	1,598.31	5,538.59	5,530.94	7.65	723.859		
2,300.00	2,299.86	2,279.55	2,279.50	7.99	0.00	-78.80	5,303.66	1,598.43	5,537.77	5,529.77	7.99	692.758		
2,399.87	2,399.54	2,373.02	2,372.97	8.34	0.00	-78.86	5,303.81	1,598.68	5,536.82	5,528.48	8.34	664.036		
2,500.00	2,499.43	2,475.41	2,475.35	8.69	0.00	-78.93	5,304.00	1,599.09	5,535.76	5,527.07	8.69	637.337		
2,600.00	2,599.19	2,582.87	2,582.81	9.03	0.00	-79.00	5,304.04	1,599.36	5,534.52	5,525.49	9.03	612.578		
2,700.00	2,698.94	2,664.89	2,664.83	9.39	0.00	-79.06	5,304.16	1,599.54	5,533.42	5,524.03	9.39	589.568		
2,800.00	2,798.70	2,737.01	2,736.94	9.74	0.00	-79.11	5,304.58	1,599.94	5,532.79	5,523.05	9.74	568.186		
2,895.67	2,894.14	2,810.72	2,810.65	10.08	0.00	-79.16	5,305.27	1,600.60	5,532.63	5,522.55	10.08	549.106		
2,900.00	2,898.46	2,814.22	2,814.15	10.09	0.00	-79.16	5,305.31	1,600.64	5,532.63	5,522.54	10.09	548.274		
3,000.00	2,998.21	2,913.30	2,913.22	10.45	0.00	-79.22	5,306.38	1,601.80	5,532.69	5,522.24	10.45	529.656		
3,100.00	3,097.97	3,038.22	3,038.13	10.80	0.00	-79.30	5,307.46	1,603.05	5,532.50	5,521.70	10.80	512.171		
3,200.00	3,197.73	3,140.30	3,140.21	11.16	0.00	-79.37	5,308.14	1,603.72	5,532.03	5,520.87	11.16	495.746		
3,300.00	3,297.48	3,234.72	3,234.62	11.52	0.00	-79.43	5,308.92	1,604.29	5,531.70	5,520.18	11.52	480.317		
3,400.00	3,397.24	3,348.41	3,348.31	11.88	0.00	-79.51	5,309.72	1,604.58	5,531.16	5,519.29	11.88	465.763		
3,500.00	3,497.00	3,470.68	3,470.57	12.24	0.00	-79.60	5,310.42	1,604.72	5,530.50	5,518.26	12.23	452.028		
3,600.00	3,596.75	3,571.60	3,571.49	12.60	0.00	-79.67	5,310.64	1,604.72	5,529.45	5,516.85	12.59	439.023		
3,700.00	3,696.51	3,670.30	3,670.20	12.96	0.00	-79.74	5,310.90	1,604.79	5,528.48	5,515.52	12.96	426.726		
3,800.00	3,796.27	3,764.48	3,764.37	13.32	0.00	-79.80	5,311.12	1,605.16	5,527.56	5,514.24	13.32	415.080		
3,900.00	3,896.02	3,849.64	3,849.53	13.68	0.00	-79.86	5,311.28	1,606.17	5,526.83	5,513.15	13.68	404.047		
4,000.00	3,995.78	3,939.90	3,939.76	14.04	0.00	-79.90	5,311.41	1,608.21	5,526.35	5,512.31	14.04	393.589		
4,100.00	4,095.54	4,031.57	4,031.37	14.40	0.00	-79.93	5,311.30	1,611.61	5,526.02	5,511.61	14.40	383.655		
4,174.30	4,169.66	4,091.75	4,091.48	14.67	0.00	-79.95	5,311.17	1,614.46	5,525.90	5,511.23	14.67	376.596		
4,200.00	4,195.29	4,110.84	4,110.55	14.77	0.00	-79.95	5,311.14	1,615.48	5,525.92	5,511.15	14.77	374.219		
4,300.00	4,295.05	4,183.70	4,183.26	15.13	0.00	-79.96	5,311.08	1,619.97	5,526.27	5,511.14	15.13	365.265		
4,400.00	4,394.81	4,247.01	4,246.41	15.49	0.00	-79.96	5,311.19	1,624.45	5,527.15	5,511.66	15.49	356.772		
4,500.00	4,494.56	4,315.02	4,314.20	15.86	0.00	-79.95	5,311.58	1,629.89	5,528.65	5,512.80	15.85	348.707		
4,600.00	4,594.32	4,443.74	4,442.36	16.22	0.00	-79.93	5,312.31	1,641.81	5,530.53	5,514.31	16.22	340.956		
4,700.00	4,694.08	4,601.99	4,601.87	16.59	0.00	-79.88	5,311.01	1,657.14	5,530.99	5,514.40	16.59	333.448		
4,800.00	4,793.83	4,693.26	4,690.77	16.95	0.00	-79.86	5,310.21	1,665.30	5,531.33	5,514.38	16.95	326.290		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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	4,893.59	4,778.85	4,776.06	17.32	0.00	-79.85	5,309.83	1,672.37	5,531.89	5,514.58	17.32	319.446		
5,000.00	4,993.35	4,874.99	4,871.86	17.68	0.00	-79.84	5,309.53	1,680.60	5,532.67	5,514.99	17.68	312.888		
5,100.00	5,093.10	4,990.07	4,986.51	18.05	0.00	-79.82	5,309.05	1,690.39	5,533.34	5,515.29	18.05	306.577		
5,200.00	5,192.86	5,091.58	5,087.66	18.42	0.00	-79.81	5,308.45	1,698.89	5,533.80	5,515.39	18.41	300.508		
5,300.00	5,292.62	5,207.11	5,202.87	18.78	0.00	-79.80	5,307.95	1,707.50	5,534.17	5,515.39	18.78	294.663		
5,400.00	5,392.37	5,324.58	5,320.10	19.15	0.00	-79.81	5,307.27	1,714.98	5,534.08	5,514.93	19.15	289.016		
5,435.11	5,427.40	5,352.76	5,348.22	19.28	0.00	-79.81	5,307.10	1,716.83	5,534.06	5,514.78	19.28	287.086		
5,500.00	5,492.13	5,400.00	5,395.34	19.52	0.00	-79.81	5,306.82	1,720.15	5,534.14	5,514.62	19.51	283.595		
5,600.00	5,591.89	5,458.94	5,454.09	19.88	0.00	-79.80	5,306.65	1,724.93	5,534.82	5,514.94	19.88	278.416		
5,700.00	5,691.64	5,543.61	5,538.39	20.25	0.00	-79.78	5,306.70	1,732.78	5,536.12	5,515.88	20.25	273.446		
5,800.00	5,791.40	5,639.24	5,633.59	20.62	0.00	-79.76	5,306.72	1,741.83	5,537.47	5,516.86	20.61	268.645		
5,900.00	5,891.16	5,759.60	5,753.43	20.98	0.00	-79.74	5,306.76	1,753.04	5,538.81	5,517.82	20.98	263.995		
6,000.00	5,990.91	5,857.08	5,850.52	21.35	0.00	-79.72	5,306.61	1,761.79	5,539.86	5,518.51	21.35	259.503		
6,100.00	6,090.67	5,966.21	5,959.23	21.72	0.00	-79.70	5,306.50	1,771.27	5,540.88	5,519.16	21.72	255.154		
6,200.00	6,190.42	6,067.02	6,059.70	22.09	0.00	-79.69	5,306.32	1,779.66	5,541.72	5,519.64	22.08	250.946		
6,300.00	6,290.18	6,132.84	6,125.26	22.45	0.00	-79.68	5,306.39	1,785.40	5,542.95	5,520.50	22.45	246.910		
6,400.00	6,389.94	6,226.66	6,218.69	22.82	0.00	-79.66	5,306.80	1,793.92	5,544.59	5,521.77	22.82	243.006		
6,500.00	6,489.69	6,344.07	6,335.68	23.19	0.00	-79.65	5,307.32	1,803.86	5,546.07	5,522.89	23.19	239.204		
6,600.00	6,589.45	6,435.36	6,426.60	23.56	0.00	-79.63	5,307.55	1,812.00	5,547.49	5,523.94	23.55	235.532		
6,700.00	6,689.21	6,542.88	6,533.67	23.93	0.00	-79.61	5,307.70	1,821.95	5,548.90	5,524.98	23.92	231.963		
6,800.00	6,788.96	6,652.78	6,643.12	24.29	0.00	-79.59	5,307.82	1,831.88	5,550.22	5,525.93	24.29	228.496		
6,900.00	6,888.72	6,771.79	6,761.69	24.66	0.00	-79.57	5,307.66	1,842.03	5,551.16	5,526.50	24.66	225.114		
7,000.00	6,988.48	6,850.81	6,840.44	25.03	0.00	-79.56	5,307.59	1,848.54	5,552.10	5,527.07	25.03	221.847		
7,100.00	7,088.23	6,925.34	6,914.65	25.40	0.00	-79.55	5,307.78	1,855.46	5,553.60	5,528.21	25.39	218.702		
7,200.00	7,187.99	7,033.10	7,021.96	25.77	0.00	-79.53	5,308.20	1,865.26	5,555.21	5,529.45	25.76	215.632		
7,300.00	7,287.75	7,150.21	7,138.63	26.14	0.00	-79.51	5,308.56	1,875.35	5,556.61	5,530.48	26.13	212.635		
7,400.00	7,387.50	7,240.65	7,228.75	26.50	0.00	-79.50	5,308.70	1,883.03	5,557.84	5,531.34	26.50	209.728		
7,500.00	7,487.26	7,350.26	7,337.87	26.87	0.00	-79.47	5,308.82	1,893.37	5,559.28	5,532.42	26.87	206.900		
7,600.00	7,587.02	7,460.78	7,447.93	27.24	0.00	-79.45	5,308.65	1,903.41	5,560.37	5,533.13	27.24	204.134		
7,700.00	7,686.77	7,569.10	7,555.84	27.61	0.00	-79.43	5,308.45	1,912.87	5,561.32	5,533.72	27.61	201.439		
7,800.00	7,786.53	7,634.09	7,620.55	27.98	0.00	-79.42	5,308.42	1,918.90	5,562.54	5,534.57	27.97	198.841		
7,900.00	7,886.29	7,764.47	7,750.26	28.35	0.00	-79.38	5,308.21	1,932.10	5,563.95	5,535.61	28.35	196.290		
8,000.00	7,986.04	7,893.45	7,878.68	28.72	0.00	-79.35	5,307.43	1,944.08	5,564.67	5,535.95	28.72	193.785		
8,100.00	8,085.80	8,039.81	8,024.47	29.09	0.00	-79.32	5,305.78	1,956.92	5,564.75	5,535.66	29.09	191.325		
8,157.88	8,143.54	8,076.18	8,060.69	29.30	0.00	-79.31	5,305.29	1,960.06	5,564.65	5,535.35	29.30	189.927		
8,200.00	8,185.56	8,104.22	8,088.62	29.46	0.00	-79.31	5,304.97	1,962.60	5,564.70	5,535.25	29.45	188.928		
8,300.00	8,285.31	8,193.47	8,177.47	29.83	0.00	-79.29	5,304.15	1,970.98	5,565.13	5,535.31	29.82	186.606		
8,400.00	8,385.07	8,331.42	8,314.84	30.20	0.00	-79.26	5,302.63	1,983.43	5,565.32	5,535.13	30.19	184.327		
8,500.00	8,484.83	8,444.23	8,427.25	30.56	0.00	-79.24	5,300.86	1,992.88	5,564.84	5,534.28	30.56	182.084		
8,600.00	8,584.58	8,527.87	8,510.55	30.93	0.00	-79.22	5,299.62	2,000.31	5,564.58	5,533.65	30.93	179.902		
8,700.00	8,684.34	8,657.76	8,639.89	31.30	0.00	-79.19	5,297.41	2,012.00	5,564.17	5,532.87	31.30	177.767		
8,800.00	8,784.10	8,785.97	8,767.60	31.67	0.00	-79.16	5,294.66	2,022.90	5,563.19	5,531.52	31.67	175.668		
8,900.00	8,883.85	8,884.50	8,865.79	32.04	0.00	-79.15	5,292.44	2,030.83	5,561.97	5,529.94	32.04	173.604		
9,000.00	8,983.61	8,941.44	8,922.54	32.41	0.00	-79.14	5,291.40	2,035.41	5,561.17	5,528.76	32.41	171.595		
9,046.87	9,030.36	8,967.82	8,948.82	32.58	0.00	-79.14	5,291.04	2,037.64	5,561.06	5,528.48	32.58	170.680		
9,100.00	9,083.37	9,010.83	8,991.67	32.78	0.00	-79.13	5,290.58	2,041.37	5,561.11	5,528.34	32.78	169.660		
9,200.00	9,183.12	9,124.25	9,104.68	33.15	0.00	-79.11	5,289.46	2,050.83	5,561.21	5,528.06	33.15	167.771		
9,300.00	9,282.88	9,229.46	9,209.59	33.52	0.00	-79.10	5,288.34	2,058.68	5,560.96	5,527.45	33.52	165.913		
9,400.00	9,382.64	9,326.46	9,306.36	33.89	0.00	-79.10	5,287.56	2,065.37	5,560.82	5,526.93	33.89	164.100		
9,428.07	9,410.64	9,355.03	9,334.86	33.99	0.00	-79.10	5,287.34	2,067.32	5,560.78	5,526.79	33.99	163.597		
9,500.00	9,482.43	9,479.13	9,458.69	34.26	0.00	-79.09	5,285.80	2,075.43	5,560.41	5,526.15	34.25	162.330		
9,600.00	9,582.36	9,607.37	9,586.67	34.62	0.00	-79.05	5,283.51	2,083.20	5,559.69	5,525.08	34.61	160.626		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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-GYRO													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		
9,694.65	9,677.00	9,737.23	9,716.36	34.95	0.00	16.49	5,280.92	2,089.29	5,558.92	5,523.98	34.94	159.102		
9,700.00	9,682.35	9,744.63	9,723.75	34.97	0.00	16.50	5,280.76	2,089.59	5,558.87	5,523.91	34.96	159.019		
9,800.00	9,782.35	9,832.96	9,811.99	35.31	0.00	16.54	5,278.97	2,093.14	5,558.06	5,522.77	35.30	157.462		
9,900.00	9,882.35	9,957.73	9,936.66	35.65	0.00	16.59	5,276.40	2,097.51	5,557.08	5,521.45	35.64	155.943		
10,000.00	9,982.35	10,070.86	10,049.72	35.99	0.00	16.63	5,273.88	2,100.88	5,555.79	5,519.82	35.97	154.439		
10,044.69	10,027.04	10,126.50	10,105.31	36.14	0.00	16.65	5,272.52	2,102.56	5,555.14	5,519.01	36.12	153.776		
10,050.00	10,032.35	10,137.17	10,115.97	36.16	0.00	17.08	5,272.24	2,102.88	5,555.03	5,518.88	36.14	153.699		
10,100.00	10,082.26	10,225.24	10,203.96	36.32	0.00	17.23	5,269.57	2,105.39	5,551.44	5,515.14	36.31	152.908		
10,150.00	10,131.76	10,281.94	10,260.61	36.49	0.00	17.52	5,267.66	2,106.90	5,543.55	5,507.08	36.47	152.002		
10,200.00	10,180.46	10,333.30	10,311.93	36.65	0.00	17.95	5,265.88	2,108.23	5,531.54	5,494.91	36.63	151.011		
10,250.00	10,227.98	10,380.54	10,359.12	36.81	0.00	18.55	5,264.23	2,109.51	5,515.55	5,478.77	36.78	149.950		
10,300.00	10,273.98	10,429.00	10,407.52	36.95	0.00	19.34	5,262.48	2,110.94	5,495.69	5,458.77	36.93	148.834		
10,350.00	10,318.11	10,476.86	10,455.32	37.09	0.00	20.37	5,260.62	2,112.68	5,472.11	5,435.05	37.06	147.670		
10,400.00	10,360.01	10,520.04	10,498.42	37.21	0.00	21.66	5,258.82	2,114.51	5,444.99	5,407.82	37.18	146.467		
10,450.00	10,399.38	10,559.29	10,537.59	37.32	0.00	23.27	5,257.14	2,116.31	5,414.57	5,377.29	37.28	145.233		
10,500.00	10,435.92	10,577.02	10,555.29	37.42	0.00	25.21	5,256.36	2,117.16	5,381.12	5,343.74	37.38	143.963		
10,550.00	10,469.35	10,600.00	10,578.23	37.51	0.00	27.67	5,255.49	2,118.17	5,344.99	5,307.53	37.46	142.689		
10,600.00	10,499.41	10,600.00	10,578.23	37.59	0.00	30.62	5,255.49	2,118.17	5,306.42	5,268.89	37.53	141.393		
10,650.00	10,525.87	10,600.00	10,578.23	37.66	0.00	34.38	5,255.49	2,118.17	5,265.75	5,228.17	37.59	140.101		
10,700.00	10,548.54	10,618.64	10,596.85	37.74	0.00	39.48	5,254.98	2,118.84	5,223.13	5,185.51	37.62	138.825		
10,750.00	10,567.24	10,624.66	10,602.87	37.84	0.00	45.96	5,254.86	2,119.02	5,178.98	5,141.33	37.65	137.550		
10,800.00	10,581.83	10,629.37	10,607.57	37.97	0.00	54.40	5,254.78	2,119.15	5,133.56	5,095.89	37.67	136.285		
10,850.00	10,592.19	10,632.69	10,610.88	38.11	0.00	65.16	5,254.72	2,119.24	5,087.20	5,049.53	37.67	135.032		
10,900.00	10,598.26	10,634.55	10,612.75	38.25	0.00	78.14	5,254.70	2,119.29	5,040.25	5,002.58	37.67	133.792		
10,944.69	10,600.00	10,634.94	10,613.14	38.39	0.00	90.84	5,254.69	2,119.30	4,998.07	4,960.41	37.67	132.697		
11,000.00	10,600.00	10,634.67	10,612.87	38.56	0.00	90.83	5,254.69	2,119.29	4,945.89	4,908.23	37.66	131.347		
11,100.00	10,600.00	10,634.16	10,612.36	38.91	0.00	90.81	5,254.70	2,119.28	4,851.71	4,814.07	37.64	128.889		
11,200.00	10,600.00	10,633.63	10,611.83	39.31	0.00	90.79	5,254.71	2,119.27	4,757.78	4,720.14	37.64	126.406		
11,300.00	10,600.00	10,633.07	10,611.27	39.76	0.00	90.77	5,254.72	2,119.25	4,664.09	4,626.44	37.64	123.897		
11,400.00	10,600.00	10,632.50	10,610.70	40.25	0.00	90.75	5,254.73	2,119.24	4,570.67	4,533.01	37.66	121.361		
11,500.00	10,600.00	10,631.90	10,610.10	40.79	0.00	90.73	5,254.74	2,119.22	4,477.54	4,439.85	37.69	118.797		
11,600.00	10,600.00	10,631.28	10,609.48	41.37	0.00	90.71	5,254.74	2,119.21	4,384.70	4,346.97	37.73	116.202		
11,700.00	10,600.00	10,630.62	10,608.83	41.99	0.00	90.69	5,254.76	2,119.19	4,292.19	4,254.40	37.79	113.577		
11,800.00	10,600.00	10,629.94	10,608.15	42.65	0.00	90.66	5,254.77	2,119.17	4,200.03	4,162.16	37.87	110.920		
11,900.00	10,600.00	10,629.23	10,607.44	43.35	0.00	90.64	5,254.78	2,119.15	4,108.22	4,070.27	37.96	108.229		
12,000.00	10,600.00	10,628.49	10,606.69	44.09	0.00	90.61	5,254.79	2,119.13	4,016.81	3,978.74	38.07	105.505		
12,100.00	10,600.00	10,627.71	10,605.91	44.86	0.00	90.58	5,254.80	2,119.11	3,925.82	3,887.61	38.21	102.745		
12,200.00	10,600.00	10,626.89	10,605.10	45.67	0.00	90.56	5,254.82	2,119.08	3,835.28	3,796.91	38.37	99.950		
12,300.00	10,600.00	10,626.04	10,604.24	46.50	0.00	90.53	5,254.83	2,119.06	3,745.21	3,706.65	38.56	97.120		
12,400.00	10,600.00	10,625.13	10,603.34	47.37	0.00	90.50	5,254.85	2,119.03	3,655.67	3,616.88	38.79	94.254		
12,500.00	10,600.00	10,624.19	10,602.39	48.26	0.00	90.46	5,254.87	2,119.01	3,566.68	3,527.63	39.04	91.353		
12,600.00	10,600.00	10,623.19	10,601.39	49.18	0.00	90.43	5,254.89	2,118.98	3,478.28	3,438.94	39.34	88.418		
12,700.00	10,600.00	10,622.13	10,600.34	50.13	0.00	90.39	5,254.91	2,118.94	3,390.53	3,350.86	39.68	85.451		
12,800.00	10,600.00	10,621.02	10,599.22	51.10	0.00	90.35	5,254.93	2,118.91	3,303.48	3,263.41	40.06	82.455		
12,900.00	10,600.00	10,619.84	10,598.04	52.09	0.00	90.31	5,254.96	2,118.87	3,217.18	3,176.67	40.50	79.432		
13,000.00	10,600.00	10,618.58	10,596.79	53.10	0.00	90.27	5,254.99	2,118.83	3,131.69	3,090.69	41.00	76.388		
13,100.00	10,600.00	10,617.26	10,595.46	54.14	0.00	90.22	5,255.02	2,118.79	3,047.08	3,005.53	41.56	73.326		
13,200.00	10,600.00	10,615.84	10,594.05	55.19	0.00	90.17	5,255.05	2,118.74	2,963.44	2,921.26	42.18	70.254		
13,300.00	10,600.00	10,614.33	10,592.54	56.26	0.00	90.12	5,255.08	2,118.69	2,880.83	2,837.95	42.88	67.180		
13,400.00	10,600.00	10,612.72	10,590.93	57.35	0.00	90.06	5,255.12	2,118.64	2,799.36	2,755.69	43.66	64.111		
13,500.00	10,600.00	10,610.99	10,589.21	58.45	0.00	90.00	5,255.17	2,118.58	2,719.12	2,674.59	44.53	61.057		
13,600.00	10,600.00	10,609.14	10,587.36	59.57	0.00	89.94	5,255.22	2,118.51	2,640.23	2,594.74	45.50	58.030		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - P3v1												Offset Site Error:	0.00 ft
Survey Program: 0-GYRO												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	10,607.15	10,585.36	60.71	0.00	89.87	5,255.27	2,118.44	2,562.82	2,516.25	46.56	55.040	
13,800.00	10,600.00	10,604.99	10,583.21	61.85	0.00	89.80	5,255.34	2,118.36	2,487.01	2,439.27	47.73	52.101	
13,900.00	10,600.00	10,602.66	10,580.88	63.01	0.00	89.71	5,255.41	2,118.27	2,412.96	2,363.94	49.02	49.224	
14,000.00	10,600.00	10,600.00	10,578.23	64.18	0.00	89.62	5,255.49	2,118.17	2,340.84	2,290.42	50.42	46.423	
14,100.00	10,600.00	10,597.36	10,575.59	65.37	0.00	89.53	5,255.58	2,118.07	2,270.83	2,218.88	51.95	43.711	
14,200.00	10,600.00	10,594.34	10,572.58	66.56	0.00	89.42	5,255.68	2,117.94	2,203.13	2,149.53	53.60	41.100	
14,300.00	10,600.00	10,591.02	10,569.26	67.76	0.00	89.31	5,255.80	2,117.80	2,137.96	2,082.58	55.38	38.604	
14,400.00	10,600.00	10,587.35	10,566.60	68.98	0.00	89.18	5,255.94	2,117.64	2,075.56	2,018.27	57.29	36.232	
14,500.00	10,600.00	10,583.28	10,561.53	70.20	0.00	89.04	5,256.10	2,117.46	2,016.18	1,956.87	59.31	33.995	
14,600.00	10,600.00	10,578.73	10,556.99	71.43	0.00	88.88	5,256.29	2,117.24	1,960.10	1,898.66	61.44	31.901	
14,700.00	10,600.00	10,574.38	10,552.65	72.67	0.00	88.73	5,256.48	2,117.03	1,907.60	1,843.93	63.68	29.957	
14,800.00	10,600.00	10,570.34	10,548.62	73.92	0.00	88.59	5,256.66	2,116.84	1,859.00	1,793.01	65.99	28.170	
14,900.00	10,600.00	10,566.33	10,544.62	75.17	0.00	88.45	5,256.83	2,116.64	1,814.60	1,746.23	68.37	26.542	
15,000.00	10,600.00	10,562.33	10,540.63	76.44	0.00	88.31	5,257.01	2,116.45	1,774.72	1,703.94	70.77	25.076	
15,100.00	10,600.00	10,558.36	10,536.67	77.70	0.00	88.17	5,257.18	2,116.27	1,739.67	1,666.49	73.18	23.772	
15,200.00	10,600.00	10,554.41	10,532.73	78.98	0.00	88.04	5,257.35	2,116.08	1,709.75	1,634.20	75.55	22.631	
15,300.00	10,600.00	10,550.49	10,528.81	80.26	0.00	87.90	5,257.52	2,115.90	1,685.23	1,607.39	77.84	21.651	
15,400.00	10,600.00	10,546.58	10,524.91	81.55	0.00	87.76	5,257.69	2,115.72	1,666.35	1,586.34	80.01	20.827	
15,484.47	10,600.00	10,543.29	10,521.63	82.64	0.00	87.65	5,257.83	2,115.56	1,654.94	1,573.21	81.72	20.251	CC, ES, 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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Plan 4		Offset Site Error:		0.00 ft	
Survey Program: 166-MWD+IGRF, 15156-													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	16.89	5,302.03	1,610.31	5,541.19									
100.00	100.00	85.02	85.02	0.52	0.13	16.89	5,302.10	1,610.18	5,541.21	5,540.56	0.65	8,560.928						
200.00	200.00	181.34	181.34	0.70	0.31	16.89	5,302.36	1,609.71	5,541.32	5,540.31	1.01	5,486.390						
300.00	300.00	285.10	285.09	0.99	0.68	16.88	5,302.76	1,608.83	5,541.45	5,539.78	1.67	3,323.366						
400.00	400.00	393.04	393.02	1.31	1.07	16.87	5,302.98	1,607.91	5,541.39	5,539.01	2.38	2,332.136						
500.00	500.00	494.51	494.49	1.65	1.43	16.86	5,303.17	1,607.05	5,541.33	5,538.25	3.08	1,800.919						
600.00	600.00	601.48	601.46	1.99	1.81	16.85	5,303.36	1,605.86	5,541.17	5,537.36	3.81	1,456.205						
700.00	700.00	706.46	706.43	2.34	2.19	16.83	5,303.44	1,604.56	5,540.89	5,536.36	4.53	1,223.067						
800.00	800.00	803.09	803.06	2.69	2.54	16.82	5,303.44	1,603.66	5,540.61	5,535.39	5.23	1,059.833						
900.00	900.00	902.69	902.65	3.04	2.90	16.81	5,303.45	1,602.66	5,540.34	5,534.40	5.94	933.058						
1,000.00	1,000.00	997.89	997.84	3.40	3.24	16.80	5,303.61	1,601.66	5,540.19	5,533.55	6.63	835.199						
1,100.00	1,100.00	1,102.57	1,102.52	3.75	3.61	16.80	5,303.59	1,600.77	5,539.92	5,532.56	7.36	752.364						
1,200.00	1,200.00	1,203.81	1,203.76	4.11	3.97	16.79	5,303.54	1,600.21	5,539.71	5,531.64	8.08	685.617						
1,300.00	1,300.00	1,313.28	1,313.23	4.46	4.36	16.79	5,303.30	1,599.69	5,539.36	5,530.54	8.83	627.665						
1,400.00	1,400.00	1,398.79	1,398.73	4.82	4.65	16.78	5,303.11	1,599.43	5,539.07	5,529.59	9.47	584.674						
1,469.84	1,469.84	1,458.99	1,458.94	5.07	4.86	16.78	5,303.07	1,599.37	5,539.01	5,529.08	9.93	557.875						
1,500.00	1,500.00	1,484.99	1,484.94	5.18	4.95	16.78	5,303.08	1,599.38	5,539.02	5,528.89	10.13	547.049						
1,600.00	1,600.00	1,583.84	1,583.79	5.53	5.29	16.78	5,303.25	1,599.20	5,539.13	5,528.30	10.83	511.585						
1,700.00	1,700.00	1,670.86	1,670.81	5.89	5.60	16.78	5,303.46	1,599.06	5,539.32	5,527.83	11.49	482.082						
1,800.00	1,800.00	1,782.42	1,782.37	6.25	5.99	16.78	5,303.81	1,599.07	5,539.63	5,527.39	12.24	452.680						
1,900.00	1,900.00	1,870.80	1,870.75	6.61	6.30	16.78	5,303.99	1,599.06	5,539.83	5,526.92	12.90	429.330						
2,000.00	2,000.00	2,002.16	2,002.11	6.96	6.76	16.78	5,304.10	1,599.01	5,539.89	5,526.18	13.72	403.857						
2,100.00	2,099.99	2,103.78	2,103.72	7.31	7.11	-78.71	5,303.87	1,598.87	5,539.47	5,525.05	14.42	384.214						
2,200.00	2,199.96	2,196.79	2,196.73	7.65	7.42	-78.74	5,303.60	1,598.97	5,538.72	5,523.64	15.07	367.425						
2,300.00	2,299.86	2,279.55	2,279.50	7.99	7.70	-78.79	5,303.59	1,599.10	5,537.90	5,522.20	15.70	352.822						
2,399.87	2,399.54	2,373.02	2,372.96	8.34	8.02	-78.85	5,303.75	1,599.34	5,536.95	5,520.59	16.36	338.510						
2,500.00	2,499.43	2,475.40	2,475.35	8.69	8.37	-78.92	5,303.93	1,599.76	5,535.89	5,518.84	17.05	324.661						
2,600.00	2,599.19	2,582.87	2,582.81	9.03	8.73	-79.00	5,303.97	1,600.02	5,534.65	5,516.89	17.77	311.544						
2,700.00	2,698.94	2,664.88	2,664.82	9.39	9.01	-79.05	5,304.10	1,600.20	5,533.54	5,515.15	18.40	300.793						
2,800.00	2,798.70	2,737.00	2,736.94	9.74	9.26	-79.10	5,304.52	1,600.60	5,532.92	5,513.92	19.00	291.252						
2,895.88	2,894.35	2,810.88	2,810.82	10.08	9.52	-79.15	5,305.21	1,601.26	5,532.76	5,513.16	19.59	282.413						
2,900.00	2,898.46	2,814.22	2,814.15	10.09	9.53	-79.15	5,305.25	1,601.30	5,532.76	5,513.14	19.62	282.038						
3,000.00	2,998.21	2,913.29	2,913.21	10.45	9.87	-79.21	5,306.32	1,602.46	5,532.81	5,512.50	20.31	272.353						
3,100.00	3,097.97	3,038.21	3,038.12	10.80	10.30	-79.29	5,307.40	1,603.72	5,532.62	5,511.52	21.11	262.147						
3,200.00	3,197.73	3,140.30	3,140.20	11.16	10.66	-79.36	5,308.08	1,604.39	5,532.15	5,510.33	21.82	253.561						
3,300.00	3,297.48	3,234.72	3,234.62	11.52	10.99	-79.42	5,308.85	1,604.95	5,531.82	5,509.31	22.51	245.794						
3,400.00	3,397.24	3,348.41	3,348.31	11.88	11.39	-79.50	5,309.66	1,605.25	5,531.28	5,508.02	23.26	237.753						
3,500.00	3,497.00	3,470.68	3,470.57	12.24	11.82	-79.59	5,310.35	1,605.38	5,530.62	5,506.56	24.06	229.903						
3,600.00	3,596.75	3,571.59	3,571.49	12.60	12.18	-79.66	5,310.57	1,605.38	5,529.57	5,504.79	24.77	223.206						
3,700.00	3,696.51	3,670.30	3,670.20	12.96	12.53	-79.73	5,310.84	1,605.45	5,528.60	5,503.11	25.48	216.953						
3,800.00	3,796.27	3,764.47	3,764.37	13.32	12.86	-79.80	5,311.05	1,605.83	5,527.68	5,501.51	26.17	211.188						
3,900.00	3,896.02	3,849.63	3,849.52	13.68	13.15	-79.85	5,311.21	1,606.83	5,526.95	5,500.12	26.83	205.986						
4,000.00	3,995.78	3,939.88	3,939.74	14.04	13.47	-79.89	5,311.34	1,608.87	5,526.47	5,498.96	27.51	200.913						
4,100.00	4,095.54	4,031.55	4,031.34	14.40	13.78	-79.92	5,311.24	1,612.27	5,526.13	5,497.94	28.19	196.050						
4,174.38	4,169.73	4,091.78	4,091.51	14.67	13.99	-79.94	5,311.11	1,615.12	5,526.02	5,497.35	28.67	192.769						
4,200.00	4,195.29	4,110.81	4,110.52	14.77	14.06	-79.94	5,311.08	1,616.15	5,526.03	5,497.21	28.83	191.706						
4,300.00	4,295.05	4,183.66	4,183.23	15.13	14.31	-79.95	5,311.02	1,620.63	5,526.39	5,496.95	29.44	187.705						
4,400.00	4,394.81	4,247.00	4,246.41	15.49	14.54	-79.95	5,311.13	1,625.11	5,527.27	5,497.25	30.02	184.092						
4,500.00	4,494.56	4,314.98	4,314.17	15.86	14.78	-79.94	5,311.51	1,630.55	5,528.77	5,498.14	30.62	180.534						
4,600.00	4,594.32	4,443.57	4,442.20	16.22	15.23	-79.92	5,312.24	1,642.46	5,530.64	5,499.20	31.45	175.873						
4,700.00	4,694.08	4,601.93	4,599.81	16.59	15.80	-79.87	5,310.95	1,657.80	5,531.11	5,498.73	32.38	170.818						
4,800.00	4,793.83	4,693.21	4,690.72	16.95	16.12	-79.86	5,310.15	1,665.96	5,531.45	5,498.37	33.07	167.257						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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	4,893.59	4,778.80	4,776.01	17.32	16.43	-79.84	5,309.76	1,673.03	5,532.01	5,498.27	33.74	163.943		
5,000.00	4,993.35	4,874.93	4,871.80	17.68	16.78	-79.83	5,309.46	1,681.26	5,532.79	5,498.33	34.46	160.579		
5,100.00	5,093.10	4,990.00	4,986.44	18.05	17.20	-79.81	5,308.98	1,691.05	5,533.45	5,498.22	35.24	157.029		
5,200.00	5,192.86	5,091.52	5,087.61	18.42	17.57	-79.80	5,308.39	1,699.55	5,533.92	5,497.95	35.97	153.835		
5,300.00	5,292.62	5,207.04	5,202.80	18.78	17.98	-79.79	5,307.89	1,708.16	5,534.29	5,497.53	36.76	150.557		
5,400.00	5,392.37	5,324.54	5,320.06	19.15	18.41	-79.80	5,307.21	1,715.64	5,534.20	5,496.65	37.55	147.378		
5,435.17	5,427.45	5,352.76	5,348.22	19.28	18.51	-79.80	5,307.03	1,717.49	5,534.17	5,496.39	37.78	146.476		
5,500.00	5,492.13	5,390.01	5,385.38	19.52	18.65	-79.80	5,306.81	1,720.09	5,534.27	5,496.12	38.15	145.052		
5,600.00	5,591.89	5,458.91	5,454.05	19.88	18.90	-79.80	5,306.59	1,725.59	5,534.94	5,496.17	38.77	142.761		
5,700.00	5,691.64	5,543.54	5,538.33	20.25	19.21	-79.78	5,306.63	1,733.44	5,536.24	5,496.79	39.45	140.343		
5,800.00	5,791.40	5,639.18	5,633.54	20.62	19.57	-79.75	5,306.66	1,742.49	5,537.59	5,497.42	40.17	137.859		
5,900.00	5,891.16	5,759.52	5,753.35	20.98	20.02	-79.73	5,306.69	1,753.70	5,538.92	5,497.94	40.98	135.148		
6,000.00	5,990.91	5,857.02	5,850.46	21.35	20.38	-79.71	5,306.55	1,762.45	5,539.97	5,498.26	41.71	132.810		
6,100.00	6,090.67	5,966.14	5,959.17	21.72	20.79	-79.69	5,306.44	1,771.93	5,541.00	5,498.51	42.49	130.416		
6,200.00	6,190.42	6,066.99	6,059.66	22.09	21.16	-79.68	5,306.26	1,780.32	5,541.84	5,498.61	43.23	128.197		
6,300.00	6,290.18	6,132.80	6,125.22	22.45	21.41	-79.67	5,306.33	1,786.06	5,543.07	5,499.23	43.84	126.442		
6,400.00	6,389.94	6,226.60	6,218.63	22.82	21.76	-79.65	5,306.74	1,794.58	5,544.71	5,500.15	44.56	124.442		
6,500.00	6,489.69	6,347.38	6,338.98	23.19	22.21	-79.64	5,307.27	1,804.78	5,546.19	5,500.81	45.38	122.223		
6,600.00	6,589.45	6,435.29	6,426.54	23.56	22.54	-79.62	5,307.48	1,812.66	5,547.61	5,501.54	46.07	120.407		
6,700.00	6,689.21	6,542.82	6,533.61	23.93	22.95	-79.60	5,307.64	1,822.61	5,549.02	5,502.17	46.85	118.447		
6,800.00	6,788.96	6,652.71	6,643.04	24.29	23.36	-79.58	5,307.75	1,832.53	5,550.34	5,502.71	47.63	116.528		
6,900.00	6,888.72	6,771.73	6,761.64	24.66	23.81	-79.56	5,307.60	1,842.69	5,551.28	5,502.83	48.45	114.582		
7,000.00	6,988.48	6,850.77	6,840.40	25.03	24.11	-79.55	5,307.53	1,849.20	5,552.22	5,503.11	49.11	113.052		
7,100.00	7,088.23	6,925.27	6,914.59	25.40	24.39	-79.54	5,307.72	1,856.12	5,553.72	5,503.96	49.76	111.613		
7,200.00	7,187.99	7,033.04	7,021.90	25.77	24.80	-79.52	5,308.14	1,865.92	5,555.33	5,504.80	50.54	109.927		
7,300.00	7,287.75	7,150.14	7,138.57	26.14	25.25	-79.50	5,308.50	1,876.01	5,556.73	5,505.38	51.35	108.215		
7,400.00	7,387.50	7,240.60	7,228.70	26.50	25.59	-79.49	5,308.64	1,883.69	5,557.96	5,505.90	52.06	106.763		
7,500.00	7,487.26	7,350.18	7,337.79	26.87	26.01	-79.47	5,308.76	1,894.03	5,559.41	5,506.56	52.85	105.201		
7,600.00	7,587.02	7,460.72	7,447.87	27.24	26.43	-79.44	5,308.59	1,904.07	5,560.49	5,506.85	53.64	103.670		
7,700.00	7,686.77	7,569.04	7,555.78	27.61	26.84	-79.43	5,308.39	1,913.53	5,561.45	5,507.03	54.42	102.200		
7,800.00	7,786.53	7,634.04	7,620.50	27.98	27.09	-79.41	5,308.35	1,919.56	5,562.66	5,507.63	55.03	101.082		
7,900.00	7,886.29	7,768.39	7,754.16	28.35	27.61	-79.37	5,308.12	1,933.14	5,564.07	5,508.15	55.92	99.498		
8,000.00	7,986.04	7,893.38	7,878.61	28.72	28.09	-79.34	5,307.37	1,944.73	5,564.79	5,508.02	56.77	98.022		
8,100.00	8,085.80	8,039.73	8,024.39	29.09	28.65	-79.32	5,305.71	1,957.57	5,564.87	5,507.17	57.70	96.446		
8,157.89	8,143.55	8,076.14	8,060.65	29.30	28.79	-79.31	5,305.23	1,960.72	5,564.77	5,506.72	58.05	95.858		
8,200.00	8,185.56	8,104.17	8,088.57	29.46	28.90	-79.30	5,304.91	1,963.25	5,564.82	5,506.51	58.31	95.427		
8,300.00	8,285.31	8,193.40	8,177.40	29.83	29.24	-79.28	5,304.09	1,971.64	5,565.25	5,506.23	59.03	94.284		
8,400.00	8,385.07	8,332.98	8,316.40	30.20	29.78	-79.25	5,302.55	1,984.23	5,565.44	5,505.51	59.93	92.862		
8,500.00	8,484.83	8,444.19	8,427.20	30.56	30.20	-79.23	5,300.80	1,993.53	5,564.96	5,504.24	60.73	91.640		
8,600.00	8,584.58	8,527.80	8,510.48	30.93	30.53	-79.21	5,299.55	2,000.97	5,564.70	5,503.29	61.42	90.606		
8,700.00	8,684.34	8,657.68	8,639.81	31.30	31.03	-79.18	5,297.35	2,012.66	5,564.30	5,502.01	62.28	89.336		
8,800.00	8,784.10	8,785.90	8,767.54	31.67	31.52	-79.16	5,294.60	2,023.56	5,563.31	5,500.17	63.14	88.105		
8,900.00	8,883.85	8,884.45	8,865.74	32.04	31.89	-79.14	5,292.38	2,031.49	5,562.10	5,498.21	63.89	87.058		
9,000.00	8,983.61	8,941.40	8,922.50	32.41	32.11	-79.13	5,291.33	2,036.07	5,561.29	5,496.82	64.48	86.249		
9,042.87	9,026.38	8,965.54	8,946.55	32.57	32.20	-79.13	5,291.00	2,038.11	5,561.19	5,496.46	64.73	85.913		
9,100.00	9,083.37	9,010.77	8,991.61	32.78	32.38	-79.12	5,290.52	2,042.03	5,561.24	5,496.13	65.11	85.407		
9,200.00	9,183.12	9,124.18	9,104.62	33.15	32.81	-79.10	5,289.40	2,051.49	5,561.33	5,495.41	65.92	84.367		
9,300.00	9,282.88	9,229.41	9,209.55	33.52	33.21	-79.10	5,288.27	2,059.34	5,561.09	5,494.40	66.69	83.391		
9,400.00	9,382.64	9,326.41	9,306.31	33.89	33.58	-79.10	5,287.50	2,066.03	5,560.94	5,493.52	67.42	82.480		
9,428.07	9,410.64	9,354.98	9,334.81	33.99	33.68	-79.10	5,287.27	2,067.98	5,560.90	5,493.27	67.63	82.221		
9,500.00	9,482.43	9,479.08	9,458.64	34.26	34.15	-79.08	5,285.74	2,076.09	5,560.53	5,492.17	68.36	81.341		
9,600.00	9,582.36	9,607.32	9,586.62	34.62	34.63	-79.04	5,283.45	2,083.86	5,559.82	5,490.62	69.20	80.349		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 166-MWD+IGRF, 15156-													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		
9,694.65	9,677.00	9,737.20	9,716.33	34.95	35.10	16.50	5,280.86	2,089.95	5,559.05	5,489.05	70.00	79.419		
9,700.00	9,682.35	9,744.60	9,723.72	34.97	35.13	16.51	5,280.70	2,090.25	5,559.00	5,488.96	70.04	79.368		
9,800.00	9,782.35	9,832.92	9,811.95	35.31	35.45	16.55	5,278.91	2,093.80	5,558.19	5,487.49	70.70	78.613		
9,900.00	9,882.35	9,957.70	9,936.63	35.65	35.89	16.60	5,276.34	2,098.18	5,557.21	5,485.72	71.49	77.737		
10,000.00	9,982.35	10,070.84	10,049.69	35.99	36.30	16.64	5,273.81	2,101.54	5,555.92	5,483.69	72.23	76.921		
10,044.69	10,027.04	10,126.45	10,105.26	36.14	36.49	16.66	5,272.45	2,103.22	5,555.27	5,482.69	72.58	76.543		
10,050.00	10,032.35	10,137.12	10,115.93	36.16	36.53	17.09	5,272.17	2,103.54	5,555.15	5,482.52	72.63	76.484		
10,100.00	10,082.26	10,225.22	10,203.94	36.32	36.84	17.24	5,269.50	2,106.05	5,551.57	5,478.47	73.10	75.942		
10,150.00	10,131.76	10,281.92	10,260.59	36.49	37.04	17.52	5,267.60	2,107.56	5,543.68	5,470.22	73.47	75.458		
10,200.00	10,180.46	10,333.29	10,311.91	36.65	37.23	17.96	5,265.82	2,108.90	5,531.67	5,457.87	73.81	74.947		
10,250.00	10,227.98	10,380.53	10,359.11	36.81	37.39	18.55	5,264.16	2,110.17	5,515.68	5,441.55	74.13	74.408		
10,300.00	10,273.98	10,429.12	10,407.64	36.95	37.57	19.35	5,262.41	2,111.62	5,495.82	5,421.38	74.44	73.825		
10,350.00	10,318.11	10,476.87	10,455.32	37.09	37.74	20.37	5,260.55	2,113.36	5,472.24	5,397.50	74.75	73.212		
10,400.00	10,360.01	10,520.00	10,498.38	37.21	37.89	21.67	5,258.75	2,115.19	5,445.12	5,370.10	75.02	72.582		
10,450.00	10,399.38	10,559.25	10,537.56	37.32	38.04	23.28	5,257.07	2,116.99	5,414.70	5,339.44	75.27	71.937		
10,500.00	10,435.92	10,577.00	10,555.27	37.42	38.10	25.22	5,256.29	2,117.84	5,381.26	5,305.82	75.43	71.338		
10,550.00	10,469.35	10,577.00	10,555.27	37.51	38.10	27.53	5,256.29	2,117.84	5,345.19	5,269.66	75.52	70.775		
10,600.00	10,499.41	10,602.90	10,581.13	37.59	38.19	30.66	5,255.33	2,118.96	5,306.56	5,230.88	75.68	70.117		
10,650.00	10,525.87	10,611.34	10,589.56	37.66	38.22	34.51	5,255.09	2,119.27	5,265.86	5,190.09	75.77	69.500		
10,700.00	10,548.54	10,618.62	10,596.83	37.74	38.25	39.49	5,254.91	2,119.51	5,223.28	5,147.44	75.84	68.876		
10,750.00	10,567.24	10,624.64	10,602.85	37.84	38.27	45.97	5,254.79	2,119.70	5,179.12	5,103.24	75.89	68.249		
10,800.00	10,581.83	10,629.35	10,607.55	37.97	38.29	54.41	5,254.71	2,119.83	5,133.70	5,057.79	75.92	67.621		
10,850.00	10,592.19	10,632.00	10,630.20	38.11	38.37	65.72	5,254.46	2,120.35	5,087.46	5,011.46	76.00	66.940		
10,900.00	10,598.26	10,632.00	10,630.20	38.25	38.37	78.73	5,254.46	2,120.35	5,040.49	4,964.49	76.00	66.324		
10,944.69	10,600.00	10,632.00	10,630.20	38.39	38.37	91.43	5,254.46	2,120.35	4,998.31	4,922.32	75.99	65.776		
11,000.00	10,600.00	10,632.00	10,630.20	38.56	38.37	91.43	5,254.46	2,120.35	4,946.13	4,870.15	75.98	65.099		
11,100.00	10,600.00	10,632.00	10,630.20	38.91	38.37	91.43	5,254.46	2,120.35	4,851.96	4,776.00	75.96	63.873		
11,200.00	10,600.00	10,632.00	10,630.20	39.31	38.37	91.43	5,254.46	2,120.35	4,758.04	4,682.08	75.96	62.642		
11,300.00	10,600.00	10,632.00	10,630.20	39.76	38.37	91.43	5,254.46	2,120.35	4,664.36	4,588.40	75.96	61.407		
11,400.00	10,600.00	10,632.00	10,630.20	40.25	38.37	91.43	5,254.46	2,120.35	4,570.95	4,494.98	75.97	60.167		
11,500.00	10,600.00	10,631.88	10,610.08	40.79	38.30	90.73	5,254.67	2,119.90	4,477.72	4,401.79	75.93	58.972		
11,600.00	10,600.00	10,631.25	10,609.46	41.37	38.30	90.71	5,254.67	2,119.89	4,384.89	4,308.92	75.97	57.722		
11,700.00	10,600.00	10,630.60	10,608.81	41.99	38.29	90.69	5,254.68	2,119.87	4,292.38	4,216.37	76.02	56.466		
11,800.00	10,600.00	10,629.92	10,608.13	42.65	38.29	90.66	5,254.70	2,119.85	4,200.22	4,124.14	76.08	55.205		
11,900.00	10,600.00	10,629.21	10,607.41	43.35	38.29	90.64	5,254.71	2,119.83	4,108.43	4,032.26	76.17	53.938		
12,000.00	10,600.00	10,628.47	10,606.67	44.09	38.29	90.61	5,254.72	2,119.81	4,017.02	3,940.75	76.28	52.665		
12,100.00	10,600.00	10,627.69	10,605.89	44.86	38.28	90.58	5,254.73	2,119.79	3,926.04	3,849.63	76.40	51.385		
12,200.00	10,600.00	10,626.87	10,605.08	45.67	38.28	90.56	5,254.75	2,119.76	3,835.50	3,758.94	76.56	50.100		
12,300.00	10,600.00	10,626.01	10,604.22	46.50	38.28	90.53	5,254.76	2,119.74	3,745.45	3,668.71	76.74	48.808		
12,400.00	10,600.00	10,625.11	10,603.32	47.37	38.27	90.49	5,254.78	2,119.71	3,655.91	3,578.96	76.95	47.510		
12,500.00	10,600.00	10,624.16	10,602.37	48.26	38.27	90.46	5,254.80	2,119.69	3,566.92	3,489.73	77.20	46.206		
12,600.00	10,600.00	10,623.16	10,601.37	49.18	38.27	90.43	5,254.82	2,119.66	3,478.54	3,401.06	77.48	44.896		
12,700.00	10,600.00	10,622.11	10,600.32	50.13	38.26	90.39	5,254.84	2,119.62	3,390.80	3,312.99	77.81	43.581		
12,800.00	10,600.00	10,620.99	10,599.20	51.10	38.26	90.35	5,254.86	2,119.59	3,303.75	3,225.57	78.18	42.260		
12,900.00	10,600.00	10,619.81	10,598.02	52.09	38.25	90.31	5,254.89	2,119.55	3,217.46	3,138.86	78.60	40.935		
13,000.00	10,600.00	10,618.56	10,596.77	53.10	38.25	90.27	5,254.92	2,119.51	3,131.98	3,052.90	79.08	39.606		
13,100.00	10,600.00	10,617.23	10,595.44	54.14	38.24	90.22	5,254.95	2,119.47	3,047.39	2,967.77	79.62	38.275		
13,200.00	10,600.00	10,615.82	10,594.03	55.19	38.24	90.17	5,254.98	2,119.42	2,963.75	2,883.53	80.22	36.943		
13,300.00	10,600.00	10,614.31	10,592.52	56.26	38.23	90.12	5,255.01	2,119.37	2,881.16	2,800.25	80.90	35.612		
13,400.00	10,600.00	10,612.70	10,590.91	57.35	38.23	90.06	5,255.05	2,119.32	2,799.70	2,718.03	81.66	34.283		
13,500.00	10,600.00	10,610.97	10,589.18	58.45	38.22	90.00	5,255.10	2,119.26	2,719.47	2,636.97	82.51	32.960		
13,600.00	10,600.00	10,609.11	10,587.33	59.57	38.22	89.94	5,255.15	2,119.19	2,640.60	2,557.15	83.44	31.645		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 1H - Original - Plan 4												Offset Site Error:	0.00 ft
Survey Program: 166-MWD+IGRF, 15156-												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	10,607.12	10,585.34	60.71	38.21	89.87	5,255.20	2,119.12	2,563.19	2,478.71	84.48	30.341	
13,800.00	10,600.00	10,604.96	10,583.19	61.85	38.20	89.79	5,255.27	2,119.04	2,487.40	2,401.78	85.62	29.052	
13,900.00	10,600.00	10,602.63	10,580.86	63.01	38.19	89.71	5,255.34	2,118.95	2,413.37	2,326.50	86.87	27.781	
14,000.00	10,600.00	10,600.10	10,578.33	64.18	38.18	89.63	5,255.42	2,118.86	2,341.26	2,253.03	88.24	26.534	
14,100.00	10,600.00	10,597.33	10,575.57	65.37	38.17	89.53	5,255.51	2,118.74	2,271.27	2,181.55	89.72	25.314	
14,200.00	10,600.00	10,594.31	10,572.55	66.56	38.16	89.42	5,255.61	2,118.62	2,203.59	2,112.26	91.33	24.128	
14,300.00	10,600.00	10,590.99	10,569.23	67.76	38.15	89.31	5,255.73	2,118.48	2,138.44	2,045.37	93.06	22.979	
14,400.00	10,600.00	10,587.32	10,565.56	68.98	38.14	89.18	5,255.87	2,118.32	2,076.05	1,981.14	94.91	21.873	
14,500.00	10,600.00	10,583.24	10,561.50	70.20	38.12	89.04	5,256.03	2,118.14	2,016.69	1,919.81	96.88	20.816	
14,600.00	10,600.00	10,578.69	10,556.96	71.43	38.11	88.88	5,256.22	2,117.92	1,960.63	1,861.67	98.96	19.813	
14,700.00	10,600.00	10,574.34	10,552.62	72.67	38.09	88.73	5,256.41	2,117.71	1,908.15	1,807.02	101.13	18.869	
14,800.00	10,600.00	10,570.31	10,548.59	73.92	38.08	88.59	5,256.59	2,117.52	1,859.57	1,756.18	103.38	17.987	
14,900.00	10,600.00	10,566.29	10,544.58	75.17	38.06	88.45	5,256.76	2,117.32	1,815.18	1,709.49	105.69	17.174	
15,000.00	10,600.00	10,562.30	10,540.60	76.44	38.05	88.31	5,256.94	2,117.13	1,775.32	1,667.28	108.04	16.433	
15,100.00	10,600.00	10,558.33	10,536.64	77.70	38.03	88.17	5,257.11	2,116.94	1,740.29	1,629.91	110.38	15.766	
15,200.00	10,600.00	10,554.38	10,532.69	78.98	38.02	88.04	5,257.28	2,116.76	1,710.38	1,597.69	112.69	15.178	
15,300.00	10,600.00	10,550.45	10,528.77	80.26	38.00	87.90	5,257.45	2,116.58	1,685.87	1,570.95	114.92	14.670	
15,400.00	10,600.00	10,546.54	10,524.87	81.55	37.99	87.76	5,257.62	2,116.39	1,667.00	1,549.97	117.04	14.243	
15,484.47	10,600.00	10,543.26	10,521.60	82.64	37.98	87.65	5,257.76	2,116.24	1,655.60	1,536.89	118.71	13.947	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.90	-10.90	0.50		16.89	5,302.03	1,610.31	5,541.18					
100.00	100.00	89.10	89.10	0.52		16.89	5,302.03	1,610.31	5,541.18	5,540.66	0.52	N/A		
200.00	200.00	189.10	189.10	0.70		16.89	5,302.03	1,610.31	5,541.18	5,540.47	0.70	7,892.253		
300.00	300.00	289.11	289.10	0.99		16.89	5,302.03	1,610.31	5,541.18	5,540.19	0.99	5,612.254		
400.00	400.00	389.11	389.10	1.31		16.89	5,302.03	1,610.31	5,541.18	5,539.87	1.31	4,232.846		
500.00	500.00	489.11	489.10	1.65		16.89	5,302.03	1,610.31	5,541.18	5,539.53	1.65	3,366.270		
552.92	552.92	542.03	542.01	1.83		16.89	5,302.08	1,610.12	5,541.16	5,539.34	1.83	3,031.730		
600.00	600.00	588.42	588.40	1.99		16.89	5,302.06	1,610.17	5,541.17	5,539.18	1.99	2,783.663		
676.18	676.18	665.24	665.22	2.26		16.89	5,302.04	1,610.21	5,541.16	5,538.90	2.26	2,456.211		
700.00	700.00	684.26	684.23	2.34		16.89	5,302.04	1,610.25	5,541.17	5,538.83	2.34	2,368.713		
751.37	751.37	740.50	740.47	2.52		16.89	5,302.03	1,610.19	5,541.14	5,538.62	2.52	2,199.282		
800.00	800.00	780.95	780.92	2.69		16.89	5,302.03	1,610.29	5,541.17	5,538.48	2.69	2,059.462		
900.00	900.00	889.14	889.10	3.04		16.89	5,302.03	1,610.31	5,541.18	5,538.13	3.04	1,820.629		
1,000.00	1,000.00	989.14	989.10	3.40		16.89	5,302.03	1,610.31	5,541.18	5,537.78	3.40	1,630.879		
1,100.00	1,100.00	1,089.15	1,089.10	3.75		16.89	5,302.03	1,610.31	5,541.18	5,537.42	3.75	1,476.623		
1,200.00	1,200.00	1,189.15	1,189.10	4.11		16.89	5,302.03	1,610.31	5,541.18	5,537.07	4.11	1,348.824		
1,234.35	1,234.35	1,223.50	1,223.45	4.23		16.89	5,302.03	1,610.20	5,541.14	5,536.91	4.23	1,309.837		
1,300.00	1,300.00	1,285.85	1,285.80	4.46		16.89	5,302.03	1,610.26	5,541.16	5,536.70	4.46	1,241.251		
1,400.00	1,400.00	1,389.15	1,389.10	4.82		16.89	5,302.03	1,610.31	5,541.18	5,536.36	4.82	1,149.489		
1,423.91	1,423.91	1,412.74	1,412.69	4.91		16.89	5,301.95	1,610.20	5,541.07	5,536.16	4.91	1,129.487		
1,500.00	1,500.00	1,480.67	1,480.61	5.18		16.89	5,301.99	1,610.26	5,541.13	5,535.95	5.18	1,070.289		
1,600.00	1,600.00	1,590.79	1,590.73	5.53		16.89	5,302.04	1,610.29	5,541.18	5,535.65	5.53	1,001.274		
1,621.12	1,621.12	1,613.98	1,613.93	5.61		16.89	5,302.02	1,610.34	5,541.17	5,535.56	5.61	987.814		
1,700.00	1,700.00	1,691.20	1,691.15	5.89		16.89	5,302.04	1,610.31	5,541.18	5,535.29	5.89	940.582		
1,800.00	1,800.00	1,803.81	1,803.76	6.25		16.89	5,302.00	1,610.31	5,541.17	5,534.92	6.25	886.805		
1,829.56	1,829.56	1,818.71	1,818.66	6.35		16.89	5,302.03	1,610.31	5,541.18	5,534.82	6.35	872.063		
1,900.00	1,900.00	1,891.63	1,891.58	6.61		16.89	5,302.03	1,610.31	5,541.18	5,534.57	6.61	838.827		
1,906.39	1,906.39	1,898.34	1,898.29	6.63		16.89	5,302.02	1,610.32	5,541.17	5,534.54	6.63	835.937		
2,000.00	2,000.00	1,989.15	1,989.10	6.96		16.89	5,302.03	1,610.31	5,541.18	5,534.21	6.96	795.762		
2,100.00	2,099.99	2,089.15	2,089.09	7.31		-78.59	5,302.03	1,610.31	5,541.00	5,533.69	7.31	757.869		
2,200.00	2,199.96	2,189.11	2,189.06	7.65		-78.63	5,302.03	1,610.31	5,540.49	5,532.84	7.65	724.126		
2,300.00	2,299.86	2,289.02	2,288.96	7.99		-78.68	5,302.03	1,610.31	5,539.63	5,531.63	7.99	693.007		
2,399.87	2,399.54	2,388.70	2,388.64	8.34		-78.75	5,302.03	1,610.31	5,538.43	5,530.09	8.34	664.244		
2,500.00	2,499.43	2,488.59	2,488.53	8.69		-78.82	5,302.03	1,610.31	5,537.07	5,528.39	8.69	637.503		
2,600.00	2,599.19	2,588.35	2,588.29	9.03		-78.89	5,302.03	1,610.31	5,535.72	5,526.69	9.03	612.725		
2,700.00	2,698.94	2,688.10	2,688.04	9.39		-78.96	5,302.03	1,610.31	5,534.38	5,524.99	9.39	589.684		
2,800.00	2,798.70	2,793.46	2,793.40	9.74		-79.04	5,302.12	1,610.40	5,533.16	5,523.42	9.74	568.230		
2,900.00	2,898.46	2,928.71	2,928.64	10.09		-79.13	5,302.01	1,610.30	5,531.85	5,521.76	10.09	548.212		
3,000.00	2,998.21	3,000.00	2,987.31	10.45		-79.18	5,302.03	1,610.31	5,530.40	5,519.96	10.45	529.430		
3,100.00	3,097.97	3,110.82	3,110.73	10.80		-79.26	5,302.04	1,610.32	5,529.16	5,518.36	10.80	511.882		
3,200.00	3,197.73	3,207.54	3,207.44	11.16		-79.33	5,302.04	1,610.32	5,527.84	5,516.68	11.16	495.391		
3,300.00	3,297.48	3,300.00	3,286.58	11.52		-79.39	5,302.03	1,610.31	5,526.50	5,514.99	11.52	479.875		
3,400.00	3,397.24	3,409.69	3,409.58	11.88		-79.48	5,301.98	1,610.30	5,525.22	5,513.35	11.87	465.287		
3,500.00	3,497.00	3,497.82	3,486.10	12.24		-79.53	5,302.03	1,610.31	5,523.94	5,511.71	12.23	451.505		
3,600.00	3,596.75	3,590.65	3,590.55	12.60		-79.60	5,302.03	1,610.31	5,522.68	5,510.08	12.59	438.499		
3,700.00	3,696.51	3,696.03	3,695.92	12.96		-79.68	5,302.01	1,610.31	5,521.41	5,508.45	12.96	426.196		
3,800.00	3,796.27	3,785.48	3,785.37	13.32		-79.74	5,302.03	1,610.31	5,520.17	5,506.86	13.32	414.537		
3,900.00	3,896.02	3,885.24	3,885.12	13.68		-79.81	5,302.03	1,610.31	5,518.93	5,505.25	13.68	403.483		
4,000.00	3,995.78	3,985.03	3,984.88	14.04		-79.88	5,302.03	1,610.31	5,517.70	5,503.66	14.04	392.985		
4,100.00	4,095.54	4,084.87	4,084.64	14.40		-79.96	5,302.03	1,610.31	5,516.48	5,502.07	14.40	383.003		
4,200.00	4,195.29	4,184.76	4,184.39	14.77		-80.03	5,302.03	1,610.31	5,515.26	5,500.50	14.77	373.502		
4,300.00	4,295.05	4,284.75	4,284.15	15.13		-80.10	5,302.03	1,610.31	5,514.06	5,498.93	15.13	364.448		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,400.00	4,394.81	4,384.83	4,383.91	15.49		-80.17	5,302.03	1,610.31	5,512.86	5,497.36	15.49	355.812		
4,500.00	4,494.56	4,500.00	4,483.66	15.86		-80.24	5,302.03	1,610.31	5,511.67	5,495.81	15.86	347.565		
4,600.00	4,594.32	4,625.00	4,622.78	16.22		-80.34	5,302.03	1,610.31	5,510.63	5,494.41	16.22	339.712		
4,700.00	4,694.08	4,720.00	4,717.42	16.59		-80.41	5,302.03	1,610.31	5,509.42	5,492.84	16.59	332.164		
4,800.00	4,793.83	4,814.01	4,811.10	16.95		-80.48	5,302.03	1,610.31	5,508.23	5,491.27	16.95	324.936		
4,900.00	4,893.59	4,900.00	4,882.69	17.32		-80.53	5,302.03	1,610.31	5,507.00	5,489.68	17.32	317.996		
5,000.00	4,993.35	5,003.01	4,999.40	17.68		-80.61	5,302.03	1,610.31	5,505.88	5,488.20	17.68	311.365		
5,100.00	5,093.10	5,097.01	5,093.08	18.05		-80.68	5,302.03	1,610.31	5,504.73	5,486.68	18.05	304.988		
5,200.00	5,192.86	5,187.87	5,181.96	18.42		-80.74	5,302.03	1,610.31	5,503.59	5,485.17	18.42	298.860		
5,300.00	5,292.62	5,303.88	5,281.72	18.78		-80.81	5,302.03	1,610.31	5,502.47	5,483.68	18.78	292.972		
5,400.00	5,392.37	5,393.92	5,381.47	19.15		-80.88	5,302.03	1,610.31	5,501.35	5,482.21	19.15	287.307		
5,500.00	5,492.13	5,486.18	5,481.23	19.52		-80.96	5,302.03	1,610.31	5,500.25	5,480.74	19.51	281.853		
5,600.00	5,591.89	5,586.36	5,580.99	19.88		-81.03	5,302.03	1,610.31	5,499.16	5,479.27	19.88	276.598		
5,700.00	5,691.64	5,686.54	5,680.74	20.25		-81.10	5,302.03	1,610.31	5,498.07	5,477.82	20.25	271.532		
5,800.00	5,791.40	5,786.70	5,780.50	20.62		-81.17	5,302.03	1,610.31	5,496.99	5,476.38	20.62	266.645		
5,900.00	5,891.16	5,886.84	5,880.26	20.98		-81.24	5,302.03	1,610.31	5,495.92	5,474.94	20.98	261.927		
6,000.00	5,990.91	5,986.96	5,980.01	21.35		-81.31	5,302.03	1,610.31	5,494.86	5,473.51	21.35	257.370		
6,100.00	6,090.67	6,087.04	6,079.77	21.72		-81.39	5,302.03	1,610.31	5,493.81	5,472.10	21.72	252.967		
6,200.00	6,190.42	6,187.16	6,179.52	22.09		-81.46	5,302.03	1,610.31	5,492.77	5,470.68	22.09	248.708		
6,300.00	6,290.18	6,287.30	6,279.28	22.45		-81.53	5,302.03	1,610.31	5,491.74	5,469.28	22.45	244.589		
6,400.00	6,389.94	6,400.00	6,379.04	22.82		-81.60	5,302.03	1,610.31	5,490.71	5,467.89	22.82	240.601		
6,500.00	6,489.69	6,500.00	6,478.79	23.19		-81.67	5,302.03	1,610.31	5,489.69	5,466.50	23.19	236.740		
6,600.00	6,589.45	6,600.00	6,578.55	23.56		-81.74	5,302.03	1,610.31	5,488.69	5,465.13	23.56	232.998		
6,700.00	6,689.21	6,700.00	6,678.31	23.93		-81.82	5,302.03	1,610.31	5,487.69	5,463.76	23.92	229.371		
6,800.00	6,788.96	6,807.00	6,796.79	24.29		-81.90	5,302.03	1,610.31	5,486.73	5,462.43	24.29	225.860		
6,900.00	6,888.72	6,901.00	6,890.42	24.66		-81.97	5,302.03	1,610.31	5,485.73	5,461.07	24.66	222.444		
7,000.00	6,988.48	7,003.43	6,977.58	25.03		-82.03	5,302.03	1,610.31	5,484.74	5,459.71	25.03	219.127		
7,100.00	7,088.23	7,091.31	7,077.33	25.40		-82.10	5,302.03	1,610.31	5,483.78	5,458.38	25.40	215.910		
7,200.00	7,187.99	7,188.78	7,177.09	25.77		-82.18	5,302.03	1,610.31	5,482.82	5,457.05	25.77	212.784		
7,300.00	7,287.75	7,288.92	7,276.85	26.14		-82.25	5,302.03	1,610.31	5,481.87	5,455.74	26.14	209.747		
7,400.00	7,387.50	7,389.09	7,376.60	26.50		-82.32	5,302.03	1,610.31	5,480.93	5,454.43	26.50	206.793		
7,500.00	7,487.26	7,489.24	7,476.36	26.87		-82.39	5,302.03	1,610.31	5,480.00	5,453.13	26.87	203.921		
7,600.00	7,587.02	7,589.36	7,576.12	27.24		-82.46	5,302.03	1,610.31	5,479.08	5,451.84	27.24	201.126		
7,700.00	7,686.77	7,689.54	7,675.87	27.61		-82.54	5,302.03	1,610.31	5,478.17	5,450.56	27.61	198.406		
7,800.00	7,786.53	7,789.78	7,775.63	27.98		-82.61	5,302.03	1,610.31	5,477.27	5,449.29	27.98	195.757		
7,900.00	7,886.29	7,889.96	7,875.39	28.35		-82.68	5,302.03	1,610.31	5,476.37	5,448.02	28.35	193.177		
8,000.00	7,986.04	7,993.08	7,978.06	28.72		-82.74	5,301.92	1,611.36	5,475.61	5,446.89	28.72	190.669		
8,100.00	8,085.80	8,093.14	8,077.76	29.09		-82.82	5,301.87	1,611.25	5,474.66	5,445.58	29.09	188.216		
8,200.00	8,185.56	8,226.54	8,210.68	29.46		-82.92	5,302.04	1,610.23	5,473.85	5,444.39	29.45	185.839		
8,300.00	8,285.31	8,335.82	8,319.49	29.83		-83.01	5,302.11	1,609.38	5,472.94	5,443.12	29.82	183.511		
8,400.00	8,385.07	8,404.38	8,387.75	30.20		-83.05	5,301.98	1,610.68	5,472.07	5,441.88	30.19	181.228		
8,500.00	8,484.83	8,494.21	8,477.26	30.56		-83.11	5,301.94	1,610.79	5,471.20	5,440.63	30.56	179.008		
8,600.00	8,584.58	8,612.10	8,594.70	30.93		-83.21	5,302.10	1,609.84	5,470.36	5,439.43	30.93	176.847		
8,700.00	8,684.34	8,702.53	8,673.44	31.30		-83.26	5,302.03	1,610.31	5,469.53	5,438.22	31.30	174.729		
8,800.00	8,784.10	8,787.33	8,769.19	31.67		-83.33	5,301.99	1,610.49	5,468.71	5,437.04	31.67	172.664		
8,900.00	8,883.85	8,879.77	8,861.28	32.04		-83.39	5,301.97	1,610.55	5,467.90	5,435.86	32.04	170.647		
9,000.00	8,983.61	8,991.76	8,972.71	32.41		-83.48	5,302.03	1,610.31	5,467.11	5,434.69	32.41	168.679		
9,100.00	9,083.37	9,091.87	9,072.47	32.78		-83.55	5,302.03	1,610.31	5,466.32	5,433.53	32.78	166.753		
9,200.00	9,183.12	9,191.93	9,172.22	33.15		-83.62	5,302.03	1,610.31	5,465.53	5,432.38	33.15	164.870		
9,300.00	9,282.88	9,291.93	9,271.98	33.52		-83.69	5,302.03	1,610.31	5,464.76	5,431.24	33.52	163.029		
9,400.00	9,382.64	9,391.91	9,371.74	33.89		-83.77	5,302.03	1,610.31	5,464.00	5,430.11	33.89	161.229		
9,428.07	9,410.64	9,428.80	9,408.57	33.99		-83.79	5,301.96	1,610.92	5,463.85	5,429.86	33.99	160.733		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													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		
9,500.00	9,482.43	9,491.92	9,471.53	34.26		-83.82	5,302.03	1,610.31	5,463.32	5,429.06	34.26	159.478		
9,600.00	9,582.36	9,592.05	9,571.46	34.62		-83.86	5,302.03	1,610.31	5,462.91	5,428.29	34.62	157.806		
9,694.65	9,677.00	9,686.85	9,666.10	34.95		11.61	5,302.03	1,610.31	5,462.78	5,427.84	34.95	156.315		
9,697.44	9,679.79	9,689.58	9,668.81	34.96		11.62	5,301.81	1,610.90	5,462.69	5,427.73	34.96	156.270		
9,700.00	9,682.35	9,691.31	9,670.54	34.97		11.62	5,301.81	1,610.89	5,462.69	5,427.72	34.97	156.231		
9,791.64	9,773.99	9,783.96	9,763.08	35.28		11.61	5,301.78	1,610.80	5,462.64	5,427.36	35.28	154.851		
9,800.00	9,782.35	9,788.80	9,767.91	35.31		11.61	5,301.78	1,610.80	5,462.64	5,427.33	35.31	154.726		
9,900.00	9,882.35	9,887.15	9,866.17	35.65		11.61	5,301.81	1,610.76	5,462.67	5,427.02	35.65	153.251		
9,980.50	9,962.85	9,972.99	9,951.93	35.92		11.61	5,301.78	1,610.70	5,462.62	5,426.70	35.92	152.082		
10,000.00	9,982.35	9,983.74	9,962.68	35.99		11.61	5,301.80	1,610.68	5,462.64	5,426.65	35.99	151.801		
10,044.69	10,027.04	10,037.25	10,016.14	36.14		11.61	5,302.03	1,610.31	5,462.78	5,426.65	36.14	151.167		
10,050.00	10,032.35	10,042.56	10,021.45	36.16		12.03	5,302.03	1,610.31	5,462.76	5,426.61	36.16	151.090		
10,100.00	10,082.26	10,080.64	10,059.51	36.32		12.09	5,301.79	1,610.63	5,460.02	5,423.69	36.32	150.310		
10,150.00	10,131.76	10,142.04	10,120.86	36.49		12.25	5,302.03	1,610.31	5,453.35	5,416.86	36.49	149.443		
10,200.00	10,180.46	10,176.12	10,154.93	36.65		12.51	5,301.77	1,610.64	5,442.15	5,405.50	36.65	148.478		
10,250.00	10,227.98	10,238.35	10,217.08	36.81		12.90	5,302.03	1,610.31	5,427.20	5,390.39	36.81	147.451		
10,300.00	10,273.98	10,267.65	10,246.38	36.95		13.41	5,301.67	1,610.62	5,407.81	5,370.86	36.95	146.345		
10,350.00	10,318.11	10,328.55	10,307.21	37.09		14.10	5,302.03	1,610.31	5,385.12	5,348.03	37.09	145.205		
10,400.00	10,360.01	10,357.70	10,336.34	37.21		14.94	5,301.65	1,610.60	5,358.19	5,320.98	37.21	144.002		
10,450.00	10,399.38	10,409.92	10,388.48	37.32		16.06	5,302.03	1,610.31	5,328.40	5,291.09	37.32	142.785		
10,500.00	10,435.92	10,445.23	10,423.77	37.42		17.45	5,301.60	1,610.66	5,294.74	5,257.33	37.41	141.521		
10,550.00	10,469.35	10,458.36	10,436.91	37.51		19.15	5,301.64	1,610.63	5,258.53	5,221.03	37.50	140.243		
10,600.00	10,499.41	10,510.08	10,488.51	37.59		21.55	5,302.03	1,610.31	5,219.82	5,182.26	37.56	138.968		
10,650.00	10,525.87	10,535.47	10,513.88	37.66		24.62	5,301.60	1,610.76	5,178.12	5,140.50	37.61	137.664		
10,700.00	10,548.54	10,543.29	10,521.69	37.74		28.61	5,301.62	1,610.74	5,134.71	5,097.05	37.65	136.363		
10,750.00	10,567.24	10,549.85	10,528.25	37.84		34.14	5,301.65	1,610.70	5,089.60	5,051.92	37.68	135.065		
10,800.00	10,581.83	10,592.66	10,570.93	37.97		42.85	5,302.03	1,610.31	5,043.22	5,005.52	37.70	133.789		
10,850.00	10,592.19	10,603.03	10,581.29	38.11		54.90	5,302.03	1,610.31	4,995.60	4,957.90	37.70	132.506		
10,900.00	10,598.26	10,609.09	10,587.36	38.25		71.76	5,302.03	1,610.31	4,947.30	4,909.60	37.70	131.233		
10,944.69	10,600.00	10,610.84	10,589.10	38.39		90.00	5,302.03	1,610.31	4,903.86	4,866.17	37.69	130.105		
11,000.00	10,600.00	10,610.84	10,589.10	38.56		90.00	5,302.03	1,610.31	4,850.08	4,812.40	37.68	128.715		
11,100.00	10,600.00	10,610.84	10,589.10	38.91		90.00	5,302.03	1,610.31	4,752.94	4,715.27	37.66	126.193		
11,200.00	10,600.00	10,610.84	10,589.10	39.31		90.00	5,302.03	1,610.31	4,655.91	4,618.26	37.65	123.658		
11,300.00	10,600.00	10,610.84	10,589.10	39.76		90.00	5,302.03	1,610.31	4,559.01	4,521.37	37.64	121.110		
11,400.00	10,600.00	10,610.84	10,589.10	40.25		90.00	5,302.03	1,610.31	4,462.25	4,424.61	37.64	118.547		
11,500.00	10,600.00	10,610.84	10,589.10	40.79		90.00	5,302.03	1,610.31	4,365.63	4,327.99	37.64	115.970		
11,600.00	10,600.00	10,610.84	10,589.10	41.37		90.00	5,302.03	1,610.31	4,269.17	4,231.52	37.65	113.377		
11,700.00	10,600.00	10,610.84	10,589.10	41.99		90.00	5,302.03	1,610.31	4,172.88	4,135.21	37.67	110.768		
11,800.00	10,600.00	10,610.84	10,589.10	42.65		90.00	5,302.03	1,610.31	4,076.77	4,039.07	37.70	108.142		
11,900.00	10,600.00	10,610.84	10,589.10	43.35		90.00	5,302.03	1,610.31	3,980.85	3,943.11	37.73	105.498		
12,000.00	10,600.00	10,610.84	10,589.10	44.09		90.00	5,302.03	1,610.31	3,885.13	3,847.35	37.78	102.836		
12,100.00	10,600.00	10,610.84	10,589.10	44.86		90.00	5,302.03	1,610.31	3,789.63	3,751.79	37.84	100.154		
12,200.00	10,600.00	10,610.84	10,589.10	45.67		90.00	5,302.03	1,610.31	3,694.37	3,656.46	37.91	97.452		
12,300.00	10,600.00	10,610.84	10,589.10	46.50		90.00	5,302.03	1,610.31	3,599.37	3,561.38	38.00	94.729		
12,400.00	10,600.00	10,610.84	10,589.10	47.37		90.00	5,302.03	1,610.31	3,504.65	3,466.55	38.10	91.984		
12,500.00	10,600.00	10,610.84	10,589.10	48.26		90.00	5,302.03	1,610.31	3,410.23	3,372.01	38.22	89.216		
12,600.00	10,600.00	10,610.84	10,589.10	49.18		90.00	5,302.03	1,610.31	3,316.14	3,277.77	38.37	86.424		
12,700.00	10,600.00	10,610.84	10,589.10	50.13		90.00	5,302.03	1,610.31	3,222.40	3,183.86	38.54	83.608		
12,800.00	10,600.00	10,610.84	10,589.10	51.10		90.00	5,302.03	1,610.31	3,129.05	3,090.31	38.74	80.767		
12,900.00	10,600.00	10,610.84	10,589.10	52.09		90.00	5,302.03	1,610.31	3,036.12	2,997.15	38.97	77.901		
13,000.00	10,600.00	10,610.84	10,589.10	53.10		90.00	5,302.03	1,610.31	2,943.66	2,904.42	39.24	75.011		
13,100.00	10,600.00	10,610.84	10,589.10	54.14		90.00	5,302.03	1,610.31	2,851.70	2,812.15	39.55	72.097		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
13,200.00	10,600.00	10,610.84	10,589.10	55.19		90.00	5,302.03	1,610.31	2,760.31	2,720.40	39.91	69.159		
13,300.00	10,600.00	10,610.84	10,589.10	56.26		90.00	5,302.03	1,610.31	2,669.53	2,629.21	40.32	66.201		
13,400.00	10,600.00	10,610.84	10,589.10	57.35		90.00	5,302.03	1,610.31	2,579.44	2,538.64	40.80	63.224		
13,500.00	10,600.00	10,610.84	10,589.10	58.45		90.00	5,302.03	1,610.31	2,490.10	2,448.75	41.34	60.232		
13,600.00	10,600.00	10,610.84	10,589.10	59.57		90.00	5,302.03	1,610.31	2,401.60	2,359.63	41.96	57.230		
13,700.00	10,600.00	10,610.84	10,589.10	60.71		90.00	5,302.03	1,610.31	2,314.04	2,271.36	42.68	54.224		
13,800.00	10,600.00	10,610.84	10,589.10	61.85		90.00	5,302.03	1,610.31	2,227.52	2,184.03	43.49	51.222		
13,900.00	10,600.00	10,610.84	10,589.10	63.01		90.00	5,302.03	1,610.31	2,142.18	2,097.77	44.41	48.234		
14,000.00	10,600.00	10,610.84	10,589.10	64.18		90.00	5,302.03	1,610.31	2,058.16	2,012.70	45.46	45.270		
14,100.00	10,600.00	10,610.84	10,589.10	65.37		90.00	5,302.03	1,610.31	1,975.63	1,928.98	46.66	42.344		
14,200.00	10,600.00	10,610.84	10,589.10	66.56		90.00	5,302.03	1,610.31	1,894.79	1,846.78	48.01	39.470		
14,300.00	10,600.00	10,610.84	10,589.10	67.76		90.00	5,302.03	1,610.31	1,815.85	1,766.32	49.53	36.664		
14,400.00	10,600.00	10,610.84	10,589.10	68.98		90.00	5,302.03	1,610.31	1,739.08	1,687.85	51.23	33.943		
14,500.00	10,600.00	10,610.84	10,589.10	70.20		90.00	5,302.03	1,610.31	1,664.78	1,611.64	53.14	31.327		
14,600.00	10,600.00	10,610.84	10,589.10	71.43		90.00	5,302.03	1,610.31	1,593.29	1,538.03	55.26	28.833		
14,700.00	10,600.00	10,610.84	10,589.10	72.67		90.00	5,302.03	1,610.31	1,525.02	1,467.42	57.59	26.479		
14,800.00	10,600.00	10,610.84	10,589.10	73.92		90.00	5,302.03	1,610.31	1,460.40	1,400.26	60.14	24.283		
14,900.00	10,600.00	10,610.84	10,589.10	75.17		90.00	5,302.03	1,610.31	1,399.95	1,337.06	62.89	22.260		
15,000.00	10,600.00	10,610.84	10,589.10	76.44		90.00	5,302.03	1,610.31	1,344.23	1,278.41	65.81	20.425		
15,100.00	10,600.00	10,610.84	10,589.10	77.70		90.00	5,302.03	1,610.31	1,293.85	1,224.98	68.87	18.788		
15,200.00	10,600.00	10,610.84	10,589.10	78.98		90.00	5,302.03	1,610.31	1,249.45	1,177.46	71.99	17.356		
15,300.00	10,600.00	10,610.84	10,589.10	80.26		90.00	5,302.03	1,610.31	1,211.70	1,136.60	75.10	16.135		
15,400.00	10,600.00	10,610.84	10,589.10	81.55		90.00	5,302.03	1,610.31	1,181.23	1,103.15	78.09	15.127		
15,484.47	10,600.00	10,610.84	10,589.10	82.64		90.00	5,302.03	1,610.31	1,161.60	1,081.16	80.44	14.441	CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393		
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018		
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598		
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137		
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644		
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159		
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654		
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118		
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564		
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981		
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383		
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771		
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149		
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519		
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883		
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242		
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601		
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030		
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324		
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045		
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763		
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.89	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477		
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187		
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893		
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595		
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292		
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984		
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672		
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354		
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031		
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703		
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369		
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030		
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685		
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335		
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980		
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620		
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255		
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886		
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515		
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142		
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768		
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400		
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032		
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671		
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320		
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983		
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Actuals												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10482-													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	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936		
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136		
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798		
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758		
10,100.00	10,082.26	10,379.81	10,365.44	36.32	35.97	15.38	5,136.59	1,881.12	5,369.03	5,296.82	72.21	74.355		
10,150.00	10,131.76	10,420.00	10,405.55	36.49	36.11	15.67	5,134.13	1,881.94	5,359.63	5,287.11	72.52	73.907		
10,200.00	10,180.46	10,457.25	10,442.73	36.65	36.24	16.09	5,131.91	1,882.72	5,346.23	5,273.41	72.81	73.423		
10,250.00	10,227.98	10,486.44	10,471.86	36.81	36.34	16.65	5,130.26	1,883.33	5,328.98	5,255.90	73.08	72.923		
10,300.00	10,273.98	10,531.28	10,516.62	36.95	36.49	17.40	5,127.79	1,884.28	5,307.95	5,234.57	73.38	72.339		
10,350.00	10,318.11	10,574.02	10,559.29	37.09	36.64	18.37	5,125.44	1,885.18	5,283.23	5,209.58	73.66	71.728		
10,400.00	10,360.01	10,575.00	10,560.27	37.21	36.65	19.48	5,125.38	1,885.20	5,255.16	5,181.37	73.80	71.210		
10,450.00	10,399.38	10,575.00	10,560.27	37.32	36.65	20.84	5,125.38	1,885.20	5,224.09	5,150.17	73.92	70.672		
10,500.00	10,435.92	10,575.00	10,560.27	37.42	36.65	22.55	5,125.38	1,885.20	5,190.20	5,116.18	74.02	70.114		
10,550.00	10,469.35	10,590.46	10,575.71	37.51	36.70	24.78	5,124.75	1,885.44	5,153.48	5,079.32	74.16	69.489		
10,600.00	10,499.41	10,604.68	10,589.93	37.59	36.75	27.63	5,124.56	1,885.51	5,114.60	5,040.31	74.28	68.855		
10,650.00	10,525.87	10,604.68	10,589.93	37.66	36.75	31.21	5,124.56	1,885.51	5,073.40	4,999.06	74.34	68.247		
10,700.00	10,548.54	10,604.68	10,589.93	37.74	36.75	35.89	5,124.56	1,885.51	5,030.35	4,955.97	74.38	67.629		
10,750.00	10,567.24	10,604.68	10,589.93	37.84	36.75	42.12	5,124.56	1,885.51	4,985.72	4,911.31	74.41	67.003		
10,800.00	10,581.83	10,604.68	10,589.93	37.97	36.75	50.50	5,124.56	1,885.51	4,939.81	4,865.38	74.43	66.371		
10,850.00	10,592.19	10,604.68	10,589.93	38.11	36.75	61.65	5,124.56	1,885.51	4,892.95	4,818.51	74.43	65.736		
10,900.00	10,598.26	10,604.68	10,589.93	38.25	36.75	75.75	5,124.56	1,885.51	4,845.46	4,771.03	74.43	65.099		
10,944.69	10,600.00	10,604.68	10,589.93	38.39	36.75	90.03	5,124.56	1,885.51	4,802.77	4,728.34	74.42	64.532		
11,000.00	10,600.00	10,604.68	10,589.93	38.56	36.75	90.03	5,124.56	1,885.51	4,749.93	4,675.52	74.41	63.832		
11,100.00	10,600.00	10,604.68	10,589.93	38.91	36.75	90.03	5,124.56	1,885.51	4,654.55	4,580.15	74.40	62.563		
11,200.00	10,600.00	10,604.68	10,589.93	39.31	36.75	90.03	5,124.56	1,885.51	4,559.37	4,484.98	74.39	61.290		
11,300.00	10,600.00	10,604.68	10,589.93	39.76	36.75	90.03	5,124.56	1,885.51	4,464.40	4,390.01	74.39	60.014		
11,400.00	10,600.00	10,604.68	10,589.93	40.25	36.75	90.03	5,124.56	1,885.51	4,369.65	4,295.25	74.40	58.734		
11,500.00	10,600.00	10,604.68	10,589.93	40.79	36.75	90.03	5,124.56	1,885.51	4,275.14	4,200.72	74.42	57.449		
11,600.00	10,600.00	10,604.68	10,589.93	41.37	36.75	90.03	5,124.56	1,885.51	4,180.88	4,106.44	74.44	56.161		
11,700.00	10,600.00	10,604.68	10,589.93	41.99	36.75	90.03	5,124.56	1,885.51	4,086.90	4,012.42	74.49	54.868		
11,800.00	10,600.00	10,604.68	10,589.93	42.65	36.75	90.03	5,124.56	1,885.51	3,993.21	3,918.67	74.54	53.570		
11,900.00	10,600.00	10,604.68	10,589.93	43.35	36.75	90.03	5,124.56	1,885.51	3,899.84	3,825.23	74.61	52.268		
12,000.00	10,600.00	10,604.68	10,589.93	44.09	36.75	90.03	5,124.56	1,885.51	3,806.80	3,732.10	74.70	50.961		
12,100.00	10,600.00	10,604.68	10,589.93	44.86	36.75	90.03	5,124.56	1,885.51	3,714.13	3,639.32	74.81	49.648		
12,200.00	10,600.00	10,604.68	10,589.93	45.67	36.75	90.03	5,124.56	1,885.51	3,621.84	3,546.90	74.94	48.330		
12,300.00	10,600.00	10,604.68	10,589.93	46.50	36.75	90.03	5,124.56	1,885.51	3,529.97	3,454.88	75.09	47.007		
12,400.00	10,600.00	10,604.68	10,589.93	47.37	36.75	90.03	5,124.56	1,885.51	3,438.56	3,363.28	75.28	45.679		
12,500.00	10,600.00	10,604.68	10,589.93	48.26	36.75	90.03	5,124.56	1,885.51	3,347.64	3,272.15	75.49	44.345		
12,600.00	10,600.00	10,604.68	10,589.93	49.18	36.75	90.03	5,124.56	1,885.51	3,257.25	3,181.51	75.74	43.006		
12,700.00	10,600.00	10,604.68	10,589.93	50.13	36.75	90.03	5,124.56	1,885.51	3,167.44	3,091.41	76.03	41.661		
12,800.00	10,600.00	10,604.68	10,589.93	51.10	36.75	90.03	5,124.56	1,885.51	3,078.25	3,001.89	76.36	40.312		
12,900.00	10,600.00	10,604.68	10,589.93	52.09	36.75	90.03	5,124.56	1,885.51	2,989.75	2,913.01	76.74	38.959		
13,000.00	10,600.00	10,604.68	10,589.93	53.10	36.75	90.03	5,124.56	1,885.51	2,902.00	2,824.82	77.18	37.601		
13,100.00	10,600.00	10,604.68	10,589.93	54.14	36.75	90.03	5,124.56	1,885.51	2,815.07	2,737.39	77.68	36.241		
13,200.00	10,600.00	10,604.68	10,589.93	55.19	36.75	90.03	5,124.56	1,885.51	2,729.03	2,650.79	78.24	34.880		
13,300.00	10,600.00	10,604.68	10,589.93	56.26	36.75	90.03	5,124.56	1,885.51	2,643.97	2,565.09	78.88	33.518		
13,400.00	10,600.00	10,604.68	10,589.93	57.35	36.75	90.03	5,124.56	1,885.51	2,559.99	2,480.39	79.61	32.158		
13,500.00	10,600.00	10,604.68	10,589.93	58.45	36.75	90.03	5,124.56	1,885.51	2,477.21	2,396.78	80.42	30.802		
13,600.00	10,600.00	10,604.68	10,589.93	59.57	36.75	90.03	5,124.56	1,885.51	2,395.73	2,314.39	81.34	29.453		
13,700.00	10,600.00	10,604.68	10,589.93	60.71	36.75	90.03	5,124.56	1,885.51	2,315.71	2,233.34	82.37	28.114		
13,800.00	10,600.00	10,604.68	10,589.93	61.85	36.75	90.03	5,124.56	1,885.51	2,237.30	2,153.78	83.52	26.788		
13,900.00	10,600.00	10,604.68	10,589.93	63.01	36.75	90.03	5,124.56	1,885.51	2,160.67	2,075.88	84.79	25.481		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 2												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10482-												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	
14,000.00	10,600.00	10,604.68	10,589.93	64.18	36.75	90.03	5,124.56	1,885.51	2,086.02	1,999.81	86.21	24.198	
14,100.00	10,600.00	10,604.68	10,589.93	65.37	36.75	90.03	5,124.56	1,885.51	2,013.57	1,925.81	87.77	22.942	
14,200.00	10,600.00	11,139.37	11,029.51	66.56	44.79	110.31	5,253.81	1,661.77	1,938.64	1,846.68	91.95	21.083	
14,300.00	10,600.00	11,150.00	11,034.75	67.76	45.48	110.66	5,258.66	1,653.90	1,864.03	1,770.25	93.78	19.876	
14,400.00	10,600.00	11,150.00	11,034.75	68.98	45.48	110.66	5,258.66	1,653.90	1,791.77	1,696.53	95.24	18.814	
14,500.00	10,600.00	11,176.22	11,047.39	70.20	47.47	111.51	5,271.47	1,634.84	1,721.55	1,623.35	98.20	17.530	
14,600.00	10,600.00	11,200.00	11,058.49	71.43	49.32	112.27	5,284.11	1,618.04	1,654.24	1,553.14	101.10	16.362	
14,700.00	10,600.00	11,200.00	11,058.49	72.67	49.32	112.27	5,284.11	1,618.04	1,589.72	1,486.90	102.81	15.462	
14,800.00	10,600.00	11,224.84	11,069.69	73.92	51.48	113.05	5,298.31	1,601.01	1,528.37	1,422.31	106.06	14.411	
14,900.00	10,600.00	11,250.00	11,080.58	75.17	53.71	113.83	5,313.71	1,584.36	1,470.60	1,361.29	109.31	13.453	
15,000.00	10,600.00	11,266.28	11,087.38	76.44	55.26	114.32	5,324.19	1,573.93	1,416.55	1,304.41	112.13	12.633	
15,100.00	10,600.00	11,300.00	11,100.81	77.70	58.54	115.31	5,347.15	1,553.21	1,366.70	1,250.69	116.01	11.781	
15,200.00	10,600.00	11,317.21	11,107.31	78.98	60.32	115.80	5,359.49	1,543.12	1,321.02	1,202.23	118.79	11.121	
15,300.00	10,600.00	11,350.00	11,118.97	80.26	63.75	116.70	5,384.11	1,524.88	1,280.01	1,157.52	122.49	10.450	
15,400.00	10,600.00	11,379.86	11,128.75	81.55	67.04	117.46	5,407.71	1,509.43	1,243.74	1,117.78	125.96	9.874	
15,484.47	10,600.00	11,400.00	11,134.88	82.64	69.29	117.95	5,424.22	1,499.67	1,216.98	1,088.79	128.20	9.493 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3		Offset Site Error: 0.00 ft	
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													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	16.40	5,302.03	1,560.31	5,526.86							
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806				
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828				
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095				
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852				
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319				
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949				
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982				
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886				
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875				
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869				
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642				
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616				
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301				
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657				
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003				
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910				
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252				
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446				
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150				
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643				
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564				
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855				
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490				
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930				
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118				
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655				
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951				
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763				
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629				
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669				
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742				
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120				
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143				
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779				
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127				
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186				
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521				
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395				
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915				
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529				
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048				
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493				
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392				
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968				
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311				
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631				
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291				
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105				
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885				
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132				
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3		Offset Site Error:		0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11343-													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)						
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936					
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136					
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798					
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758					
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393					
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018					
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598					
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137					
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644					
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159					
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654					
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118					
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564					
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981					
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383					
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771					
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149					
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519					
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883					
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242					
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601					
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030					
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324					
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045					
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763					
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477					
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187					
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893					
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595					
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292					
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984					
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672					
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354					
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031					
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703					
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369					
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030					
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685					
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335					
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980					
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620					
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255					
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886					
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515					
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142					
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768					
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400					
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032					
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671					
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320					
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983					
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664					

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 3												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11343-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,350.00	11,097.22	80.26	38.06	115.71	5,439.53	1,526.05	1,295.13	1,192.40	102.73	12.607	
15,400.00	10,600.00	11,379.84	11,106.44	81.55	38.27	116.46	5,462.82	1,509.85	1,254.76	1,150.15	104.61	11.995	
15,484.47	10,600.00	11,404.00	11,113.62	82.64	38.45	117.05	5,482.38	1,497.61	1,224.49	1,118.31	106.18	11.532 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 4		Offset Site Error:		0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 12505-													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)						
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936					
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136					
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798					
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758					
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393					
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018					
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598					
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137					
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644					
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159					
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654					
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118					
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564					
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981					
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383					
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771					
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149					
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519					
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883					
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242					
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601					
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030					
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324					
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045					
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763					
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477					
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187					
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893					
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595					
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292					
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984					
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672					
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354					
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031					
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703					
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369					
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030					
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685					
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335					
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980					
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620					
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255					
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886					
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515					
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142					
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768					
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400					
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032					
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671					
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320					
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983					
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664					

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 4												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 12505-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 13733-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 5		Offset Site Error:		0.00 ft	
Survey Program:													260-GYRO-NS, 10523-MWD+IGRF, 13733-		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)							
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936						
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136						
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798						
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758						
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393						
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018						
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598						
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137						
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644						
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159						
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654						
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118						
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564						
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981						
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383						
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771						
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149						
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519						
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883						
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242						
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601						
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030						
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324						
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045						
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763						
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477						
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187						
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893						
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595						
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292						
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984						
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672						
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354						
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031						
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703						
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369						
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030						
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685						
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335						
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980						
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620						
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255						
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886						
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515						
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142						
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768						
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400						
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032						
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671						
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320						
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983						
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 5												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 13733-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6		Offset Site Error:		0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 14678-													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)						
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936					
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136					
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798					
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758					
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393					
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018					
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598					
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137					
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644					
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159					
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654					
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118					
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564					
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981					
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383					
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771					
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149					
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519					
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883					
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242					
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601					
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030					
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324					
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045					
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763					
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477					
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187					
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893					
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595					
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292					
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984					
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672					
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354					
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031					
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703					
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369					
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030					
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685					
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335					
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980					
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620					
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255					
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886					
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515					
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142					
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768					
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400					
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032					
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671					
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320					
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983					
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664					

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - Plan 6												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 14678-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11533-													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.00	0.00	0.00	0.00	0.50	0.00	16.40	5,302.03	1,560.31	5,526.86					
100.00	100.00	91.76	91.76	0.52	0.15	16.40	5,302.01	1,560.29	5,526.83	5,526.17	0.66	8,335.806		
200.00	200.00	194.75	194.75	0.70	0.31	16.40	5,301.95	1,560.23	5,526.76	5,525.75	1.01	5,469.828		
293.10	293.10	290.63	290.63	0.97	0.46	16.40	5,301.85	1,560.13	5,526.64	5,525.21	1.43	3,875.095		
300.00	300.00	289.05	289.05	0.99	0.51	16.40	5,301.88	1,560.12	5,526.66	5,525.16	1.50	3,683.852		
400.00	400.00	384.73	384.73	1.31	0.85	16.39	5,302.05	1,559.92	5,526.76	5,524.61	2.16	2,564.319		
500.00	500.00	494.38	494.38	1.65	1.23	16.39	5,302.20	1,559.40	5,526.76	5,523.88	2.88	1,921.949		
600.00	600.00	607.23	607.22	1.99	1.63	16.38	5,302.34	1,558.08	5,526.55	5,522.94	3.62	1,527.982		
700.00	700.00	711.12	711.09	2.34	1.99	16.36	5,302.40	1,556.35	5,526.13	5,521.80	4.33	1,275.886		
800.00	800.00	798.13	798.09	2.69	2.30	16.34	5,302.61	1,554.74	5,525.85	5,520.86	4.99	1,107.875		
859.69	859.69	848.85	848.80	2.90	2.47	16.33	5,302.81	1,553.92	5,525.80	5,520.42	5.38	1,027.869		
900.00	900.00	888.68	888.63	3.04	2.61	16.33	5,302.98	1,553.35	5,525.80	5,520.14	5.66	976.642		
1,000.00	1,000.00	990.55	990.49	3.40	2.97	16.31	5,303.35	1,552.04	5,525.79	5,519.43	6.37	867.616		
1,100.00	1,100.00	1,119.24	1,119.17	3.75	3.42	16.30	5,303.50	1,550.67	5,525.63	5,518.46	7.17	770.301		
1,200.00	1,200.00	1,211.92	1,211.85	4.11	3.75	16.29	5,303.18	1,549.97	5,525.09	5,517.24	7.85	703.657		
1,300.00	1,300.00	1,329.69	1,329.61	4.46	4.16	16.29	5,302.68	1,549.51	5,524.58	5,515.96	8.62	641.003		
1,400.00	1,400.00	1,409.72	1,409.65	4.82	4.44	16.29	5,302.34	1,549.06	5,524.02	5,514.76	9.25	596.910		
1,500.00	1,500.00	1,496.16	1,496.08	5.18	4.74	16.28	5,302.29	1,548.62	5,523.81	5,513.90	9.91	557.252		
1,600.00	1,600.00	1,594.74	1,594.66	5.53	5.09	16.28	5,302.23	1,548.40	5,523.70	5,513.08	10.61	520.446		
1,700.00	1,700.00	1,693.58	1,693.50	5.89	5.43	16.28	5,302.19	1,548.25	5,523.62	5,512.30	11.32	488.150		
1,800.00	1,800.00	1,792.28	1,792.21	6.25	5.78	16.28	5,302.14	1,548.12	5,523.53	5,511.51	12.02	459.643		
1,851.38	1,851.38	1,840.55	1,840.48	6.43	5.95	16.28	5,302.11	1,548.17	5,523.52	5,511.15	12.37	446.564		
1,900.00	1,900.00	1,886.24	1,886.16	6.61	6.11	16.28	5,302.09	1,548.30	5,523.53	5,510.83	12.70	434.855		
2,000.00	2,000.00	1,963.10	1,963.02	6.96	6.37	16.28	5,302.28	1,548.57	5,523.85	5,510.52	13.33	414.490		
2,100.00	2,099.99	2,073.29	2,073.21	7.31	6.75	-79.20	5,302.54	1,549.16	5,524.07	5,510.01	14.06	392.930		
2,200.00	2,199.96	2,178.38	2,178.30	7.65	7.12	-79.22	5,302.56	1,549.93	5,523.79	5,509.03	14.76	374.118		
2,300.00	2,299.86	2,274.70	2,274.61	7.99	7.45	-79.27	5,302.65	1,550.33	5,523.19	5,507.75	15.44	357.655		
2,399.87	2,399.54	2,378.60	2,378.52	8.34	7.81	-79.34	5,302.80	1,550.82	5,522.33	5,506.18	16.15	341.951		
2,500.00	2,499.43	2,493.05	2,492.96	8.69	8.21	-79.41	5,302.71	1,551.37	5,521.09	5,504.19	16.90	326.763		
2,600.00	2,599.19	2,578.63	2,578.55	9.03	8.51	-79.47	5,302.57	1,551.82	5,519.81	5,502.27	17.54	314.629		
2,700.00	2,698.94	2,675.88	2,675.79	9.39	8.85	-79.53	5,302.67	1,552.40	5,518.79	5,500.56	18.23	302.669		
2,800.00	2,798.70	2,769.71	2,769.62	9.74	9.18	-79.60	5,302.82	1,552.70	5,517.78	5,498.86	18.91	291.742		
2,900.00	2,898.46	2,852.54	2,852.45	10.09	9.46	-79.65	5,303.17	1,552.88	5,516.98	5,497.43	19.56	282.120		
3,000.00	2,998.21	2,934.67	2,934.58	10.45	9.75	-79.71	5,303.74	1,553.27	5,516.54	5,496.34	20.20	273.143		
3,100.00	3,097.97	3,037.88	3,037.78	10.80	10.11	-79.78	5,304.61	1,554.07	5,516.32	5,495.41	20.91	263.779		
3,200.00	3,197.73	3,138.32	3,138.22	11.16	10.46	-79.84	5,305.20	1,554.98	5,515.89	5,494.27	21.62	255.127		
3,300.00	3,297.48	3,234.48	3,234.36	11.52	10.80	-79.91	5,305.95	1,555.69	5,515.61	5,493.30	22.31	247.186		
3,400.00	3,397.24	3,335.91	3,335.79	11.88	11.15	-79.97	5,306.71	1,556.48	5,515.32	5,492.29	23.03	239.521		
3,500.00	3,497.00	3,463.84	3,463.72	12.24	11.60	-80.06	5,307.43	1,557.25	5,514.83	5,491.00	23.83	231.395		
3,600.00	3,596.75	3,556.42	3,556.30	12.60	11.92	-80.12	5,307.84	1,557.51	5,514.13	5,489.61	24.52	224.915		
3,700.00	3,696.51	3,657.36	3,657.23	12.96	12.28	-80.19	5,308.33	1,557.72	5,513.46	5,488.23	25.23	218.529		
3,800.00	3,796.27	3,739.13	3,739.01	13.32	12.56	-80.25	5,308.80	1,558.17	5,512.97	5,487.09	25.88	213.048		
3,900.00	3,896.02	3,869.52	3,869.39	13.68	13.02	-80.33	5,309.10	1,559.02	5,512.13	5,485.44	26.69	206.493		
4,000.00	3,995.78	3,958.44	3,958.30	14.04	13.33	-80.39	5,309.34	1,559.82	5,511.44	5,484.08	27.37	201.392		
4,100.00	4,095.54	4,070.11	4,069.96	14.40	13.72	-80.46	5,309.31	1,561.12	5,510.55	5,482.43	28.12	195.968		
4,200.00	4,195.29	4,160.94	4,160.79	14.77	14.03	-80.51	5,309.36	1,562.19	5,509.75	5,480.95	28.80	191.311		
4,300.00	4,295.05	4,262.53	4,262.37	15.13	14.39	-80.58	5,309.66	1,562.91	5,509.07	5,479.55	29.52	186.631		
4,400.00	4,394.81	4,358.28	4,358.13	15.49	14.72	-80.64	5,309.82	1,563.51	5,508.26	5,478.04	30.22	182.291		
4,500.00	4,494.56	4,456.42	4,456.25	15.86	15.07	-80.70	5,310.02	1,565.15	5,507.75	5,476.83	30.92	178.105		
4,600.00	4,594.32	4,564.94	4,564.67	16.22	15.45	-80.72	5,309.17	1,569.71	5,506.93	5,475.26	31.67	173.885		
4,700.00	4,694.08	4,658.35	4,657.92	16.59	15.78	-80.74	5,308.18	1,575.00	5,506.22	5,473.85	32.36	170.132		
4,800.00	4,793.83	4,784.96	4,784.21	16.95	16.23	-80.73	5,306.27	1,583.75	5,505.42	5,472.24	33.18	165.934		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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: 260-GYRO-NS, 10523-MWD+IGRF, 11533-													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	4,893.59	4,911.09	4,909.72	17.32	16.70	-80.69	5,302.77	1,595.72	5,504.03	5,470.01	34.02	161.807		
5,000.00	4,993.35	5,012.05	5,009.94	17.68	17.08	-80.64	5,299.07	1,607.29	5,502.28	5,467.52	34.76	158.278		
5,100.00	5,093.10	5,086.77	5,084.03	18.05	17.37	-80.59	5,296.39	1,616.61	5,500.87	5,465.46	35.41	155.328		
5,200.00	5,192.86	5,183.43	5,179.84	18.42	17.73	-80.53	5,293.17	1,629.02	5,499.82	5,463.67	36.15	152.146		
5,300.00	5,292.62	5,292.66	5,288.24	18.78	18.14	-80.47	5,289.62	1,641.96	5,498.59	5,461.67	36.92	148.913		
5,400.00	5,392.37	5,385.76	5,380.76	19.15	18.48	-80.42	5,286.87	1,651.92	5,497.36	5,459.73	37.63	146.088		
5,500.00	5,492.13	5,476.49	5,470.98	19.52	18.81	-80.39	5,284.47	1,661.30	5,496.33	5,458.00	38.33	143.410		
5,600.00	5,591.89	5,578.58	5,572.50	19.88	19.18	-80.35	5,281.79	1,671.69	5,495.28	5,456.22	39.06	140.680		
5,700.00	5,691.64	5,676.88	5,670.29	20.25	19.54	-80.32	5,279.41	1,681.39	5,494.35	5,454.57	39.78	138.104		
5,800.00	5,791.40	5,785.15	5,778.04	20.62	19.93	-80.28	5,276.69	1,691.61	5,493.22	5,452.68	40.54	135.499		
5,900.00	5,891.16	5,873.58	5,866.07	20.98	20.24	-80.26	5,274.59	1,699.77	5,492.17	5,450.94	41.23	133.223		
6,000.00	5,990.91	5,973.75	5,965.83	21.35	20.60	-80.24	5,272.54	1,708.56	5,491.33	5,449.38	41.95	130.900		
6,100.00	6,090.67	6,074.57	6,066.30	21.72	20.96	-80.22	5,270.50	1,716.74	5,490.33	5,447.65	42.68	128.649		
6,200.00	6,190.42	6,187.23	6,178.60	22.09	21.36	-80.21	5,268.38	1,725.41	5,489.36	5,445.91	43.44	126.355		
6,300.00	6,290.18	6,291.34	6,282.43	22.45	21.73	-80.20	5,266.28	1,732.86	5,488.11	5,443.92	44.18	124.212		
6,400.00	6,389.94	6,390.26	6,381.10	22.82	22.09	-80.20	5,264.37	1,739.66	5,486.87	5,441.97	44.91	122.188		
6,500.00	6,489.69	6,492.83	6,483.43	23.19	22.45	-80.20	5,262.48	1,746.36	5,485.62	5,439.99	45.63	120.209		
6,600.00	6,589.45	6,605.13	6,595.52	23.56	22.84	-80.21	5,260.39	1,752.98	5,484.19	5,437.79	46.40	118.206		
6,700.00	6,689.21	6,698.18	6,688.40	23.93	23.17	-80.22	5,258.76	1,758.20	5,482.79	5,435.70	47.09	116.435		
6,800.00	6,788.96	6,804.72	6,794.78	24.29	23.54	-80.23	5,256.93	1,763.64	5,481.29	5,433.47	47.83	114.603		
6,900.00	6,888.72	6,902.02	6,891.97	24.66	23.88	-80.25	5,255.47	1,768.23	5,479.90	5,431.36	48.54	112.904		
7,000.00	6,988.48	7,009.23	6,999.07	25.03	24.25	-80.28	5,253.77	1,772.84	5,478.31	5,429.03	49.28	111.174		
7,100.00	7,088.23	7,109.95	7,099.68	25.40	24.60	-80.31	5,252.25	1,777.11	5,476.78	5,426.79	50.00	109.545		
7,200.00	7,187.99	7,214.08	7,203.72	25.77	24.96	-80.33	5,250.60	1,781.27	5,475.13	5,424.40	50.73	107.936		
7,300.00	7,287.75	7,325.09	7,314.64	26.14	25.35	-80.37	5,248.88	1,785.26	5,473.40	5,421.92	51.48	106.324		
7,400.00	7,387.50	7,435.57	7,425.05	26.50	25.73	-80.41	5,247.02	1,788.79	5,471.44	5,419.21	52.23	104.758		
7,500.00	7,487.26	7,554.49	7,543.90	26.87	26.14	-80.45	5,244.69	1,792.42	5,469.17	5,416.16	53.01	103.176		
7,600.00	7,587.02	7,657.12	7,646.45	27.24	26.50	-80.49	5,242.49	1,795.64	5,466.76	5,413.03	53.73	101.740		
7,700.00	7,686.77	7,759.16	7,748.41	27.61	26.85	-80.52	5,240.23	1,798.85	5,464.28	5,409.82	54.46	100.345		
7,800.00	7,786.53	7,861.48	7,850.65	27.98	27.21	-80.55	5,237.92	1,802.23	5,461.80	5,406.62	55.18	98.984		
7,900.00	7,886.29	7,976.55	7,965.62	28.35	27.61	-80.59	5,235.11	1,806.09	5,459.16	5,403.22	55.95	97.581		
8,000.00	7,986.04	8,089.71	8,078.69	28.72	28.00	-80.63	5,232.08	1,809.58	5,456.23	5,399.53	56.70	96.222		
8,100.00	8,085.80	8,198.37	8,187.25	29.09	28.38	-80.66	5,228.96	1,812.94	5,453.11	5,395.66	57.45	94.921		
8,200.00	8,185.56	8,290.04	8,278.84	29.46	28.70	-80.70	5,226.37	1,815.66	5,450.00	5,391.86	58.14	93.743		
8,300.00	8,285.31	8,402.74	8,391.44	29.83	29.09	-80.73	5,223.04	1,819.05	5,446.78	5,387.88	58.90	92.482		
8,400.00	8,385.07	8,495.52	8,484.14	30.20	29.41	-80.77	5,220.33	1,821.93	5,443.61	5,384.02	59.59	91.353		
8,500.00	8,484.83	8,608.52	8,597.03	30.56	29.80	-80.80	5,216.86	1,825.39	5,440.29	5,379.94	60.35	90.149		
8,600.00	8,584.58	8,709.28	8,697.69	30.93	30.15	-80.83	5,213.66	1,828.59	5,436.91	5,375.85	61.07	89.032		
8,700.00	8,684.34	8,809.44	8,797.75	31.30	30.50	-80.87	5,210.45	1,831.75	5,433.49	5,371.71	61.78	87.942		
8,800.00	8,784.10	8,900.01	8,888.24	31.67	30.82	-80.90	5,207.64	1,834.49	5,430.16	5,367.68	62.47	86.923		
8,900.00	8,883.85	8,987.59	8,975.74	32.04	31.12	-80.93	5,205.17	1,837.02	5,427.05	5,363.90	63.15	85.943		
9,000.00	8,983.61	9,118.64	9,106.67	32.41	31.57	-80.97	5,201.39	1,841.06	5,423.98	5,360.02	63.97	84.796		
9,100.00	9,083.37	9,236.02	9,223.92	32.78	31.98	-81.01	5,197.14	1,844.92	5,420.20	5,355.46	64.74	83.724		
9,200.00	9,183.12	9,350.09	9,337.84	33.15	32.38	-81.04	5,192.78	1,848.69	5,416.24	5,350.74	65.50	82.689		
9,300.00	9,282.88	9,462.68	9,450.23	33.52	32.77	-81.06	5,187.80	1,853.07	5,411.82	5,345.56	66.26	81.676		
9,400.00	9,382.64	9,560.02	9,547.40	33.89	33.11	-81.08	5,183.56	1,857.05	5,407.53	5,340.56	66.97	80.746		
9,428.07	9,410.64	9,592.13	9,579.44	33.99	33.23	-81.09	5,182.12	1,858.40	5,406.30	5,339.12	67.18	80.469		
9,500.00	9,482.43	9,665.58	9,652.75	34.26	33.48	-81.05	5,178.78	1,861.48	5,403.21	5,335.51	67.70	79.806		
9,600.00	9,582.36	9,822.10	9,808.99	34.62	34.03	-80.97	5,171.25	1,867.14	5,398.94	5,330.35	68.59	78.714		
9,694.65	9,677.00	9,953.92	9,940.54	34.95	34.49	14.62	5,163.65	1,870.93	5,394.12	5,324.76	69.36	77.769		
9,700.00	9,682.35	9,959.80	9,946.41	34.97	34.51	14.62	5,163.31	1,871.07	5,393.84	5,324.44	69.40	77.723		
9,800.00	9,782.35	10,069.68	10,056.07	35.31	34.89	14.67	5,156.78	1,873.51	5,388.65	5,318.54	70.12	76.854		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - PTL		Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11533-															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)					
9,900.00	9,882.35	10,198.97	10,185.05	35.65	35.34	14.72	5,148.49	1,876.62	5,383.04	5,312.15	70.89	75.936				
10,000.00	9,982.35	10,295.38	10,281.21	35.99	35.67	14.77	5,141.99	1,879.24	5,377.22	5,305.65	71.57	75.136				
10,044.69	10,027.04	10,333.62	10,319.36	36.14	35.81	14.78	5,139.50	1,880.16	5,374.67	5,302.81	71.86	74.798				
10,050.00	10,032.35	10,338.17	10,323.89	36.16	35.82	15.21	5,139.21	1,880.26	5,374.35	5,302.46	71.89	74.758				
10,100.00	10,082.26	10,379.00	10,364.64	36.32	35.93	15.38	5,136.64	1,881.10	5,369.03	5,296.86	72.17	74.393				
10,150.00	10,131.76	10,417.64	10,403.20	36.49	36.00	15.66	5,134.29	1,881.88	5,359.64	5,287.23	72.41	74.018				
10,200.00	10,180.46	10,455.49	10,440.97	36.65	36.07	16.08	5,132.06	1,882.65	5,346.27	5,273.63	72.64	73.598				
10,250.00	10,227.98	10,492.27	10,477.68	36.81	36.13	16.65	5,129.97	1,883.40	5,329.00	5,256.13	72.86	73.137				
10,300.00	10,273.98	10,523.00	10,508.36	36.95	36.19	17.39	5,128.27	1,884.03	5,307.96	5,234.89	73.07	72.644				
10,350.00	10,318.11	10,523.00	10,508.36	37.09	36.19	18.25	5,128.27	1,884.03	5,283.48	5,210.26	73.22	72.159				
10,400.00	10,360.01	10,549.34	10,534.67	37.21	36.19	19.39	5,127.04	1,884.41	5,255.59	5,182.24	73.35	71.654				
10,450.00	10,399.38	10,560.68	10,546.00	37.32	36.19	20.78	5,126.64	1,884.48	5,224.66	5,151.20	73.47	71.118				
10,500.00	10,435.92	10,586.00	10,571.31	37.42	36.19	22.58	5,126.01	1,884.42	5,190.90	5,117.34	73.56	70.564				
10,550.00	10,469.35	10,586.00	10,571.31	37.51	36.19	24.74	5,126.01	1,884.42	5,154.32	5,080.67	73.65	69.981				
10,600.00	10,499.41	10,586.00	10,571.31	37.59	36.19	27.48	5,126.01	1,884.42	5,115.36	5,041.63	73.73	69.383				
10,650.00	10,525.87	10,586.00	10,571.31	37.66	36.19	31.00	5,126.01	1,884.42	5,074.26	5,000.48	73.78	68.771				
10,700.00	10,548.54	10,586.00	10,571.31	37.74	36.19	35.62	5,126.01	1,884.42	5,031.28	4,957.46	73.83	68.149				
10,750.00	10,567.24	10,586.00	10,571.31	37.84	36.19	41.77	5,126.01	1,884.42	4,986.72	4,912.86	73.86	67.519				
10,800.00	10,581.83	10,586.00	10,571.31	37.97	36.19	50.04	5,126.01	1,884.42	4,940.86	4,866.99	73.87	66.883				
10,850.00	10,592.19	10,599.54	10,584.85	38.11	36.19	61.46	5,125.95	1,884.17	4,893.89	4,820.01	73.88	66.242				
10,900.00	10,598.26	10,600.41	10,585.72	38.25	36.19	75.58	5,125.95	1,884.15	4,846.40	4,772.53	73.88	65.601				
10,944.69	10,600.00	10,600.70	10,586.01	38.39	36.19	89.87	5,125.96	1,884.14	4,803.71	4,729.84	73.87	65.030				
11,000.00	10,600.00	10,600.77	10,586.08	38.56	36.19	89.88	5,125.96	1,884.14	4,750.87	4,677.01	73.86	64.324				
11,100.00	10,600.00	10,600.91	10,586.22	38.91	36.19	89.88	5,125.96	1,884.13	4,655.48	4,581.63	73.84	63.045				
11,200.00	10,600.00	10,601.06	10,586.37	39.31	36.19	89.89	5,125.96	1,884.13	4,560.28	4,486.45	73.83	61.763				
11,300.00	10,600.00	10,601.21	10,586.52	39.76	36.19	89.90	5,125.96	1,884.13	4,465.30	4,391.46	73.83	60.477				
11,400.00	10,600.00	10,601.38	10,586.69	40.25	36.19	89.90	5,125.96	1,884.12	4,370.54	4,296.69	73.84	59.187				
11,500.00	10,600.00	10,601.55	10,586.86	40.79	36.19	89.91	5,125.97	1,884.11	4,276.01	4,202.15	73.86	57.893				
11,600.00	10,600.00	10,601.73	10,587.04	41.37	36.19	89.92	5,125.97	1,884.11	4,181.74	4,107.86	73.89	56.595				
11,700.00	10,600.00	10,601.93	10,587.24	41.99	36.19	89.92	5,125.97	1,884.10	4,087.75	4,013.82	73.93	55.292				
11,800.00	10,600.00	10,602.13	10,587.44	42.65	36.19	89.93	5,125.97	1,884.10	3,994.05	3,920.06	73.99	53.984				
11,900.00	10,600.00	10,602.35	10,587.66	43.35	36.19	89.94	5,125.97	1,884.09	3,900.65	3,826.60	74.06	52.672				
12,000.00	10,600.00	10,602.59	10,587.90	44.09	36.19	89.95	5,125.98	1,884.08	3,807.60	3,733.45	74.14	51.354				
12,100.00	10,600.00	10,602.84	10,588.15	44.86	36.19	89.96	5,125.98	1,884.07	3,714.90	3,640.65	74.25	50.031				
12,200.00	10,600.00	10,603.11	10,588.42	45.67	36.19	89.97	5,125.98	1,884.07	3,622.60	3,548.22	74.38	48.703				
12,300.00	10,600.00	10,603.40	10,588.70	46.50	36.19	89.98	5,125.99	1,884.06	3,530.71	3,456.17	74.54	47.369				
12,400.00	10,600.00	10,603.71	10,589.02	47.37	36.19	90.00	5,125.99	1,884.05	3,439.27	3,364.56	74.72	46.030				
12,500.00	10,600.00	10,604.04	10,589.35	48.26	36.19	90.01	5,126.00	1,884.03	3,348.33	3,273.40	74.93	44.685				
12,600.00	10,600.00	10,604.41	10,589.72	49.18	36.19	90.03	5,126.00	1,884.02	3,257.91	3,182.74	75.18	43.335				
12,700.00	10,600.00	10,604.80	10,590.11	50.13	36.19	90.04	5,126.01	1,884.01	3,168.08	3,092.61	75.47	41.980				
12,800.00	10,600.00	10,605.24	10,590.55	51.10	36.19	90.06	5,126.02	1,883.99	3,078.86	3,003.07	75.80	40.620				
12,900.00	10,600.00	10,605.71	10,591.02	52.09	36.19	90.08	5,126.03	1,883.97	2,990.33	2,914.16	76.18	39.255				
13,000.00	10,600.00	10,606.24	10,591.54	53.10	36.19	90.10	5,126.04	1,883.96	2,902.55	2,825.94	76.61	37.886				
13,100.00	10,600.00	10,606.81	10,592.12	54.14	36.19	90.12	5,126.05	1,883.93	2,815.58	2,738.47	77.11	36.515				
13,200.00	10,600.00	10,607.46	10,592.76	55.19	36.19	90.15	5,126.06	1,883.91	2,729.50	2,651.83	77.67	35.142				
13,300.00	10,600.00	10,608.18	10,593.48	56.26	36.19	90.18	5,126.08	1,883.88	2,644.40	2,566.09	78.31	33.768				
13,400.00	10,600.00	10,618.00	10,603.29	57.35	36.19	90.58	5,126.39	1,883.41	2,560.42	2,481.40	79.02	32.400				
13,500.00	10,600.00	10,618.00	10,603.29	58.45	36.19	90.58	5,126.39	1,883.41	2,477.57	2,397.74	79.84	31.032				
13,600.00	10,600.00	10,618.00	10,603.29	59.57	36.19	90.58	5,126.39	1,883.41	2,396.04	2,315.28	80.75	29.671				
13,700.00	10,600.00	10,618.00	10,603.29	60.71	36.19	90.58	5,126.39	1,883.41	2,315.95	2,234.17	81.78	28.320				
13,800.00	10,600.00	10,618.00	10,603.29	61.85	36.19	90.58	5,126.39	1,883.41	2,237.46	2,154.54	82.92	26.983				
13,900.00	10,600.00	10,618.00	10,603.29	63.01	36.19	90.58	5,126.39	1,883.41	2,160.75	2,076.56	84.19	25.664				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 26-23S-33E - Coachwhip 26 Federal 2H - Original - PTL												Offset Site Error:	0.00 ft
Survey Program: 260-GYRO-NS, 10523-MWD+IGRF, 11533-												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	
14,000.00	10,600.00	10,618.00	10,603.29	64.18	36.19	90.58	5,126.39	1,883.41	2,086.02	2,000.41	85.60	24.368	
14,100.00	10,600.00	10,620.13	10,605.41	65.37	36.19	90.66	5,126.48	1,883.30	2,013.48	1,926.32	87.15	23.102	
14,200.00	10,600.00	10,623.80	10,609.07	66.56	36.19	90.81	5,126.65	1,883.08	1,943.37	1,854.51	88.85	21.872	
14,300.00	10,600.00	10,628.56	10,613.82	67.76	36.19	91.00	5,126.91	1,882.76	1,875.96	1,785.26	90.70	20.684	
14,400.00	10,600.00	10,635.00	10,620.23	68.98	36.20	91.27	5,127.31	1,882.29	1,811.54	1,718.85	92.69	19.544	
14,500.00	10,600.00	10,644.19	10,629.36	70.20	36.20	91.64	5,128.00	1,881.52	1,750.44	1,655.63	94.81	18.462	
14,600.00	10,600.00	11,116.96	11,003.66	71.43	36.74	108.95	5,293.16	1,679.42	1,688.67	1,597.67	90.99	18.558	
14,700.00	10,600.00	11,188.13	11,038.34	72.67	37.05	111.18	5,332.06	1,630.99	1,623.89	1,532.07	91.83	17.684	
14,800.00	10,600.00	11,226.02	11,054.26	73.92	37.25	112.31	5,354.26	1,604.75	1,560.67	1,467.40	93.27	16.733	
14,900.00	10,600.00	11,248.00	11,062.68	75.17	37.38	112.95	5,367.92	1,589.73	1,500.23	1,405.16	95.08	15.779	
15,000.00	10,600.00	11,280.00	11,074.11	76.44	37.58	113.84	5,388.96	1,568.51	1,443.06	1,346.28	96.78	14.911	
15,100.00	10,600.00	11,299.82	11,080.86	77.70	37.71	114.38	5,402.67	1,555.89	1,389.57	1,290.78	98.79	14.066	
15,200.00	10,600.00	11,324.58	11,089.06	78.98	37.88	115.05	5,420.49	1,540.78	1,340.16	1,239.40	100.76	13.301	
15,300.00	10,600.00	11,355.69	11,098.96	80.26	38.10	115.85	5,443.89	1,522.82	1,295.08	1,192.47	102.61	12.621	
15,400.00	10,600.00	11,392.88	11,109.67	81.55	38.37	116.77	5,473.13	1,502.50	1,254.07	1,149.73	104.34	12.019	
15,484.47	10,600.00	11,421.91	11,117.30	82.64	38.59	117.43	5,496.96	1,487.79	1,222.98	1,117.14	105.84	11.555 CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.90	-10.90	0.50		16.40	5,302.03	1,560.31	5,526.85					
100.00	100.00	89.10	89.10	0.52		16.40	5,302.03	1,560.31	5,526.85	5,526.34	0.52	N/A		
200.00	200.00	189.10	189.10	0.70		16.40	5,302.03	1,560.31	5,526.85	5,526.15	0.70	7,871.852		
300.00	300.00	289.10	289.10	0.99		16.40	5,302.03	1,560.31	5,526.85	5,525.87	0.99	5,597.747		
400.00	400.00	395.37	395.37	1.31		16.40	5,302.01	1,560.33	5,526.85	5,525.54	1.31	4,221.893		
401.23	401.23	396.82	396.82	1.31		16.40	5,302.01	1,560.33	5,526.85	5,525.53	1.31	4,208.823		
500.00	500.00	490.13	490.13	1.65		16.40	5,302.05	1,560.30	5,526.86	5,525.22	1.65	3,357.575		
600.00	600.00	589.10	589.10	1.99		16.40	5,302.03	1,560.31	5,526.85	5,524.86	1.99	2,776.472		
700.00	700.00	689.12	689.10	2.34		16.40	5,302.03	1,560.31	5,526.85	5,524.51	2.34	2,362.594		
800.00	800.00	789.13	789.10	2.69		16.40	5,302.03	1,560.31	5,526.85	5,524.16	2.69	2,054.139		
900.00	900.00	889.15	889.10	3.04		16.40	5,302.03	1,560.31	5,526.85	5,523.81	3.04	1,815.923		
1,000.00	1,000.00	989.23	989.18	3.40		16.40	5,302.11	1,560.03	5,526.85	5,523.46	3.40	1,626.664		
1,099.83	1,099.83	1,089.00	1,088.93	3.75		16.40	5,302.06	1,560.19	5,526.85	5,523.10	3.75	1,473.036		
1,100.00	1,100.00	1,089.16	1,089.09	3.75		16.40	5,302.06	1,560.19	5,526.85	5,523.09	3.75	1,472.804		
1,193.83	1,193.83	1,183.00	1,182.93	4.09		16.40	5,301.98	1,560.19	5,526.78	5,522.69	4.09	1,352.546		
1,200.00	1,200.00	1,187.44	1,187.37	4.11		16.40	5,301.99	1,560.20	5,526.78	5,522.67	4.11	1,345.319		
1,300.00	1,300.00	1,287.94	1,287.87	4.46		16.40	5,301.99	1,560.28	5,526.81	5,522.34	4.46	1,238.036		
1,400.00	1,400.00	1,389.17	1,389.10	4.82		16.40	5,302.03	1,560.31	5,526.85	5,522.03	4.82	1,146.517		
1,500.00	1,500.00	1,489.18	1,489.10	5.18		16.40	5,302.03	1,560.31	5,526.85	5,521.68	5.18	1,067.531		
1,600.00	1,600.00	1,589.18	1,589.10	5.53		16.40	5,302.03	1,560.31	5,526.85	5,521.32	5.53	998.685		
1,700.00	1,700.00	1,689.18	1,689.10	5.89		16.40	5,302.03	1,560.31	5,526.85	5,520.96	5.89	938.150		
1,800.00	1,800.00	1,789.18	1,789.10	6.25		16.40	5,302.03	1,560.31	5,526.85	5,520.60	6.25	884.512		
1,900.00	1,900.00	1,889.18	1,889.10	6.61		16.40	5,302.03	1,560.31	5,526.85	5,520.25	6.61	836.659		
2,000.00	2,000.00	1,989.18	1,989.10	6.96		16.40	5,302.03	1,560.31	5,526.85	5,519.89	6.96	793.705		
2,100.00	2,099.99	2,098.47	2,098.39	7.31		-79.09	5,302.09	1,560.36	5,526.76	5,519.45	7.31	755.922		
2,200.00	2,199.96	2,190.59	2,190.51	7.65		-79.12	5,302.03	1,560.41	5,526.22	5,518.56	7.65	722.260		
2,300.00	2,299.86	2,291.18	2,291.09	7.99		-79.17	5,302.04	1,560.35	5,525.39	5,517.40	7.99	691.226		
2,399.87	2,399.54	2,388.73	2,388.64	8.34		-79.25	5,302.03	1,560.31	5,524.23	5,515.89	8.34	662.540		
2,500.00	2,499.43	2,495.92	2,495.83	8.69		-79.32	5,302.05	1,560.35	5,522.96	5,514.27	8.69	635.878		
2,600.00	2,599.19	2,586.48	2,586.39	9.03		-79.39	5,302.01	1,560.35	5,521.63	5,512.59	9.03	611.162		
2,700.00	2,698.94	2,696.02	2,695.93	9.39		-79.47	5,302.03	1,560.33	5,520.36	5,510.98	9.39	588.190		
2,800.00	2,798.70	2,804.11	2,787.80	9.74		-79.53	5,302.03	1,560.31	5,519.08	5,509.34	9.74	566.779		
2,900.00	2,898.46	2,900.87	2,900.78	10.09		-79.61	5,302.01	1,560.30	5,517.80	5,507.71	10.09	546.797		
3,000.00	2,998.21	2,987.41	2,987.31	10.45		-79.67	5,302.03	1,560.31	5,516.55	5,506.11	10.45	528.100		
3,100.00	3,097.97	3,087.18	3,087.07	10.80		-79.74	5,302.03	1,560.31	5,515.31	5,504.50	10.80	510.584		
3,200.00	3,197.73	3,186.94	3,186.83	11.16		-79.81	5,302.03	1,560.31	5,514.07	5,502.91	11.16	494.143		
3,300.00	3,297.48	3,286.70	3,286.58	11.52		-79.89	5,302.03	1,560.31	5,512.83	5,501.32	11.52	478.683		
3,400.00	3,397.24	3,386.46	3,386.34	11.88		-79.96	5,302.03	1,560.31	5,511.61	5,499.74	11.88	464.125		
3,500.00	3,497.00	3,486.22	3,486.10	12.24		-80.03	5,302.03	1,560.31	5,510.40	5,498.16	12.23	450.393		
3,600.00	3,596.75	3,585.98	3,585.85	12.60		-80.10	5,302.03	1,560.31	5,509.19	5,496.59	12.59	437.421		
3,700.00	3,696.51	3,685.74	3,685.61	12.96		-80.17	5,302.03	1,560.31	5,507.99	5,495.04	12.96	425.151		
3,800.00	3,796.27	3,785.50	3,785.37	13.32		-80.24	5,302.03	1,560.31	5,506.80	5,493.49	13.32	413.529		
3,900.00	3,896.02	3,885.46	3,885.33	13.68		-80.31	5,302.02	1,560.37	5,505.63	5,491.95	13.68	402.506		
4,000.00	3,995.78	3,990.98	3,990.84	14.04		-80.39	5,302.07	1,560.41	5,504.52	5,490.48	14.04	392.044		
4,100.00	4,095.54	4,085.73	4,085.59	14.40		-80.46	5,302.01	1,560.47	5,503.31	5,488.91	14.40	382.085		
4,200.00	4,195.29	4,187.25	4,187.10	14.77		-80.53	5,302.04	1,560.45	5,502.18	5,487.41	14.77	372.612		
4,300.00	4,295.05	4,290.71	4,290.56	15.13		-80.60	5,302.07	1,560.37	5,501.04	5,485.91	15.13	363.586		
4,400.00	4,394.81	4,387.35	4,387.19	15.49		-80.67	5,302.04	1,560.36	5,499.87	5,484.38	15.49	354.970		
4,500.00	4,494.56	4,506.11	4,505.95	15.86		-80.76	5,302.03	1,560.30	5,498.76	5,482.90	15.86	346.756		
4,600.00	4,594.32	4,588.77	4,588.54	16.22		-80.82	5,301.98	1,560.54	5,497.62	5,481.39	16.22	338.886		
4,700.00	4,694.08	4,695.96	4,695.57	16.59		-80.89	5,302.04	1,560.28	5,496.50	5,479.91	16.59	331.368		
4,800.00	4,793.83	4,801.56	4,800.98	16.95		-80.97	5,302.11	1,559.87	5,495.38	5,478.43	16.95	324.168		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,893.59	4,883.45	4,882.59	17.32		-81.01	5,301.52	1,562.28	5,494.29	5,476.97	17.32	317.258		
5,000.00	4,993.35	4,984.27	4,982.45	17.68		-81.10	5,302.03	1,560.31	5,493.21	5,475.52	17.68	310.638		
5,100.00	5,093.10	5,076.13	5,074.10	18.05		-81.15	5,301.46	1,562.08	5,492.02	5,473.97	18.05	304.274		
5,200.00	5,192.86	5,185.00	5,181.96	18.42		-81.24	5,302.03	1,560.31	5,491.06	5,472.65	18.42	298.175		
5,300.00	5,292.62	5,285.94	5,281.72	18.78		-81.32	5,302.03	1,560.31	5,490.00	5,471.22	18.78	292.304		
5,400.00	5,392.37	5,386.31	5,381.47	19.15		-81.39	5,302.03	1,560.31	5,488.95	5,469.80	19.15	286.656		
5,500.00	5,492.13	5,486.61	5,481.23	19.52		-81.46	5,302.03	1,560.31	5,487.91	5,468.39	19.51	281.217		
5,600.00	5,591.89	5,586.89	5,580.99	19.88		-81.53	5,302.03	1,560.31	5,486.87	5,466.99	19.88	275.977		
5,700.00	5,691.64	5,687.15	5,680.74	20.25		-81.60	5,302.03	1,560.31	5,485.85	5,465.60	20.25	270.925		
5,800.00	5,791.40	5,786.89	5,779.95	20.62		-81.66	5,301.74	1,561.40	5,484.81	5,464.20	20.62	266.050		
5,900.00	5,891.16	5,887.17	5,879.79	20.98		-81.74	5,301.78	1,561.32	5,483.82	5,462.83	20.98	261.347		
6,000.00	5,990.91	5,990.92	5,983.13	21.35		-81.81	5,301.86	1,561.13	5,482.85	5,461.50	21.35	256.805		
6,100.00	6,090.67	6,087.13	6,078.99	21.72		-81.88	5,301.85	1,561.04	5,481.83	5,460.11	21.72	252.412		
6,200.00	6,190.42	6,190.41	6,181.95	22.09		-81.96	5,301.90	1,560.91	5,480.86	5,458.78	22.09	248.167		
6,300.00	6,290.18	6,287.97	6,279.28	22.45		-82.03	5,302.03	1,560.31	5,479.88	5,457.43	22.45	244.058		
6,400.00	6,389.94	6,381.89	6,373.05	22.82		-82.10	5,301.89	1,560.81	5,478.90	5,456.08	22.82	240.080		
6,500.00	6,489.69	6,482.97	6,473.73	23.19		-82.17	5,301.96	1,560.56	5,477.96	5,454.77	23.19	236.230		
6,600.00	6,589.45	6,581.47	6,572.01	23.56		-82.24	5,301.99	1,560.45	5,477.01	5,453.46	23.56	232.498		
6,700.00	6,689.21	6,688.05	6,678.31	23.93		-82.32	5,302.03	1,560.31	5,476.08	5,452.15	23.93	228.883		
6,800.00	6,788.96	6,787.96	6,778.06	24.29		-82.40	5,302.03	1,560.31	5,475.15	5,450.85	24.29	225.375		
6,900.00	6,888.72	6,887.83	6,877.82	24.66		-82.47	5,302.03	1,560.31	5,474.23	5,449.56	24.66	221.972		
7,000.00	6,988.48	6,987.70	6,977.58	25.03		-82.54	5,302.03	1,560.31	5,473.31	5,448.28	25.03	218.668		
7,100.00	7,088.23	7,087.55	7,077.33	25.40		-82.61	5,302.03	1,560.31	5,472.41	5,447.01	25.40	215.460		
7,200.00	7,187.99	7,187.40	7,177.09	25.77		-82.68	5,302.03	1,560.31	5,471.52	5,445.75	25.77	212.344		
7,300.00	7,287.75	7,287.24	7,276.85	26.14		-82.76	5,302.03	1,560.31	5,470.63	5,444.49	26.14	209.315		
7,400.00	7,387.50	7,387.03	7,376.56	26.50		-82.82	5,301.84	1,560.70	5,469.65	5,443.15	26.50	206.366		
7,500.00	7,487.26	7,484.70	7,474.17	26.87		-82.90	5,301.83	1,560.67	5,468.77	5,441.89	26.87	203.501		
7,600.00	7,587.02	7,581.52	7,570.93	27.24		-82.97	5,301.79	1,560.66	5,467.87	5,440.63	27.24	200.712		
7,700.00	7,686.77	7,679.73	7,669.07	27.61		-83.04	5,301.78	1,560.69	5,467.01	5,439.40	27.61	197.999		
7,800.00	7,786.53	7,777.64	7,766.91	27.98		-83.11	5,301.78	1,560.67	5,466.17	5,438.19	27.98	195.358		
7,900.00	7,886.29	7,875.12	7,864.31	28.35		-83.18	5,301.79	1,560.67	5,465.35	5,437.00	28.35	192.786		
8,000.00	7,986.04	7,971.81	7,960.93	28.72		-83.25	5,301.78	1,560.68	5,464.52	5,435.80	28.72	190.279		
8,100.00	8,085.80	8,067.63	8,056.66	29.09		-83.32	5,301.77	1,560.63	5,463.70	5,434.61	29.09	187.835		
8,200.00	8,185.56	8,163.83	8,152.78	29.46		-83.39	5,301.75	1,560.63	5,462.89	5,433.43	29.46	185.453		
8,300.00	8,285.31	8,259.92	8,248.79	29.83		-83.46	5,301.75	1,560.61	5,462.10	5,432.28	29.83	183.131		
8,400.00	8,385.07	8,357.41	8,346.20	30.20		-83.53	5,301.79	1,560.57	5,461.36	5,431.16	30.20	180.867		
8,500.00	8,484.83	8,485.29	8,473.93	30.56		-83.63	5,302.03	1,560.31	5,460.68	5,430.12	30.56	178.662		
8,600.00	8,584.58	8,585.13	8,573.68	30.93		-83.70	5,302.03	1,560.31	5,459.91	5,428.98	30.93	176.504		
8,700.00	8,684.34	8,684.98	8,673.44	31.30		-83.77	5,302.03	1,560.31	5,459.15	5,427.85	31.30	174.397		
8,800.00	8,784.10	8,784.84	8,773.20	31.67		-83.84	5,302.03	1,560.31	5,458.40	5,426.72	31.67	172.339		
8,900.00	8,883.85	8,884.69	8,872.95	32.04		-83.92	5,302.03	1,560.31	5,457.65	5,425.61	32.04	170.328		
9,000.00	8,983.61	8,984.52	8,972.71	32.41		-83.99	5,302.03	1,560.31	5,456.91	5,424.50	32.41	168.364		
9,100.00	9,083.37	9,084.36	9,072.47	32.78		-84.06	5,302.03	1,560.31	5,456.19	5,423.41	32.78	166.444		
9,200.00	9,183.12	9,181.87	9,169.87	33.15		-84.13	5,301.62	1,560.71	5,455.14	5,421.99	33.15	164.556		
9,300.00	9,282.88	9,277.66	9,265.55	33.52		-84.20	5,301.60	1,560.69	5,454.41	5,420.89	33.52	162.720		
9,400.00	9,382.64	9,374.02	9,361.79	33.89		-84.27	5,301.59	1,560.70	5,453.70	5,419.81	33.89	160.924		
9,428.07	9,410.64	9,384.11	9,371.88	33.99		-84.27	5,301.63	1,560.66	5,453.61	5,419.61	33.99	160.428		
9,500.00	9,482.43	9,469.57	9,457.18	34.26		-84.32	5,301.50	1,560.78	5,453.02	5,418.77	34.26	159.176		
9,596.52	9,578.88	9,566.78	9,554.22	34.61		-84.36	5,301.52	1,560.81	5,452.67	5,418.07	34.61	157.566		
9,600.00	9,582.36	9,567.99	9,555.43	34.62		-84.36	5,301.52	1,560.80	5,452.68	5,418.06	34.62	157.508		
9,676.07	9,658.42	9,657.65	9,644.91	34.88		-84.38	5,301.49	1,560.83	5,452.52	5,417.63	34.88	156.310		
9,694.65	9,677.00	9,663.67	9,650.93	34.95		11.10	5,301.50	1,560.81	5,452.54	5,417.60	34.95	156.020		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:													Offset Well Error:	0.00 ft
Reference													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,700.00	9,682.35	9,665.41	9,652.66	34.97		11.10	5,301.51	1,560.81	5,452.56	5,417.59	34.97	155.940		
9,769.03	9,751.38	9,751.71	9,738.80	35.20		11.10	5,301.51	1,560.77	5,452.52	5,417.32	35.20	154.902		
9,800.00	9,782.35	9,761.75	9,748.83	35.31		11.10	5,301.54	1,560.75	5,452.59	5,417.29	35.31	154.440		
9,863.24	9,845.59	9,844.60	9,831.51	35.52		11.10	5,301.45	1,560.69	5,452.44	5,416.92	35.52	153.503		
9,900.00	9,882.35	9,854.67	9,841.58	35.65		11.10	5,301.48	1,560.67	5,452.55	5,416.91	35.65	152.966		
9,954.14	9,936.49	9,936.63	9,923.36	35.83		11.10	5,301.34	1,560.66	5,452.33	5,416.50	35.83	152.175		
10,000.00	9,982.35	9,948.05	9,934.77	35.99		11.10	5,301.39	1,560.64	5,452.50	5,416.51	35.99	151.518		
10,044.69	10,027.04	10,029.58	10,016.14	36.14		11.09	5,302.03	1,560.31	5,452.94	5,416.81	36.14	150.894		
10,050.00	10,032.35	10,031.12	10,017.66	36.16		11.52	5,301.34	1,560.58	5,452.30	5,416.14	36.16	150.801		
10,100.00	10,082.26	10,043.34	10,029.87	36.32		11.57	5,301.40	1,560.55	5,449.91	5,413.59	36.33	150.032		
10,150.00	10,131.76	10,126.43	10,112.77	36.49		11.73	5,301.33	1,560.58	5,442.85	5,406.36	36.49	149.154		
10,200.00	10,180.46	10,183.40	10,169.56	36.65		11.99	5,302.03	1,560.31	5,432.44	5,395.79	36.65	148.213		
10,250.00	10,227.98	10,221.20	10,207.32	36.81		12.35	5,301.25	1,560.62	5,416.59	5,379.78	36.81	147.160		
10,300.00	10,273.98	10,277.18	10,263.08	36.95		12.85	5,302.03	1,560.31	5,398.13	5,361.18	36.95	146.084		
10,350.00	10,318.11	10,314.36	10,300.23	37.09		13.50	5,301.25	1,560.65	5,374.43	5,337.34	37.09	144.914		
10,400.00	10,360.01	10,323.70	10,309.56	37.21		14.26	5,301.29	1,560.63	5,347.93	5,310.72	37.21	143.721		
10,450.00	10,399.38	10,402.81	10,388.48	37.32		15.38	5,302.03	1,560.31	5,318.30	5,280.98	37.32	142.511		
10,500.00	10,435.92	10,439.35	10,425.02	37.42		16.72	5,302.03	1,560.31	5,284.92	5,247.51	37.41	141.254		
10,550.00	10,469.35	10,452.11	10,437.74	37.51		18.37	5,300.77	1,560.73	5,247.45	5,209.95	37.50	139.943		
10,600.00	10,499.41	10,462.85	10,448.47	37.59		20.48	5,300.84	1,560.70	5,208.57	5,171.00	37.57	138.654		
10,650.00	10,525.87	10,472.43	10,458.04	37.66		23.25	5,300.94	1,560.67	5,167.36	5,129.74	37.62	137.359		
10,700.00	10,548.54	10,552.28	10,537.64	37.74		27.69	5,302.03	1,560.31	5,124.50	5,086.84	37.66	136.090		
10,750.00	10,567.24	10,557.82	10,543.16	37.84		33.17	5,301.61	1,560.48	5,078.85	5,041.17	37.68	134.777		
10,800.00	10,581.83	10,560.83	10,546.17	37.97		41.02	5,301.62	1,560.47	5,032.22	4,994.52	37.70	133.480		
10,850.00	10,592.19	10,595.98	10,581.29	38.11		53.68	5,302.03	1,560.31	4,984.80	4,947.09	37.70	132.211		
10,900.00	10,598.26	10,602.00	10,587.31	38.25		70.98	5,301.96	1,560.28	4,936.32	4,898.62	37.70	130.932		
10,944.69	10,600.00	10,602.46	10,587.77	38.39		89.93	5,301.96	1,560.28	4,892.78	4,855.09	37.69	129.800		
11,000.00	10,600.00	10,602.46	10,587.77	38.56		89.93	5,301.96	1,560.28	4,838.87	4,801.19	37.68	128.406		
11,100.00	10,600.00	10,602.47	10,587.78	38.91		89.93	5,301.96	1,560.28	4,741.49	4,703.82	37.67	125.878		
11,200.00	10,600.00	10,602.47	10,587.78	39.31		89.93	5,301.96	1,560.28	4,644.22	4,606.56	37.65	123.338		
11,300.00	10,600.00	10,602.48	10,587.79	39.76		89.93	5,301.96	1,560.28	4,547.06	4,509.42	37.65	120.785		
11,400.00	10,600.00	10,602.49	10,587.80	40.25		89.93	5,301.96	1,560.28	4,450.04	4,412.39	37.64	118.219		
11,500.00	10,600.00	10,602.50	10,587.81	40.79		89.93	5,301.96	1,560.28	4,353.14	4,315.50	37.64	115.639		
11,600.00	10,600.00	10,602.50	10,587.81	41.37		89.93	5,301.96	1,560.28	4,256.39	4,218.74	37.65	113.045		
11,700.00	10,600.00	10,602.51	10,587.82	41.99		89.93	5,301.96	1,560.28	4,159.80	4,122.13	37.67	110.436		
11,800.00	10,600.00	10,602.52	10,587.83	42.65		89.93	5,301.96	1,560.28	4,063.37	4,025.68	37.69	107.811		
11,900.00	10,600.00	10,602.53	10,587.84	43.35		89.93	5,301.96	1,560.28	3,967.11	3,929.39	37.72	105.170		
12,000.00	10,600.00	10,602.54	10,587.85	44.09		89.93	5,301.96	1,560.28	3,871.05	3,833.29	37.76	102.512		
12,100.00	10,600.00	10,602.55	10,587.86	44.86		89.93	5,301.96	1,560.28	3,775.19	3,737.37	37.81	99.836		
12,200.00	10,600.00	10,602.56	10,587.87	45.67		89.94	5,301.96	1,560.28	3,679.55	3,641.67	37.88	97.141		
12,300.00	10,600.00	10,602.57	10,587.88	46.50		89.94	5,301.96	1,560.28	3,584.15	3,546.19	37.96	94.427		
12,400.00	10,600.00	10,602.58	10,587.89	47.37		89.94	5,301.96	1,560.28	3,489.00	3,450.95	38.05	91.692		
12,500.00	10,600.00	10,602.59	10,587.90	48.26		89.94	5,301.96	1,560.28	3,394.14	3,355.97	38.16	88.935		
12,600.00	10,600.00	10,602.60	10,587.91	49.18		89.94	5,301.96	1,560.28	3,299.58	3,261.28	38.30	86.156		
12,700.00	10,600.00	10,602.61	10,587.92	50.13		89.94	5,301.96	1,560.28	3,205.34	3,166.89	38.45	83.355		
12,800.00	10,600.00	10,602.62	10,587.93	51.10		89.94	5,301.96	1,560.28	3,111.47	3,072.83	38.64	80.530		
12,900.00	10,600.00	10,602.63	10,587.94	52.09		89.94	5,301.96	1,560.28	3,017.99	2,979.14	38.85	77.681		
13,000.00	10,600.00	10,602.65	10,587.96	53.10		89.94	5,301.96	1,560.28	2,924.95	2,885.85	39.10	74.808		
13,100.00	10,600.00	10,602.66	10,587.97	54.14		89.94	5,301.96	1,560.28	2,832.38	2,792.99	39.39	71.911		
13,200.00	10,600.00	10,602.67	10,587.98	55.19		89.94	5,301.96	1,560.28	2,740.33	2,700.61	39.72	68.992		
13,300.00	10,600.00	10,602.69	10,588.00	56.26		89.94	5,301.96	1,560.28	2,648.85	2,608.75	40.10	66.050		
13,400.00	10,600.00	10,602.70	10,588.01	57.35		89.94	5,301.96	1,560.28	2,558.02	2,517.47	40.55	63.090		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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:												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)			
13,500.00	10,600.00	10,602.72	10,588.03	58.45		89.94	5,301.96	1,560.28	2,467.89	2,426.84	41.05	60.113		
13,600.00	10,600.00	10,602.73	10,588.04	59.57		89.94	5,301.96	1,560.28	2,378.55	2,336.91	41.64	57.123		
13,700.00	10,600.00	10,602.75	10,588.06	60.71		89.95	5,301.96	1,560.28	2,290.10	2,247.79	42.31	54.127		
13,800.00	10,600.00	10,602.77	10,588.08	61.85		89.95	5,301.96	1,560.28	2,202.63	2,159.55	43.08	51.131		
13,900.00	10,600.00	10,602.79	10,588.10	63.01		89.95	5,301.96	1,560.28	2,116.27	2,072.31	43.96	48.143		
14,000.00	10,600.00	10,602.81	10,588.12	64.18		89.95	5,301.96	1,560.28	2,031.17	1,986.20	44.96	45.175		
14,100.00	10,600.00	10,602.83	10,588.14	65.37		89.95	5,301.96	1,560.28	1,947.48	1,901.37	46.11	42.237		
14,200.00	10,600.00	10,602.85	10,588.16	66.56		89.95	5,301.96	1,560.28	1,865.39	1,817.98	47.41	39.346		
14,300.00	10,600.00	10,602.87	10,588.18	67.76		89.95	5,301.96	1,560.28	1,785.14	1,736.25	48.89	36.516		
14,400.00	10,600.00	10,602.89	10,588.20	68.98		89.95	5,301.96	1,560.28	1,706.97	1,656.42	50.55	33.765		
14,500.00	10,600.00	10,602.92	10,588.23	70.20		89.95	5,301.96	1,560.28	1,631.19	1,578.76	52.43	31.113		
14,600.00	10,600.00	10,602.95	10,588.26	71.43		89.96	5,301.96	1,560.28	1,558.15	1,503.62	54.52	28.577		
14,700.00	10,600.00	10,602.97	10,588.28	72.67		89.96	5,301.96	1,560.28	1,488.24	1,431.39	56.85	26.179		
14,800.00	10,600.00	10,603.00	10,588.31	73.92		89.96	5,301.96	1,560.28	1,421.93	1,362.53	59.40	23.937		
14,900.00	10,600.00	10,603.04	10,588.35	75.17		89.96	5,301.96	1,560.28	1,359.75	1,297.57	62.18	21.867		
15,000.00	10,600.00	10,603.07	10,588.38	76.44		89.96	5,301.96	1,560.28	1,302.29	1,237.13	65.16	19.987		
15,100.00	10,600.00	10,603.11	10,588.42	77.70		89.96	5,301.96	1,560.28	1,250.19	1,181.90	68.29	18.308		
15,200.00	10,600.00	10,603.14	10,588.45	78.98		89.97	5,301.96	1,560.28	1,204.16	1,132.65	71.51	16.839		
15,300.00	10,600.00	10,603.19	10,588.49	80.26		89.97	5,301.96	1,560.28	1,164.92	1,090.19	74.73	15.589		
15,400.00	10,600.00	10,603.23	10,588.54	81.55		89.97	5,301.96	1,560.28	1,133.17	1,055.33	77.84	14.558		
15,484.47	10,600.00	10,603.27	10,588.58	82.64		89.97	5,301.96	1,560.28	1,112.66	1,032.38	80.29	13.859	CC, ES, SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	2.30	2.30	0.50	0.50	-90.38	-0.59	-90.00	90.00					
100.00	100.00	102.30	102.30	0.52	0.52	-90.38	-0.59	-90.00	90.00	88.96	1.04	86.731		
200.00	200.00	202.30	202.30	0.70	0.71	-90.38	-0.59	-90.00	90.00	88.59	1.41	63.830		
300.00	300.00	302.30	302.30	0.99	0.99	-90.38	-0.59	-90.00	90.00	88.02	1.98	45.415		
400.00	400.00	402.30	402.30	1.31	1.32	-90.38	-0.59	-90.00	90.00	87.38	2.63	34.276		
500.00	500.00	502.30	502.30	1.65	1.65	-90.38	-0.59	-90.00	90.00	86.70	3.30	27.273		
600.00	600.00	602.30	602.30	1.99	2.00	-90.38	-0.59	-90.00	90.00	86.01	3.99	22.562		
700.00	700.00	702.30	702.30	2.34	2.35	-90.38	-0.59	-90.00	90.00	85.32	4.69	19.204		
800.00	800.00	802.30	802.30	2.69	2.70	-90.38	-0.59	-90.00	90.00	84.61	5.39	16.700		
900.00	900.00	902.30	902.30	3.04	3.05	-90.38	-0.59	-90.00	90.00	83.91	6.10	14.766		
1,000.00	1,000.00	1,002.30	1,002.30	3.40	3.41	-90.38	-0.59	-90.00	90.00	83.20	6.80	13.229		
1,100.00	1,100.00	1,102.30	1,102.30	3.75	3.76	-90.38	-0.59	-90.00	90.00	82.49	7.51	11.979		
1,200.00	1,200.00	1,202.30	1,202.30	4.11	4.12	-90.38	-0.59	-90.00	90.00	81.78	8.22	10.943		
1,300.00	1,300.00	1,302.30	1,302.30	4.46	4.47	-90.38	-0.59	-90.00	90.00	81.07	8.94	10.071		
1,400.00	1,400.00	1,402.30	1,402.30	4.82	4.83	-90.38	-0.59	-90.00	90.00	80.35	9.65	9.327		
1,500.00	1,500.00	1,502.30	1,502.30	5.18	5.19	-90.38	-0.59	-90.00	90.00	79.64	10.36	8.685 CC, ES		
1,600.00	1,600.00	1,600.73	1,600.73	5.53	5.53	-90.48	-0.76	-90.87	90.89	79.83	11.06	8.218		
1,700.00	1,700.00	1,699.14	1,699.10	5.89	5.86	-90.76	-1.24	-93.40	93.46	81.72	11.74	7.958		
1,800.00	1,800.00	1,797.43	1,797.30	6.25	6.20	-91.19	-2.03	-97.58	97.73	85.30	12.43	7.864 SF		
1,900.00	1,900.00	1,895.55	1,895.24	6.61	6.53	-91.74	-3.14	-103.41	103.70	90.59	13.11	7.909		
2,000.00	2,000.00	1,993.43	1,992.82	6.96	6.87	-92.36	-4.56	-110.86	111.36	97.57	13.79	8.075		
2,100.00	2,099.99	2,090.94	2,089.89	7.31	7.22	171.57	-6.28	-119.91	121.57	107.12	14.46	8.410		
2,200.00	2,199.96	2,188.18	2,186.53	7.65	7.56	171.08	-8.30	-130.53	135.16	120.05	15.11	8.943		
2,300.00	2,299.86	2,286.90	2,284.57	7.99	7.92	170.74	-10.47	-141.92	151.08	135.28	15.80	9.564		
2,399.87	2,399.54	2,385.20	2,382.19	8.34	8.28	170.56	-12.63	-153.25	168.66	152.18	16.48	10.234		
2,500.00	2,499.43	2,483.62	2,479.92	8.69	8.64	170.48	-14.78	-164.59	187.14	169.98	17.17	10.902		
2,600.00	2,599.19	2,581.90	2,577.53	9.03	9.00	170.41	-16.94	-175.93	205.60	187.75	17.85	11.516		
2,700.00	2,698.94	2,680.18	2,675.13	9.39	9.36	170.36	-19.10	-187.26	224.06	205.52	18.54	12.083		
2,800.00	2,798.70	2,778.46	2,772.73	9.74	9.73	170.31	-21.25	-198.59	242.52	223.28	19.23	12.608		
2,900.00	2,898.46	2,876.74	2,870.33	10.09	10.10	170.27	-23.41	-209.92	260.98	241.05	19.93	13.095		
3,000.00	2,998.21	2,975.02	2,967.93	10.45	10.47	170.24	-25.57	-221.25	279.44	258.81	20.62	13.549		
3,100.00	3,097.97	3,073.30	3,065.54	10.80	10.84	170.21	-27.72	-232.58	297.89	276.57	21.32	13.971		
3,200.00	3,197.73	3,171.59	3,163.14	11.16	11.21	170.18	-29.88	-243.91	316.35	294.33	22.02	14.366		
3,300.00	3,297.48	3,269.87	3,260.74	11.52	11.58	170.16	-32.03	-255.24	334.81	312.09	22.72	14.736		
3,400.00	3,397.24	3,368.15	3,358.34	11.88	11.96	170.14	-34.19	-266.57	353.27	329.85	23.42	15.083		
3,500.00	3,497.00	3,466.43	3,455.95	12.24	12.33	170.12	-36.35	-277.90	371.73	347.60	24.12	15.409		
3,600.00	3,596.75	3,564.71	3,553.55	12.60	12.71	170.10	-38.50	-289.23	390.19	365.36	24.83	15.716		
3,700.00	3,696.51	3,662.99	3,651.15	12.96	13.09	170.08	-40.66	-300.56	408.65	383.11	25.53	16.006		
3,800.00	3,796.27	3,761.28	3,748.75	13.32	13.46	170.07	-42.82	-311.89	427.10	400.87	26.24	16.279		
3,900.00	3,896.02	3,859.56	3,846.36	13.68	13.84	170.06	-44.97	-323.23	445.56	418.62	26.94	16.538		
4,000.00	3,995.78	3,957.84	3,943.96	14.04	14.22	170.04	-47.13	-334.56	464.02	436.37	27.65	16.782		
4,100.00	4,095.54	4,056.12	4,041.56	14.40	14.60	170.03	-49.28	-345.89	482.48	454.12	28.36	17.015		
4,200.00	4,195.29	4,154.40	4,139.16	14.77	14.98	170.02	-51.44	-357.22	500.94	471.87	29.06	17.235		
4,300.00	4,295.05	4,252.68	4,236.77	15.13	15.36	170.01	-53.60	-368.55	519.40	489.62	29.77	17.445		
4,400.00	4,394.81	4,350.97	4,334.37	15.49	15.74	170.00	-55.75	-379.88	537.86	507.37	30.48	17.645		
4,500.00	4,494.56	4,449.25	4,431.97	15.86	16.12	170.00	-57.91	-391.21	556.32	525.12	31.19	17.835		
4,600.00	4,594.32	4,547.53	4,529.57	16.22	16.50	169.99	-60.06	-402.54	574.77	542.87	31.90	18.017		
4,700.00	4,694.08	4,645.81	4,627.18	16.59	16.88	169.98	-62.22	-413.87	593.23	560.62	32.61	18.190		
4,800.00	4,793.83	4,744.09	4,724.78	16.95	17.26	169.97	-64.38	-425.20	611.69	578.37	33.32	18.356		
4,900.00	4,893.59	4,842.37	4,822.38	17.32	17.64	169.97	-66.53	-436.53	630.15	596.12	34.04	18.515		
5,000.00	4,993.35	4,940.65	4,919.98	17.68	18.02	169.96	-68.69	-447.86	648.61	613.86	34.75	18.667		
5,100.00	5,093.10	5,038.94	5,017.59	18.05	18.41	169.95	-70.85	-459.19	667.07	631.61	35.46	18.812		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,137.22	5,115.19	18.42	18.79	169.95	-73.00	-470.52	685.53	649.36	36.17	18.952		
5,300.00	5,292.62	5,235.50	5,212.79	18.78	19.17	169.94	-75.16	-481.86	703.99	667.10	36.88	19.086		
5,400.00	5,392.37	5,333.78	5,310.39	19.15	19.55	169.94	-77.31	-493.19	722.45	684.85	37.60	19.215		
5,500.00	5,492.13	5,432.06	5,407.99	19.52	19.94	169.93	-79.47	-504.52	740.90	702.59	38.31	19.339		
5,600.00	5,591.89	5,530.34	5,505.60	19.88	20.32	169.93	-81.63	-515.85	759.36	720.34	39.03	19.458		
5,700.00	5,691.64	5,628.63	5,603.20	20.25	20.71	169.93	-83.78	-527.18	777.82	738.08	39.74	19.573		
5,800.00	5,791.40	5,726.91	5,700.80	20.62	21.09	169.92	-85.94	-538.51	796.28	755.83	40.45	19.684		
5,900.00	5,891.16	5,825.19	5,798.40	20.98	21.47	169.92	-88.09	-549.84	814.74	773.57	41.17	19.790		
6,000.00	5,990.91	5,923.47	5,896.01	21.35	21.86	169.91	-90.25	-561.17	833.20	791.32	41.88	19.893		
6,100.00	6,090.67	6,021.75	5,993.61	21.72	22.24	169.91	-92.41	-572.50	851.66	809.06	42.60	19.993		
6,200.00	6,190.42	6,120.03	6,091.21	22.09	22.63	169.91	-94.56	-583.83	870.12	826.80	43.31	20.089		
6,300.00	6,290.18	6,218.31	6,188.81	22.45	23.01	169.90	-96.72	-595.16	888.58	844.55	44.03	20.182		
6,400.00	6,389.94	6,316.60	6,286.42	22.82	23.39	169.90	-98.88	-606.49	907.04	862.29	44.74	20.271		
6,500.00	6,489.69	6,414.88	6,384.02	23.19	23.78	169.90	-101.03	-617.82	925.49	880.03	45.46	20.358		
6,600.00	6,589.45	6,513.16	6,481.62	23.56	24.16	169.90	-103.19	-629.16	943.95	897.78	46.18	20.442		
6,700.00	6,689.21	6,611.44	6,579.22	23.93	24.55	169.89	-105.34	-640.49	962.41	915.52	46.89	20.523		
6,800.00	6,788.96	6,709.72	6,676.83	24.29	24.93	169.89	-107.50	-651.82	980.87	933.26	47.61	20.602		
6,900.00	6,888.72	6,808.00	6,774.43	24.66	25.32	169.89	-109.66	-663.15	999.33	951.00	48.33	20.679		
7,000.00	6,988.48	6,906.29	6,872.03	25.03	25.70	169.88	-111.81	-674.48	1,017.79	968.75	49.04	20.753		
7,100.00	7,088.23	7,004.57	6,969.63	25.40	26.09	169.88	-113.97	-685.81	1,036.25	986.49	49.76	20.825		
7,200.00	7,187.99	7,102.85	7,067.24	25.77	26.48	169.88	-116.12	-697.14	1,054.71	1,004.23	50.48	20.895		
7,300.00	7,287.75	7,201.13	7,164.84	26.14	26.86	169.88	-118.28	-708.47	1,073.17	1,021.97	51.19	20.963		
7,400.00	7,387.50	7,300.59	7,262.44	26.50	27.25	169.88	-120.44	-719.80	1,091.63	1,039.71	51.92	21.027		
7,500.00	7,487.26	7,402.31	7,360.04	26.87	27.65	169.87	-122.59	-731.13	1,110.08	1,057.44	52.65	21.086		
7,600.00	7,587.02	7,504.03	7,457.65	27.24	28.05	169.87	-124.75	-742.46	1,128.54	1,075.17	53.38	21.143		
7,700.00	7,686.77	7,594.26	7,555.25	27.61	28.40	169.87	-126.91	-753.79	1,147.00	1,092.94	54.07	21.215		
7,800.00	7,786.53	7,707.46	7,652.85	27.98	28.85	169.87	-129.06	-765.12	1,165.46	1,110.62	54.84	21.253		
7,900.00	7,886.29	7,809.18	7,750.45	28.35	29.25	169.87	-131.22	-776.46	1,183.92	1,128.35	55.57	21.305		
8,000.00	7,986.04	7,899.10	7,848.05	28.72	29.56	169.86	-133.37	-787.79	1,202.38	1,146.16	56.22	21.387		
8,100.00	8,085.80	7,987.38	7,945.66	29.09	29.95	169.86	-135.53	-799.12	1,220.84	1,163.90	56.94	21.442		
8,200.00	8,185.56	8,085.66	8,043.26	29.46	30.33	169.86	-137.69	-810.45	1,239.30	1,181.64	57.66	21.494		
8,300.00	8,285.31	8,183.95	8,140.86	29.83	30.72	169.86	-139.84	-821.78	1,257.76	1,199.38	58.38	21.546		
8,400.00	8,385.07	8,282.23	8,238.46	30.20	31.11	169.86	-142.00	-833.11	1,276.22	1,217.12	59.09	21.596		
8,500.00	8,484.83	8,380.51	8,336.07	30.56	31.49	169.86	-144.16	-844.44	1,294.67	1,234.86	59.81	21.645		
8,600.00	8,584.58	8,517.94	8,472.73	30.93	32.02	169.86	-146.85	-858.60	1,312.01	1,251.22	60.79	21.584		
8,700.00	8,684.34	8,668.80	8,623.24	31.30	32.58	169.90	-148.76	-868.66	1,325.59	1,263.81	61.77	21.459		
8,800.00	8,784.10	8,821.06	8,775.42	31.67	33.11	169.96	-149.57	-872.87	1,335.25	1,272.56	62.69	21.301		
8,900.00	8,883.85	8,931.79	8,886.15	32.04	33.47	170.01	-149.59	-873.00	1,342.20	1,278.79	63.41	21.165		
9,000.00	8,983.61	9,031.54	8,985.91	32.41	33.80	170.06	-149.59	-873.00	1,349.07	1,284.96	64.11	21.043		
9,100.00	9,083.37	9,131.30	9,085.67	32.78	34.12	170.11	-149.59	-873.00	1,355.94	1,291.13	64.81	20.923		
9,200.00	9,183.12	9,236.53	9,190.88	33.15	34.46	170.21	-148.59	-873.01	1,362.75	1,297.23	65.52	20.800		
9,300.00	9,282.88	9,352.00	9,304.68	33.52	34.82	171.03	-130.24	-873.14	1,368.65	1,302.41	66.24	20.661		
9,400.00	9,382.64	9,456.10	9,402.28	33.89	35.11	172.57	-94.45	-873.40	1,374.09	1,307.16	66.93	20.531		
9,428.07	9,410.64	9,482.62	9,425.98	33.99	35.17	173.08	-82.55	-873.48	1,375.72	1,308.61	67.11	20.499		
9,500.00	9,482.43	9,544.87	9,479.25	34.26	35.32	174.44	-50.41	-873.72	1,379.79	1,312.23	67.56	20.422		
9,600.00	9,582.36	9,618.33	9,537.18	34.62	35.46	176.32	-5.32	-874.04	1,385.37	1,317.25	68.12	20.336		
9,694.65	9,677.00	9,675.43	9,577.95	34.95	35.55	-86.55	34.62	-874.33	1,391.55	1,323.00	68.54	20.302		
9,700.00	9,682.35	9,678.33	9,579.91	34.97	35.56	-86.46	36.76	-874.34	1,391.94	1,323.38	68.56	20.302		
9,800.00	9,782.35	9,727.23	9,611.33	35.31	35.62	-84.92	74.22	-874.61	1,401.84	1,333.00	68.84	20.364		
9,900.00	9,882.35	9,767.26	9,634.59	35.65	35.67	-83.59	106.78	-874.85	1,416.82	1,347.88	68.94	20.553		
10,000.00	9,982.35	9,800.00	9,651.89	35.99	35.71	-82.46	134.57	-875.05	1,437.20	1,368.36	68.85	20.876		
10,044.69	10,027.04	9,813.27	9,658.45	36.14	35.72	-81.99	146.10	-875.13	1,448.10	1,379.35	68.75	21.065		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	9,814.75	9,659.16	36.16	35.72	-81.38	147.40	-875.14	1,449.46	1,380.73	68.73	21.089		
10,100.00	10,082.26	9,829.21	9,665.97	36.32	35.73	-79.53	160.16	-875.23	1,462.69	1,394.10	68.58	21.327		
10,150.00	10,131.76	9,850.00	9,675.18	36.49	35.75	-77.45	178.79	-875.37	1,476.47	1,408.03	68.45	21.571		
10,200.00	10,180.46	9,860.46	9,679.56	36.65	35.76	-75.70	188.30	-875.44	1,490.57	1,422.36	68.21	21.852		
10,250.00	10,227.98	9,877.04	9,686.14	36.81	35.77	-73.78	203.51	-875.55	1,504.85	1,436.86	67.99	22.132		
10,300.00	10,273.98	9,900.00	9,694.52	36.95	35.79	-71.75	224.88	-875.70	1,519.13	1,451.32	67.80	22.405		
10,350.00	10,318.11	9,911.65	9,698.45	37.09	35.80	-70.08	235.85	-875.78	1,533.16	1,465.63	67.52	22.706		
10,400.00	10,360.01	9,929.56	9,704.04	37.21	35.81	-68.35	252.86	-875.90	1,546.85	1,479.56	67.29	22.989		
10,450.00	10,399.38	9,950.00	9,709.78	37.32	35.83	-66.67	272.48	-876.04	1,560.03	1,492.96	67.07	23.260		
10,500.00	10,435.92	9,966.33	9,713.85	37.42	35.85	-65.19	288.30	-876.16	1,572.54	1,505.70	66.84	23.528		
10,550.00	10,469.35	9,985.11	9,717.98	37.51	35.87	-63.79	306.61	-876.29	1,584.27	1,517.63	66.64	23.774		
10,600.00	10,499.41	10,000.00	9,720.82	37.59	35.88	-62.58	321.23	-876.40	1,595.10	1,528.66	66.44	24.007		
10,650.00	10,525.87	10,023.27	9,724.50	37.66	35.91	-61.40	344.20	-876.56	1,604.90	1,538.57	66.33	24.197		
10,700.00	10,548.54	10,050.00	9,727.58	37.74	35.95	-60.34	370.75	-876.75	1,613.65	1,547.39	66.26	24.355		
10,750.00	10,567.24	10,050.00	9,727.58	37.84	35.95	-59.68	370.75	-876.75	1,621.23	1,555.12	66.11	24.523		
10,800.00	10,581.83	10,081.59	9,729.61	37.97	36.00	-58.90	402.27	-876.98	1,627.39	1,561.24	66.15	24.603		
10,850.00	10,592.19	10,106.33	9,730.00	38.11	36.04	-58.37	419.70	-877.11	1,632.34	1,566.15	66.20	24.659		
10,900.00	10,598.26	10,148.64	9,730.00	38.25	36.13	-57.92	469.31	-877.46	1,635.56	1,569.20	66.36	24.647		
10,944.69	10,600.00	10,206.72	9,730.00	38.39	36.29	-57.79	513.96	-877.79	1,636.48	1,569.86	66.62	24.564		
11,000.00	10,600.00	10,248.59	9,730.00	38.56	36.42	-57.79	569.27	-878.18	1,636.47	1,569.57	66.90	24.461		
11,100.00	10,600.00	10,348.59	9,730.00	38.91	36.77	-57.79	669.26	-878.91	1,636.46	1,568.90	67.56	24.224		
11,200.00	10,600.00	10,448.59	9,730.00	39.31	37.20	-57.79	769.26	-879.63	1,636.45	1,568.15	68.30	23.958		
11,300.00	10,600.00	10,548.59	9,730.00	39.76	37.68	-57.79	869.26	-880.35	1,636.44	1,567.30	69.14	23.668		
11,400.00	10,600.00	10,648.59	9,730.00	40.25	38.21	-57.79	969.26	-881.07	1,636.43	1,566.36	70.06	23.356		
11,500.00	10,600.00	10,748.59	9,730.00	40.79	38.79	-57.79	1,069.25	-881.79	1,636.42	1,565.34	71.07	23.025		
11,600.00	10,600.00	10,848.59	9,730.00	41.37	39.41	-57.79	1,169.25	-882.51	1,636.40	1,564.25	72.16	22.678		
11,700.00	10,600.00	10,948.59	9,730.00	41.99	40.08	-57.79	1,269.25	-883.23	1,636.39	1,563.07	73.32	22.318		
11,800.00	10,600.00	11,048.59	9,730.00	42.65	40.79	-57.79	1,369.25	-883.95	1,636.38	1,561.83	74.56	21.949		
11,900.00	10,600.00	11,148.59	9,730.00	43.35	41.54	-57.79	1,469.24	-884.67	1,636.37	1,560.51	75.86	21.571		
12,000.00	10,600.00	11,248.59	9,730.00	44.09	42.32	-57.79	1,569.24	-885.40	1,636.36	1,559.13	77.23	21.188		
12,100.00	10,600.00	11,348.59	9,730.00	44.86	43.14	-57.79	1,669.24	-886.12	1,636.35	1,557.69	78.66	20.803		
12,200.00	10,600.00	11,448.59	9,730.00	45.67	43.99	-57.79	1,769.23	-886.84	1,636.34	1,556.19	80.15	20.416		
12,300.00	10,600.00	11,548.59	9,730.00	46.50	44.88	-57.79	1,869.23	-887.56	1,636.33	1,554.63	81.70	20.029		
12,400.00	10,600.00	11,648.59	9,730.00	47.37	45.79	-57.79	1,969.23	-888.28	1,636.31	1,553.02	83.30	19.644		
12,500.00	10,600.00	11,748.59	9,730.00	48.26	46.73	-57.79	2,069.23	-889.00	1,636.30	1,551.36	84.94	19.263		
12,600.00	10,600.00	11,848.59	9,730.00	49.18	47.69	-57.79	2,169.22	-889.72	1,636.29	1,549.65	86.64	18.886		
12,700.00	10,600.00	11,948.59	9,730.00	50.13	48.68	-57.78	2,269.22	-890.44	1,636.28	1,547.90	88.38	18.514		
12,800.00	10,600.00	12,048.59	9,730.00	51.10	49.69	-57.78	2,369.22	-891.16	1,636.27	1,546.11	90.16	18.149		
12,900.00	10,600.00	12,148.59	9,730.00	52.09	50.72	-57.78	2,469.22	-891.89	1,636.26	1,544.28	91.98	17.789		
13,000.00	10,600.00	12,248.59	9,730.00	53.10	51.77	-57.78	2,569.21	-892.61	1,636.25	1,542.41	93.84	17.437		
13,100.00	10,600.00	12,348.59	9,730.00	54.14	52.85	-57.78	2,669.21	-893.33	1,636.24	1,540.51	95.73	17.093		
13,200.00	10,600.00	12,448.59	9,730.00	55.19	53.94	-57.78	2,769.21	-894.05	1,636.22	1,538.57	97.65	16.756		
13,300.00	10,600.00	12,548.59	9,730.00	56.26	55.04	-57.78	2,869.21	-894.77	1,636.21	1,536.61	99.61	16.427		
13,400.00	10,600.00	12,648.59	9,730.00	57.35	56.17	-57.78	2,969.20	-895.49	1,636.20	1,534.61	101.59	16.106		
13,500.00	10,600.00	12,748.59	9,730.00	58.45	57.30	-57.78	3,069.20	-896.21	1,636.19	1,532.59	103.60	15.793		
13,600.00	10,600.00	12,848.59	9,730.00	59.57	58.45	-57.78	3,169.20	-896.93	1,636.18	1,530.54	105.64	15.489		
13,700.00	10,600.00	12,948.59	9,730.00	60.71	59.62	-57.78	3,269.20	-897.65	1,636.17	1,528.47	107.70	15.192		
13,800.00	10,600.00	13,048.59	9,730.00	61.85	60.80	-57.78	3,369.19	-898.37	1,636.16	1,526.37	109.78	14.904		
13,900.00	10,600.00	13,148.59	9,730.00	63.01	61.98	-57.78	3,469.19	-899.10	1,636.15	1,524.26	111.89	14.623		
14,000.00	10,600.00	13,248.59	9,730.00	64.18	63.18	-57.78	3,569.19	-899.82	1,636.13	1,522.12	114.01	14.350		
14,100.00	10,600.00	13,348.59	9,730.00	65.37	64.39	-57.78	3,669.19	-900.54	1,636.12	1,519.96	116.16	14.085		
14,200.00	10,600.00	13,448.59	9,730.00	66.56	65.62	-57.78	3,769.18	-901.26	1,636.11	1,517.79	118.32	13.827		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 14H - 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	
14,300.00	10,600.00	13,548.59	9,730.00	67.76	66.85	-57.78	3,869.18	-901.98	1,636.10	1,515.59	120.51	13.577	
14,400.00	10,600.00	13,648.59	9,730.00	68.98	68.08	-57.78	3,969.18	-902.70	1,636.09	1,513.39	122.70	13.334	
14,500.00	10,600.00	13,748.59	9,730.00	70.20	69.33	-57.78	4,069.18	-903.42	1,636.08	1,511.16	124.92	13.097	
14,600.00	10,600.00	13,848.59	9,730.00	71.43	70.59	-57.78	4,169.17	-904.14	1,636.07	1,508.92	127.14	12.868	
14,700.00	10,600.00	13,948.59	9,730.00	72.67	71.85	-57.78	4,269.17	-904.86	1,636.06	1,506.67	129.39	12.645	
14,800.00	10,600.00	14,048.59	9,730.00	73.92	73.12	-57.78	4,369.17	-905.59	1,636.04	1,504.40	131.64	12.428	
14,900.00	10,600.00	14,148.59	9,730.00	75.17	74.40	-57.78	4,469.16	-906.31	1,636.03	1,502.12	133.91	12.218	
15,000.00	10,600.00	14,248.59	9,730.00	76.44	75.68	-57.78	4,569.16	-907.03	1,636.02	1,499.83	136.19	12.013	
15,100.00	10,600.00	14,348.59	9,730.00	77.70	76.97	-57.78	4,669.16	-907.75	1,636.01	1,497.53	138.48	11.814	
15,200.00	10,600.00	14,448.59	9,730.00	78.98	78.26	-57.78	4,769.16	-908.47	1,636.00	1,495.22	140.78	11.621	
15,300.00	10,600.00	14,548.59	9,730.00	80.26	79.56	-57.78	4,869.15	-909.19	1,635.99	1,492.90	143.09	11.433	
15,400.00	10,600.00	14,648.59	9,730.00	81.55	80.87	-57.78	4,969.15	-909.91	1,635.98	1,490.56	145.41	11.250	
15,484.47	10,600.00	14,733.06	9,730.00	82.64	81.98	-57.78	5,053.62	-910.52	1,635.97	1,488.59	147.38	11.100	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.60	1.60	0.50	0.50	-90.38	-0.40	-60.00	60.00					
100.00	100.00	101.60	101.60	0.52	0.52	-90.38	-0.40	-60.00	60.00	58.96	1.04	57.859		
200.00	200.00	201.60	201.60	0.70	0.71	-90.38	-0.40	-60.00	60.00	58.59	1.41	42.607		
300.00	300.00	301.60	301.60	0.99	0.99	-90.38	-0.40	-60.00	60.00	58.02	1.98	30.310		
400.00	400.00	401.60	401.60	1.31	1.31	-90.38	-0.40	-60.00	60.00	57.38	2.62	22.871		
500.00	500.00	501.60	501.60	1.65	1.65	-90.38	-0.40	-60.00	60.00	56.70	3.30	18.195		
600.00	600.00	601.60	601.60	1.99	2.00	-90.38	-0.40	-60.00	60.00	56.01	3.99	15.050		
700.00	700.00	701.60	701.60	2.34	2.34	-90.38	-0.40	-60.00	60.00	55.32	4.68	12.809		
800.00	800.00	801.60	801.60	2.69	2.70	-90.38	-0.40	-60.00	60.00	54.61	5.39	11.139		
900.00	900.00	901.60	901.60	3.04	3.05	-90.38	-0.40	-60.00	60.00	53.91	6.09	9.848		
1,000.00	1,000.00	1,001.60	1,001.60	3.40	3.40	-90.38	-0.40	-60.00	60.00	53.20	6.80	8.822		
1,100.00	1,100.00	1,101.60	1,101.60	3.75	3.76	-90.38	-0.40	-60.00	60.00	52.49	7.51	7.989		
1,200.00	1,200.00	1,201.60	1,201.60	4.11	4.11	-90.38	-0.40	-60.00	60.00	51.78	8.22	7.298		
1,300.00	1,300.00	1,301.60	1,301.60	4.46	4.47	-90.38	-0.40	-60.00	60.00	51.07	8.93	6.716		
1,400.00	1,400.00	1,401.60	1,401.60	4.82	4.83	-90.38	-0.40	-60.00	60.00	50.35	9.65	6.220		
1,500.00	1,500.00	1,501.60	1,501.60	5.18	5.18	-90.38	-0.40	-60.00	60.00	49.64	10.36	5.792		
1,600.00	1,600.00	1,601.60	1,601.60	5.53	5.54	-90.38	-0.40	-60.00	60.00	48.93	11.07	5.418		
1,700.00	1,700.00	1,701.60	1,701.60	5.89	5.90	-90.38	-0.40	-60.00	60.00	48.21	11.79	5.090		
1,800.00	1,800.00	1,801.60	1,801.60	6.25	6.25	-90.38	-0.40	-60.00	60.00	47.50	12.50	4.799 Alert		
1,900.00	1,900.00	1,901.60	1,901.60	6.61	6.61	-90.38	-0.40	-60.00	60.00	46.78	13.22	4.540 Alert		
2,000.00	2,000.00	2,001.60	2,001.60	6.96	6.97	-90.38	-0.40	-60.00	60.00	46.07	13.93	4.307 Alert, CC, ES		
2,100.00	2,099.99	2,101.59	2,101.59	7.31	7.33	174.22	-0.40	-60.00	60.87	46.23	14.64	4.158 Alert		
2,200.00	2,199.96	2,201.56	2,201.56	7.65	7.68	174.46	-0.40	-60.00	63.47	48.14	15.33	4.139 Alert, SF		
2,300.00	2,299.86	2,301.46	2,301.46	7.99	8.04	174.81	-0.40	-60.00	67.82	51.78	16.03	4.230 Alert		
2,399.87	2,399.54	2,401.14	2,401.14	8.34	8.40	175.23	-0.40	-60.00	73.89	57.16	16.73	4.416 Alert		
2,500.00	2,499.43	2,501.03	2,501.03	8.69	8.76	175.64	-0.40	-60.00	80.85	63.42	17.43	4.638 Alert		
2,600.00	2,599.19	2,600.79	2,600.79	9.03	9.11	175.99	-0.40	-60.00	87.81	69.67	18.13	4.842 Alert		
2,700.00	2,698.94	2,700.54	2,700.54	9.39	9.47	176.28	-0.40	-60.00	94.76	75.93	18.84	5.031		
2,800.00	2,798.70	2,800.30	2,800.30	9.74	9.83	176.54	-0.40	-60.00	101.72	82.18	19.54	5.206		
2,900.00	2,898.46	2,900.06	2,900.06	10.09	10.18	176.76	-0.40	-60.00	108.68	88.44	20.25	5.368		
3,000.00	2,998.21	3,000.19	2,999.81	10.45	10.54	176.96	-0.40	-60.00	115.65	94.69	20.95	5.520		
3,100.00	3,097.97	3,100.43	3,099.57	10.80	10.90	177.13	-0.40	-60.00	122.61	100.95	21.66	5.661		
3,200.00	3,197.73	3,200.67	3,199.33	11.16	11.26	177.28	-0.40	-60.00	129.58	107.21	22.37	5.792		
3,300.00	3,297.48	3,300.92	3,299.08	11.52	11.62	177.42	-0.40	-60.00	136.54	113.46	23.08	5.916		
3,400.00	3,397.24	3,401.16	3,398.84	11.88	11.98	177.55	-0.40	-60.00	143.51	119.72	23.79	6.032		
3,500.00	3,497.00	3,498.60	3,498.60	12.24	12.33	177.66	-0.40	-60.00	150.48	125.98	24.49	6.144		
3,600.00	3,596.75	3,600.11	3,600.10	12.60	12.67	177.52	-1.10	-59.48	156.89	131.70	25.19	6.228		
3,700.00	3,696.51	3,701.75	3,701.71	12.96	13.01	176.90	-3.25	-57.88	162.19	136.31	25.88	6.268		
3,800.00	3,796.27	3,801.71	3,801.60	13.32	13.34	176.07	-6.15	-55.72	166.90	140.34	26.56	6.284		
3,900.00	3,896.02	3,901.57	3,901.40	13.68	13.67	175.28	-9.04	-53.56	171.63	144.39	27.24	6.300		
4,000.00	3,995.78	4,001.43	4,001.19	14.04	14.00	174.53	-11.94	-51.41	176.40	148.47	27.93	6.316		
4,100.00	4,095.54	4,101.29	4,100.99	14.40	14.33	173.83	-14.83	-49.25	181.20	152.58	28.62	6.332		
4,200.00	4,195.29	4,201.15	4,200.79	14.77	14.66	173.16	-17.73	-47.09	186.02	156.72	29.31	6.348		
4,300.00	4,295.05	4,301.01	4,300.58	15.13	15.00	172.52	-20.63	-44.93	190.87	160.87	30.00	6.363		
4,400.00	4,394.81	4,400.87	4,400.38	15.49	15.33	171.91	-23.52	-42.78	195.74	165.05	30.69	6.378		
4,500.00	4,494.56	4,500.74	4,500.17	15.86	15.67	171.34	-26.42	-40.62	200.63	169.24	31.38	6.393		
4,600.00	4,594.32	4,600.60	4,599.97	16.22	16.01	170.79	-29.31	-38.46	205.54	173.46	32.08	6.407		
4,700.00	4,694.08	4,700.46	4,699.76	16.59	16.35	170.27	-32.21	-36.30	210.47	177.69	32.78	6.421		
4,800.00	4,793.83	4,800.32	4,799.56	16.95	16.69	169.77	-35.11	-34.15	215.41	181.93	33.48	6.435		
4,900.00	4,893.59	4,900.18	4,899.35	17.32	17.03	169.30	-38.00	-31.99	220.37	186.19	34.18	6.448		
5,000.00	4,993.35	5,000.04	4,999.15	17.68	17.37	168.84	-40.90	-29.83	225.34	190.47	34.88	6.461		
5,100.00	5,093.10	5,100.10	5,098.94	18.05	17.72	168.41	-43.79	-27.67	230.33	194.75	35.58	6.474		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
5,200.00	5,192.86	5,200.24	5,198.74	18.42	18.06	167.99	-46.69	-25.51	235.33	199.05	36.28	6.486					
5,300.00	5,292.62	5,300.38	5,298.53	18.78	18.41	167.59	-49.59	-23.36	240.34	203.36	36.99	6.498					
5,400.00	5,392.37	5,399.48	5,398.33	19.15	18.75	167.21	-52.48	-21.20	245.37	207.68	37.69	6.510					
5,500.00	5,492.13	5,499.34	5,498.12	19.52	19.10	166.84	-55.38	-19.04	250.40	212.01	38.39	6.522					
5,600.00	5,591.89	5,599.20	5,597.92	19.88	19.44	166.48	-58.28	-16.88	255.44	216.34	39.10	6.533					
5,700.00	5,691.64	5,700.94	5,697.71	20.25	19.80	166.15	-61.17	-14.73	260.50	220.68	39.81	6.543					
5,800.00	5,791.40	5,801.08	5,797.51	20.62	20.15	165.82	-64.07	-12.57	265.56	225.04	40.52	6.554					
5,900.00	5,891.16	5,901.22	5,897.30	20.98	20.50	165.50	-66.96	-10.41	270.63	229.40	41.23	6.564					
6,000.00	5,990.91	6,001.36	5,997.10	21.35	20.84	165.20	-69.86	-8.25	275.70	233.76	41.94	6.574					
6,100.00	6,090.67	6,101.50	6,096.90	21.72	21.19	164.91	-72.76	-6.10	280.79	238.14	42.65	6.583					
6,200.00	6,190.42	6,201.64	6,196.69	22.09	21.54	164.63	-75.65	-3.94	285.88	242.52	43.36	6.593					
6,300.00	6,290.18	6,301.77	6,296.49	22.45	21.90	164.36	-78.55	-1.78	290.98	246.91	44.07	6.602					
6,400.00	6,389.94	6,401.91	6,396.28	22.82	22.25	164.09	-81.44	0.38	296.09	251.30	44.79	6.611					
6,500.00	6,489.69	6,502.05	6,496.08	23.19	22.60	163.84	-84.34	2.53	301.20	255.70	45.50	6.620					
6,600.00	6,589.45	6,602.19	6,595.87	23.56	22.95	163.60	-87.24	4.69	306.31	260.10	46.21	6.629					
6,700.00	6,689.21	6,702.33	6,695.67	23.93	23.30	163.36	-90.13	6.85	311.44	264.51	46.92	6.637					
6,800.00	6,788.96	6,802.47	6,795.46	24.29	23.66	163.13	-93.03	9.01	316.56	268.93	47.64	6.645					
6,900.00	6,888.72	6,902.61	6,895.26	24.66	24.01	162.91	-95.93	11.16	321.70	273.34	48.35	6.653					
7,000.00	6,988.48	7,002.75	6,995.05	25.03	24.36	162.69	-98.82	13.32	326.83	277.76	49.07	6.661					
7,100.00	7,088.23	7,097.11	7,094.85	25.40	24.69	162.49	-101.72	15.48	331.97	282.21	49.76	6.671					
7,200.00	7,187.99	7,203.03	7,194.64	25.77	25.07	162.28	-104.61	17.64	337.12	286.62	50.50	6.676					
7,300.00	7,287.75	7,303.17	7,294.44	26.14	25.42	162.09	-107.51	19.79	342.27	291.05	51.21	6.683					
7,400.00	7,387.50	7,403.31	7,394.23	26.50	25.78	161.90	-110.41	21.95	347.42	295.49	51.93	6.690					
7,500.00	7,487.26	7,503.45	7,494.03	26.87	26.13	161.71	-113.30	24.11	352.58	299.93	52.65	6.697					
7,600.00	7,587.02	7,603.59	7,593.82	27.24	26.49	161.53	-116.20	26.27	357.74	304.38	53.36	6.704					
7,700.00	7,686.77	7,703.73	7,693.62	27.61	26.84	161.36	-119.09	28.42	362.90	308.82	54.08	6.710					
7,800.00	7,786.53	7,803.87	7,793.41	27.98	27.20	161.19	-121.99	30.58	368.07	313.27	54.80	6.717					
7,900.00	7,886.29	7,904.01	7,893.21	28.35	27.55	161.03	-124.89	32.74	373.24	317.73	55.52	6.723					
8,000.00	7,986.04	8,004.14	7,993.01	28.72	27.91	160.87	-127.78	34.90	378.42	322.18	56.23	6.729					
8,100.00	8,085.80	8,104.28	8,092.80	29.09	28.26	160.71	-130.68	37.05	383.59	326.64	56.95	6.735					
8,200.00	8,185.56	8,204.42	8,192.60	29.46	28.62	160.56	-133.57	39.21	388.77	331.10	57.67	6.741					
8,300.00	8,285.31	8,304.56	8,292.39	29.83	28.98	160.41	-136.47	41.37	393.95	335.56	58.39	6.747					
8,400.00	8,385.07	8,404.70	8,392.19	30.20	29.33	160.27	-139.37	43.53	399.14	340.03	59.11	6.752					
8,500.00	8,484.83	8,495.16	8,491.98	30.56	29.66	160.13	-142.26	45.68	404.32	344.53	59.79	6.762					
8,600.00	8,584.58	8,595.02	8,591.78	30.93	30.01	159.99	-145.16	47.84	409.51	349.00	60.51	6.767					
8,700.00	8,684.34	8,693.99	8,690.68	31.30	30.36	159.87	-147.98	49.94	414.73	353.50	61.23	6.774					
8,800.00	8,784.10	8,789.87	8,786.55	31.67	30.70	159.96	-149.36	50.97	420.61	358.69	61.92	6.793					
8,900.00	8,883.85	8,888.78	8,885.45	32.04	31.05	160.28	-149.40	51.00	427.14	364.53	62.62	6.822					
9,000.00	8,983.61	8,988.53	8,985.21	32.41	31.39	160.59	-149.40	51.00	433.72	370.40	63.32	6.850					
9,100.00	9,083.37	9,088.29	9,084.97	32.78	31.73	160.89	-149.40	51.00	440.30	376.28	64.02	6.877					
9,200.00	9,183.12	9,193.84	9,190.49	33.15	32.10	161.32	-148.42	50.99	446.72	381.96	64.76	6.898					
9,300.00	9,282.88	9,310.85	9,305.80	33.52	32.49	163.97	-129.75	50.86	450.13	384.65	65.49	6.874					
9,400.00	9,382.64	9,416.12	9,404.38	33.89	32.81	168.77	-93.26	50.60	451.93	385.79	66.14	6.833					
9,428.07	9,410.64	9,442.88	9,428.24	33.99	32.89	170.34	-81.15	50.51	452.73	386.41	66.32	6.827					
9,500.00	9,482.43	9,505.60	9,481.76	34.26	33.06	174.52	-48.50	50.27	455.80	389.10	66.70	6.834					
9,600.00	9,582.36	9,579.40	9,539.70	34.62	33.26	-179.76	-2.88	49.94	464.30	397.42	66.87	6.943					
9,694.65	9,677.00	9,636.59	9,580.30	34.95	33.42	-79.40	37.37	49.65	479.55	413.19	66.36	7.226					
9,700.00	9,682.35	9,639.50	9,582.25	34.97	33.42	-79.14	39.53	49.64	480.66	414.35	66.31	7.249					
9,800.00	9,782.35	9,688.35	9,613.41	35.31	33.55	-74.72	77.13	49.37	508.03	443.16	64.87	7.832					
9,900.00	9,882.35	9,728.25	9,636.41	35.65	33.66	-71.03	109.73	49.13	547.53	484.78	62.75	8.725					
10,000.00	9,982.35	9,761.17	9,653.64	35.99	33.75	-67.99	137.77	48.93	597.91	537.61	60.30	9.916					
10,044.69	10,027.04	9,774.03	9,659.93	36.14	33.78	-66.81	148.98	48.85	623.48	564.31	59.18	10.536					

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	9,775.50	9,660.63	36.16	33.79	-65.90	150.28	48.84	626.63	567.58	59.04	10.613		
10,100.00	10,082.26	9,789.89	9,667.33	36.32	33.82	-61.33	163.01	48.75	656.49	598.67	57.83	11.353		
10,150.00	10,131.76	9,800.00	9,671.85	36.49	33.85	-57.32	172.05	48.68	686.55	630.04	56.51	12.149		
10,200.00	10,180.46	9,821.02	9,680.73	36.65	33.91	-52.88	191.11	48.55	716.30	660.76	55.54	12.897		
10,250.00	10,227.98	9,837.55	9,687.22	36.81	33.95	-49.15	206.31	48.44	745.52	691.04	54.48	13.684		
10,300.00	10,273.98	9,850.00	9,691.81	36.95	33.99	-45.99	217.88	48.35	773.92	720.54	53.37	14.501		
10,350.00	10,318.11	9,872.08	9,699.34	37.09	34.05	-42.80	238.64	48.20	801.15	748.60	52.55	15.246		
10,400.00	10,360.01	9,900.00	9,707.70	37.21	34.13	-39.86	265.27	48.01	827.24	775.34	51.90	15.940		
10,450.00	10,399.38	9,900.00	9,707.70	37.32	34.13	-38.10	265.27	48.01	851.66	800.94	50.72	16.792		
10,500.00	10,435.92	9,926.69	9,714.48	37.42	34.20	-35.90	291.08	47.83	874.39	824.24	50.15	17.436		
10,550.00	10,469.35	9,950.00	9,719.40	37.51	34.27	-34.10	313.86	47.66	895.45	845.88	49.57	18.065		
10,600.00	10,499.41	9,964.42	9,721.98	37.59	34.31	-32.73	328.05	47.56	914.57	865.65	48.92	18.693		
10,650.00	10,525.87	9,983.57	9,724.86	37.66	34.36	-31.49	346.98	47.42	931.73	883.29	48.44	19.234		
10,700.00	10,548.54	10,000.00	9,726.82	37.74	34.41	-30.48	363.29	47.30	946.82	898.79	48.02	19.716		
10,750.00	10,567.24	10,022.32	9,728.74	37.84	34.47	-29.61	385.53	47.14	959.74	911.99	47.75	20.098		
10,800.00	10,581.83	10,050.00	9,729.91	37.97	34.55	-28.87	413.18	46.95	970.55	922.96	47.60	20.391		
10,850.00	10,592.19	10,063.19	9,730.00	38.11	34.59	-28.40	426.37	46.85	978.94	931.47	47.47	20.622		
10,900.00	10,598.26	10,112.80	9,730.00	38.25	34.74	-27.98	475.98	46.49	984.30	936.75	47.55	20.702		
10,944.69	10,600.00	10,157.45	9,730.00	38.39	34.89	-27.86	520.62	46.17	985.83	938.16	47.68	20.677		
11,000.00	10,600.00	10,212.76	9,730.00	38.56	35.08	-27.86	575.93	45.77	985.83	937.95	47.88	20.589		
11,100.00	10,600.00	10,312.76	9,730.00	38.91	35.48	-27.85	675.93	45.05	985.82	937.51	48.31	20.404		
11,200.00	10,600.00	10,412.76	9,730.00	39.31	35.94	-27.85	775.93	44.33	985.82	937.00	48.82	20.193		
11,300.00	10,600.00	10,512.76	9,730.00	39.76	36.45	-27.85	875.92	43.61	985.81	936.41	49.40	19.956		
11,400.00	10,600.00	10,612.76	9,730.00	40.25	37.01	-27.85	975.92	42.89	985.81	935.76	50.04	19.699		
11,500.00	10,600.00	10,712.76	9,730.00	40.79	37.61	-27.85	1,075.92	42.17	985.80	935.04	50.76	19.422		
11,600.00	10,600.00	10,812.76	9,730.00	41.37	38.26	-27.85	1,175.92	41.45	985.79	934.26	51.53	19.130		
11,700.00	10,600.00	10,912.76	9,730.00	41.99	38.96	-27.85	1,275.91	40.73	985.79	933.42	52.37	18.825		
11,800.00	10,600.00	11,012.76	9,730.00	42.65	39.70	-27.85	1,375.91	40.01	985.78	932.52	53.26	18.509		
11,900.00	10,600.00	11,112.76	9,730.00	43.35	40.47	-27.85	1,475.91	39.29	985.77	931.56	54.21	18.185		
12,000.00	10,600.00	11,212.76	9,730.00	44.09	41.29	-27.85	1,575.90	38.57	985.77	930.56	55.21	17.856		
12,100.00	10,600.00	11,312.76	9,730.00	44.86	42.13	-27.85	1,675.90	37.84	985.76	929.50	56.26	17.522		
12,200.00	10,600.00	11,412.76	9,730.00	45.67	43.01	-27.85	1,775.90	37.12	985.75	928.40	57.35	17.188		
12,300.00	10,600.00	11,512.76	9,730.00	46.50	43.92	-27.85	1,875.90	36.40	985.75	927.26	58.49	16.853		
12,400.00	10,600.00	11,612.76	9,730.00	47.37	44.86	-27.85	1,975.89	35.68	985.74	926.07	59.67	16.519		
12,500.00	10,600.00	11,712.76	9,730.00	48.26	45.83	-27.85	2,075.89	34.96	985.73	924.84	60.89	16.188		
12,600.00	10,600.00	11,812.76	9,730.00	49.18	46.82	-27.84	2,175.89	34.24	985.73	923.58	62.15	15.861		
12,700.00	10,600.00	11,912.76	9,730.00	50.13	47.84	-27.84	2,275.89	33.52	985.72	922.28	63.44	15.538		
12,800.00	10,600.00	12,012.76	9,730.00	51.10	48.87	-27.84	2,375.88	32.80	985.72	920.95	64.76	15.221		
12,900.00	10,600.00	12,112.76	9,730.00	52.09	49.93	-27.84	2,475.88	32.08	985.71	919.59	66.11	14.909		
13,000.00	10,600.00	12,212.76	9,730.00	53.10	51.01	-27.84	2,575.88	31.36	985.70	918.21	67.50	14.604		
13,100.00	10,600.00	12,312.76	9,730.00	54.14	52.11	-27.84	2,675.88	30.64	985.70	916.79	68.91	14.305		
13,200.00	10,600.00	12,412.76	9,730.00	55.19	53.22	-27.84	2,775.87	29.92	985.69	915.35	70.34	14.013		
13,300.00	10,600.00	12,512.76	9,730.00	56.26	54.35	-27.84	2,875.87	29.20	985.68	913.88	71.80	13.728		
13,400.00	10,600.00	12,612.76	9,730.00	57.35	55.50	-27.84	2,975.87	28.48	985.68	912.40	73.28	13.451		
13,500.00	10,600.00	12,712.76	9,730.00	58.45	56.66	-27.84	3,075.87	27.76	985.67	910.89	74.78	13.181		
13,600.00	10,600.00	12,812.76	9,730.00	59.57	57.83	-27.84	3,175.86	27.03	985.66	909.36	76.30	12.918		
13,700.00	10,600.00	12,912.76	9,730.00	60.71	59.02	-27.84	3,275.86	26.31	985.66	907.82	77.84	12.662		
13,800.00	10,600.00	13,012.76	9,730.00	61.85	60.21	-27.84	3,375.86	25.59	985.65	906.25	79.40	12.414		
13,900.00	10,600.00	13,112.76	9,730.00	63.01	61.42	-27.84	3,475.86	24.87	985.64	904.67	80.97	12.172		
14,000.00	10,600.00	13,212.76	9,730.00	64.18	62.64	-27.83	3,575.85	24.15	985.64	903.08	82.56	11.938		
14,100.00	10,600.00	13,312.76	9,730.00	65.37	63.87	-27.83	3,675.85	23.43	985.63	901.46	84.17	11.710		
14,200.00	10,600.00	13,412.76	9,730.00	66.56	65.11	-27.83	3,775.85	22.71	985.63	899.84	85.79	11.489		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,300.00	10,600.00	13,512.76	9,730.00	67.76	66.36	-27.83	3,875.85	21.99	985.62	898.20	87.42	11.275	
14,400.00	10,600.00	13,612.76	9,730.00	68.98	67.61	-27.83	3,975.84	21.27	985.61	896.55	89.06	11.067	
14,500.00	10,600.00	13,712.76	9,730.00	70.20	68.88	-27.83	4,075.84	20.55	985.61	894.89	90.72	10.865	
14,600.00	10,600.00	13,812.76	9,730.00	71.43	70.15	-27.83	4,175.84	19.83	985.60	893.22	92.38	10.669	
14,700.00	10,600.00	13,912.76	9,730.00	72.67	71.43	-27.83	4,275.83	19.11	985.59	891.53	94.06	10.478	
14,800.00	10,600.00	14,012.76	9,730.00	73.92	72.71	-27.83	4,375.83	18.39	985.59	889.84	95.75	10.294	
14,900.00	10,600.00	14,112.76	9,730.00	75.17	74.00	-27.83	4,475.83	17.67	985.58	888.14	97.44	10.114	
15,000.00	10,600.00	14,212.76	9,730.00	76.44	75.30	-27.83	4,575.83	16.94	985.57	886.42	99.15	9.940	
15,100.00	10,600.00	14,312.76	9,730.00	77.70	76.60	-27.83	4,675.82	16.22	985.57	884.70	100.86	9.771	
15,200.00	10,600.00	14,412.76	9,730.00	78.98	77.91	-27.83	4,775.82	15.50	985.56	882.98	102.59	9.607	
15,300.00	10,600.00	14,512.76	9,730.00	80.26	79.22	-27.83	4,875.82	14.78	985.56	881.24	104.32	9.448	
15,400.00	10,600.00	14,612.76	9,730.00	81.55	80.54	-27.82	4,975.82	14.06	985.55	879.50	106.05	9.293	
15,484.47	10,600.00	14,697.23	9,730.00	82.64	81.66	-27.82	5,060.29	13.45	985.54	878.02	107.52	9.166	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	-88.65	37.58	-1,596.33	1,596.78					
100.00	100.00	106.20	93.80	0.52	0.52	-88.65	37.58	-1,596.33	1,596.78	1,595.73	1.04	1,532.825		
200.00	200.00	206.20	193.80	0.70	0.72	-88.65	37.58	-1,596.33	1,596.78	1,595.36	1.42	1,124.503		
300.00	300.00	306.20	293.80	0.99	1.01	-88.65	37.58	-1,596.33	1,596.78	1,594.78	1.99	800.831		
400.00	400.00	406.20	393.80	1.31	1.33	-88.65	37.58	-1,596.33	1,596.78	1,594.14	2.64	605.126		
500.00	500.00	506.20	493.80	1.65	1.67	-88.65	37.58	-1,596.33	1,596.78	1,593.46	3.31	481.920		
600.00	600.00	606.20	593.80	1.99	2.01	-88.65	37.58	-1,596.33	1,596.78	1,592.77	4.00	398.922		
700.00	700.00	706.20	693.80	2.34	2.36	-88.65	37.58	-1,596.33	1,596.78	1,592.08	4.70	339.714		
800.00	800.00	806.20	793.80	2.69	2.71	-88.65	37.58	-1,596.33	1,596.78	1,591.37	5.40	295.533		
900.00	900.00	906.20	893.80	3.04	3.07	-88.65	37.58	-1,596.33	1,596.78	1,590.67	6.11	261.380		
1,000.00	1,000.00	1,006.20	993.80	3.40	3.42	-88.65	37.58	-1,596.33	1,596.78	1,589.96	6.82	234.224		
1,100.00	1,100.00	1,106.20	1,093.80	3.75	3.77	-88.65	37.58	-1,596.33	1,596.78	1,589.25	7.53	212.133		
1,200.00	1,200.00	1,206.20	1,193.80	4.11	4.13	-88.65	37.58	-1,596.33	1,596.78	1,588.54	8.24	193.822		
1,300.00	1,300.00	1,306.20	1,293.80	4.46	4.49	-88.65	37.58	-1,596.33	1,596.78	1,587.83	8.95	178.402		
1,400.00	1,400.00	1,406.20	1,393.80	4.82	4.84	-88.65	37.58	-1,596.33	1,596.78	1,587.11	9.66	165.243		
1,500.00	1,500.00	1,506.20	1,493.80	5.18	5.20	-88.65	37.58	-1,596.33	1,596.78	1,586.40	10.38	153.883		
1,600.00	1,600.00	1,606.20	1,593.80	5.53	5.56	-88.65	37.58	-1,596.33	1,596.78	1,585.69	11.09	143.978		
1,700.00	1,700.00	1,706.20	1,693.80	5.89	5.91	-88.65	37.58	-1,596.33	1,596.78	1,584.97	11.80	135.267		
1,800.00	1,800.00	1,806.20	1,793.80	6.25	6.27	-88.65	37.58	-1,596.33	1,596.78	1,584.26	12.52	127.547		
1,900.00	1,900.00	1,906.20	1,893.80	6.61	6.63	-88.65	37.58	-1,596.33	1,596.78	1,583.54	13.23	120.658		
2,000.00	2,000.00	2,006.20	1,993.80	6.96	6.99	-88.65	37.58	-1,596.33	1,596.78	1,582.83	13.95	114.473 CC, ES		
2,100.00	2,099.99	2,106.21	2,093.79	7.31	7.34	175.87	37.58	-1,596.33	1,597.65	1,582.99	14.65	109.023		
2,200.00	2,199.96	2,206.24	2,193.76	7.65	7.70	175.88	37.58	-1,596.33	1,600.26	1,584.91	15.35	104.242		
2,300.00	2,299.86	2,306.34	2,293.66	7.99	8.06	175.89	37.58	-1,596.33	1,604.61	1,588.56	16.05	99.973		
2,399.87	2,399.54	2,406.66	2,393.34	8.34	8.42	175.90	37.58	-1,596.33	1,610.69	1,593.94	16.75	96.154		
2,500.00	2,499.43	2,506.77	2,493.23	8.69	8.78	175.91	37.58	-1,596.33	1,617.65	1,600.20	17.45	92.686		
2,600.00	2,599.19	2,607.01	2,592.99	9.03	9.14	175.93	37.58	-1,596.33	1,624.61	1,606.45	18.16	89.480		
2,700.00	2,698.94	2,707.26	2,692.74	9.39	9.49	175.95	37.58	-1,596.33	1,631.56	1,612.70	18.86	86.507		
2,800.00	2,798.70	2,807.50	2,792.50	9.74	9.85	175.97	37.58	-1,596.33	1,638.52	1,618.95	19.57	83.743		
2,900.00	2,898.46	2,907.74	2,892.26	10.09	10.21	175.98	37.58	-1,596.33	1,645.48	1,625.20	20.27	81.167		
3,000.00	2,998.21	3,007.99	2,992.01	10.45	10.57	176.00	37.58	-1,596.33	1,652.43	1,631.45	20.98	78.761		
3,100.00	3,097.97	3,108.23	3,091.77	10.80	10.93	176.02	37.58	-1,596.33	1,659.39	1,637.70	21.69	76.509		
3,200.00	3,197.73	3,208.47	3,191.53	11.16	11.29	176.03	37.58	-1,596.33	1,666.35	1,643.95	22.40	74.397		
3,300.00	3,297.48	3,308.72	3,291.28	11.52	11.65	176.05	37.58	-1,596.33	1,673.30	1,650.19	23.11	72.412		
3,400.00	3,397.24	3,408.96	3,391.04	11.88	12.01	176.07	37.58	-1,596.33	1,680.26	1,656.44	23.82	70.544		
3,500.00	3,497.00	3,490.80	3,490.80	12.24	12.30	176.08	37.58	-1,596.33	1,687.22	1,662.75	24.46	68.968		
3,600.00	3,596.75	3,577.17	3,577.17	12.60	12.60	176.08	37.17	-1,596.65	1,694.53	1,669.42	25.11	67.483		
3,700.00	3,696.51	3,662.07	3,662.05	12.96	12.88	176.05	35.76	-1,597.73	1,702.71	1,676.97	25.74	66.153		
3,800.00	3,796.27	3,748.39	3,748.31	13.32	13.16	175.98	33.32	-1,599.60	1,711.75	1,685.38	26.37	64.917		
3,900.00	3,896.02	3,847.91	3,847.74	13.68	13.49	175.88	30.04	-1,602.11	1,721.14	1,694.09	27.05	63.631		
4,000.00	3,995.78	3,947.42	3,947.18	14.04	13.82	175.79	26.76	-1,604.62	1,730.53	1,702.80	27.73	62.404		
4,100.00	4,095.54	4,046.94	4,046.61	14.40	14.15	175.70	23.49	-1,607.14	1,739.93	1,711.52	28.42	61.232		
4,200.00	4,195.29	4,146.46	4,146.04	14.77	14.48	175.60	20.21	-1,609.65	1,749.34	1,720.24	29.10	60.112		
4,300.00	4,295.05	4,245.98	4,245.47	15.13	14.81	175.51	16.93	-1,612.16	1,758.75	1,728.96	29.79	59.040		
4,400.00	4,394.81	4,345.49	4,344.90	15.49	15.15	175.42	13.66	-1,614.67	1,768.16	1,737.68	30.48	58.013		
4,500.00	4,494.56	4,445.01	4,444.33	15.86	15.48	175.33	10.38	-1,617.18	1,777.58	1,746.41	31.17	57.030		
4,600.00	4,594.32	4,544.53	4,543.77	16.22	15.82	175.24	7.11	-1,619.69	1,787.00	1,755.14	31.86	56.086		
4,700.00	4,694.08	4,644.05	4,643.20	16.59	16.16	175.16	3.83	-1,622.20	1,796.42	1,763.87	32.56	55.181		
4,800.00	4,793.83	4,743.56	4,742.63	16.95	16.50	175.07	0.55	-1,624.71	1,805.85	1,772.60	33.25	54.312		
4,900.00	4,893.59	4,843.08	4,842.06	17.32	16.84	174.98	-2.72	-1,627.23	1,815.29	1,781.34	33.95	53.476		
5,000.00	4,993.35	4,942.60	4,941.49	17.68	17.18	174.90	-6.00	-1,629.74	1,824.72	1,790.08	34.64	52.673		
5,100.00	5,093.10	5,042.12	5,040.93	18.05	17.52	174.81	-9.28	-1,632.25	1,834.16	1,798.82	35.34	51.900		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,141.63	5,140.36	18.42	17.87	174.73	-12.55	-1,634.76	1,843.61	1,807.57	36.04	51.155		
5,300.00	5,292.62	5,241.15	5,239.79	18.78	18.21	174.65	-15.83	-1,637.27	1,853.06	1,816.32	36.74	50.438		
5,400.00	5,392.37	5,340.67	5,339.22	19.15	18.55	174.57	-19.10	-1,639.78	1,862.51	1,825.07	37.44	49.747		
5,500.00	5,492.13	5,440.19	5,438.65	19.52	18.90	174.49	-22.38	-1,642.29	1,871.97	1,833.83	38.14	49.080		
5,600.00	5,591.89	5,539.70	5,538.08	19.88	19.24	174.41	-25.66	-1,644.80	1,881.43	1,842.58	38.84	48.436		
5,700.00	5,691.64	5,639.22	5,637.52	20.25	19.59	174.33	-28.93	-1,647.32	1,890.89	1,851.35	39.55	47.814		
5,800.00	5,791.40	5,738.74	5,736.95	20.62	19.94	174.25	-32.21	-1,649.83	1,900.36	1,860.11	40.25	47.214		
5,900.00	5,891.16	5,838.26	5,836.38	20.98	20.28	174.17	-35.49	-1,652.34	1,909.83	1,868.88	40.95	46.633		
6,000.00	5,990.91	5,937.77	5,935.81	21.35	20.63	174.10	-38.76	-1,654.85	1,919.30	1,877.65	41.66	46.071		
6,100.00	6,090.67	6,037.29	6,035.24	21.72	20.98	174.02	-42.04	-1,657.36	1,928.78	1,886.42	42.36	45.528		
6,200.00	6,190.42	6,136.81	6,134.68	22.09	21.33	173.94	-45.31	-1,659.87	1,938.26	1,895.19	43.07	45.002		
6,300.00	6,290.18	6,236.33	6,234.11	22.45	21.68	173.87	-48.59	-1,662.38	1,947.75	1,903.97	43.78	44.492		
6,400.00	6,389.94	6,335.84	6,333.54	22.82	22.03	173.80	-51.87	-1,664.89	1,957.24	1,912.75	44.48	43.998		
6,500.00	6,489.69	6,435.36	6,432.97	23.19	22.38	173.72	-55.14	-1,667.40	1,966.73	1,921.53	45.19	43.519		
6,600.00	6,589.45	6,534.88	6,532.40	23.56	22.73	173.65	-58.42	-1,669.92	1,976.22	1,930.32	45.90	43.054		
6,700.00	6,689.21	6,634.40	6,631.83	23.93	23.08	173.58	-61.69	-1,672.43	1,985.72	1,939.11	46.61	42.604		
6,800.00	6,788.96	6,733.91	6,731.27	24.29	23.43	173.51	-64.97	-1,674.94	1,995.22	1,947.90	47.32	42.166		
6,900.00	6,888.72	6,833.43	6,830.70	24.66	23.78	173.44	-68.25	-1,677.45	2,004.72	1,956.69	48.03	41.741		
7,000.00	6,988.48	6,932.95	6,930.13	25.03	24.13	173.37	-71.52	-1,679.96	2,014.23	1,965.49	48.74	41.328		
7,100.00	7,088.23	7,032.47	7,029.56	25.40	24.49	173.30	-74.80	-1,682.47	2,023.73	1,974.29	49.45	40.927		
7,200.00	7,187.99	7,131.98	7,128.99	25.77	24.84	173.23	-78.08	-1,684.98	2,033.25	1,983.09	50.16	40.537		
7,300.00	7,287.75	7,231.50	7,228.43	26.14	25.19	173.16	-81.35	-1,687.49	2,042.76	1,991.89	50.87	40.158		
7,400.00	7,387.50	7,331.02	7,327.86	26.50	25.54	173.10	-84.63	-1,690.01	2,052.28	2,000.70	51.58	39.789		
7,500.00	7,487.26	7,430.54	7,427.29	26.87	25.90	173.03	-87.90	-1,692.52	2,061.80	2,009.51	52.29	39.429		
7,600.00	7,587.02	7,530.05	7,526.72	27.24	26.25	172.96	-91.18	-1,695.03	2,071.32	2,018.32	53.00	39.079		
7,700.00	7,686.77	7,629.57	7,626.15	27.61	26.60	172.90	-94.46	-1,697.54	2,080.85	2,027.13	53.71	38.739		
7,800.00	7,786.53	7,729.09	7,725.58	27.98	26.96	172.83	-97.73	-1,700.05	2,090.37	2,035.95	54.43	38.407		
7,900.00	7,886.29	7,828.61	7,825.02	28.35	27.31	172.77	-101.01	-1,702.56	2,099.91	2,044.77	55.14	38.083		
8,000.00	7,986.04	7,928.12	7,924.45	28.72	27.67	172.71	-104.29	-1,705.07	2,109.44	2,053.59	55.85	37.768		
8,100.00	8,085.80	8,027.64	8,023.88	29.09	28.02	172.64	-107.56	-1,707.58	2,118.97	2,062.41	56.57	37.460		
8,200.00	8,185.56	8,127.16	8,123.31	29.46	28.38	172.58	-110.84	-1,710.10	2,128.51	2,071.23	57.28	37.160		
8,300.00	8,285.31	8,226.68	8,222.74	29.83	28.73	172.52	-114.11	-1,712.61	2,138.05	2,080.06	57.99	36.867		
8,400.00	8,385.07	8,326.19	8,322.18	30.20	29.09	172.46	-117.39	-1,715.12	2,147.60	2,088.89	58.71	36.582		
8,500.00	8,484.83	8,425.71	8,421.61	30.56	29.44	172.40	-120.67	-1,717.63	2,157.14	2,097.72	59.42	36.303		
8,600.00	8,584.58	8,525.23	8,521.04	30.93	29.80	172.34	-123.94	-1,720.14	2,166.69	2,106.56	60.14	36.030		
8,700.00	8,684.34	8,624.75	8,620.47	31.30	30.15	172.28	-127.22	-1,722.65	2,176.24	2,115.39	60.85	35.764		
8,800.00	8,784.10	8,724.26	8,719.90	31.67	30.51	172.22	-130.50	-1,725.16	2,185.79	2,124.23	61.56	35.504		
8,900.00	8,883.85	8,823.78	8,819.33	32.04	30.86	172.16	-133.77	-1,727.67	2,195.35	2,133.07	62.28	35.250		
9,000.00	8,983.61	8,923.30	8,918.77	32.41	31.22	172.10	-137.05	-1,730.19	2,204.91	2,141.91	62.99	35.002		
9,100.00	9,083.37	9,022.81	9,018.20	32.78	31.58	172.04	-140.32	-1,732.70	2,214.47	2,150.76	63.71	34.759		
9,200.00	9,183.12	9,122.33	9,117.63	33.15	31.93	171.99	-143.60	-1,735.21	2,224.03	2,159.60	64.43	34.521		
9,300.00	9,282.88	9,221.85	9,217.06	33.52	32.29	171.93	-146.88	-1,737.72	2,233.59	2,168.45	65.14	34.289		
9,400.00	9,382.64	9,321.37	9,316.49	33.89	32.65	171.88	-150.15	-1,740.23	2,243.16	2,177.30	65.86	34.061		
9,428.07	9,410.64	9,349.30	9,344.41	33.99	32.75	171.86	-151.07	-1,740.93	2,245.84	2,179.79	66.06	33.998		
9,500.00	9,482.43	9,420.94	9,415.98	34.26	33.00	171.83	-153.43	-1,742.74	2,252.06	2,185.49	66.57	33.829		
9,600.00	9,582.36	9,520.70	9,515.65	34.62	33.36	171.78	-156.72	-1,745.26	2,258.48	2,191.19	67.29	33.565		
9,694.65	9,677.00	9,672.05	9,666.96	34.95	33.90	-92.80	-159.41	-1,747.33	2,261.03	2,192.83	68.19	33.157		
9,700.00	9,682.35	9,680.72	9,675.62	34.97	33.93	-92.80	-159.42	-1,747.33	2,261.03	2,192.79	68.24	33.133		
9,800.00	9,782.35	9,781.24	9,776.15	35.31	34.27	-92.80	-159.42	-1,747.33	2,261.03	2,192.10	68.93	32.802		
9,900.00	9,882.35	9,881.24	9,876.15	35.65	34.61	-92.80	-159.42	-1,747.33	2,261.03	2,191.41	69.62	32.478		
10,000.00	9,982.35	9,981.24	9,976.15	35.99	34.96	-92.80	-159.42	-1,747.33	2,261.03	2,190.73	70.30	32.161		
10,044.69	10,027.04	10,025.93	10,020.84	36.14	35.11	-92.80	-159.42	-1,747.33	2,261.03	2,190.42	70.61	32.021		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	10,031.24	10,026.15	36.16	35.13	-92.38	-159.42	-1,747.33	2,261.03	2,190.38	70.65	32.004		
10,100.00	10,082.26	10,090.94	10,085.74	36.32	35.33	-92.38	-156.41	-1,747.35	2,261.04	2,190.01	71.02	31.835		
10,150.00	10,131.76	10,150.76	10,144.82	36.49	35.53	-92.36	-147.18	-1,747.42	2,261.00	2,189.61	71.39	31.670		
10,200.00	10,180.46	10,210.42	10,202.46	36.65	35.72	-92.32	-131.91	-1,747.53	2,260.94	2,189.19	71.75	31.512		
10,250.00	10,227.98	10,269.79	10,257.94	36.81	35.89	-92.26	-110.84	-1,747.68	2,260.84	2,188.75	72.09	31.361		
10,300.00	10,273.98	10,328.76	10,310.59	36.95	36.06	-92.18	-84.34	-1,747.87	2,260.71	2,188.29	72.42	31.217		
10,350.00	10,318.11	10,387.23	10,359.84	37.09	36.21	-92.07	-52.86	-1,748.09	2,260.55	2,187.82	72.74	31.079		
10,400.00	10,360.01	10,445.12	10,405.18	37.21	36.36	-91.95	-16.92	-1,748.35	2,260.38	2,187.34	73.04	30.946		
10,450.00	10,399.38	10,502.34	10,446.22	37.32	36.50	-91.82	22.93	-1,748.63	2,260.20	2,186.86	73.34	30.819		
10,500.00	10,435.92	10,558.85	10,482.64	37.42	36.63	-91.67	66.10	-1,748.94	2,260.01	2,186.38	73.63	30.695		
10,550.00	10,469.35	10,614.60	10,514.24	37.51	36.77	-91.50	112.00	-1,749.27	2,259.82	2,185.91	73.91	30.575		
10,600.00	10,499.41	10,669.55	10,540.87	37.59	36.90	-91.33	160.04	-1,749.61	2,259.64	2,185.45	74.19	30.458		
10,650.00	10,525.87	10,723.69	10,562.50	37.66	37.03	-91.14	209.65	-1,749.97	2,259.47	2,185.00	74.47	30.343		
10,700.00	10,548.54	10,777.01	10,579.13	37.74	37.16	-90.95	260.29	-1,750.33	2,259.32	2,184.58	74.74	30.230		
10,750.00	10,567.24	10,829.52	10,590.84	37.84	37.29	-90.75	311.46	-1,750.69	2,259.19	2,184.18	75.01	30.119		
10,800.00	10,581.83	10,881.24	10,597.74	37.97	37.42	-90.55	362.70	-1,751.06	2,259.08	2,183.80	75.28	30.009		
10,850.00	10,592.19	10,932.17	10,600.00	38.11	37.55	-90.35	413.56	-1,751.42	2,259.01	2,183.46	75.55	29.902		
10,900.00	10,598.26	10,981.79	10,600.00	38.25	37.68	-90.20	463.17	-1,751.78	2,258.97	2,183.15	75.82	29.795		
10,944.69	10,600.00	11,026.43	10,600.00	38.39	37.81	-90.16	507.82	-1,752.10	2,258.95	2,182.88	76.07	29.694		
11,000.00	10,600.00	11,081.74	10,600.00	38.56	37.99	-90.16	563.13	-1,752.49	2,258.94	2,182.53	76.41	29.563		
11,100.00	10,600.00	11,181.74	10,600.00	38.91	38.34	-90.16	663.12	-1,753.20	2,258.92	2,181.82	77.10	29.297		
11,200.00	10,600.00	11,281.74	10,600.00	39.31	38.75	-90.16	763.12	-1,753.92	2,258.90	2,181.00	77.90	28.998		
11,300.00	10,600.00	11,381.74	10,600.00	39.76	39.21	-90.16	863.12	-1,754.63	2,258.88	2,180.09	78.79	28.669		
11,400.00	10,600.00	11,481.74	10,600.00	40.25	39.72	-90.16	963.12	-1,755.35	2,258.86	2,179.08	79.78	28.312		
11,500.00	10,600.00	11,581.74	10,600.00	40.79	40.27	-90.16	1,063.11	-1,756.06	2,258.84	2,177.97	80.87	27.932		
11,600.00	10,600.00	11,681.74	10,600.00	41.37	40.87	-90.16	1,163.11	-1,756.77	2,258.82	2,176.78	82.04	27.533		
11,700.00	10,600.00	11,781.74	10,600.00	41.99	41.51	-90.16	1,263.11	-1,757.49	2,258.80	2,175.50	83.30	27.117		
11,800.00	10,600.00	11,881.74	10,600.00	42.65	42.19	-90.16	1,363.11	-1,758.20	2,258.78	2,174.14	84.64	26.687		
11,900.00	10,600.00	11,981.74	10,600.00	43.35	42.91	-90.16	1,463.10	-1,758.91	2,258.76	2,172.70	86.06	26.247		
12,000.00	10,600.00	12,081.74	10,600.00	44.09	43.66	-90.16	1,563.10	-1,759.63	2,258.74	2,171.19	87.55	25.800		
12,100.00	10,600.00	12,181.74	10,600.00	44.86	44.45	-90.16	1,663.10	-1,760.34	2,258.72	2,169.61	89.11	25.348		
12,200.00	10,600.00	12,281.74	10,600.00	45.67	45.27	-90.16	1,763.10	-1,761.06	2,258.70	2,167.96	90.74	24.892		
12,300.00	10,600.00	12,381.74	10,600.00	46.50	46.13	-90.16	1,863.09	-1,761.77	2,258.67	2,166.24	92.43	24.437		
12,400.00	10,600.00	12,481.74	10,600.00	47.37	47.01	-90.16	1,963.09	-1,762.48	2,258.65	2,164.47	94.18	23.982		
12,500.00	10,600.00	12,581.74	10,600.00	48.26	47.92	-90.16	2,063.09	-1,763.20	2,258.63	2,162.64	95.99	23.530		
12,600.00	10,600.00	12,681.74	10,600.00	49.18	48.86	-90.16	2,163.09	-1,763.91	2,258.61	2,160.76	97.85	23.082		
12,700.00	10,600.00	12,781.74	10,600.00	50.13	49.83	-90.16	2,263.08	-1,764.63	2,258.59	2,158.83	99.76	22.640		
12,800.00	10,600.00	12,881.74	10,600.00	51.10	50.81	-90.16	2,363.08	-1,765.34	2,258.57	2,156.85	101.72	22.204		
12,900.00	10,600.00	12,981.74	10,600.00	52.09	51.82	-90.16	2,463.08	-1,766.05	2,258.55	2,154.83	103.72	21.775		
13,000.00	10,600.00	13,081.74	10,600.00	53.10	52.85	-90.16	2,563.08	-1,766.77	2,258.53	2,152.76	105.77	21.353		
13,100.00	10,600.00	13,181.74	10,600.00	54.14	53.90	-90.16	2,663.07	-1,767.48	2,258.51	2,150.65	107.85	20.940		
13,200.00	10,600.00	13,281.74	10,600.00	55.19	54.97	-90.16	2,763.07	-1,768.19	2,258.49	2,148.51	109.98	20.536		
13,300.00	10,600.00	13,381.74	10,600.00	56.26	56.05	-90.16	2,863.07	-1,768.91	2,258.47	2,146.33	112.14	20.140		
13,400.00	10,600.00	13,481.74	10,600.00	57.35	57.16	-90.16	2,963.07	-1,769.62	2,258.45	2,144.12	114.33	19.754		
13,500.00	10,600.00	13,581.74	10,600.00	58.45	58.27	-90.16	3,063.06	-1,770.34	2,258.43	2,141.87	116.55	19.377		
13,600.00	10,600.00	13,681.74	10,600.00	59.57	59.41	-90.16	3,163.06	-1,771.05	2,258.41	2,139.60	118.81	19.009		
13,700.00	10,600.00	13,781.74	10,600.00	60.71	60.55	-90.16	3,263.06	-1,771.76	2,258.39	2,137.30	121.09	18.651		
13,800.00	10,600.00	13,881.74	10,600.00	61.85	61.71	-90.16	3,363.06	-1,772.48	2,258.36	2,134.97	123.40	18.302		
13,900.00	10,600.00	13,981.74	10,600.00	63.01	62.88	-90.16	3,463.05	-1,773.19	2,258.34	2,132.62	125.73	17.962		
14,000.00	10,600.00	14,081.74	10,600.00	64.18	64.07	-90.16	3,563.05	-1,773.90	2,258.32	2,130.24	128.09	17.631		
14,100.00	10,600.00	14,181.74	10,600.00	65.37	65.26	-90.16	3,663.05	-1,774.62	2,258.30	2,127.84	130.47	17.310		
14,200.00	10,600.00	14,281.74	10,600.00	66.56	66.46	-90.16	3,763.05	-1,775.33	2,258.28	2,125.42	132.87	16.997		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 16H - 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	
14,300.00	10,600.00	14,381.74	10,600.00	67.76	67.68	-90.16	3,863.04	-1,776.05	2,258.26	2,122.98	135.29	16.692	
14,400.00	10,600.00	14,481.74	10,600.00	68.98	68.90	-90.16	3,963.04	-1,776.76	2,258.24	2,120.51	137.73	16.397	
14,500.00	10,600.00	14,581.74	10,600.00	70.20	70.13	-90.16	4,063.04	-1,777.47	2,258.22	2,118.04	140.18	16.109	
14,600.00	10,600.00	14,681.74	10,600.00	71.43	71.38	-90.16	4,163.03	-1,778.19	2,258.20	2,115.54	142.66	15.829	
14,700.00	10,600.00	14,781.74	10,600.00	72.67	72.63	-90.16	4,263.03	-1,778.90	2,258.18	2,113.03	145.15	15.558	
14,800.00	10,600.00	14,881.74	10,600.00	73.92	73.88	-90.16	4,363.03	-1,779.61	2,258.16	2,110.50	147.66	15.293	
14,900.00	10,600.00	14,981.74	10,600.00	75.17	75.15	-90.16	4,463.03	-1,780.33	2,258.14	2,107.96	150.18	15.036	
15,000.00	10,600.00	15,081.74	10,600.00	76.44	76.42	-90.16	4,563.02	-1,781.04	2,258.12	2,105.40	152.71	14.787	
15,100.00	10,600.00	15,181.74	10,600.00	77.70	77.69	-90.16	4,663.02	-1,781.76	2,258.10	2,102.83	155.26	14.544	
15,200.00	10,600.00	15,281.74	10,600.00	78.98	78.98	-90.16	4,763.02	-1,782.47	2,258.08	2,100.25	157.82	14.308	
15,300.00	10,600.00	15,381.74	10,600.00	80.26	80.27	-90.16	4,863.02	-1,783.18	2,258.06	2,097.66	160.40	14.078	
15,400.00	10,600.00	15,481.74	10,600.00	81.55	81.56	-90.16	4,963.01	-1,783.90	2,258.03	2,095.05	162.98	13.855	
15,484.47	10,600.00	15,566.21	10,600.00	82.64	82.66	-90.16	5,047.48	-1,784.50	2,258.02	2,092.85	165.17	13.671 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	6.10	-6.10	0.50	0.50	-88.62	37.77	-1,566.33	1,566.79					
100.00	100.00	106.10	93.90	0.52	0.52	-88.62	37.77	-1,566.33	1,566.79	1,565.75	1.04	1,504.193		
200.00	200.00	206.10	193.90	0.70	0.72	-88.62	37.77	-1,566.33	1,566.79	1,565.37	1.42	1,103.585		
300.00	300.00	306.10	293.90	0.99	1.01	-88.62	37.77	-1,566.33	1,566.79	1,564.79	1.99	785.914		
400.00	400.00	406.10	393.90	1.31	1.33	-88.62	37.77	-1,566.33	1,566.79	1,564.15	2.64	593.837		
500.00	500.00	506.10	493.90	1.65	1.67	-88.62	37.77	-1,566.33	1,566.79	1,563.48	3.31	472.918		
600.00	600.00	606.10	593.90	1.99	2.01	-88.62	37.77	-1,566.33	1,566.79	1,562.79	4.00	391.464		
700.00	700.00	706.10	693.90	2.34	2.36	-88.62	37.77	-1,566.33	1,566.79	1,562.09	4.70	333.359		
800.00	800.00	806.10	793.90	2.69	2.71	-88.62	37.77	-1,566.33	1,566.79	1,561.39	5.40	290.002		
900.00	900.00	906.10	893.90	3.04	3.07	-88.62	37.77	-1,566.33	1,566.79	1,560.68	6.11	256.486		
1,000.00	1,000.00	1,006.10	993.90	3.40	3.42	-88.62	37.77	-1,566.33	1,566.79	1,559.97	6.82	229.837		
1,100.00	1,100.00	1,093.90	1,093.90	3.75	3.73	-88.62	37.77	-1,566.33	1,566.79	1,559.30	7.48	209.365		
1,200.00	1,200.00	1,228.43	1,228.42	4.11	4.19	-88.63	37.48	-1,564.92	1,565.75	1,557.45	8.30	188.639		
1,300.00	1,300.00	1,365.07	1,364.97	4.46	4.66	-88.66	36.52	-1,560.33	1,562.38	1,553.26	9.11	171.424		
1,400.00	1,400.00	1,501.40	1,501.07	4.82	5.13	-88.71	34.91	-1,552.57	1,556.66	1,546.73	9.93	156.801		
1,500.00	1,500.00	1,637.28	1,636.49	5.18	5.61	-88.79	32.65	-1,541.69	1,548.61	1,537.87	10.74	144.196		
1,600.00	1,600.00	1,772.55	1,771.01	5.53	6.09	-88.88	29.76	-1,527.73	1,538.25	1,526.70	11.55	133.213		
1,700.00	1,700.00	1,876.63	1,874.33	5.89	6.47	-88.97	27.22	-1,515.50	1,526.45	1,514.18	12.26	124.458		
1,800.00	1,800.00	1,975.90	1,972.88	6.25	6.83	-89.06	24.79	-1,503.81	1,514.63	1,501.66	12.97	116.773		
1,900.00	1,900.00	2,075.17	2,071.44	6.61	7.20	-89.14	22.36	-1,492.12	1,502.81	1,489.13	13.68	109.867		
2,000.00	2,000.00	2,174.45	2,169.99	6.96	7.57	-89.23	19.94	-1,480.43	1,491.00	1,476.61	14.39	103.629		
2,100.00	2,099.99	2,273.82	2,268.64	7.31	7.95	175.22	17.51	-1,468.73	1,480.06	1,464.97	15.09	98.090		
2,200.00	2,199.96	2,373.37	2,367.47	7.65	8.32	175.14	15.08	-1,457.01	1,470.85	1,455.06	15.78	93.191		
2,300.00	2,299.86	2,473.07	2,466.45	7.99	8.70	175.07	12.64	-1,445.27	1,463.37	1,446.89	16.48	88.790		
2,399.87	2,399.54	2,572.76	2,565.41	8.34	9.08	175.01	10.20	-1,433.53	1,457.64	1,440.46	17.18	84.836		
2,500.00	2,499.43	2,672.76	2,664.68	8.69	9.46	174.94	7.76	-1,421.75	1,452.76	1,434.88	17.89	81.218		
2,600.00	2,599.19	2,772.62	2,763.83	9.03	9.84	174.87	5.32	-1,409.99	1,447.89	1,429.30	18.59	77.869		
2,700.00	2,698.94	2,872.49	2,862.97	9.39	10.23	174.80	2.88	-1,398.23	1,443.03	1,423.73	19.30	74.757		
2,800.00	2,798.70	2,972.36	2,962.11	9.74	10.61	174.73	0.43	-1,386.48	1,438.17	1,418.15	20.01	71.861		
2,900.00	2,898.46	3,072.22	3,061.25	10.09	11.00	174.66	-2.01	-1,374.72	1,433.30	1,412.58	20.73	69.157		
3,000.00	2,998.21	3,172.09	3,160.39	10.45	11.38	174.59	-4.45	-1,362.96	1,428.44	1,407.01	21.44	66.629		
3,100.00	3,097.97	3,271.96	3,259.53	10.80	11.77	174.52	-6.89	-1,351.20	1,423.59	1,401.43	22.15	64.260		
3,200.00	3,197.73	3,371.82	3,358.67	11.16	12.16	174.45	-9.33	-1,339.44	1,418.73	1,395.86	22.87	62.037		
3,300.00	3,297.48	3,471.69	3,457.82	11.52	12.55	174.37	-11.77	-1,327.68	1,413.88	1,390.29	23.59	59.945		
3,400.00	3,397.24	3,571.55	3,556.96	11.88	12.93	174.30	-14.21	-1,315.92	1,409.03	1,384.73	24.30	57.975		
3,500.00	3,497.00	3,671.42	3,656.10	12.24	13.32	174.23	-16.65	-1,304.16	1,404.18	1,379.16	25.02	56.116		
3,600.00	3,596.75	3,771.29	3,755.24	12.60	13.71	174.15	-19.10	-1,292.40	1,399.34	1,373.59	25.74	54.360		
3,700.00	3,696.51	3,871.15	3,854.38	12.96	14.10	174.08	-21.54	-1,280.64	1,394.49	1,368.03	26.46	52.697		
3,800.00	3,796.27	3,971.02	3,953.52	13.32	14.49	174.00	-23.98	-1,268.88	1,389.65	1,362.47	27.18	51.121		
3,900.00	3,896.02	4,070.88	4,052.66	13.68	14.88	173.93	-26.42	-1,257.12	1,384.81	1,356.91	27.91	49.626		
4,000.00	3,995.78	4,170.75	4,151.80	14.04	15.27	173.85	-28.86	-1,245.36	1,379.98	1,351.35	28.63	48.205		
4,100.00	4,095.54	4,270.62	4,250.95	14.40	15.66	173.78	-31.30	-1,233.60	1,375.14	1,345.79	29.35	46.853		
4,200.00	4,195.29	4,370.48	4,350.09	14.77	16.05	173.70	-33.74	-1,221.84	1,370.31	1,340.24	30.07	45.566		
4,300.00	4,295.05	4,470.35	4,449.23	15.13	16.44	173.62	-36.18	-1,210.08	1,365.48	1,334.69	30.80	44.338		
4,400.00	4,394.81	4,570.22	4,548.37	15.49	16.83	173.54	-38.62	-1,198.32	1,360.66	1,329.13	31.52	43.166		
4,500.00	4,494.56	4,670.08	4,647.51	15.86	17.23	173.46	-41.07	-1,186.56	1,355.83	1,323.59	32.25	42.046		
4,600.00	4,594.32	4,769.95	4,746.65	16.22	17.62	173.39	-43.51	-1,174.80	1,351.01	1,318.04	32.97	40.975		
4,700.00	4,694.08	4,869.81	4,845.79	16.59	18.01	173.31	-45.95	-1,163.04	1,346.19	1,312.50	33.70	39.950		
4,800.00	4,793.83	4,969.68	4,944.94	16.95	18.40	173.22	-48.39	-1,151.28	1,341.38	1,306.95	34.42	38.968		
4,900.00	4,893.59	5,069.55	5,044.08	17.32	18.79	173.14	-50.83	-1,139.52	1,336.56	1,301.41	35.15	38.025		
5,000.00	4,893.35	5,169.41	5,143.22	17.68	19.19	173.06	-53.27	-1,127.76	1,331.75	1,295.88	35.88	37.121		
5,100.00	5,093.10	5,269.28	5,242.36	18.05	19.58	172.98	-55.71	-1,116.00	1,326.95	1,290.34	36.60	36.253		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,369.15	5,341.50	18.42	19.97	172.90	-58.15	-1,104.24	1,322.14	1,284.81	37.33	35.418		
5,300.00	5,292.62	5,469.01	5,440.64	18.78	20.36	172.81	-60.59	-1,092.48	1,317.34	1,279.28	38.06	34.614		
5,400.00	5,392.37	5,568.88	5,539.78	19.15	20.76	172.73	-63.04	-1,080.72	1,312.54	1,273.75	38.79	33.841		
5,500.00	5,492.13	5,668.74	5,638.92	19.52	21.15	172.65	-65.48	-1,068.97	1,307.74	1,268.23	39.51	33.096		
5,600.00	5,591.89	5,768.61	5,738.07	19.88	21.54	172.56	-67.92	-1,057.21	1,302.95	1,262.71	40.24	32.378		
5,700.00	5,691.64	5,868.48	5,837.21	20.25	21.94	172.47	-70.36	-1,045.45	1,298.16	1,257.19	40.97	31.685		
5,800.00	5,791.40	5,968.34	5,936.35	20.62	22.33	172.39	-72.80	-1,033.69	1,293.37	1,251.67	41.70	31.016		
5,900.00	5,891.16	6,068.21	6,035.49	20.98	22.72	172.30	-75.24	-1,021.93	1,288.58	1,246.15	42.43	30.371		
6,000.00	5,990.91	6,168.07	6,134.63	21.35	23.12	172.21	-77.68	-1,010.17	1,283.80	1,240.64	43.16	29.746		
6,100.00	6,090.67	6,267.94	6,233.77	21.72	23.51	172.12	-80.12	-998.41	1,279.02	1,235.13	43.89	29.143		
6,200.00	6,190.42	6,367.81	6,332.91	22.09	23.90	172.04	-82.57	-986.65	1,274.25	1,229.63	44.62	28.559		
6,300.00	6,290.18	6,467.67	6,432.06	22.45	24.30	171.95	-85.01	-974.89	1,269.47	1,224.13	45.35	27.994		
6,400.00	6,389.94	6,567.54	6,531.20	22.82	24.69	171.85	-87.45	-963.13	1,264.70	1,218.63	46.08	27.447		
6,500.00	6,489.69	6,667.41	6,630.34	23.19	25.09	171.76	-89.89	-951.37	1,259.94	1,213.13	46.81	26.917		
6,600.00	6,589.45	6,767.27	6,729.48	23.56	25.48	171.67	-92.33	-939.61	1,255.17	1,207.63	47.54	26.403		
6,700.00	6,689.21	6,867.14	6,828.62	23.93	25.87	171.58	-94.77	-927.85	1,250.41	1,202.14	48.27	25.905		
6,800.00	6,788.96	6,967.00	6,927.76	24.29	26.27	171.49	-97.21	-916.09	1,245.66	1,196.66	49.00	25.421		
6,900.00	6,888.72	7,066.87	7,026.90	24.66	26.66	171.39	-99.65	-904.33	1,240.90	1,191.17	49.73	24.952		
7,000.00	6,988.48	7,166.74	7,126.04	25.03	27.06	171.30	-102.09	-892.57	1,236.15	1,185.69	50.46	24.496		
7,100.00	7,088.23	7,266.60	7,225.19	25.40	27.45	171.20	-104.54	-880.81	1,231.41	1,180.21	51.20	24.053		
7,200.00	7,187.99	7,366.47	7,324.33	25.77	27.84	171.11	-106.98	-869.05	1,226.66	1,174.74	51.93	23.623		
7,300.00	7,287.75	7,466.33	7,423.47	26.14	28.24	171.01	-109.42	-857.29	1,221.92	1,169.26	52.66	23.204		
7,400.00	7,387.50	7,566.20	7,522.61	26.50	28.63	170.91	-111.86	-845.53	1,217.19	1,163.80	53.39	22.797		
7,500.00	7,487.26	7,666.07	7,621.75	26.87	29.03	170.81	-114.30	-833.77	1,212.45	1,158.33	54.12	22.401		
7,600.00	7,587.02	7,765.93	7,720.89	27.24	29.42	170.71	-116.74	-822.01	1,207.73	1,152.87	54.86	22.016		
7,700.00	7,686.77	7,865.80	7,820.03	27.61	29.81	170.61	-119.18	-810.25	1,203.00	1,147.41	55.59	21.641		
7,800.00	7,786.53	7,965.67	7,919.18	27.98	30.21	170.51	-121.62	-798.49	1,198.28	1,141.96	56.32	21.275		
7,900.00	7,886.29	8,065.53	8,018.32	28.35	30.60	170.41	-124.06	-786.73	1,193.56	1,136.50	57.06	20.919		
8,000.00	7,986.04	8,165.40	8,117.46	28.72	31.00	170.31	-126.51	-774.97	1,188.85	1,131.06	57.79	20.572		
8,100.00	8,085.80	8,265.26	8,216.60	29.09	31.39	170.21	-128.95	-763.21	1,184.13	1,125.61	58.52	20.234		
8,200.00	8,185.56	8,365.13	8,315.74	29.46	31.79	170.10	-131.39	-751.45	1,179.43	1,120.17	59.26	19.904		
8,300.00	8,285.31	8,465.00	8,414.88	29.83	32.18	170.00	-133.83	-739.70	1,174.73	1,114.74	59.99	19.582		
8,400.00	8,385.07	8,564.86	8,514.02	30.20	32.58	169.89	-136.27	-727.94	1,170.03	1,109.30	60.72	19.268		
8,500.00	8,484.83	8,664.73	8,613.17	30.56	32.97	169.78	-138.71	-716.18	1,165.33	1,103.87	61.46	18.961		
8,600.00	8,584.58	8,764.60	8,712.31	30.93	33.37	169.68	-141.15	-704.42	1,160.64	1,098.45	62.19	18.662		
8,700.00	8,684.34	8,864.46	8,811.45	31.30	33.76	169.57	-143.59	-692.66	1,155.95	1,093.03	62.93	18.370		
8,800.00	8,784.10	8,964.33	8,910.59	31.67	34.16	169.46	-146.03	-680.90	1,151.27	1,087.61	63.66	18.084		
8,900.00	8,883.85	9,064.19	9,009.73	32.04	34.55	169.35	-148.48	-669.14	1,146.59	1,082.20	64.40	17.805		
9,000.00	8,983.61	9,164.06	9,108.87	32.41	34.94	169.24	-150.92	-657.38	1,141.92	1,076.79	65.13	17.532		
9,100.00	9,083.37	9,263.93	9,208.01	32.78	35.34	169.13	-153.36	-645.62	1,137.25	1,071.38	65.87	17.266		
9,200.00	9,183.12	9,363.80	9,287.46	33.15	35.73	169.02	-155.80	-633.86	1,132.57	1,065.96	66.60	17.009		
9,300.00	9,282.88	9,463.67	9,365.04	33.52	36.12	168.91	-158.24	-622.10	1,127.89	1,060.54	67.33	16.752		
9,400.00	9,382.64	9,563.54	9,443.05	33.89	36.51	168.80	-160.68	-610.34	1,123.21	1,055.12	68.06	16.495		
9,500.00	9,482.40	9,663.41	9,521.61	34.26	36.90	168.69	-163.12	-598.58	1,118.53	1,049.70	68.79	16.238		
9,600.00	9,582.16	9,763.28	9,620.01	34.63	37.29	168.58	-165.56	-586.82	1,113.85	1,044.28	69.52	15.981		
9,700.00	9,681.92	9,863.15	9,717.76	35.00	37.68	168.47	-168.00	-575.06	1,109.17	1,038.86	70.25	15.724		
9,800.00	9,781.68	9,963.02	9,817.52	35.37	38.07	168.36	-170.44	-563.30	1,104.49	1,033.44	70.98	15.467		
9,900.00	9,881.44	10,062.89	9,917.28	35.74	38.46	168.25	-172.88	-551.54	1,099.81	1,028.02	71.71	15.210		
10,000.00	9,981.20	10,162.76	9,972.04	36.11	38.85	168.14	-175.32	-539.78	1,095.13	1,022.60	72.44	14.953		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,078.04	10,020.94	36.14	38.14	-95.58	-159.23	-617.33	1,133.70	1,061.76	71.94	15.759		
10,050.00	10,032.35	10,083.35	10,026.25	36.16	38.16	-95.16	-159.23	-617.33	1,133.71	1,061.73	71.98	15.751		
10,100.00	10,082.26	10,144.05	10,086.84	36.32	38.35	-95.16	-156.10	-617.36	1,133.71	1,061.34	72.38	15.664		
10,150.00	10,131.76	10,204.85	10,146.87	36.49	38.54	-95.12	-146.56	-617.42	1,133.63	1,060.87	72.76	15.581		
10,200.00	10,180.46	10,265.46	10,205.35	36.65	38.71	-95.02	-130.78	-617.54	1,133.47	1,060.35	73.12	15.502		
10,250.00	10,227.98	10,325.73	10,261.53	36.81	38.87	-94.88	-109.05	-617.69	1,133.23	1,059.77	73.46	15.427		
10,300.00	10,273.98	10,385.53	10,314.72	36.95	39.01	-94.70	-81.77	-617.89	1,132.93	1,059.15	73.78	15.356		
10,350.00	10,318.11	10,444.75	10,364.31	37.09	39.13	-94.47	-49.45	-618.12	1,132.57	1,058.48	74.08	15.288		
10,400.00	10,360.01	10,503.30	10,409.80	37.21	39.23	-94.20	-12.63	-618.38	1,132.16	1,057.79	74.37	15.223		
10,450.00	10,399.38	10,561.10	10,450.79	37.32	39.32	-93.90	28.09	-618.67	1,131.74	1,057.08	74.65	15.160		
10,500.00	10,435.92	10,618.08	10,486.99	37.42	39.38	-93.57	72.07	-618.98	1,131.30	1,056.38	74.92	15.100		
10,550.00	10,469.35	10,674.21	10,518.20	37.51	39.43	-93.21	118.68	-619.32	1,130.86	1,055.68	75.19	15.041		
10,600.00	10,499.41	10,729.44	10,544.32	37.59	39.46	-92.82	167.33	-619.66	1,130.45	1,055.00	75.45	14.984		
10,650.00	10,525.87	10,783.78	10,565.32	37.66	39.49	-92.42	217.42	-620.02	1,130.07	1,054.37	75.70	14.928		
10,700.00	10,548.54	10,837.21	10,581.26	37.74	39.51	-92.00	268.40	-620.38	1,129.73	1,053.78	75.95	14.875		
10,750.00	10,567.24	10,889.76	10,592.24	37.84	39.52	-91.57	319.76	-620.75	1,129.45	1,053.26	76.20	14.823		
10,800.00	10,581.83	10,941.43	10,598.41	37.97	39.54	-91.13	371.04	-621.12	1,129.23	1,052.80	76.43	14.774		
10,850.00	10,592.19	10,992.06	10,600.00	38.11	39.58	-90.69	421.63	-621.48	1,129.08	1,052.41	76.66	14.728		
10,900.00	10,598.26	11,041.67	10,600.00	38.25	39.63	-90.40	471.25	-621.83	1,129.01	1,052.10	76.91	14.680		
10,944.69	10,600.00	11,086.32	10,600.00	38.39	39.69	-90.31	515.89	-622.15	1,128.99	1,051.84	77.14	14.635		
11,000.00	10,600.00	11,141.63	10,600.00	38.56	39.80	-90.31	571.20	-622.54	1,128.97	1,051.50	77.47	14.572		
11,100.00	10,600.00	11,241.63	10,600.00	38.91	40.07	-90.31	671.20	-623.26	1,128.95	1,050.81	78.15	14.447		
11,200.00	10,600.00	11,341.63	10,600.00	39.31	40.42	-90.31	771.19	-623.97	1,128.93	1,050.01	78.92	14.305		
11,300.00	10,600.00	11,441.63	10,600.00	39.76	40.84	-90.31	871.19	-624.68	1,128.91	1,049.12	79.79	14.148		
11,400.00	10,600.00	11,541.63	10,600.00	40.25	41.32	-90.31	971.19	-625.40	1,128.89	1,048.13	80.76	13.978		
11,500.00	10,600.00	11,641.63	10,600.00	40.79	41.84	-90.31	1,071.19	-626.11	1,128.87	1,047.05	81.82	13.797		
11,600.00	10,600.00	11,741.63	10,600.00	41.37	42.42	-90.31	1,171.18	-626.82	1,128.85	1,045.88	82.97	13.605		
11,700.00	10,600.00	11,841.63	10,600.00	41.99	43.03	-90.31	1,271.18	-627.54	1,128.83	1,044.62	84.21	13.406		
11,800.00	10,600.00	11,941.63	10,600.00	42.65	43.69	-90.31	1,371.18	-628.25	1,128.81	1,043.28	85.52	13.199		
11,900.00	10,600.00	12,041.63	10,600.00	43.35	44.38	-90.31	1,471.18	-628.96	1,128.78	1,041.87	86.91	12.987		
12,000.00	10,600.00	12,141.63	10,600.00	44.09	45.11	-90.31	1,571.17	-629.68	1,128.76	1,040.38	88.38	12.771		
12,100.00	10,600.00	12,241.63	10,600.00	44.86	45.87	-90.31	1,671.17	-630.39	1,128.74	1,038.82	89.92	12.553		
12,200.00	10,600.00	12,341.63	10,600.00	45.67	46.67	-90.31	1,771.17	-631.10	1,128.72	1,037.20	91.52	12.332		
12,300.00	10,600.00	12,441.63	10,600.00	46.50	47.49	-90.31	1,871.16	-631.82	1,128.70	1,035.51	93.19	12.111		
12,400.00	10,600.00	12,541.63	10,600.00	47.37	48.35	-90.31	1,971.16	-632.53	1,128.68	1,033.76	94.92	11.891		
12,500.00	10,600.00	12,641.63	10,600.00	48.26	49.23	-90.31	2,071.16	-633.24	1,128.66	1,031.95	96.71	11.671		
12,600.00	10,600.00	12,741.63	10,600.00	49.18	50.14	-90.31	2,171.16	-633.96	1,128.64	1,030.09	98.55	11.453		
12,700.00	10,600.00	12,841.63	10,600.00	50.13	51.08	-90.31	2,271.15	-634.67	1,128.61	1,028.18	100.43	11.237		
12,800.00	10,600.00	12,941.63	10,600.00	51.10	52.04	-90.31	2,371.15	-635.38	1,128.59	1,026.22	102.37	11.024		
12,900.00	10,600.00	13,041.63	10,600.00	52.09	53.02	-90.31	2,471.15	-636.10	1,128.57	1,024.22	104.36	10.815		
13,000.00	10,600.00	13,141.63	10,600.00	53.10	54.02	-90.31	2,571.15	-636.81	1,128.55	1,022.17	106.38	10.609		
13,100.00	10,600.00	13,241.63	10,600.00	54.14	55.04	-90.31	2,671.14	-637.52	1,128.53	1,020.08	108.45	10.406		
13,200.00	10,600.00	13,341.63	10,600.00	55.19	56.09	-90.31	2,771.14	-638.24	1,128.51	1,017.96	110.55	10.208		
13,300.00	10,600.00	13,441.63	10,600.00	56.26	57.15	-90.31	2,871.14	-638.95	1,128.49	1,015.80	112.69	10.014		
13,400.00	10,600.00	13,541.63	10,600.00	57.35	58.22	-90.31	2,971.14	-639.66	1,128.47	1,013.60	114.87	9.824		
13,500.00	10,600.00	13,641.63	10,600.00	58.45	59.31	-90.31	3,071.13	-640.37	1,128.45	1,011.37	117.07	9.639		
13,600.00	10,600.00	13,741.63	10,600.00	59.57	60.42	-90.31	3,171.13	-641.09	1,128.42	1,009.12	119.31	9.458		
13,700.00	10,600.00	13,841.63	10,600.00	60.71	61.54	-90.31	3,271.13	-641.80	1,128.40	1,006.83	121.57	9.282		
13,800.00	10,600.00	13,941.63	10,600.00	61.85	62.68	-90.31	3,371.13	-642.51	1,128.38	1,004.52	123.87	9.110		
13,900.00	10,600.00	14,041.63	10,600.00	63.01	63.83	-90.31	3,471.12	-643.23	1,128.36	1,002.18	126.18	8.942		
14,000.00	10,600.00	14,141.63	10,600.00	64.18	64.99	-90.31	3,571.12	-643.94	1,128.34	999.81	128.53	8.779		
14,100.00	10,600.00	14,241.63	10,600.00	65.37	66.16	-90.31	3,671.12	-644.65	1,128.32	997.43	130.89	8.620		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	14,341.63	10,600.00	66.56	67.34	-90.31	3,771.12	-645.37	1,128.30	995.02	133.28	8.466	
14,300.00	10,600.00	14,441.63	10,600.00	67.76	68.54	-90.31	3,871.11	-646.08	1,128.28	992.59	135.68	8.315	
14,400.00	10,600.00	14,541.63	10,600.00	68.98	69.74	-90.31	3,971.11	-646.79	1,128.26	990.14	138.11	8.169	
14,500.00	10,600.00	14,641.63	10,600.00	70.20	70.96	-90.31	4,071.11	-647.51	1,128.23	987.68	140.56	8.027	
14,600.00	10,600.00	14,741.63	10,600.00	71.43	72.18	-90.31	4,171.11	-648.22	1,128.21	985.19	143.02	7.889	
14,700.00	10,600.00	14,841.63	10,600.00	72.67	73.41	-90.31	4,271.10	-648.93	1,128.19	982.69	145.50	7.754	
14,800.00	10,600.00	14,941.63	10,600.00	73.92	74.65	-90.31	4,371.10	-649.65	1,128.17	980.18	147.99	7.623	
14,900.00	10,600.00	15,041.63	10,600.00	75.17	75.89	-90.31	4,471.10	-650.36	1,128.15	977.65	150.50	7.496	
15,000.00	10,600.00	15,141.63	10,600.00	76.44	77.15	-90.31	4,571.10	-651.07	1,128.13	975.10	153.03	7.372	
15,100.00	10,600.00	15,241.63	10,600.00	77.70	78.41	-90.31	4,671.09	-651.79	1,128.11	972.54	155.57	7.252	
15,200.00	10,600.00	15,341.63	10,600.00	78.98	79.67	-90.31	4,771.09	-652.50	1,128.09	969.97	158.12	7.135	
15,300.00	10,600.00	15,441.63	10,600.00	80.26	80.95	-90.31	4,871.09	-653.21	1,128.06	967.39	160.68	7.021	
15,400.00	10,600.00	15,541.63	10,600.00	81.55	82.23	-90.31	4,971.09	-653.93	1,128.04	964.79	163.25	6.910	
15,484.47	10,600.00	15,626.10	10,600.00	82.64	83.31	-90.31	5,055.55	-654.53	1,128.03	962.59	165.44	6.818	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
0.00	0.00	1.00	1.00	0.50	0.00	-90.33	-4.82	-831.57	831.59							
100.00	100.00	100.82	100.82	0.52	0.14	-90.32	-4.59	-831.58	831.60	830.93	0.66	1,257.292				
200.00	200.00	204.20	204.19	0.70	0.47	-90.26	-3.82	-831.44	831.45	830.28	1.17	710.440				
300.00	300.00	303.60	303.59	0.99	0.82	-90.18	-2.55	-831.02	831.02	829.21	1.81	458.670				
400.00	400.00	401.25	401.23	1.31	1.17	-90.07	-0.95	-830.89	830.89	828.41	2.48	334.516				
500.00	500.00	501.52	501.48	1.65	1.53	-89.94	0.80	-830.86	830.87	827.68	3.18	261.211				
600.00	600.00	603.53	603.48	1.99	1.90	-89.88	1.78	-830.61	830.62	826.73	3.89	213.491				
637.21	637.21	638.25	638.21	2.12	2.02	-89.86	1.97	-830.55	830.55	826.41	4.14	200.508	CC			
700.00	700.00	696.23	696.18	2.34	2.22	-89.86	2.06	-830.73	830.74	826.18	4.56	182.097	ES			
800.00	800.00	791.54	791.49	2.69	2.55	-89.88	1.78	-831.63	831.68	826.45	5.24	158.791				
900.00	900.00	890.37	890.30	3.04	2.89	-89.91	1.36	-832.78	832.85	826.93	5.93	140.490				
1,000.00	1,000.00	989.39	989.32	3.40	3.23	-89.93	0.98	-834.18	834.27	827.64	6.62	125.931				
1,100.00	1,100.00	1,089.35	1,089.27	3.75	3.58	-89.96	0.56	-835.54	835.62	828.30	7.33	114.032				
1,200.00	1,200.00	1,194.66	1,194.57	4.11	3.95	-89.98	0.24	-836.84	836.86	828.81	8.05	103.903				
1,300.00	1,300.00	1,296.65	1,296.56	4.46	4.31	-89.97	0.39	-837.39	837.40	828.63	8.77	95.463				
1,400.00	1,400.00	1,397.16	1,397.07	4.82	4.66	-89.98	0.27	-837.90	837.91	828.43	9.48	88.365				
1,500.00	1,500.00	1,496.85	1,496.75	5.18	5.02	-89.99	0.10	-838.36	838.37	828.18	10.19	82.274				
1,600.00	1,600.00	1,591.02	1,590.92	5.53	5.35	-89.95	0.76	-839.05	839.11	828.23	10.88	77.118				
1,700.00	1,700.00	1,686.54	1,686.42	5.89	5.69	-89.84	2.32	-840.57	840.70	829.12	11.58	72.610				
1,800.00	1,800.00	1,786.27	1,786.12	6.25	6.05	-89.74	3.76	-842.32	842.46	830.17	12.29	68.539				
1,900.00	1,900.00	1,889.03	1,888.86	6.61	6.42	-89.68	4.74	-844.02	844.12	831.10	13.02	64.849				
2,000.00	2,000.00	1,989.63	1,989.45	6.96	6.78	-89.66	5.06	-845.38	845.47	831.74	13.73	61.565				
2,100.00	2,099.99	2,088.40	2,088.21	7.31	7.13	174.87	5.02	-846.79	847.77	833.34	14.43	58.743				
2,200.00	2,199.96	2,185.45	2,185.25	7.65	7.47	174.88	5.10	-848.40	852.04	836.92	15.12	56.365				
2,300.00	2,299.86	2,285.13	2,284.91	7.99	7.83	174.93	5.53	-850.26	858.25	842.44	15.81	54.274				
2,399.87	2,399.54	2,385.68	2,385.44	8.34	8.19	174.98	5.82	-852.07	866.12	849.61	16.51	52.447				
2,500.00	2,499.43	2,487.41	2,487.16	8.69	8.56	175.02	5.87	-853.73	874.70	857.48	17.22	50.793				
2,600.00	2,599.19	2,584.82	2,584.55	9.03	8.90	175.07	5.98	-855.36	883.32	865.40	17.91	49.314				
2,700.00	2,698.94	2,683.46	2,683.18	9.39	9.26	175.13	6.33	-857.16	892.08	873.47	18.61	47.937				
2,800.00	2,798.70	2,782.73	2,782.43	9.74	9.61	175.20	6.98	-859.06	900.95	881.64	19.31	46.654				
2,900.00	2,898.46	2,883.88	2,883.55	10.09	9.98	175.30	7.97	-860.89	909.72	889.70	20.02	45.438				
3,000.00	2,998.21	2,984.56	2,984.22	10.45	10.34	175.40	8.99	-862.58	918.35	897.62	20.73	44.301				
3,100.00	3,097.97	3,085.27	3,084.91	10.80	10.70	175.51	10.24	-864.14	926.87	905.43	21.44	43.232				
3,200.00	3,197.73	3,186.95	3,186.57	11.16	11.06	175.64	11.88	-865.56	935.24	913.09	22.15	42.217				
3,300.00	3,297.48	3,289.64	3,289.22	11.52	11.43	175.80	13.95	-866.69	943.34	920.47	22.87	41.248				
3,400.00	3,397.24	3,388.86	3,388.42	11.88	11.78	175.97	16.18	-867.62	951.29	927.71	23.57	40.354				
3,500.00	3,497.00	3,489.52	3,489.04	12.24	12.14	176.14	18.55	-868.55	959.23	934.94	24.28	39.502				
3,600.00	3,596.75	3,586.62	3,586.11	12.60	12.49	176.31	21.02	-869.56	967.29	942.31	24.98	38.723				
3,700.00	3,696.51	3,693.98	3,693.43	12.96	12.87	176.52	24.10	-870.25	974.98	949.27	25.72	37.914				
3,800.00	3,796.27	3,794.83	3,794.23	13.32	13.22	176.69	26.71	-870.55	982.34	955.91	26.43	37.173				
3,900.00	3,896.02	3,899.23	3,898.61	13.68	13.59	176.86	29.19	-870.57	989.41	962.26	27.15	36.443				
4,000.00	3,995.78	4,005.85	4,005.18	14.04	13.96	177.05	32.00	-869.92	995.88	968.00	27.88	35.724				
4,100.00	4,095.54	4,111.62	4,110.94	14.40	14.32	177.17	33.63	-868.61	1,001.68	973.08	28.60	35.028				
4,200.00	4,195.29	4,215.93	4,215.21	14.77	14.68	177.31	35.69	-866.77	1,006.98	977.67	29.31	34.356				
4,300.00	4,295.05	4,303.08	4,302.31	15.13	14.99	177.47	38.24	-865.33	1,012.48	982.51	29.97	33.782				
4,400.00	4,394.81	4,401.45	4,400.62	15.49	15.33	177.68	41.67	-864.98	1,019.27	988.60	30.67	33.230				
4,500.00	4,494.56	4,566.78	4,565.75	15.86	15.89	177.86	43.93	-858.66	1,022.46	990.90	31.56	32.401				
4,600.00	4,594.32	4,674.20	4,672.88	16.22	16.25	177.83	42.80	-850.90	1,022.15	989.89	32.26	31.685				
4,700.00	4,694.08	4,796.19	4,794.43	16.59	16.66	177.79	41.15	-840.73	1,020.77	987.79	32.98	30.950				
4,800.00	4,793.83	4,913.49	4,911.03	16.95	17.05	177.66	37.69	-828.42	1,017.07	983.38	33.69	30.193				
4,900.00	4,893.59	5,004.30	5,001.27	17.32	17.36	177.53	34.59	-818.71	1,013.14	978.77	34.37	29.479				
5,000.00	4,993.35	5,082.26	5,078.86	17.68	17.62	177.42	32.15	-811.49	1,010.68	975.65	35.03	28.848				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,100.00	5,093.10	5,177.72	5,173.99	18.05	17.95	177.32	29.70	-804.01	1,009.68	973.96	35.72	28.264		
5,163.75	5,156.70	5,231.90	5,228.00	18.28	18.11	177.27	28.36	-799.86	1,009.20	973.08	36.12	27.940		
5,200.00	5,192.86	5,255.06	5,251.10	18.42	18.15	177.25	27.91	-798.42	1,009.44	973.13	36.31	27.803		
5,300.00	5,292.62	5,346.85	5,342.76	18.78	18.17	177.18	26.15	-793.79	1,011.27	974.58	36.69	27.564		
5,400.00	5,392.37	5,443.42	5,439.19	19.15	18.18	177.06	23.56	-789.42	1,013.59	976.53	37.06	27.351		
5,500.00	5,492.13	5,536.57	5,532.20	19.52	18.20	176.89	19.94	-785.59	1,016.28	978.84	37.44	27.147		
5,600.00	5,591.89	5,625.90	5,621.37	19.88	18.23	176.66	15.47	-782.78	1,019.91	982.09	37.82	26.968		
5,700.00	5,691.64	5,715.10	5,710.38	20.25	18.25	176.38	10.03	-780.97	1,024.63	986.42	38.21	26.819		
5,800.00	5,791.40	5,804.23	5,799.29	20.62	18.29	176.06	3.84	-780.07	1,030.38	991.78	38.59	26.699		
5,900.00	5,891.16	5,894.64	5,889.48	20.98	18.32	175.74	-2.41	-780.10	1,037.18	998.20	38.98	26.605		
6,000.00	5,990.91	5,986.95	5,981.59	21.35	18.37	175.43	-8.56	-780.76	1,044.73	1,005.35	39.38	26.528		
6,100.00	6,090.67	6,076.89	6,071.35	21.72	18.42	175.16	-13.90	-782.12	1,053.11	1,013.33	39.78	26.473		
6,200.00	6,190.42	6,167.07	6,161.40	22.09	18.47	174.94	-18.40	-784.36	1,062.49	1,022.30	40.18	26.442		
6,300.00	6,290.18	6,260.64	6,254.86	22.45	18.53	174.78	-21.94	-787.25	1,072.49	1,031.90	40.59	26.421		
6,400.00	6,389.94	6,351.06	6,345.18	22.82	18.59	174.70	-24.09	-790.69	1,083.22	1,042.22	41.00	26.420		
6,500.00	6,489.69	6,439.62	6,433.64	23.19	18.66	174.68	-25.08	-794.84	1,094.83	1,053.43	41.40	26.443		
6,600.00	6,589.45	6,523.55	6,517.42	23.56	18.72	174.67	-25.75	-799.79	1,107.64	1,065.85	41.79	26.504		
6,700.00	6,689.21	6,603.65	6,597.29	23.93	18.79	174.66	-26.44	-805.75	1,121.98	1,079.82	42.16	26.610		
6,800.00	6,788.96	6,681.52	6,674.83	24.29	18.86	174.65	-27.15	-812.90	1,138.07	1,095.54	42.52	26.764		
6,900.00	6,888.72	6,772.65	6,765.44	24.66	18.94	174.63	-28.10	-822.62	1,155.59	1,112.65	42.94	26.911		
7,000.00	6,988.48	6,874.80	6,866.99	25.03	19.05	174.60	-29.33	-833.50	1,173.11	1,129.69	43.42	27.020		
7,100.00	7,088.23	6,982.37	6,974.01	25.40	19.17	174.56	-30.78	-844.35	1,190.09	1,146.16	43.92	27.094		
7,200.00	7,187.99	7,088.35	7,079.52	25.77	19.29	174.53	-32.15	-854.28	1,206.34	1,161.91	44.43	27.151		
7,300.00	7,287.75	7,173.34	7,164.09	26.14	19.40	174.50	-33.33	-862.50	1,222.89	1,178.05	44.85	27.268		
7,400.00	7,387.50	7,254.04	7,244.30	26.50	19.51	174.47	-34.52	-871.29	1,240.66	1,195.42	45.24	27.422		
7,500.00	7,487.26	7,350.15	7,339.72	26.87	19.65	174.43	-36.07	-882.69	1,259.39	1,213.67	45.72	27.545		
7,600.00	7,587.02	7,451.48	7,440.35	27.24	19.80	174.38	-37.71	-894.52	1,277.93	1,231.70	46.23	27.642		
7,700.00	7,686.77	7,553.72	7,541.90	27.61	19.96	174.34	-39.43	-906.18	1,296.21	1,249.45	46.75	27.725		
7,800.00	7,786.53	7,660.32	7,647.86	27.98	20.14	174.30	-41.09	-917.85	1,314.03	1,266.73	47.30	27.780		
7,900.00	7,886.29	7,764.36	7,751.32	28.35	20.32	174.25	-42.89	-928.55	1,331.19	1,283.35	47.84	27.825		
8,000.00	7,986.04	7,851.72	7,838.17	28.72	20.48	174.21	-44.50	-937.88	1,348.75	1,300.45	48.30	27.922		
8,100.00	8,085.80	7,956.61	7,942.42	29.09	20.67	174.15	-46.72	-949.26	1,366.48	1,317.62	48.86	27.967		
8,200.00	8,185.56	8,060.14	8,045.39	29.46	20.87	174.09	-48.99	-959.75	1,383.50	1,334.08	49.42	27.997		
8,300.00	8,285.31	8,152.18	8,136.87	29.83	21.05	174.02	-51.28	-969.54	1,401.02	1,351.10	49.92	28.066		
8,400.00	8,385.07	8,257.02	8,241.14	30.20	21.27	173.94	-54.07	-980.20	1,418.07	1,367.58	50.49	28.086		
8,500.00	8,484.83	8,352.27	8,335.83	30.56	21.47	173.87	-56.64	-990.19	1,435.45	1,384.43	51.02	28.136		
8,600.00	8,584.58	8,450.59	8,433.59	30.93	21.68	173.79	-59.51	-1,000.24	1,452.58	1,401.01	51.57	28.169		
8,700.00	8,684.34	8,549.28	8,531.66	31.30	21.90	173.70	-62.81	-1,010.76	1,470.15	1,418.03	52.12	28.206		
8,800.00	8,784.10	8,659.49	8,641.26	31.67	22.15	173.58	-66.67	-1,021.70	1,487.00	1,434.26	52.74	28.194		
8,900.00	8,883.85	8,762.13	8,743.37	32.04	22.39	173.47	-70.46	-1,031.40	1,503.38	1,450.06	53.33	28.193		
9,000.00	8,983.61	8,880.66	8,861.35	32.41	22.66	173.35	-74.95	-1,041.82	1,519.15	1,465.16	53.99	28.138		
9,100.00	9,083.37	9,006.35	8,986.63	32.78	22.96	173.21	-79.71	-1,050.83	1,533.29	1,478.60	54.68	28.039		
9,200.00	9,183.12	9,123.07	9,103.09	33.15	23.23	173.09	-84.06	-1,057.35	1,545.84	1,490.50	55.34	27.935		
9,300.00	9,282.88	9,227.59	9,207.42	33.52	23.48	173.00	-87.61	-1,062.53	1,557.78	1,501.84	55.94	27.847		
9,400.00	9,382.64	9,341.18	9,320.84	33.89	23.74	172.92	-90.88	-1,067.60	1,569.24	1,512.66	56.58	27.734		
9,428.07	9,410.64	9,372.75	9,352.38	33.99	23.82	172.90	-91.72	-1,068.80	1,572.26	1,515.50	56.76	27.700		
9,500.00	9,482.43	9,452.46	9,432.01	34.26	24.01	172.86	-93.76	-1,071.56	1,579.11	1,521.89	57.21	27.600		
9,600.00	9,582.36	9,578.28	9,557.76	34.62	24.30	172.78	-96.90	-1,074.52	1,585.29	1,527.39	57.90	27.382		
9,694.65	9,677.00	9,696.81	9,676.24	34.95	24.58	-91.85	-100.21	-1,075.44	1,587.27	1,528.74	58.52	27.122		
9,700.00	9,682.35	9,703.51	9,682.94	34.97	24.59	-91.86	-100.39	-1,075.44	1,587.27	1,528.71	58.56	27.106		
9,800.00	9,782.35	9,814.94	9,794.33	35.31	24.84	-91.96	-103.32	-1,074.88	1,586.85	1,527.68	59.17	26.820		
9,900.00	9,882.35	9,942.78	9,922.09	35.65	25.13	-92.10	-107.07	-1,072.63	1,585.16	1,525.35	59.81	26.502		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,000.00	9,982.35	10,043.93	10,023.15	35.99	25.36	-92.23	-110.47	-1,069.92	1,582.62	1,522.22	60.39	26.205		
10,044.69	10,027.04	10,086.16	10,065.34	36.14	25.45	-92.28	-111.77	-1,068.84	1,581.53	1,520.88	60.65	26.078		
10,050.00	10,032.35	10,091.17	10,070.35	36.16	25.46	-91.87	-111.91	-1,068.72	1,581.40	1,520.73	60.68	26.063		
10,100.00	10,082.26	10,138.39	10,117.53	36.32	25.57	-92.12	-113.22	-1,067.60	1,580.37	1,519.41	60.96	25.926		
10,150.00	10,131.76	10,185.16	10,164.28	36.49	25.68	-92.48	-114.48	-1,066.57	1,579.60	1,518.36	61.24	25.795		
10,200.00	10,180.46	10,231.04	10,210.13	36.65	25.78	-92.94	-115.67	-1,065.63	1,579.17	1,517.66	61.51	25.673		
10,224.90	10,204.29	10,253.46	10,232.54	36.73	25.84	-93.20	-116.23	-1,065.20	1,579.11	1,517.47	61.65	25.616		
10,250.00	10,227.98	10,275.73	10,254.80	36.81	25.89	-93.48	-116.76	-1,064.79	1,579.18	1,517.40	61.78	25.561		
10,300.00	10,273.98	10,322.13	10,301.19	36.95	26.00	-94.12	-117.83	-1,063.97	1,579.71	1,517.66	62.05	25.459		
10,350.00	10,318.11	10,369.18	10,348.21	37.09	26.11	-94.85	-118.99	-1,063.04	1,580.81	1,518.49	62.32	25.367		
10,400.00	10,360.01	10,413.74	10,392.74	37.21	26.21	-95.58	-120.16	-1,062.06	1,582.62	1,520.05	62.57	25.292		
10,450.00	10,399.38	10,455.48	10,434.45	37.32	26.31	-96.27	-121.31	-1,061.05	1,585.35	1,522.53	62.82	25.237		
10,500.00	10,435.92	10,493.97	10,472.91	37.42	26.40	-96.87	-122.41	-1,060.03	1,589.18	1,526.13	63.05	25.204		
10,550.00	10,469.35	10,528.72	10,507.64	37.51	26.48	-97.31	-123.45	-1,059.04	1,594.31	1,531.03	63.27	25.197		
10,600.00	10,499.41	10,559.67	10,538.55	37.59	26.56	-97.56	-124.43	-1,058.11	1,600.90	1,537.42	63.48	25.220		
10,650.00	10,525.87	10,586.54	10,565.40	37.66	26.62	-97.57	-125.31	-1,057.26	1,609.10	1,545.43	63.67	25.274		
10,700.00	10,548.54	10,608.63	10,587.47	37.74	26.67	-97.29	-126.05	-1,056.54	1,619.01	1,555.17	63.84	25.361		
10,750.00	10,567.24	10,626.56	10,605.38	37.84	26.72	-96.71	-126.66	-1,055.94	1,630.69	1,566.70	63.99	25.483		
10,800.00	10,581.83	10,640.09	10,618.89	37.97	26.75	-95.79	-127.13	-1,055.47	1,644.15	1,580.03	64.13	25.640		
10,850.00	10,592.19	10,649.13	10,627.92	38.11	26.77	-94.53	-127.44	-1,055.16	1,659.36	1,595.12	64.24	25.831		
10,900.00	10,598.26	10,653.63	10,632.41	38.25	26.78	-92.90	-127.60	-1,055.01	1,676.20	1,611.87	64.33	26.055		
10,944.69	10,600.00	10,653.80	10,632.58	38.39	26.78	-91.15	-127.61	-1,055.00	1,692.54	1,628.15	64.40	26.283		
11,000.00	10,600.00	10,651.76	10,630.54	38.56	26.78	-91.08	-127.53	-1,055.07	1,714.22	1,649.75	64.47	26.589		
11,100.00	10,600.00	10,648.09	10,626.88	38.91	26.77	-90.95	-127.41	-1,055.20	1,757.16	1,692.55	64.61	27.196		
11,200.00	10,600.00	10,644.44	10,623.24	39.31	26.76	-90.81	-127.28	-1,055.32	1,804.61	1,739.85	64.76	27.866		
11,300.00	10,600.00	10,640.82	10,619.62	39.76	26.75	-90.68	-127.15	-1,055.45	1,856.24	1,791.33	64.91	28.595		
11,400.00	10,600.00	10,637.22	10,616.02	40.25	26.74	-90.55	-127.03	-1,055.57	1,911.70	1,846.63	65.07	29.378		
11,500.00	10,600.00	12,289.86	11,290.40	40.79	35.56	-110.84	1,062.31	-1,308.55	1,938.10	1,865.15	72.96	26.565		
11,600.00	10,600.00	12,392.41	11,290.50	41.37	36.78	-110.84	1,164.85	-1,309.30	1,938.13	1,863.46	74.67	25.956		
11,700.00	10,600.00	12,496.14	11,290.24	41.99	38.07	-110.83	1,268.57	-1,310.14	1,938.11	1,861.62	76.50	25.336		
11,800.00	10,600.00	12,602.50	11,289.08	42.65	39.47	-110.80	1,374.93	-1,311.02	1,937.81	1,859.36	78.45	24.701		
11,861.28	10,600.00	12,654.78	11,288.84	43.08	40.18	-110.79	1,427.21	-1,311.39	1,937.69	1,858.14	79.55	24.357		
11,900.00	10,600.00	12,688.66	11,288.79	43.35	40.64	-110.79	1,461.08	-1,311.70	1,937.74	1,857.48	80.26	24.143		
12,000.00	10,600.00	12,784.24	11,288.73	44.09	41.97	-110.78	1,556.65	-1,312.80	1,938.11	1,855.86	82.25	23.565		
12,100.00	10,600.00	12,868.40	11,288.58	44.86	43.19	-110.77	1,640.81	-1,314.28	1,939.00	1,854.83	84.17	23.037		
12,200.00	10,600.00	12,952.94	11,288.27	45.67	44.44	-110.75	1,725.31	-1,316.55	1,940.69	1,854.53	86.16	22.525		
12,300.00	10,600.00	13,039.99	11,287.83	46.50	45.76	-110.71	1,812.31	-1,319.62	1,943.13	1,854.89	88.24	22.022		
12,400.00	10,600.00	13,154.42	11,287.44	47.37	47.53	-110.66	1,926.66	-1,323.75	1,945.73	1,854.99	90.73	21.444		
12,500.00	10,600.00	13,230.17	11,287.87	48.26	48.72	-110.65	2,002.37	-1,326.20	1,948.28	1,855.53	92.75	21.006		
12,600.00	10,600.00	13,323.24	11,290.16	49.18	50.21	-110.69	2,095.35	-1,329.65	1,951.92	1,856.89	95.03	20.540		
12,700.00	10,600.00	13,405.02	11,291.66	50.13	51.53	-110.70	2,177.04	-1,333.07	1,955.83	1,858.63	97.20	20.122		
12,800.00	10,600.00	13,482.93	11,292.61	51.10	52.82	-110.69	2,254.81	-1,337.60	1,961.00	1,861.65	99.35	19.738		
12,900.00	10,600.00	13,589.48	11,293.72	52.09	54.60	-110.65	2,361.12	-1,344.63	1,966.87	1,864.88	101.99	19.285		
13,000.00	10,600.00	13,709.56	11,292.38	53.10	56.63	-110.55	2,480.98	-1,351.91	1,971.43	1,866.53	104.91	18.792		
13,100.00	10,600.00	13,811.99	11,291.47	54.14	58.38	-110.47	2,583.24	-1,357.61	1,975.65	1,868.07	107.58	18.365		
13,200.00	10,600.00	13,971.66	11,289.49	55.19	61.11	-110.38	2,742.79	-1,363.25	1,977.56	1,866.41	111.15	17.791		
13,300.00	10,600.00	14,066.51	11,287.66	56.26	62.74	-110.31	2,837.58	-1,365.91	1,978.83	1,865.07	113.76	17.394		
13,400.00	10,600.00	14,160.73	11,286.39	57.35	64.37	-110.25	2,931.75	-1,368.64	1,980.39	1,864.00	116.39	17.015		
13,500.00	10,600.00	14,249.78	11,285.90	58.45	65.92	-110.22	3,020.76	-1,371.30	1,982.32	1,863.37	118.95	16.665		
13,600.00	10,600.00	14,327.99	11,285.84	59.57	67.29	-110.19	3,098.92	-1,374.13	1,985.03	1,863.68	121.35	16.358		
13,700.00	10,600.00	14,405.47	11,287.21	60.71	68.66	-110.20	3,176.31	-1,377.60	1,989.11	1,865.37	123.74	16.075		
13,800.00	10,600.00	14,514.72	11,290.21	61.85	70.59	-110.25	3,285.43	-1,381.96	1,993.09	1,866.44	126.65	15.737		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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				
13,900.00	10,600.00	14,601.26	11,293.32	63.01	72.13	-110.30	3,371.84	-1,385.57	1,997.55	1,868.36	129.19	15.462				
14,000.00	10,600.00	14,719.44	11,296.34	64.18	74.25	-110.34	3,489.85	-1,390.86	2,001.97	1,869.68	132.29	15.133				
14,100.00	10,600.00	14,832.72	11,296.90	65.37	76.29	-110.32	3,603.04	-1,395.38	2,005.17	1,869.81	135.36	14.814				
14,200.00	10,600.00	14,935.53	11,297.73	66.56	78.14	-110.31	3,705.78	-1,399.19	2,008.24	1,869.98	138.26	14.525				
14,300.00	10,600.00	15,026.94	11,298.51	67.76	79.79	-110.30	3,797.13	-1,402.60	2,011.35	1,870.36	140.99	14.266				
14,400.00	10,600.00	15,148.51	11,298.04	68.98	82.00	-110.25	3,918.59	-1,407.61	2,014.43	1,870.17	144.27	13.963				
14,500.00	10,600.00	15,253.22	11,296.19	70.20	83.91	-110.17	4,023.21	-1,411.51	2,016.63	1,869.34	147.29	13.691				
14,600.00	10,600.00	15,350.21	11,294.25	71.43	85.68	-110.09	4,120.11	-1,415.10	2,018.73	1,868.53	150.21	13.440				
14,700.00	10,600.00	15,435.15	11,292.65	72.67	87.24	-110.02	4,204.97	-1,418.67	2,021.35	1,868.42	152.93	13.218				
14,800.00	10,600.00	15,528.86	11,290.94	73.92	88.96	-109.94	4,298.55	-1,423.12	2,024.50	1,868.68	155.82	12.993				
14,900.00	10,600.00	15,629.68	11,289.03	75.17	90.83	-109.85	4,399.23	-1,428.03	2,027.74	1,868.89	158.85	12.765				
15,000.00	10,600.00	15,722.07	11,288.44	76.44	92.53	-109.80	4,491.53	-1,432.29	2,031.18	1,869.46	161.72	12.560				
15,100.00	10,600.00	15,812.55	11,288.85	77.70	94.21	-109.77	4,581.90	-1,436.53	2,035.05	1,870.50	164.54	12.368				
15,200.00	10,600.00	15,916.73	11,289.69	78.98	96.14	-109.76	4,685.96	-1,441.40	2,039.03	1,871.41	167.61	12.165				
15,300.00	10,600.00	15,977.00	11,290.28	80.26	97.26	-109.75	4,746.17	-1,444.12	2,043.30	1,873.43	169.87	12.028				
15,400.00	10,600.00	15,977.00	11,290.28	81.55	97.26	-109.75	4,746.17	-1,444.12	2,051.55	1,880.78	170.77	12.014 SF				
15,484.47	10,600.00	15,977.00	11,290.28	82.64	97.26	-109.75	4,746.17	-1,444.12	2,062.27	1,891.02	171.26	12.042				

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.00	1.00	0.50	0.00	-90.33	-4.82	-831.57	831.59					
100.00	100.00	100.82	100.82	0.52	0.14	-90.32	-4.59	-831.58	831.60	830.93	0.66	1,257.292		
200.00	200.00	204.20	204.19	0.70	0.47	-90.26	-3.82	-831.44	831.45	830.28	1.17	710.440		
300.00	300.00	303.60	303.59	0.99	0.82	-90.18	-2.55	-831.02	831.02	829.21	1.81	458.670		
400.00	400.00	401.25	401.23	1.31	1.17	-90.07	-0.95	-830.89	830.89	828.41	2.48	334.516		
500.00	500.00	501.52	501.48	1.65	1.53	-89.94	0.80	-830.86	830.87	827.68	3.18	261.211		
600.00	600.00	603.53	603.48	1.99	1.90	-89.88	1.78	-830.61	830.62	826.73	3.89	213.491		
637.21	637.21	638.25	638.21	2.12	2.02	-89.86	1.97	-830.55	830.55	826.41	4.14	200.508 CC		
700.00	700.00	696.23	696.18	2.34	2.22	-89.86	2.06	-830.73	830.74	826.18	4.56	182.097 ES		
800.00	800.00	791.54	791.49	2.69	2.55	-89.88	1.78	-831.63	831.68	826.45	5.24	158.791		
900.00	900.00	890.37	890.30	3.04	2.89	-89.91	1.36	-832.78	832.85	826.93	5.93	140.490		
1,000.00	1,000.00	989.39	989.32	3.40	3.23	-89.93	0.98	-834.18	834.27	827.64	6.62	125.931		
1,100.00	1,100.00	1,089.35	1,089.27	3.75	3.58	-89.96	0.56	-835.54	835.62	828.30	7.33	114.032		
1,200.00	1,200.00	1,194.66	1,194.57	4.11	3.95	-89.98	0.24	-836.84	836.86	828.81	8.05	103.903		
1,300.00	1,300.00	1,296.65	1,296.56	4.46	4.31	-89.97	0.39	-837.39	837.40	828.63	8.77	95.463		
1,400.00	1,400.00	1,397.16	1,397.07	4.82	4.66	-89.98	0.27	-837.90	837.91	828.43	9.48	88.365		
1,500.00	1,500.00	1,496.85	1,496.75	5.18	5.02	-89.99	0.10	-838.36	838.37	828.18	10.19	82.274		
1,600.00	1,600.00	1,591.02	1,590.92	5.53	5.35	-89.95	0.76	-839.05	839.11	828.23	10.88	77.118		
1,700.00	1,700.00	1,686.54	1,686.42	5.89	5.69	-89.84	2.32	-840.57	840.70	829.12	11.58	72.610		
1,800.00	1,800.00	1,786.27	1,786.12	6.25	6.05	-89.74	3.76	-842.32	842.46	830.17	12.29	68.539		
1,900.00	1,900.00	1,889.03	1,888.86	6.61	6.42	-89.68	4.74	-844.02	844.12	831.10	13.02	64.849		
2,000.00	2,000.00	1,989.63	1,989.45	6.96	6.78	-89.66	5.06	-845.38	845.47	831.74	13.73	61.565		
2,100.00	2,099.99	2,088.40	2,088.21	7.31	7.13	174.87	5.02	-846.79	847.77	833.34	14.43	58.743		
2,200.00	2,199.96	2,185.45	2,185.25	7.65	7.47	174.88	5.10	-848.40	852.04	836.92	15.12	56.365		
2,300.00	2,299.86	2,285.13	2,284.91	7.99	7.83	174.93	5.53	-850.26	858.25	842.44	15.81	54.274		
2,399.87	2,399.54	2,385.68	2,385.44	8.34	8.19	174.98	5.82	-852.07	866.12	849.61	16.51	52.447		
2,500.00	2,499.43	2,487.41	2,487.16	8.69	8.56	175.02	5.87	-853.73	874.70	857.48	17.22	50.793		
2,600.00	2,599.19	2,584.82	2,584.55	9.03	8.90	175.07	5.98	-855.36	883.32	865.40	17.91	49.314		
2,700.00	2,698.94	2,683.46	2,683.18	9.39	9.26	175.13	6.33	-857.16	892.08	873.47	18.61	47.937		
2,800.00	2,798.70	2,782.73	2,782.43	9.74	9.61	175.20	6.98	-859.06	900.95	881.64	19.31	46.654		
2,900.00	2,898.46	2,883.88	2,883.55	10.09	9.98	175.30	7.97	-860.89	909.72	889.70	20.02	45.438		
3,000.00	2,998.21	2,984.56	2,984.22	10.45	10.34	175.40	8.99	-862.58	918.35	897.62	20.73	44.301		
3,100.00	3,097.97	3,085.27	3,084.91	10.80	10.70	175.51	10.24	-864.14	926.87	905.43	21.44	43.232		
3,200.00	3,197.73	3,186.95	3,186.57	11.16	11.06	175.64	11.88	-865.56	935.24	913.09	22.15	42.217		
3,300.00	3,297.48	3,289.64	3,289.22	11.52	11.43	175.80	13.95	-866.69	943.34	920.47	22.87	41.248		
3,400.00	3,397.24	3,388.86	3,388.42	11.88	11.78	175.97	16.18	-867.62	951.29	927.71	23.57	40.354		
3,500.00	3,497.00	3,489.52	3,489.04	12.24	12.14	176.14	18.55	-868.55	959.23	934.94	24.28	39.502		
3,600.00	3,596.75	3,586.62	3,586.11	12.60	12.49	176.31	21.02	-869.56	967.29	942.31	24.98	38.723		
3,700.00	3,696.51	3,693.98	3,693.43	12.96	12.87	176.52	24.10	-870.25	974.98	949.27	25.72	37.914		
3,800.00	3,796.27	3,794.83	3,794.23	13.32	13.22	176.69	26.71	-870.55	982.34	955.91	26.43	37.173		
3,900.00	3,896.02	3,899.23	3,898.61	13.68	13.59	176.86	29.19	-870.57	989.41	962.26	27.15	36.443		
4,000.00	3,995.78	4,005.85	4,005.18	14.04	13.96	177.05	32.00	-869.92	995.88	968.00	27.88	35.724		
4,100.00	4,095.54	4,111.62	4,110.94	14.40	14.32	177.17	33.63	-868.61	1,001.68	973.08	28.60	35.028		
4,200.00	4,195.29	4,215.93	4,215.21	14.77	14.68	177.31	35.69	-866.77	1,006.98	977.67	29.31	34.356		
4,300.00	4,295.05	4,303.08	4,302.31	15.13	14.99	177.47	38.24	-865.33	1,012.48	982.51	29.97	33.782		
4,400.00	4,394.81	4,401.45	4,400.62	15.49	15.33	177.68	41.67	-864.98	1,019.27	988.60	30.67	33.230		
4,500.00	4,494.56	4,566.78	4,565.75	15.86	15.89	177.86	43.93	-858.66	1,022.46	990.90	31.56	32.401		
4,600.00	4,594.32	4,674.20	4,672.88	16.22	16.25	177.83	42.80	-850.90	1,022.15	989.89	32.26	31.685		
4,700.00	4,694.08	4,796.19	4,794.43	16.59	16.66	177.79	41.15	-840.73	1,020.77	987.79	32.98	30.950		
4,800.00	4,793.83	4,913.49	4,911.03	16.95	17.05	177.66	37.69	-828.42	1,017.07	983.38	33.69	30.193		
4,900.00	4,893.59	5,004.30	5,001.27	17.32	17.36	177.53	34.59	-818.71	1,013.14	978.77	34.37	29.479		
5,000.00	4,993.35	5,082.26	5,078.86	17.68	17.62	177.42	32.15	-811.49	1,010.68	975.65	35.03	28.848		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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)							
5,094.31	5,087.42	5,162.44	5,158.78	18.03	17.80	177.34	30.18	-805.47	1,010.05	974.48	35.57	28.396						
5,100.00	5,093.10	5,167.32	5,163.65	18.05	17.81	177.34	30.08	-805.13	1,010.05	974.45	35.60	28.372						
5,200.00	5,192.86	5,253.01	5,249.16	18.42	17.96	177.27	28.43	-799.91	1,010.84	974.72	36.12	27.984						
5,300.00	5,292.62	5,346.83	5,342.84	18.78	17.99	177.20	26.64	-795.19	1,012.68	976.18	36.51	27.739						
5,400.00	5,392.37	5,443.38	5,439.27	19.15	18.01	177.09	24.05	-790.81	1,015.00	978.12	36.88	27.521						
5,500.00	5,492.13	5,536.54	5,532.27	19.52	18.03	176.91	20.44	-786.98	1,017.69	980.43	37.26	27.310						
5,600.00	5,591.89	5,625.86	5,621.44	19.88	18.05	176.69	15.96	-784.17	1,021.32	983.67	37.65	27.126						
5,700.00	5,691.64	5,715.05	5,710.44	20.25	18.09	176.41	10.52	-782.36	1,026.04	988.00	38.04	26.973						
5,800.00	5,791.40	5,804.17	5,799.34	20.62	18.12	176.09	4.33	-781.47	1,031.78	993.35	38.43	26.847						
5,900.00	5,891.16	5,894.56	5,889.51	20.98	18.16	175.77	-1.91	-781.49	1,038.58	999.76	38.83	26.749						
6,000.00	5,990.91	5,986.87	5,981.61	21.35	18.21	175.45	-8.07	-782.15	1,046.13	1,006.90	39.23	26.668						
6,100.00	6,090.67	6,076.79	6,071.37	21.72	18.26	175.19	-13.41	-783.51	1,054.51	1,014.88	39.63	26.609						
6,200.00	6,190.42	6,166.95	6,161.39	22.09	18.32	174.97	-17.91	-785.75	1,063.88	1,023.84	40.03	26.574						
6,300.00	6,290.18	6,260.52	6,254.84	22.45	18.38	174.81	-21.44	-788.64	1,073.88	1,033.43	40.45	26.548						
6,400.00	6,389.94	6,350.92	6,345.15	22.82	18.45	174.73	-23.59	-792.08	1,084.61	1,043.75	40.86	26.544						
6,500.00	6,489.69	6,439.47	6,433.60	23.19	18.52	174.70	-24.59	-796.23	1,096.21	1,054.95	41.27	26.564						
6,600.00	6,589.45	6,523.40	6,517.37	23.56	18.59	174.69	-25.26	-801.17	1,109.02	1,067.36	41.66	26.621						
6,700.00	6,689.21	6,603.47	6,597.23	23.93	18.66	174.68	-25.95	-807.12	1,123.36	1,081.33	42.04	26.724						
6,800.00	6,788.96	6,681.33	6,674.75	24.29	18.73	174.67	-26.66	-814.28	1,139.44	1,097.04	42.40	26.874						
6,900.00	6,888.72	6,772.40	6,765.30	24.66	18.82	174.65	-27.61	-823.99	1,156.96	1,114.14	42.82	27.019						
7,000.00	6,988.48	6,874.54	6,866.85	25.03	18.93	174.62	-28.84	-834.86	1,174.48	1,131.18	43.30	27.124						
7,100.00	7,088.23	6,982.11	6,973.86	25.40	19.05	174.59	-30.29	-845.72	1,191.46	1,147.65	43.81	27.195						
7,200.00	7,187.99	7,088.11	7,079.38	25.77	19.18	174.55	-31.65	-855.65	1,207.72	1,163.40	44.32	27.249						
7,300.00	7,287.75	7,173.13	7,163.99	26.14	19.30	174.52	-32.83	-863.87	1,224.27	1,179.52	44.74	27.363						
7,400.00	7,387.50	7,253.83	7,244.20	26.50	19.41	174.49	-34.02	-872.65	1,242.03	1,196.89	45.14	27.514						
7,500.00	7,487.26	7,349.87	7,339.56	26.87	19.55	174.45	-35.57	-884.05	1,260.76	1,215.14	45.62	27.635						
7,600.00	7,587.02	7,451.21	7,440.19	27.24	19.71	174.41	-37.21	-895.88	1,279.30	1,233.16	46.14	27.729						
7,700.00	7,686.77	7,553.45	7,541.74	27.61	19.87	174.36	-38.94	-907.54	1,297.58	1,250.91	46.66	27.809						
7,800.00	7,786.53	7,660.05	7,647.69	27.98	20.05	174.32	-40.60	-919.21	1,315.40	1,268.19	47.21	27.861						
7,900.00	7,886.29	7,764.15	7,751.22	28.35	20.24	174.28	-42.40	-929.92	1,332.56	1,284.80	47.76	27.902						
8,000.00	7,986.04	7,851.46	7,838.02	28.72	20.40	174.23	-44.01	-939.24	1,350.12	1,301.89	48.22	27.997						
8,100.00	8,085.80	7,956.33	7,942.25	29.09	20.60	174.17	-46.22	-950.62	1,367.85	1,319.07	48.78	28.039						
8,200.00	8,185.56	8,059.94	8,045.30	29.46	20.80	174.11	-48.50	-961.12	1,384.87	1,335.52	49.34	28.066						
8,300.00	8,285.31	8,151.88	8,136.69	29.83	20.98	174.05	-50.79	-970.90	1,402.38	1,352.54	49.85	28.133						
8,400.00	8,385.07	8,256.81	8,241.04	30.20	21.20	173.97	-53.58	-981.57	1,419.43	1,369.01	50.42	28.150						
8,500.00	8,484.83	8,352.01	8,335.67	30.56	21.41	173.89	-56.15	-991.56	1,436.82	1,385.86	50.96	28.198						
8,600.00	8,584.58	8,450.39	8,433.49	30.93	21.62	173.81	-59.01	-1,001.61	1,453.95	1,402.44	51.51	28.228						
8,700.00	8,684.34	8,549.00	8,531.49	31.30	21.85	173.72	-62.31	-1,012.12	1,471.52	1,419.45	52.07	28.263						
8,800.00	8,784.10	8,659.25	8,641.13	31.67	22.10	173.60	-66.17	-1,023.07	1,488.36	1,435.67	52.69	28.249						
8,900.00	8,883.85	8,761.91	8,743.26	32.04	22.34	173.49	-69.96	-1,032.77	1,504.75	1,451.47	53.28	28.245						
9,000.00	8,983.61	8,880.40	8,861.21	32.41	22.62	173.37	-74.45	-1,043.19	1,520.52	1,466.58	53.94	28.187						
9,100.00	9,083.37	9,006.13	8,986.52	32.78	22.92	173.23	-79.21	-1,052.20	1,534.66	1,480.02	54.64	28.086						
9,200.00	9,183.12	9,122.90	9,103.02	33.15	23.20	173.11	-83.56	-1,058.73	1,547.21	1,491.91	55.30	27.980						
9,300.00	9,282.88	9,227.43	9,207.36	33.52	23.45	173.02	-87.12	-1,063.91	1,559.15	1,503.25	55.90	27.890						
9,400.00	9,382.64	9,341.00	9,320.77	33.89	23.72	172.94	-90.39	-1,068.98	1,570.61	1,514.06	56.55	27.774						
9,428.07	9,410.64	9,372.59	9,352.32	33.99	23.79	172.92	-91.23	-1,070.18	1,573.64	1,516.91	56.73	27.739						
9,500.00	9,482.43	9,452.28	9,431.94	34.26	23.98	172.88	-93.27	-1,072.94	1,580.48	1,523.29	57.19	27.638						
9,600.00	9,582.36	9,578.13	9,557.72	34.62	24.28	172.80	-96.40	-1,075.91	1,586.66	1,528.79	57.87	27.418						
9,694.65	9,677.00	9,696.70	9,676.23	34.95	24.56	-91.83	-99.72	-1,076.83	1,588.64	1,530.14	58.50	27.156						
9,700.00	9,682.35	9,703.39	9,682.93	34.97	24.58	-91.84	-99.90	-1,076.83	1,588.64	1,530.11	58.54	27.140						
9,800.00	9,782.35	9,814.85	9,794.35	35.31	24.83	-91.94	-102.83	-1,076.27	1,588.22	1,529.07	59.15	26.852						
9,900.00	9,882.35	9,942.72	9,922.14	35.65	25.12	-92.08	-106.58	-1,074.02	1,586.54	1,526.74	59.80	26.531						

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,000.00	9,982.35	10,043.88	10,023.21	35.99	25.35	-92.21	-109.98	-1,071.31	1,583.99	1,523.61	60.38	26.233		
10,044.69	10,027.04	10,086.10	10,065.39	36.14	25.45	-92.26	-111.28	-1,070.23	1,582.90	1,522.26	60.64	26.105		
10,050.00	10,032.35	10,091.12	10,070.40	36.16	25.46	-91.85	-111.42	-1,070.11	1,582.78	1,522.11	60.67	26.090		
10,100.00	10,082.26	10,138.33	10,117.58	36.32	25.57	-92.10	-112.73	-1,068.99	1,581.74	1,520.79	60.95	25.952		
10,150.00	10,131.76	10,185.10	10,164.33	36.49	25.68	-92.46	-113.98	-1,067.96	1,580.97	1,519.74	61.23	25.820		
10,200.00	10,180.46	10,230.98	10,210.18	36.65	25.78	-92.92	-115.18	-1,067.02	1,580.53	1,519.03	61.51	25.698		
10,225.53	10,204.89	10,253.95	10,233.14	36.73	25.84	-93.18	-115.75	-1,066.58	1,580.47	1,518.83	61.64	25.639		
10,250.00	10,227.98	10,275.66	10,254.84	36.81	25.89	-93.46	-116.27	-1,066.18	1,580.53	1,518.76	61.77	25.585		
10,300.00	10,273.98	10,322.06	10,301.22	36.95	26.00	-94.10	-117.34	-1,065.36	1,581.06	1,519.02	62.05	25.482		
10,350.00	10,318.11	10,369.11	10,348.24	37.09	26.11	-94.83	-118.50	-1,064.44	1,582.15	1,519.83	62.31	25.390		
10,400.00	10,360.01	10,413.67	10,392.78	37.21	26.22	-95.56	-119.67	-1,063.45	1,583.95	1,521.38	62.57	25.314		
10,450.00	10,399.38	10,455.41	10,434.50	37.32	26.32	-96.25	-120.82	-1,062.44	1,586.66	1,523.84	62.82	25.258		
10,500.00	10,435.92	10,493.91	10,472.96	37.42	26.41	-96.85	-121.92	-1,061.42	1,590.48	1,527.43	63.05	25.224		
10,550.00	10,469.35	10,528.67	10,507.69	37.51	26.49	-97.29	-122.96	-1,060.43	1,595.59	1,532.32	63.27	25.217 SF		
10,600.00	10,499.41	10,559.61	10,538.61	37.59	26.57	-97.55	-123.93	-1,059.50	1,602.16	1,538.68	63.48	25.239		
10,650.00	10,525.87	10,586.49	10,565.46	37.66	26.63	-97.56	-124.81	-1,058.65	1,610.34	1,546.67	63.67	25.292		
10,700.00	10,548.54	10,608.58	10,587.53	37.74	26.68	-97.28	-125.55	-1,057.93	1,620.23	1,556.39	63.84	25.379		
10,750.00	10,567.24	10,626.52	10,605.44	37.84	26.73	-96.70	-126.17	-1,057.33	1,631.89	1,567.89	64.00	25.500		
10,800.00	10,581.83	10,640.05	10,618.95	37.97	26.76	-95.78	-126.63	-1,056.87	1,645.33	1,581.20	64.13	25.656		
10,850.00	10,592.19	10,649.08	10,627.98	38.11	26.78	-94.52	-126.95	-1,056.56	1,660.50	1,596.26	64.25	25.846		
10,900.00	10,598.26	10,653.58	10,632.47	38.25	26.79	-92.90	-127.11	-1,056.40	1,677.33	1,612.99	64.34	26.070		
10,944.69	10,600.00	10,653.75	10,632.64	38.39	26.79	-91.16	-127.11	-1,056.39	1,693.64	1,629.24	64.40	26.297		
11,000.00	10,600.00	10,651.71	10,630.61	38.56	26.79	-91.08	-127.04	-1,056.46	1,715.29	1,650.81	64.48	26.603		
11,100.00	10,600.00	10,648.05	10,626.94	38.91	26.78	-90.95	-126.91	-1,056.59	1,758.17	1,693.56	64.62	27.209		
11,200.00	10,600.00	10,644.40	10,623.30	39.31	26.77	-90.81	-126.79	-1,056.72	1,805.57	1,740.80	64.77	27.878		
11,300.00	10,600.00	10,640.78	10,619.68	39.76	26.76	-90.68	-126.66	-1,056.84	1,857.14	1,792.22	64.92	28.606		
11,400.00	10,600.00	10,637.17	10,616.08	40.25	26.75	-90.55	-126.53	-1,056.97	1,912.55	1,847.47	65.08	29.388		
11,500.00	10,600.00	10,633.59	10,612.50	40.79	26.74	-90.42	-126.41	-1,057.09	1,971.47	1,906.23	65.24	30.220		
11,600.00	10,600.00	10,630.03	10,608.94	41.37	26.74	-90.29	-126.29	-1,057.21	2,033.60	1,968.21	65.39	31.099		
11,700.00	10,600.00	10,626.48	10,605.41	41.99	26.73	-90.16	-126.17	-1,057.33	2,098.65	2,033.10	65.54	32.020		
11,800.00	10,600.00	10,622.96	10,601.89	42.65	26.72	-90.03	-126.04	-1,057.45	2,166.35	2,100.67	65.69	32.980		
11,900.00	10,600.00	10,619.46	10,598.39	43.35	26.71	-89.90	-125.92	-1,057.57	2,236.48	2,170.65	65.83	33.975		
12,000.00	10,600.00	10,615.98	10,594.91	44.09	26.70	-89.78	-125.81	-1,057.68	2,308.80	2,242.84	65.96	35.003		
12,100.00	10,600.00	10,612.51	10,591.45	44.86	26.69	-89.65	-125.69	-1,057.80	2,383.12	2,317.03	66.09	36.059		
12,200.00	10,600.00	10,609.07	10,588.01	45.67	26.68	-89.53	-125.57	-1,057.91	2,459.25	2,393.04	66.21	37.143		
12,300.00	10,600.00	10,605.65	10,584.59	46.50	26.68	-89.40	-125.46	-1,058.03	2,537.04	2,470.71	66.33	38.251		
12,400.00	10,600.00	10,602.24	10,581.19	47.37	26.67	-89.28	-125.34	-1,058.14	2,616.33	2,549.90	66.44	39.380		
12,500.00	10,600.00	10,598.86	10,577.81	48.26	26.66	-89.15	-125.23	-1,058.25	2,697.00	2,630.46	66.54	40.530		
12,600.00	10,600.00	10,595.49	10,574.45	49.18	26.65	-89.03	-125.11	-1,058.36	2,778.92	2,712.28	66.64	41.698		
12,700.00	10,600.00	10,592.14	10,571.10	50.13	26.64	-88.91	-125.00	-1,058.47	2,861.98	2,795.24	66.74	42.883		
12,800.00	10,600.00	10,588.81	10,567.78	51.10	26.64	-88.79	-124.89	-1,058.58	2,946.10	2,879.27	66.83	44.083		
12,900.00	10,600.00	10,585.50	10,564.47	52.09	26.63	-88.67	-124.78	-1,058.68	3,031.17	2,964.25	66.92	45.296		
13,000.00	10,600.00	10,582.21	10,561.18	53.10	26.62	-88.55	-124.67	-1,058.79	3,117.13	3,050.13	67.00	46.522		
13,100.00	10,600.00	10,578.96	10,557.94	54.14	26.61	-88.43	-124.56	-1,058.89	3,203.90	3,136.81	67.08	47.759		
13,200.00	10,600.00	10,575.79	10,554.77	55.19	26.60	-88.31	-124.46	-1,058.99	3,291.41	3,224.25	67.16	49.006		
13,300.00	10,600.00	10,572.65	10,551.63	56.26	26.60	-88.20	-124.36	-1,059.09	3,379.62	3,312.38	67.24	50.263		
13,400.00	10,600.00	10,569.53	10,548.51	57.35	26.59	-88.09	-124.25	-1,059.19	3,468.46	3,401.15	67.31	51.528		
13,500.00	10,600.00	10,566.44	10,545.43	58.45	26.58	-87.97	-124.15	-1,059.29	3,557.90	3,490.51	67.38	52.800		
13,600.00	10,600.00	10,563.37	10,542.37	59.57	26.57	-87.86	-124.05	-1,059.39	3,647.88	3,580.42	67.45	54.080		
13,700.00	10,600.00	10,560.34	10,539.33	60.71	26.57	-87.75	-123.96	-1,059.48	3,738.36	3,670.84	67.52	55.365		
13,800.00	10,600.00	10,557.32	10,536.32	61.85	26.56	-87.64	-123.86	-1,059.57	3,829.32	3,761.73	67.59	56.657		
13,900.00	10,600.00	10,554.34	10,533.34	63.01	26.55	-87.53	-123.76	-1,059.66	3,920.71	3,853.06	67.65	57.953		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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)			
14,000.00	10,600.00	10,551.38	10,530.38	64.18	26.55	-87.43	-123.67	-1,059.76	4,012.51	3,944.80	67.72	59.254		
14,100.00	10,600.00	10,548.44	10,527.44	65.37	26.54	-87.32	-123.58	-1,059.84	4,104.70	4,036.92	67.78	60.559		
14,200.00	10,600.00	10,545.53	10,524.53	66.56	26.53	-87.21	-123.48	-1,059.93	4,197.24	4,129.39	67.84	61.867		
14,300.00	10,600.00	10,542.64	10,521.65	67.76	26.52	-87.11	-123.39	-1,060.02	4,290.11	4,222.20	67.90	63.179		
14,400.00	10,600.00	10,539.77	10,518.79	68.98	26.52	-87.01	-123.30	-1,060.11	4,383.29	4,315.33	67.96	64.494		
14,500.00	10,600.00	10,536.93	10,515.95	70.20	26.51	-86.90	-123.22	-1,060.19	4,476.77	4,408.74	68.02	65.811		
14,600.00	10,600.00	10,534.12	10,513.14	71.43	26.50	-86.80	-123.13	-1,060.27	4,570.52	4,502.43	68.08	67.130		
14,700.00	10,600.00	10,531.32	10,510.34	72.67	26.50	-86.70	-123.04	-1,060.36	4,664.52	4,596.38	68.14	68.451		
14,800.00	10,600.00	10,528.55	10,507.57	73.92	26.49	-86.60	-122.96	-1,060.44	4,758.77	4,690.57	68.20	69.774		
14,900.00	10,600.00	10,525.80	10,504.83	75.17	26.48	-86.50	-122.87	-1,060.52	4,853.25	4,784.99	68.26	71.097		
15,000.00	10,600.00	10,523.07	10,502.10	76.44	26.48	-86.40	-122.79	-1,060.60	4,947.95	4,879.62	68.32	72.422		
15,100.00	10,600.00	10,520.37	10,499.40	77.70	26.47	-86.30	-122.71	-1,060.68	5,042.84	4,974.46	68.38	73.748		
15,200.00	10,600.00	10,517.69	10,496.72	78.98	26.46	-86.21	-122.62	-1,060.75	5,137.93	5,069.49	68.44	75.074		
15,300.00	10,600.00	10,515.03	10,494.06	80.26	26.46	-86.11	-122.54	-1,060.83	5,233.20	5,164.70	68.50	76.400		
15,400.00	10,600.00	10,512.38	10,491.42	81.55	26.45	-86.01	-122.46	-1,060.90	5,328.64	5,260.09	68.56	77.727		
15,484.47	10,600.00	10,510.17	10,489.21	82.64	26.45	-85.93	-122.40	-1,060.97	5,409.39	5,340.79	68.61	78.847		

Anticollision Report

Company:	WCDCS Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	1.40	1.40	0.50	0.00	-90.33	-4.46	-781.61	781.62					
100.00	100.00	94.71	94.71	0.52	0.16	-90.32	-4.34	-782.02	782.06	781.40	0.67	1,173.417		
200.00	200.00	188.01	188.00	0.70	0.31	-90.29	-3.98	-783.23	783.36	782.36	1.00	785.843		
300.00	300.00	284.82	284.79	0.99	0.60	-90.24	-3.28	-785.17	785.35	783.79	1.57	501.197		
400.00	400.00	383.83	383.77	1.31	0.95	-90.15	-2.09	-787.36	787.56	785.33	2.24	352.023		
500.00	500.00	484.84	484.74	1.65	1.31	-90.08	-1.05	-789.63	789.81	786.88	2.93	269.544		
600.00	600.00	589.20	589.08	1.99	1.68	-89.98	0.23	-791.56	791.66	788.01	3.64	217.263		
700.00	700.00	693.57	693.43	2.34	2.05	-89.86	1.91	-792.91	792.95	788.59	4.36	181.809		
800.00	800.00	792.05	791.89	2.69	2.39	-89.75	3.42	-793.98	794.05	788.99	5.06	157.007		
900.00	900.00	890.12	889.94	3.04	2.73	-89.69	4.27	-795.28	795.37	789.62	5.75	138.245		
1,000.00	1,000.00	988.83	988.64	3.40	3.07	-89.64	5.07	-796.84	796.96	790.51	6.45	123.523		
1,100.00	1,100.00	1,091.58	1,091.38	3.75	3.43	-89.59	5.68	-798.28	798.36	791.20	7.17	111.414		
1,200.00	1,200.00	1,193.11	1,192.90	4.11	3.78	-89.59	5.79	-799.51	799.58	791.70	7.88	101.520		
1,300.00	1,300.00	1,299.25	1,299.04	4.46	4.15	-89.58	5.84	-800.34	800.36	791.76	8.60	93.042		
1,400.00	1,400.00	1,400.42	1,400.21	4.82	4.41	-89.61	5.47	-800.36	800.38	791.16	9.22	86.834		
1,500.00	1,500.00	1,495.56	1,495.35	5.18	4.58	-89.61	5.42	-800.80	800.84	791.09	9.75	82.175		
1,600.00	1,600.00	1,592.36	1,592.14	5.53	4.69	-89.59	5.74	-801.79	801.86	791.65	10.21	78.536		
1,700.00	1,700.00	1,691.82	1,691.59	5.89	4.74	-89.56	6.10	-802.99	803.07	792.45	10.62	75.613		
1,800.00	1,800.00	1,796.37	1,796.13	6.25	4.82	-89.58	5.95	-804.02	804.06	793.00	11.06	72.700		
1,900.00	1,900.00	1,899.62	1,899.38	6.61	4.93	-89.63	5.21	-804.50	804.52	793.00	11.52	69.819		
2,000.00	2,000.00	1,997.49	1,997.25	6.96	5.05	-89.69	4.39	-805.01	805.04	793.03	12.01	67.054		
2,100.00	2,099.99	2,108.05	2,107.81	7.31	5.21	174.78	3.58	-804.72	805.63	793.11	12.51	64.382		
2,200.00	2,199.96	2,208.03	2,207.78	7.65	5.37	174.77	3.12	-803.88	807.39	794.38	13.01	62.037		
2,300.00	2,299.86	2,305.90	2,305.65	7.99	5.55	174.75	2.56	-803.28	811.11	797.58	13.53	59.935		
2,399.87	2,399.54	2,406.17	2,405.91	8.34	5.75	174.73	1.80	-802.76	816.66	802.59	14.07	58.027		
2,500.00	2,499.43	2,506.06	2,505.80	8.69	5.96	174.74	1.28	-802.10	822.95	808.32	14.63	56.250		
2,600.00	2,599.19	2,604.54	2,604.28	9.03	6.18	174.75	0.75	-801.63	829.42	814.22	15.20	54.578		
2,700.00	2,698.94	2,704.30	2,704.03	9.39	6.42	174.78	0.60	-801.21	835.94	820.16	15.78	52.981		
2,800.00	2,798.70	2,804.02	2,803.75	9.74	6.66	174.83	0.64	-800.78	842.46	826.09	16.37	51.467		
2,900.00	2,898.46	2,901.50	2,901.24	10.09	6.91	174.89	0.93	-800.46	849.08	832.11	16.96	50.060		
3,000.00	2,998.21	3,000.68	3,000.41	10.45	7.16	174.96	1.38	-800.39	855.96	838.39	17.57	48.730		
3,100.00	3,097.97	3,100.24	3,099.97	10.80	7.43	175.03	1.76	-800.30	862.82	844.64	18.18	47.462		
3,200.00	3,197.73	3,203.31	3,203.04	11.16	7.71	175.09	2.18	-800.09	869.57	850.75	18.81	46.223		
3,300.00	3,297.48	3,302.81	3,302.53	11.52	7.99	175.16	2.60	-799.63	876.06	856.62	19.44	45.057		
3,400.00	3,397.24	3,398.46	3,398.19	11.88	8.26	175.23	3.06	-799.45	882.83	862.76	20.07	43.992		
3,500.00	3,497.00	3,498.90	3,498.63	12.24	8.55	175.29	3.48	-799.49	889.82	869.11	20.71	42.962		
3,600.00	3,596.75	3,597.76	3,597.49	12.60	8.84	175.35	3.84	-799.53	896.81	875.46	21.36	41.994		
3,700.00	3,696.51	3,700.03	3,699.75	12.96	9.15	175.42	4.28	-799.43	903.67	881.66	22.02	41.045		
3,800.00	3,796.27	3,797.20	3,796.92	13.32	9.45	175.47	4.62	-799.39	910.60	887.93	22.66	40.177		
3,900.00	3,896.02	3,897.97	3,897.69	13.68	9.76	175.53	5.05	-799.47	917.63	894.30	23.33	39.335		
4,000.00	3,995.78	4,001.39	4,001.11	14.04	10.08	175.61	5.75	-799.18	924.32	900.31	24.01	38.503		
4,100.00	4,095.54	4,101.68	4,101.40	14.40	10.39	175.69	6.39	-798.72	930.83	906.15	24.68	37.721		
4,200.00	4,195.29	4,202.45	4,202.16	14.77	10.71	175.76	7.01	-798.21	937.28	911.93	25.35	36.970		
4,300.00	4,295.05	4,311.91	4,311.61	15.13	11.06	175.84	7.75	-797.21	943.36	917.30	26.06	36.200		
4,400.00	4,394.81	4,435.42	4,435.07	15.49	11.46	175.92	8.43	-793.78	947.58	920.77	26.81	35.346		
4,500.00	4,494.56	4,557.01	4,556.49	15.86	11.86	175.97	8.44	-787.43	949.32	921.78	27.54	34.467		
4,600.00	4,594.32	4,671.60	4,670.76	16.22	12.23	175.99	8.03	-778.93	948.81	920.55	28.26	33.580		
4,700.00	4,694.08	4,776.84	4,775.67	16.59	12.58	175.96	6.74	-770.56	947.79	918.84	28.95	32.740		
4,800.00	4,793.83	4,886.07	4,884.42	16.95	12.95	175.84	4.00	-760.77	945.70	916.05	29.65	31.895		
4,900.00	4,893.59	4,988.52	4,986.36	17.32	13.30	175.70	1.08	-751.00	943.05	912.70	30.34	31.080		
5,000.00	4,993.35	5,079.77	5,077.19	17.68	13.61	175.60	-1.36	-742.52	940.66	909.64	31.02	30.326		
5,100.00	5,093.10	5,167.15	5,164.25	18.05	13.91	175.51	-3.31	-735.50	939.54	907.85	31.69	29.652		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,157.68	5,150.64	5,220.48	5,217.44	18.26	14.09	175.47	-4.33	-731.69	939.40	907.33	32.08	29.287		
5,200.00	5,192.86	5,259.62	5,256.49	18.42	14.23	175.45	-5.04	-729.05	939.48	907.11	32.36	29.030		
5,300.00	5,292.62	5,361.18	5,357.82	18.78	14.58	175.37	-6.99	-722.48	939.93	906.87	33.06	28.430		
5,400.00	5,392.37	5,480.73	5,476.97	19.15	15.00	175.21	-10.37	-713.36	939.24	905.45	33.80	27.790		
5,500.00	5,492.13	5,587.14	5,582.87	19.52	15.38	175.04	-13.90	-703.58	936.95	902.44	34.51	27.152		
5,600.00	5,591.89	5,688.18	5,683.39	19.88	15.74	174.89	-17.10	-693.95	934.33	899.12	35.21	26.536		
5,700.00	5,691.64	5,790.74	5,785.42	20.25	16.11	174.73	-20.29	-683.95	931.50	895.58	35.92	25.936		
5,800.00	5,791.40	5,893.48	5,887.59	20.62	16.48	174.58	-23.43	-673.64	928.39	891.76	36.62	25.350		
5,900.00	5,891.16	5,995.96	5,989.47	20.98	16.86	174.43	-26.51	-663.02	924.95	887.62	37.33	24.777		
6,000.00	5,990.91	6,094.82	6,087.74	21.35	17.22	174.29	-29.43	-652.67	921.41	883.37	38.04	24.225		
6,100.00	6,090.67	6,190.92	6,183.31	21.72	17.58	174.17	-32.04	-642.91	918.19	879.46	38.74	23.703		
6,200.00	6,190.42	6,288.67	6,280.56	22.09	17.94	174.06	-34.47	-633.37	915.37	875.93	39.44	23.208		
6,300.00	6,290.18	6,388.25	6,379.65	22.45	18.31	173.96	-36.70	-623.72	912.63	872.48	40.15	22.730		
6,400.00	6,389.94	6,492.27	6,483.14	22.82	18.70	173.85	-39.02	-613.55	909.80	868.94	40.87	22.263		
6,500.00	6,489.69	6,598.80	6,589.02	23.19	19.10	173.67	-42.53	-602.37	906.27	864.68	41.59	21.793		
6,600.00	6,589.45	6,700.41	6,689.92	23.56	19.49	173.42	-47.03	-591.19	902.25	859.95	42.30	21.329		
6,700.00	6,689.21	6,799.25	6,788.06	23.93	19.87	173.19	-51.34	-580.32	898.24	855.23	43.02	20.881		
6,800.00	6,788.96	6,897.38	6,885.53	24.29	20.25	172.96	-55.44	-569.68	894.41	850.68	43.73	20.453		
6,900.00	6,888.72	6,994.51	6,982.04	24.66	20.62	172.75	-59.28	-559.40	890.85	846.41	44.44	20.044		
7,000.00	6,988.48	7,095.46	7,082.36	25.03	21.01	172.54	-63.10	-548.83	887.40	842.24	45.16	19.649		
7,100.00	7,088.23	7,192.30	7,178.58	25.40	21.38	172.29	-67.38	-538.79	884.09	838.21	45.88	19.270		
7,200.00	7,187.99	7,292.49	7,278.12	25.77	21.77	172.00	-72.40	-528.50	880.93	834.33	46.60	18.903		
7,300.00	7,287.75	7,392.13	7,377.10	26.14	22.16	171.70	-77.51	-518.27	877.79	830.46	47.33	18.548		
7,400.00	7,387.50	7,492.51	7,476.81	26.50	22.55	171.39	-82.72	-507.95	874.67	826.62	48.05	18.203		
7,500.00	7,487.26	7,594.13	7,577.74	26.87	22.95	171.08	-87.96	-497.35	871.42	822.64	48.78	17.865		
7,600.00	7,587.02	7,694.75	7,677.67	27.24	23.34	170.78	-92.97	-486.71	868.03	818.52	49.51	17.533		
7,700.00	7,686.77	7,794.17	7,776.42	27.61	23.73	170.50	-97.67	-476.20	864.66	814.43	50.23	17.213		
7,800.00	7,786.53	7,895.08	7,876.66	27.98	24.13	170.22	-102.32	-465.56	861.33	810.37	50.96	16.901		
7,900.00	7,886.29	7,996.47	7,977.35	28.35	24.53	169.92	-107.11	-454.61	857.78	806.09	51.70	16.593		
8,000.00	7,986.04	8,096.45	8,076.63	28.72	24.93	169.64	-111.72	-443.77	854.20	801.77	52.43	16.293		
8,100.00	8,085.80	8,196.58	8,176.06	29.09	25.33	169.35	-116.34	-432.90	850.61	797.45	53.16	16.001		
8,200.00	8,185.56	8,294.63	8,273.43	29.46	25.72	169.07	-120.83	-422.29	847.10	793.21	53.89	15.719		
8,300.00	8,285.31	8,393.71	8,371.84	29.83	26.11	168.77	-125.56	-411.78	843.82	789.20	54.62	15.448		
8,400.00	8,385.07	8,494.60	8,472.04	30.20	26.52	168.46	-130.40	-401.04	840.54	785.18	55.36	15.183		
8,500.00	8,484.83	8,595.42	8,572.16	30.56	26.92	168.16	-135.08	-390.18	837.14	781.04	56.10	14.923		
8,600.00	8,584.58	8,694.96	8,671.00	30.93	27.32	167.85	-139.74	-379.42	833.72	776.89	56.83	14.670		
8,700.00	8,684.34	8,794.25	8,769.61	31.30	27.72	167.55	-144.42	-368.73	830.39	772.82	57.57	14.424		
8,800.00	8,784.10	8,893.82	8,868.49	31.67	28.12	167.24	-149.12	-358.07	827.13	768.82	58.31	14.185		
8,900.00	8,883.85	8,988.44	8,962.53	32.04	28.50	166.98	-153.08	-348.33	824.24	765.20	59.04	13.961		
9,000.00	8,983.61	9,076.92	9,050.58	32.41	28.84	166.79	-156.13	-340.22	822.39	762.64	59.75	13.764		
9,094.95	9,078.33	9,162.23	9,135.59	32.76	29.17	166.65	-158.64	-333.53	821.84	761.42	60.42	13.602		
9,100.00	9,083.37	9,166.76	9,140.11	32.78	29.19	166.64	-158.76	-333.21	821.84	761.38	60.45	13.594		
9,200.00	9,183.12	9,266.22	9,239.28	33.15	29.57	166.49	-161.56	-326.13	821.96	760.78	61.18	13.435		
9,300.00	9,282.88	9,367.61	9,340.37	33.52	29.95	166.35	-164.37	-318.84	822.01	760.10	61.91	13.277		
9,302.64	9,285.51	9,370.29	9,343.04	33.53	29.96	166.34	-164.44	-318.65	822.01	760.08	61.93	13.273		
9,400.00	9,382.64	9,465.92	9,438.38	33.89	30.33	166.19	-167.21	-311.82	822.13	759.49	62.64	13.125		
9,428.07	9,410.64	9,494.75	9,467.12	33.99	30.44	166.14	-168.13	-309.75	822.16	759.32	62.85	13.082		
9,500.00	9,482.43	9,567.43	9,539.56	34.26	30.71	165.99	-170.59	-304.40	821.49	758.12	63.38	12.962		
9,600.00	9,582.36	9,662.36	9,634.17	34.62	31.08	165.71	-174.35	-297.56	818.63	754.54	64.09	12.772		
9,694.65	9,677.00	9,747.36	9,718.88	34.95	31.40	-99.18	-178.74	-292.12	814.53	749.78	64.75	12.580		
9,700.00	9,682.35	9,752.40	9,723.90	34.97	31.42	-99.20	-179.04	-291.82	814.27	749.48	64.79	12.568		
9,800.00	9,782.35	9,847.67	9,818.83	35.31	31.78	-99.69	-185.11	-286.42	809.71	744.21	65.50	12.362		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
9,900.00	9,882.35	9,948.95	9,919.66	35.65	32.16	-100.29	-192.68	-280.56	805.29	739.05	66.24	12.158		
10,000.00	9,982.35	10,048.33	10,018.49	35.99	32.54	-100.96	-201.18	-274.57	800.93	733.95	66.98	11.958		
10,044.69	10,027.04	10,093.40	10,063.29	36.14	32.71	-101.29	-205.21	-271.80	798.99	731.68	67.31	11.870		
10,050.00	10,032.35	10,098.75	10,068.61	36.16	32.73	-100.93	-205.69	-271.47	798.76	731.41	67.35	11.859		
10,100.00	10,082.26	10,150.78	10,120.33	36.32	32.94	-101.67	-210.38	-268.16	797.06	729.32	67.74	11.766		
10,150.00	10,131.76	10,202.96	10,172.17	36.49	33.14	-102.64	-215.03	-264.63	796.16	728.02	68.14	11.685		
10,171.05	10,152.38	10,224.56	10,193.64	36.56	33.22	-103.11	-216.95	-263.10	796.06	727.75	68.30	11.655 ES		
10,200.00	10,180.46	10,251.99	10,220.89	36.65	33.33	-103.75	-219.34	-261.15	796.28	727.76	68.53	11.620		
10,250.00	10,227.98	10,299.17	10,267.78	36.81	33.52	-104.95	-223.39	-257.74	797.78	728.85	68.92	11.575		
10,300.00	10,273.98	10,342.98	10,311.31	36.95	33.69	-106.11	-227.05	-254.57	800.94	731.64	69.30	11.557		
10,350.00	10,318.11	10,384.51	10,352.60	37.09	33.85	-107.21	-230.42	-251.62	806.12	736.44	69.68	11.569		
10,400.00	10,360.01	10,423.58	10,391.46	37.21	34.00	-108.17	-233.52	-248.89	813.59	743.54	70.05	11.615		
10,450.00	10,399.38	10,459.91	10,427.59	37.32	34.14	-108.92	-236.36	-246.38	823.61	753.21	70.40	11.699		
10,500.00	10,435.92	10,493.25	10,460.75	37.42	34.27	-109.37	-238.94	-244.11	836.38	765.64	70.73	11.824		
10,550.00	10,469.35	10,527.64	10,494.96	37.51	34.41	-109.71	-241.55	-241.71	851.99	780.92	71.07	11.988		
10,600.00	10,499.41	10,558.26	10,525.41	37.59	34.53	-109.62	-243.81	-239.45	870.47	799.09	71.38	12.195		
10,650.00	10,525.87	10,584.75	10,551.75	37.66	34.63	-109.02	-245.72	-237.40	891.88	820.23	71.65	12.447		
10,700.00	10,548.54	11,622.41	11,239.60	37.74	37.40	-137.22	243.07	-86.94	912.13	851.68	60.45	15.090		
10,750.00	10,567.24	11,669.77	11,240.79	37.84	37.50	-137.25	290.37	-88.97	900.04	838.93	61.11	14.729		
10,800.00	10,581.83	11,714.46	11,241.61	37.97	37.61	-137.20	334.98	-91.47	891.33	829.61	61.72	14.441		
10,850.00	10,592.19	11,760.90	11,242.00	38.11	37.75	-137.03	381.31	-94.59	886.08	823.81	62.27	14.229		
10,900.00	10,598.26	11,818.09	11,242.22	38.25	37.96	-136.71	438.37	-98.58	883.91	821.08	62.84	14.066		
10,914.01	10,599.18	11,834.20	11,242.19	38.30	38.02	-136.63	454.43	-99.66	883.81	820.82	62.98	14.032		
10,944.69	10,600.00	11,866.35	11,242.04	38.39	38.16	-136.45	486.52	-101.80	884.35	821.09	63.26	13.979		
11,000.00	10,600.00	11,919.69	11,241.61	38.56	38.41	-136.27	539.71	-105.61	886.48	822.75	63.73	13.911		
11,100.00	10,600.00	12,016.21	11,240.35	38.91	38.94	-135.89	635.91	-113.39	890.63	825.96	64.67	13.772		
11,200.00	10,600.00	12,123.87	11,238.93	39.31	39.63	-135.47	743.23	-121.90	894.72	828.88	65.83	13.590		
11,300.00	10,600.00	12,218.44	11,238.59	39.76	40.33	-135.21	837.61	-127.96	898.45	831.57	66.89	13.432		
11,400.00	10,600.00	12,339.36	11,238.71	40.25	41.33	-134.98	958.37	-134.02	901.57	833.24	68.33	13.194		
11,500.00	10,600.00	12,438.99	11,239.76	40.79	42.26	-134.94	1,057.95	-136.71	903.71	834.18	69.53	12.997		
11,600.00	10,600.00	12,545.55	11,240.87	41.37	43.33	-134.96	1,164.49	-138.26	904.94	834.07	70.87	12.769		
11,700.00	10,600.00	12,641.93	11,242.73	41.99	44.35	-135.04	1,260.85	-139.00	906.32	834.23	72.09	12.572		
11,800.00	10,600.00	12,743.84	11,245.35	42.65	45.49	-135.18	1,362.73	-139.22	907.78	834.35	73.43	12.362		
11,900.00	10,600.00	12,838.26	11,247.82	43.35	46.60	-135.32	1,457.11	-139.19	909.12	834.41	74.70	12.170		
12,000.00	10,600.00	12,932.20	11,251.07	44.09	47.74	-135.46	1,551.00	-140.04	911.69	835.67	76.02	11.993		
12,100.00	10,600.00	13,039.99	11,253.80	44.86	49.10	-135.56	1,658.74	-141.32	913.81	836.13	77.68	11.764		
12,200.00	10,600.00	13,151.99	11,254.78	45.67	50.55	-135.56	1,770.72	-143.01	914.98	835.44	79.54	11.503		
12,300.00	10,600.00	13,244.46	11,254.60	46.50	51.79	-135.51	1,863.18	-144.64	915.58	834.48	81.11	11.289		
12,400.00	10,600.00	13,363.96	11,253.99	47.37	53.44	-135.41	1,982.65	-147.10	916.23	832.90	83.33	10.996		
12,500.00	10,600.00	13,460.02	11,252.23	48.26	54.80	-135.29	2,078.67	-148.71	915.58	830.46	85.12	10.757		
12,528.06	10,600.00	13,483.89	11,251.78	48.52	55.14	-135.26	2,102.53	-149.27	915.52	829.96	85.57	10.700		
12,600.00	10,600.00	13,545.90	11,250.75	49.18	56.04	-135.15	2,164.51	-151.24	915.91	829.17	86.75	10.559		
12,700.00	10,600.00	13,643.49	11,249.32	50.13	57.47	-134.94	2,262.00	-155.12	917.17	828.45	88.72	10.337		
12,800.00	10,600.00	13,739.40	11,247.80	51.10	58.91	-134.71	2,357.81	-159.47	918.75	828.02	90.73	10.127		
12,900.00	10,600.00	13,846.91	11,245.52	52.09	60.54	-134.42	2,465.17	-164.62	920.16	827.05	93.11	9.882		
13,000.00	10,600.00	13,927.23	11,244.89	53.10	61.78	-134.26	2,545.40	-168.38	922.39	827.63	94.76	9.734		
13,100.00	10,600.00	14,032.91	11,245.48	54.14	63.42	-134.13	2,650.98	-172.80	925.25	828.20	97.05	9.534		
13,200.00	10,600.00	14,125.00	11,246.30	55.19	64.88	-134.03	2,742.99	-176.56	928.27	829.29	98.99	9.378		
13,300.00	10,600.00	14,224.95	11,247.61	56.26	66.48	-133.93	2,842.84	-180.93	931.80	830.63	101.17	9.210		
13,400.00	10,600.00	14,354.93	11,248.03	57.35	68.58	-133.83	2,972.76	-184.59	933.51	829.34	104.17	8.962		
13,500.00	10,600.00	14,473.37	11,246.75	58.45	70.51	-133.79	3,091.19	-185.08	932.51	825.69	106.82	8.730		
13,600.00	10,600.00	14,569.40	11,244.82	59.57	72.10	-133.73	3,187.20	-185.25	930.72	821.76	108.96	8.542		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,660.26	11,243.25	60.71	73.61	-133.65	3,278.04	-186.27	929.81	818.80	111.01	8.376	
13,737.75	10,600.00	14,694.22	11,242.68	61.14	74.17	-133.60	3,311.98	-186.96	929.72	817.93	111.79	8.317	
13,800.00	10,600.00	14,749.16	11,242.18	61.85	75.09	-133.55	3,366.92	-188.14	929.97	816.93	113.04	8.227	
13,900.00	10,600.00	14,845.20	11,242.40	63.01	76.71	-133.50	3,462.93	-190.16	931.11	815.89	115.22	8.081	
14,000.00	10,600.00	14,944.63	11,242.90	64.18	78.40	-133.47	3,562.34	-192.10	932.34	814.85	117.49	7.935	
14,100.00	10,600.00	15,046.11	11,243.96	65.37	80.13	-133.49	3,663.80	-193.55	933.57	813.77	119.79	7.793	
14,200.00	10,600.00	15,147.02	11,244.48	66.56	81.85	-133.47	3,764.69	-195.26	934.62	812.49	122.13	7.652	
14,300.00	10,600.00	15,253.74	11,244.97	67.76	83.69	-133.47	3,871.41	-196.59	935.31	810.68	124.63	7.505	
14,400.00	10,600.00	15,344.12	11,245.80	68.98	85.26	-133.50	3,961.78	-197.50	936.14	809.49	126.65	7.392	
14,500.00	10,600.00	15,455.04	11,247.41	70.20	87.18	-133.58	4,072.68	-197.96	936.91	807.72	129.19	7.252	
14,600.00	10,600.00	15,557.76	11,248.61	71.43	88.98	-133.69	4,175.39	-197.46	936.83	805.36	131.47	7.126	
14,617.91	10,600.00	15,574.46	11,248.76	71.65	89.27	-133.70	4,192.09	-197.42	936.82	804.97	131.84	7.106	
14,700.00	10,600.00	15,652.66	11,249.56	72.67	90.64	-133.76	4,270.29	-197.54	937.04	803.45	133.60	7.014	
14,800.00	10,600.00	15,753.32	11,249.93	73.92	92.41	-133.77	4,370.94	-198.44	937.42	801.45	135.97	6.894	
14,900.00	10,600.00	15,851.22	11,249.79	75.17	94.14	-133.73	4,468.83	-199.80	937.79	799.46	138.33	6.779	
15,000.00	10,600.00	15,948.19	11,249.56	76.44	95.86	-133.66	4,565.78	-201.90	938.66	797.93	140.73	6.670	
15,100.00	10,600.00	16,051.53	11,248.27	77.70	97.70	-133.52	4,669.07	-204.83	939.32	795.88	143.44	6.549	
15,200.00	10,600.00	16,134.00	11,246.86	78.98	99.17	-133.37	4,751.49	-207.38	940.02	794.49	145.53	6.459 SF	
15,300.00	10,600.00	16,134.00	11,246.86	80.26	99.17	-133.37	4,751.49	-207.38	947.71	803.49	144.22	6.571	
15,400.00	10,600.00	16,134.00	11,246.86	81.55	99.17	-133.37	4,751.49	-207.38	965.75	823.91	141.85	6.809	
15,484.47	10,600.00	16,134.00	11,246.86	82.64	99.17	-133.37	4,751.49	-207.38	988.65	849.50	139.15	7.105	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	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	89.59	7.24	1,017.49	1,017.66							
100.00	100.00	93.72	93.72	0.52	0.14	89.58	7.46	1,017.00	1,017.08	1,016.43	0.65	1,558.529				
200.00	200.00	197.58	197.57	0.70	0.44	89.54	8.18	1,015.68	1,015.82	1,014.67	1.14	887.730				
300.00	300.00	303.99	303.95	0.99	0.82	89.48	9.12	1,013.79	1,014.05	1,012.24	1.81	559.818				
400.00	400.00	398.06	398.01	1.31	1.16	89.43	10.16	1,012.13	1,012.29	1,009.82	2.47	409.835				
500.00	500.00	490.06	490.00	1.65	1.49	89.37	11.14	1,011.12	1,011.21	1,008.07	3.14	322.478				
600.00	600.00	584.92	584.85	1.99	1.83	89.32	12.02	1,010.73	1,010.80	1,006.98	3.82	264.797				
647.25	647.25	630.32	630.25	2.15	1.99	89.30	12.42	1,010.69	1,010.76	1,006.62	4.14	244.032				
700.00	700.00	681.56	681.49	2.34	2.17	89.27	12.83	1,010.72	1,010.80	1,006.30	4.51	224.350				
800.00	800.00	778.70	778.62	2.69	2.51	89.24	13.47	1,010.99	1,011.09	1,005.90	5.20	194.575				
900.00	900.00	876.69	876.61	3.04	2.85	89.20	14.15	1,011.51	1,011.63	1,005.74	5.89	171.718				
1,000.00	1,000.00	979.12	979.04	3.40	3.21	89.16	14.86	1,012.05	1,012.17	1,005.56	6.61	153.243				
1,100.00	1,100.00	1,085.06	1,084.98	3.75	3.59	89.13	15.40	1,012.09	1,012.21	1,004.87	7.34	137.973				
1,200.00	1,200.00	1,184.92	1,184.83	4.11	3.94	89.11	15.78	1,011.88	1,012.01	1,003.96	8.05	125.734				
1,300.00	1,300.00	1,284.78	1,284.69	4.46	4.30	89.08	16.24	1,011.73	1,011.86	1,003.10	8.76	115.485				
1,400.00	1,400.00	1,385.46	1,385.37	4.82	4.66	89.06	16.60	1,011.50	1,011.64	1,002.16	9.48	106.733				
1,500.00	1,500.00	1,485.46	1,485.37	5.18	5.02	89.03	17.12	1,011.26	1,011.41	1,001.21	10.19	99.230				
1,600.00	1,600.00	1,586.95	1,586.85	5.53	5.38	88.99	17.88	1,010.95	1,011.12	1,000.20	10.91	92.653				
1,700.00	1,700.00	1,686.49	1,686.39	5.89	5.74	88.92	19.05	1,010.55	1,010.74	999.11	11.63	86.932				
1,800.00	1,800.00	1,785.68	1,785.57	6.25	6.09	88.83	20.63	1,010.23	1,010.44	998.10	12.34	81.887				
1,900.00	1,900.00	1,884.23	1,884.10	6.61	6.45	88.74	22.25	1,010.02	1,010.26	997.21	13.05	77.414				
2,000.00	2,000.00	1,984.18	1,984.04	6.96	6.81	88.66	23.62	1,009.88	1,010.16	996.39	13.77	73.382				
2,100.00	2,099.99	2,084.18	2,084.04	7.31	7.16	-6.89	24.76	1,009.75	1,009.19	994.72	14.47	69.736				
2,200.00	2,199.96	2,184.79	2,184.64	7.65	7.52	-6.98	25.91	1,009.58	1,006.45	991.28	15.17	66.338				
2,300.00	2,299.86	2,284.00	2,283.85	7.99	7.88	-7.08	27.03	1,009.43	1,002.00	986.13	15.87	63.146				
2,399.87	2,399.54	2,384.69	2,384.52	8.34	8.24	-7.20	28.20	1,009.25	995.81	979.24	16.57	60.095				
2,500.00	2,499.43	2,485.85	2,485.68	8.69	8.60	-7.32	29.46	1,008.94	988.62	971.34	17.28	57.221				
2,600.00	2,599.19	2,586.76	2,586.58	9.03	8.97	-7.45	30.79	1,008.51	981.31	963.33	17.98	54.568				
2,700.00	2,698.94	2,687.53	2,687.34	9.39	9.33	-7.59	32.23	1,007.95	973.90	955.21	18.69	52.107				
2,800.00	2,798.70	2,788.51	2,788.30	9.74	9.69	-7.75	33.94	1,007.27	966.38	946.98	19.40	49.815				
2,900.00	2,898.46	2,888.32	2,888.08	10.09	10.05	-7.94	36.18	1,006.46	958.75	938.64	20.11	47.686				
3,000.00	2,998.21	2,987.57	2,987.30	10.45	10.41	-8.14	38.53	1,005.71	951.20	930.38	20.81	45.706				
3,100.00	3,097.97	3,086.45	3,086.15	10.80	10.76	-8.35	40.96	1,004.99	943.69	922.17	21.52	43.858				
3,200.00	3,197.73	3,184.15	3,183.82	11.16	11.11	-8.56	43.30	1,004.42	936.34	914.12	22.22	42.141				
3,300.00	3,297.48	3,281.74	3,281.38	11.52	11.46	-8.77	45.67	1,004.09	929.23	906.31	22.92	40.540				
3,400.00	3,397.24	3,380.05	3,379.66	11.88	11.82	-8.98	48.09	1,003.94	922.33	898.71	23.63	39.037				
3,500.00	3,497.00	3,479.06	3,478.64	12.24	12.17	-9.20	50.52	1,003.89	915.56	891.22	24.34	37.622				
3,600.00	3,596.75	3,578.64	3,578.18	12.60	12.53	-9.43	52.97	1,003.89	908.84	883.79	25.05	36.286				
3,700.00	3,696.51	3,678.04	3,677.56	12.96	12.89	-9.66	55.42	1,003.91	902.16	876.40	25.76	35.025				
3,800.00	3,796.27	3,777.53	3,777.02	13.32	13.24	-9.88	57.79	1,003.97	895.52	869.05	26.47	33.832				
3,900.00	3,896.02	3,878.73	3,878.20	13.68	13.61	-10.09	59.80	1,003.99	888.83	861.64	27.19	32.693				
4,000.00	3,995.78	3,980.27	3,979.73	14.04	13.97	-10.26	61.23	1,003.85	881.93	854.03	27.91	31.605				
4,100.00	4,095.54	4,079.55	4,079.01	14.40	14.33	-10.41	62.25	1,003.68	874.99	846.38	28.62	30.576				
4,200.00	4,195.29	4,179.11	4,178.56	14.77	14.68	-10.55	63.01	1,003.58	868.11	838.78	29.33	29.599				
4,300.00	4,295.05	4,279.84	4,279.29	15.13	15.04	-10.66	63.47	1,003.47	861.18	831.13	30.04	28.663				
4,400.00	4,394.81	4,380.37	4,379.82	15.49	15.40	-10.78	63.89	1,003.20	854.10	823.34	30.76	27.767				
4,500.00	4,494.56	4,474.70	4,474.15	15.86	15.73	-10.88	64.14	1,003.10	847.18	815.73	31.45	26.937				
4,600.00	4,594.32	4,562.58	4,562.02	16.22	16.03	-10.92	63.64	1,004.13	841.44	809.33	32.11	26.205				
4,700.00	4,694.08	4,652.92	4,652.31	16.59	16.34	-10.89	62.24	1,006.53	837.08	804.31	32.77	25.544				
4,800.00	4,793.83	4,747.11	4,746.43	16.95	16.65	-10.81	60.11	1,009.74	833.41	799.98	33.43	24.928				
4,900.00	4,893.59	4,834.11	4,833.28	17.32	16.93	-10.67	57.38	1,013.85	830.98	796.92	34.06	24.396				
5,000.00	4,993.35	4,922.11	4,921.03	17.68	17.22	-10.48	53.93	1,019.48	830.14	795.44	34.69	23.928				

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,100.00	5,093.10	5,021.01	5,019.62	18.05	17.55	-10.26	50.13	1,026.48	830.01	794.63	35.38	23.463		
5,200.00	5,192.86	5,122.13	5,120.42	18.42	17.89	-10.08	46.86	1,033.69	829.99	793.92	36.07	23.010		
5,300.00	5,292.62	5,230.54	5,228.57	18.78	18.26	-9.94	44.02	1,040.58	829.25	792.44	36.81	22.531		
5,400.00	5,392.37	5,336.18	5,334.03	19.15	18.62	-9.83	41.66	1,046.41	827.71	790.18	37.53	22.057		
5,500.00	5,492.13	5,438.79	5,436.49	19.52	18.97	-9.75	39.59	1,051.51	825.64	787.41	38.23	21.594		
5,600.00	5,591.89	5,539.85	5,537.42	19.88	19.32	-9.67	37.63	1,056.33	823.38	784.44	38.94	21.146		
5,700.00	5,691.64	5,640.97	5,638.42	20.25	19.67	-9.60	35.78	1,061.01	820.98	781.34	39.64	20.710		
5,800.00	5,791.40	5,742.25	5,739.57	20.62	20.02	-9.54	34.01	1,065.51	818.41	778.06	40.35	20.284		
5,900.00	5,891.16	5,840.58	5,837.79	20.98	20.36	-9.48	32.31	1,069.94	815.89	774.85	41.04	19.880		
6,000.00	5,990.91	5,940.55	5,937.64	21.35	20.70	-9.42	30.64	1,074.54	813.49	771.75	41.74	19.488		
6,100.00	6,090.67	6,041.91	6,038.89	21.72	21.05	-9.37	29.06	1,079.09	810.98	768.53	42.45	19.104		
6,200.00	6,190.42	6,143.49	6,140.37	22.09	21.41	-9.32	27.61	1,083.46	808.29	765.13	43.16	18.727		
6,300.00	6,290.18	6,245.26	6,242.04	22.45	21.76	-9.30	26.35	1,087.60	805.38	761.50	43.87	18.357		
6,400.00	6,389.94	6,346.72	6,343.42	22.82	22.12	-9.28	25.26	1,091.50	802.26	757.68	44.59	17.994		
6,500.00	6,489.69	6,447.34	6,443.97	23.19	22.47	-9.27	24.17	1,095.22	798.99	753.70	45.29	17.640		
6,600.00	6,589.45	6,548.66	6,545.21	23.56	22.82	-9.25	23.10	1,098.88	795.64	749.64	46.01	17.295		
6,700.00	6,689.21	6,650.47	6,646.96	23.93	23.18	-9.26	22.22	1,102.31	792.06	745.34	46.72	16.954		
6,800.00	6,788.96	6,752.91	6,749.35	24.29	23.54	-9.27	21.40	1,105.48	788.21	740.78	47.44	16.616		
6,900.00	6,888.72	6,853.08	6,849.48	24.66	23.89	-9.28	20.64	1,108.38	784.16	736.01	48.14	16.288		
7,000.00	6,988.48	6,956.28	6,952.63	25.03	24.25	-9.29	19.85	1,111.17	779.92	731.05	48.86	15.961		
7,100.00	7,088.23	7,056.47	7,052.78	25.40	24.60	-9.31	19.05	1,113.64	775.44	725.87	49.57	15.643		
7,200.00	7,187.99	7,159.02	7,155.31	25.77	24.96	-9.32	18.20	1,115.96	770.76	720.47	50.29	15.327		
7,300.00	7,287.75	7,260.69	7,256.95	26.14	25.32	-9.33	17.30	1,117.96	765.77	714.77	51.00	15.015		
7,400.00	7,387.50	7,361.03	7,357.27	26.50	25.67	-9.31	16.11	1,119.82	760.66	708.95	51.71	14.710		
7,500.00	7,487.26	7,461.64	7,457.85	26.87	26.01	-9.27	14.53	1,121.64	755.48	703.06	52.42	14.413		
7,600.00	7,587.02	7,562.16	7,558.34	27.24	26.36	-9.21	12.71	1,123.34	750.16	697.04	53.12	14.121		
7,700.00	7,686.77	7,661.34	7,657.49	27.61	26.71	-9.13	10.67	1,125.06	744.88	691.05	53.83	13.838		
7,800.00	7,786.53	7,760.42	7,756.52	27.98	27.05	-9.03	8.37	1,126.89	739.69	685.16	54.53	13.565		
7,900.00	7,886.29	7,859.70	7,855.75	28.35	27.39	-8.91	5.90	1,128.84	734.61	679.37	55.23	13.300		
8,000.00	7,986.04	7,959.06	7,955.05	28.72	27.74	-8.76	3.06	1,130.88	729.59	673.65	55.94	13.043		
8,100.00	8,085.80	8,059.32	8,055.24	29.09	28.09	-8.60	0.04	1,132.97	724.61	667.96	56.65	12.792		
8,200.00	8,185.56	8,161.06	8,156.91	29.46	28.44	-8.42	-3.20	1,134.94	719.47	662.12	57.36	12.544		
8,300.00	8,285.31	8,260.70	8,256.47	29.83	28.79	-8.21	-6.72	1,136.71	714.17	656.11	58.06	12.300		
8,400.00	8,385.07	8,359.95	8,355.64	30.20	29.13	-7.97	-10.51	1,138.58	708.97	650.21	58.77	12.064		
8,500.00	8,484.83	8,459.57	8,455.16	30.56	29.48	-7.73	-14.34	1,140.51	703.84	644.37	59.47	11.835		
8,600.00	8,584.58	8,559.35	8,554.85	30.93	29.83	-7.49	-18.15	1,142.46	698.74	638.56	60.18	11.611		
8,700.00	8,684.34	8,659.77	8,655.18	31.30	30.18	-7.24	-22.01	1,144.38	693.61	632.72	60.89	11.392		
8,800.00	8,784.10	8,759.93	8,755.24	31.67	30.53	-6.99	-25.81	1,146.23	688.42	626.83	61.59	11.177		
8,900.00	8,883.85	8,860.20	8,855.44	32.04	30.88	-6.76	-29.39	1,148.03	683.21	620.90	62.30	10.966		
9,000.00	8,983.61	8,961.90	8,957.07	32.41	31.24	-6.56	-32.53	1,149.66	677.81	614.80	63.02	10.756		
9,100.00	9,083.37	9,063.47	9,058.59	32.78	31.59	-6.37	-35.61	1,151.01	672.16	608.44	63.73	10.547		
9,200.00	9,183.12	9,166.51	9,161.57	33.15	31.95	-6.13	-39.09	1,152.08	666.22	601.78	64.44	10.338		
9,300.00	9,282.88	9,269.14	9,264.14	33.52	32.31	-5.91	-42.41	1,152.47	659.64	594.49	65.15	10.125		
9,400.00	9,382.64	9,367.56	9,362.50	33.89	32.65	-5.67	-45.86	1,152.83	653.04	587.19	65.86	9.916		
9,428.07	9,410.64	9,394.97	9,389.89	33.99	32.74	-5.60	-46.87	1,152.97	651.24	585.19	66.05	9.859		
9,500.00	9,482.43	9,465.09	9,459.95	34.26	32.99	-5.37	-49.79	1,153.47	647.43	580.87	66.56	9.727		
9,600.00	9,582.36	9,562.64	9,557.36	34.62	33.33	-4.93	-54.99	1,154.46	644.71	577.44	67.26	9.585		
9,642.09	9,624.44	9,603.98	9,598.63	34.76	33.47	-4.74	-57.25	1,154.98	644.45	576.90	67.55	9.540		
9,694.65	9,677.00	9,662.08	9,656.64	34.95	33.68	91.02	-60.47	1,155.48	644.59	576.66	67.93	9.489		
9,700.00	9,682.35	9,667.99	9,662.54	34.97	33.70	91.05	-60.80	1,155.50	644.62	576.65	67.97	9.484		
9,800.00	9,782.35	9,777.75	9,772.11	35.31	34.08	91.62	-67.19	1,155.00	644.29	575.63	68.67	9.383		
9,900.00	9,882.35	9,876.77	9,870.96	35.65	34.42	92.12	-72.77	1,153.78	643.24	573.89	69.36	9.275		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,000.00	9,982.35	9,974.56	9,968.64	35.99	34.76	92.54	-77.44	1,152.92	642.55	572.51	70.05	9.173		
10,019.26	10,001.61	9,993.41	9,987.47	36.05	34.83	92.61	-78.24	1,152.79	642.46	572.28	70.18	9.155 CC		
10,044.69	10,027.04	10,013.11	10,007.15	36.14	34.90	92.68	-79.08	1,152.81	642.53	572.18	70.35	9.133		
10,050.00	10,032.35	10,017.63	10,011.67	36.16	34.91	93.12	-79.27	1,152.83	642.55	572.17	70.38	9.129		
10,100.00	10,082.26	10,060.10	10,054.10	36.32	35.06	93.40	-81.00	1,153.23	643.28	572.57	70.71	9.097		
10,150.00	10,131.76	10,109.12	10,103.08	36.49	35.23	94.03	-82.87	1,154.06	644.71	573.65	71.05	9.074		
10,200.00	10,180.46	10,159.75	10,153.68	36.65	35.41	95.00	-84.51	1,154.78	646.47	575.08	71.39	9.055		
10,250.00	10,227.98	10,206.65	10,200.55	36.81	35.58	96.15	-85.86	1,155.37	648.87	577.15	71.71	9.048		
10,300.00	10,273.98	10,251.63	10,245.51	36.95	35.74	97.44	-87.14	1,155.96	652.30	580.27	72.03	9.056		
10,350.00	10,318.11	10,293.18	10,287.04	37.09	35.88	98.74	-88.31	1,156.58	657.14	584.81	72.33	9.085		
10,400.00	10,360.01	10,332.22	10,326.06	37.21	36.02	99.98	-89.41	1,157.29	663.80	591.18	72.63	9.140		
10,450.00	10,399.38	10,369.46	10,363.28	37.32	36.15	101.13	-90.44	1,158.08	672.61	599.69	72.91	9.225		
10,500.00	10,435.92	10,404.74	10,398.54	37.42	36.28	102.09	-91.41	1,158.86	683.79	610.60	73.19	9.342		
10,550.00	10,469.35	10,436.89	10,430.66	37.51	36.39	102.73	-92.28	1,159.59	697.60	624.14	73.46	9.496		
10,600.00	10,499.41	10,465.66	10,459.41	37.59	36.50	102.97	-93.04	1,160.26	714.23	640.51	73.72	9.688		
10,650.00	10,525.87	10,493.06	10,486.81	37.66	36.56	102.86	-93.71	1,160.90	733.75	659.81	73.94	9.923		
10,700.00	10,548.54	10,517.84	10,511.58	37.74	36.61	102.28	-94.15	1,161.46	756.11	681.97	74.14	10.199		
10,750.00	10,567.24	10,538.69	10,532.42	37.84	36.64	101.07	-94.40	1,161.91	781.23	706.90	74.32	10.511		
10,800.00	10,581.83	11,124.49	11,015.80	37.97	36.85	127.49	175.95	1,146.84	808.49	742.89	65.60	12.324		
10,850.00	10,592.19	11,258.71	11,070.56	38.11	37.15	129.04	297.89	1,138.73	813.16	748.99	64.17	12.672		
10,900.00	10,598.26	11,428.99	11,097.35	38.25	37.79	129.45	465.47	1,134.21	812.27	748.52	63.76	12.740		
10,933.85	10,599.90	11,471.52	11,099.57	38.35	38.00	129.54	507.92	1,133.02	811.82	747.88	63.94	12.697		
10,944.69	10,600.00	11,485.13	11,100.21	38.39	38.06	129.58	521.51	1,132.58	811.87	747.88	63.98	12.688		
11,000.00	10,600.00	11,546.02	11,102.84	38.56	38.39	129.80	582.29	1,130.28	812.09	747.86	64.23	12.644		
11,100.00	10,600.00	11,645.48	11,107.39	38.91	39.00	130.21	681.56	1,125.95	812.26	747.54	64.71	12.551		
11,200.00	10,600.00	11,758.86	11,112.05	39.31	39.79	130.67	794.71	1,120.53	811.86	746.52	65.34	12.426		
11,300.00	10,600.00	11,853.28	11,115.27	39.76	40.53	131.02	888.97	1,115.90	810.93	744.90	66.03	12.281		
11,400.00	10,600.00	11,951.92	11,119.61	40.25	41.38	131.46	987.37	1,110.71	810.42	743.64	66.79	12.135		
11,500.00	10,600.00	12,056.91	11,123.11	40.79	42.36	131.85	1,092.17	1,105.58	809.53	741.83	67.69	11.959		
11,600.00	10,600.00	12,151.00	11,125.08	41.37	43.29	132.08	1,186.18	1,102.28	808.86	740.16	68.70	11.773		
11,658.75	10,600.00	12,207.23	11,126.07	41.73	43.88	132.18	1,242.39	1,100.85	808.77	739.41	69.37	11.659		
11,700.00	10,600.00	12,246.95	11,126.72	41.99	44.30	132.24	1,282.10	1,100.03	808.81	738.97	69.85	11.580		
11,800.00	10,600.00	12,343.27	11,128.45	42.65	45.37	132.38	1,378.38	1,098.27	809.21	738.13	71.08	11.385		
11,900.00	10,600.00	12,443.74	11,130.89	43.35	46.53	132.56	1,478.80	1,096.48	810.09	737.70	72.38	11.192		
12,000.00	10,600.00	12,562.33	11,131.31	44.09	47.97	132.64	1,597.37	1,094.42	809.60	735.63	73.96	10.946		
12,100.00	10,600.00	12,678.51	11,128.13	44.86	49.43	132.54	1,713.48	1,092.09	806.80	731.07	75.72	10.655		
12,200.00	10,600.00	12,781.63	11,124.18	45.67	50.79	132.43	1,816.49	1,089.35	802.79	725.33	77.46	10.364		
12,300.00	10,600.00	12,878.95	11,121.53	46.50	52.10	132.43	1,913.71	1,085.84	798.83	719.70	79.13	10.095		
12,400.00	10,600.00	12,972.86	11,120.77	47.37	53.41	132.56	2,007.52	1,081.50	795.41	714.69	80.72	9.854		
12,500.00	10,600.00	13,074.96	11,121.01	48.26	54.86	132.80	2,109.48	1,076.21	792.30	709.96	82.35	9.621		
12,600.00	10,600.00	13,174.03	11,121.38	49.18	56.31	133.05	2,208.40	1,070.83	789.12	705.14	83.98	9.397		
12,700.00	10,600.00	13,281.47	11,121.67	50.13	57.91	133.35	2,315.64	1,064.29	785.39	699.72	85.67	9.168		
12,800.00	10,600.00	13,380.98	11,122.05	51.10	59.42	133.67	2,414.93	1,057.63	781.32	694.02	87.31	8.949		
12,900.00	10,600.00	13,480.85	11,122.62	52.09	60.96	134.01	2,514.55	1,050.75	777.28	688.33	88.95	8.738		
13,000.00	10,600.00	13,580.51	11,123.16	53.10	62.52	134.35	2,613.98	1,043.98	773.30	682.69	90.61	8.534		
13,100.00	10,600.00	13,679.82	11,123.85	54.14	64.10	134.71	2,713.05	1,037.04	769.33	677.06	92.27	8.338		
13,200.00	10,600.00	13,773.30	11,123.81	55.19	65.59	134.96	2,806.37	1,031.63	765.73	671.73	94.00	8.146		
13,300.00	10,600.00	13,864.91	11,123.66	56.26	67.07	135.10	2,897.92	1,028.10	763.38	667.57	95.82	7.967		
13,400.00	10,600.00	13,960.73	11,123.30	57.35	68.62	135.19	2,993.69	1,025.40	761.65	663.89	97.76	7.791		
13,500.00	10,600.00	14,062.72	11,123.19	58.45	70.29	135.27	3,095.65	1,023.08	760.50	660.71	99.79	7.621		
13,600.00	10,600.00	14,175.42	11,121.98	59.57	72.16	135.36	3,208.28	1,019.35	757.91	655.97	101.93	7.435		
13,700.00	10,600.00	14,286.72	11,119.56	60.71	74.02	135.45	3,319.45	1,014.56	753.86	649.78	104.08	7.243		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
13,800.00	10,600.00	14,392.58	11,115.76	61.85	75.81	135.46	3,425.14	1,009.68	748.58	642.31	106.27	7.044	
13,900.00	10,600.00	14,498.94	11,111.27	63.01	77.62	135.47	3,531.26	1,004.30	742.54	634.05	108.49	6.844	
14,000.00	10,600.00	14,607.31	11,106.14	64.18	79.48	135.52	3,639.31	997.72	735.41	624.72	110.70	6.643	
14,100.00	10,600.00	14,709.24	11,100.61	65.37	81.25	135.55	3,740.87	990.99	727.43	614.54	112.89	6.444	
14,200.00	10,600.00	14,800.81	11,096.77	66.56	82.85	135.67	3,832.12	984.36	719.89	604.97	114.92	6.264	
14,300.00	10,600.00	14,886.75	11,094.53	67.76	84.35	135.83	3,917.84	978.81	714.03	597.15	116.87	6.109	
14,400.00	10,600.00	14,976.38	11,093.49	68.98	85.92	136.01	4,007.34	974.08	710.01	591.19	118.81	5.976	
14,500.00	10,600.00	15,083.29	11,092.31	70.20	87.80	136.23	4,114.09	968.32	705.98	585.14	120.84	5.842	
14,600.00	10,600.00	15,183.52	11,091.10	71.43	89.58	136.48	4,214.12	962.22	701.41	578.62	122.79	5.712	
14,700.00	10,600.00	15,281.42	11,090.47	72.67	91.32	136.76	4,311.84	956.17	697.19	572.53	124.66	5.593	
14,800.00	10,600.00	15,384.59	11,089.95	73.92	93.16	137.10	4,414.78	949.32	692.79	566.30	126.49	5.477	
14,900.00	10,600.00	15,486.05	11,089.36	75.17	94.98	137.47	4,515.97	942.00	687.97	559.71	128.26	5.364	
15,000.00	10,600.00	15,583.68	11,089.01	76.44	96.74	137.85	4,613.33	934.81	683.23	553.26	129.96	5.257	
15,100.00	10,600.00	15,679.18	11,089.43	77.70	98.47	138.27	4,708.57	927.72	679.07	547.51	131.57	5.161	
15,171.83	10,600.00	15,725.00	11,089.77	78.62	99.30	138.48	4,754.27	924.36	676.81	544.23	132.58	5.105 ES	
15,200.00	10,600.00	15,725.00	11,089.77	78.98	99.30	138.48	4,754.27	924.36	677.40	544.65	132.75	5.103 SF	
15,300.00	10,600.00	15,725.00	11,089.77	80.26	99.30	138.48	4,754.27	924.36	688.84	556.68	132.17	5.212	
15,400.00	10,600.00	15,725.00	11,089.77	81.55	99.30	138.48	4,754.27	924.36	714.24	584.32	129.92	5.497	
15,484.47	10,600.00	15,725.00	11,089.77	82.64	99.30	138.48	4,754.27	924.36	745.53	618.44	127.09	5.866	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	0.50	0.00	85.93	164.65	2,316.13	2,322.08					
100.00	100.00	91.61	91.61	0.52	0.13	85.94	164.34	2,315.89	2,321.75	2,321.10	0.65	3,567.144		
200.00	200.00	214.92	214.91	0.70	0.49	85.97	163.02	2,314.68	2,320.70	2,319.51	1.20	1,938.487		
300.00	300.00	319.16	319.12	0.99	0.87	86.01	161.28	2,312.90	2,318.88	2,317.02	1.86	1,248.402		
400.00	400.00	413.29	413.22	1.31	1.21	86.05	159.49	2,311.46	2,317.23	2,314.71	2.52	920.215		
500.00	500.00	506.58	506.49	1.65	1.55	86.09	157.71	2,310.30	2,315.85	2,312.66	3.19	725.714		
600.00	600.00	612.04	611.92	1.99	1.93	86.14	155.82	2,309.14	2,314.64	2,310.73	3.92	591.158		
700.00	700.00	708.61	708.47	2.34	2.28	86.17	154.33	2,307.90	2,313.25	2,308.64	4.61	501.596		
800.00	800.00	808.37	808.22	2.69	2.64	86.21	152.99	2,306.69	2,311.96	2,306.64	5.32	434.565		
900.00	900.00	909.21	909.05	3.04	3.00	86.22	152.23	2,305.40	2,310.63	2,304.60	6.03	382.965		
1,000.00	1,000.00	1,005.18	1,005.00	3.40	3.34	86.23	151.95	2,304.20	2,309.37	2,302.64	6.73	343.236		
1,100.00	1,100.00	1,099.09	1,098.90	3.75	3.67	86.23	151.87	2,303.22	2,308.31	2,300.90	7.41	311.351		
1,200.00	1,200.00	1,191.84	1,191.66	4.11	3.99	86.22	151.96	2,302.52	2,307.57	2,299.47	8.09	285.087		
1,300.00	1,300.00	1,290.46	1,290.27	4.46	4.34	86.22	152.28	2,302.00	2,307.07	2,298.27	8.79	262.366		
1,400.00	1,400.00	1,394.63	1,394.44	4.82	4.70	86.20	153.05	2,301.30	2,306.44	2,296.93	9.51	242.528		
1,500.00	1,500.00	1,494.58	1,494.38	5.18	5.04	86.16	154.25	2,300.48	2,305.70	2,295.49	10.21	225.802		
1,600.00	1,600.00	1,592.63	1,592.41	5.53	5.38	86.12	155.96	2,299.71	2,305.03	2,294.13	10.91	211.366		
1,700.00	1,700.00	1,687.75	1,687.51	5.89	5.71	86.07	157.95	2,299.06	2,304.50	2,292.91	11.59	198.841		
1,800.00	1,800.00	1,787.82	1,787.55	6.25	6.05	86.02	160.04	2,298.53	2,304.12	2,291.82	12.29	187.448		
1,900.00	1,900.00	1,879.72	1,879.43	6.61	6.37	85.97	162.04	2,298.14	2,303.85	2,290.88	12.97	177.672		
1,914.55	1,914.55	1,892.84	1,892.55	6.66	6.42	85.96	162.31	2,298.12	2,303.84	2,290.78	13.06	176.347		
2,000.00	2,000.00	1,978.60	1,978.29	6.96	6.71	85.91	164.17	2,297.99	2,303.84	2,290.18	13.67	168.576		
2,100.00	2,099.99	2,086.05	2,085.71	7.31	7.09	-9.63	166.61	2,297.64	2,302.83	2,288.44	14.39	160.050		
2,200.00	2,199.96	2,186.58	2,186.21	7.65	7.44	-9.71	169.03	2,297.11	2,299.90	2,284.82	15.08	152.520		
2,300.00	2,299.86	2,279.81	2,279.42	7.99	7.76	-9.79	171.27	2,296.76	2,295.40	2,279.66	15.75	145.768		
2,399.87	2,399.54	2,378.33	2,377.91	8.34	8.11	-9.88	173.53	2,296.56	2,289.36	2,272.93	16.43	139.305		
2,500.00	2,499.43	2,479.00	2,478.54	8.69	8.46	-9.98	176.11	2,296.31	2,282.43	2,265.30	17.13	133.227		
2,600.00	2,599.19	2,576.66	2,576.17	9.03	8.80	-10.07	178.69	2,296.13	2,275.59	2,257.77	17.82	127.697		
2,700.00	2,698.94	2,678.50	2,677.98	9.39	9.16	-10.17	181.23	2,295.87	2,268.67	2,250.15	18.53	122.463		
2,800.00	2,798.70	2,772.72	2,772.17	9.74	9.49	-10.26	183.55	2,295.77	2,261.90	2,242.70	19.21	117.776		
2,900.00	2,898.46	2,868.85	2,868.27	10.09	9.83	-10.35	186.14	2,295.81	2,255.31	2,235.41	19.89	113.373		
3,000.00	2,998.21	2,962.75	2,962.12	10.45	10.16	-10.45	188.88	2,296.04	2,248.94	2,228.37	20.57	109.312		
3,100.00	3,097.97	3,057.23	3,056.55	10.80	10.50	-10.56	191.78	2,296.49	2,242.83	2,221.58	21.26	105.509		
3,200.00	3,197.73	3,152.88	3,152.16	11.16	10.84	-10.66	194.84	2,297.16	2,236.95	2,215.01	21.95	101.929		
3,300.00	3,297.48	3,249.51	3,248.73	11.52	11.18	-10.78	198.23	2,297.92	2,231.20	2,208.56	22.64	98.552		
3,400.00	3,397.24	3,344.53	3,343.68	11.88	11.51	-10.90	201.61	2,298.88	2,225.68	2,202.36	23.33	95.405		
3,500.00	3,497.00	3,442.16	3,441.23	12.24	11.86	-11.02	205.31	2,299.95	2,220.29	2,196.26	24.03	92.404		
3,600.00	3,596.75	3,538.72	3,537.70	12.60	12.20	-11.15	209.15	2,301.13	2,215.05	2,190.32	24.72	89.589		
3,700.00	3,696.51	3,632.29	3,631.20	12.96	12.54	-11.27	212.74	2,302.42	2,209.97	2,184.56	25.41	86.970		
3,800.00	3,796.27	3,722.51	3,721.33	13.32	12.86	-11.40	216.37	2,304.06	2,205.34	2,179.26	26.08	84.545		
3,900.00	3,896.02	3,817.63	3,816.36	13.68	13.19	-11.52	220.16	2,306.07	2,201.02	2,174.24	26.78	82.198		
4,000.00	3,995.78	3,913.46	3,912.09	14.04	13.53	-11.65	223.79	2,308.29	2,196.90	2,169.42	27.47	79.968		
4,100.00	4,095.54	4,011.35	4,009.89	14.40	13.88	-11.77	227.29	2,310.75	2,192.95	2,164.77	28.17	77.834		
4,200.00	4,195.29	4,111.76	4,110.21	14.77	14.24	-11.89	230.84	2,313.26	2,189.00	2,160.11	28.89	75.778		
4,300.00	4,295.05	4,214.20	4,212.56	15.13	14.60	-12.00	234.09	2,315.86	2,185.05	2,155.44	29.61	73.802		
4,400.00	4,394.81	4,318.30	4,316.58	15.49	14.97	-12.12	237.30	2,318.25	2,180.86	2,150.53	30.33	71.896		
4,500.00	4,494.56	4,397.53	4,395.75	15.86	15.25	-12.21	239.75	2,320.24	2,176.93	2,145.97	30.97	70.296		
4,600.00	4,594.32	4,464.71	4,462.85	16.22	15.49	-12.28	241.65	2,322.88	2,174.37	2,142.81	31.55	68.914		
4,700.00	4,694.08	4,537.00	4,535.00	16.59	15.74	-12.32	242.87	2,327.11	2,173.46	2,141.32	32.15	67.607		
4,711.02	4,705.07	4,537.00	4,535.00	16.63	15.74	-12.32	242.87	2,327.11	2,173.44	2,141.25	32.18	67.536		
4,800.00	4,793.83	4,602.13	4,599.95	16.95	15.97	-12.35	243.34	2,331.93	2,173.98	2,141.27	32.71	66.467		
4,900.00	4,893.59	4,688.65	4,686.17	17.32	16.27	-12.36	243.55	2,339.15	2,175.47	2,142.12	33.35	65.228		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	4,993.35	4,769.38	4,766.58	17.68	16.55	-12.37	243.42	2,346.34	2,177.51	2,143.54	33.97	64.103		
5,100.00	5,093.10	4,841.28	4,838.09	18.05	16.80	-12.35	242.47	2,353.73	2,180.77	2,146.22	34.54	63.131		
5,200.00	5,192.86	4,918.00	4,914.26	18.42	17.07	-12.30	240.66	2,362.69	2,185.26	2,150.13	35.13	62.198		
5,300.00	5,292.62	4,992.76	4,988.37	18.78	17.33	-12.25	238.62	2,372.28	2,190.86	2,155.15	35.71	61.348		
5,400.00	5,392.37	5,116.13	5,110.67	19.15	17.77	-12.17	235.55	2,388.25	2,196.70	2,160.18	36.52	60.148		
5,500.00	5,492.13	5,250.79	5,244.43	19.52	18.25	-12.09	232.43	2,403.41	2,200.77	2,163.39	37.38	58.873		
5,600.00	5,591.89	5,367.97	5,360.98	19.88	18.67	-12.03	229.80	2,415.35	2,203.83	2,165.67	38.16	57.751		
5,700.00	5,691.64	5,461.27	5,453.79	20.25	19.01	-11.99	227.78	2,424.65	2,206.68	2,167.84	38.84	56.820		
5,800.00	5,791.40	5,549.92	5,541.93	20.62	19.33	-11.94	225.71	2,433.85	2,209.91	2,170.41	39.49	55.960		
5,900.00	5,891.16	5,650.87	5,642.28	20.98	19.70	-11.89	223.35	2,444.55	2,213.38	2,173.18	40.20	55.057		
6,000.00	5,990.91	5,757.57	5,748.39	21.35	20.09	-11.83	220.87	2,455.61	2,216.60	2,175.66	40.94	54.143		
6,100.00	6,090.67	5,851.34	5,841.61	21.72	20.43	-11.78	218.74	2,465.40	2,219.92	2,178.30	41.62	53.338		
6,200.00	6,190.42	5,954.57	5,944.24	22.09	20.82	-11.72	215.92	2,476.20	2,223.20	2,180.85	42.34	52.504		
6,300.00	6,290.18	6,048.13	6,037.23	22.45	21.16	-11.65	213.01	2,486.14	2,226.62	2,183.59	43.02	51.753		
6,400.00	6,389.94	6,157.84	6,146.26	22.82	21.57	-11.58	209.96	2,497.92	2,230.20	2,186.42	43.78	50.943		
6,500.00	6,489.69	6,277.66	6,265.46	23.19	22.02	-11.50	206.33	2,509.48	2,232.61	2,188.03	44.58	50.084		
6,600.00	6,589.45	6,373.26	6,360.59	23.56	22.37	-11.43	203.27	2,518.56	2,234.90	2,189.64	45.27	49.369		
6,700.00	6,689.21	6,468.68	6,455.51	23.93	22.73	-11.36	200.36	2,527.85	2,237.45	2,191.49	45.96	48.680		
6,800.00	6,788.96	6,576.80	6,563.09	24.29	23.13	-11.30	197.61	2,538.29	2,239.97	2,193.26	46.71	47.953		
6,900.00	6,888.72	6,680.28	6,666.07	24.66	23.52	-11.24	194.51	2,547.96	2,242.14	2,194.70	47.44	47.262		
7,000.00	6,988.48	6,771.03	6,756.35	25.03	23.86	-11.17	191.49	2,556.60	2,244.46	2,196.34	48.11	46.649		
7,100.00	7,088.23	6,866.94	6,871.70	25.40	24.30	-11.09	187.92	2,567.48	2,246.67	2,197.77	48.90	45.945		
7,200.00	7,187.99	6,976.38	6,960.70	25.77	24.64	-11.03	185.08	2,575.91	2,248.89	2,199.32	49.57	45.370		
7,300.00	7,287.75	7,087.46	7,071.23	26.14	25.06	-10.95	181.34	2,586.18	2,250.94	2,200.60	50.33	44.721		
7,400.00	7,387.50	7,189.33	7,172.64	26.50	25.44	-10.87	177.75	2,595.20	2,252.57	2,201.52	51.06	44.119		
7,500.00	7,487.26	7,283.61	7,266.48	26.87	25.80	-10.80	174.76	2,603.79	2,254.51	2,202.76	51.75	43.566		
7,600.00	7,587.02	7,386.72	7,369.11	27.24	26.19	-10.73	171.51	2,613.13	2,256.40	2,203.92	52.48	42.996		
7,700.00	7,686.77	7,496.29	7,478.19	27.61	26.60	-10.66	167.90	2,622.87	2,258.11	2,204.87	53.24	42.415		
7,800.00	7,786.53	7,597.95	7,579.42	27.98	26.99	-10.58	164.42	2,631.47	2,259.39	2,205.42	53.96	41.869		
7,900.00	7,886.29	7,703.26	7,684.29	28.35	27.39	-10.50	160.55	2,640.42	2,260.68	2,205.98	54.70	41.326		
8,000.00	7,986.04	7,797.26	7,777.87	28.72	27.74	-10.41	156.78	2,648.32	2,261.86	2,206.47	55.40	40.830		
8,100.00	8,085.80	7,909.05	7,889.18	29.09	28.16	-10.32	152.25	2,657.74	2,263.08	2,206.91	56.17	40.293		
8,200.00	8,185.56	7,995.23	7,974.96	29.46	28.49	-10.23	148.23	2,665.00	2,264.23	2,207.40	56.83	39.845		
8,300.00	8,285.31	8,123.33	8,102.47	29.83	28.98	-10.08	141.81	2,675.39	2,265.05	2,207.38	57.66	39.281		
8,400.00	8,385.07	8,218.73	8,197.44	30.20	29.34	-9.97	136.66	2,682.74	2,265.44	2,207.07	58.36	38.816		
8,500.00	8,484.83	8,323.10	8,301.35	30.56	29.73	-9.84	130.86	2,690.71	2,265.76	2,206.66	59.10	38.337		
8,600.00	8,584.58	8,429.71	8,407.53	30.93	30.13	-9.72	125.60	2,698.65	2,265.96	2,206.11	59.85	37.862		
8,700.00	8,684.34	8,529.96	8,507.44	31.30	30.51	-9.62	121.05	2,705.68	2,265.76	2,205.19	60.57	37.408		
8,800.00	8,784.10	8,643.61	8,620.68	31.67	30.93	-9.51	115.87	2,713.81	2,265.73	2,204.39	61.34	36.936		
8,900.00	8,883.85	8,749.21	8,725.96	32.04	31.33	-9.41	111.11	2,720.45	2,264.81	2,202.73	62.08	36.480		
9,000.00	8,983.61	8,871.83	8,848.28	32.41	31.78	-9.32	106.69	2,727.61	2,263.53	2,200.64	62.89	35.993		
9,100.00	9,083.37	8,996.59	8,972.88	32.78	32.24	-9.27	103.68	2,733.25	2,260.97	2,197.28	63.69	35.498		
9,200.00	9,183.12	9,110.58	9,086.77	33.15	32.65	-9.25	101.74	2,737.58	2,257.78	2,193.32	64.46	35.028		
9,300.00	9,282.88	9,210.21	9,186.33	33.52	33.01	-9.23	99.98	2,740.86	2,254.06	2,188.88	65.17	34.586		
9,400.00	9,382.64	9,332.50	9,308.56	33.89	33.44	-9.22	98.63	2,744.56	2,250.15	2,184.19	65.96	34.114		
9,428.07	9,410.64	9,360.64	9,336.68	33.99	33.54	-9.22	98.49	2,745.23	2,248.88	2,182.71	66.16	33.991		
9,500.00	9,482.43	9,435.73	9,411.76	34.26	33.81	-9.22	98.16	2,746.94	2,246.20	2,179.51	66.69	33.684		
9,600.00	9,582.36	9,532.91	9,508.91	34.62	34.12	-9.22	97.79	2,749.01	2,244.57	2,177.21	67.36	33.323		
9,604.12	9,586.48	9,535.96	9,511.97	34.63	34.13	-9.22	97.77	2,749.08	2,244.57	2,177.19	67.38	33.313		
9,694.65	9,677.00	9,603.18	9,579.15	34.95	34.25	86.26	97.56	2,751.02	2,246.09	2,178.27	67.83	33.116		
9,700.00	9,682.35	9,607.15	9,583.12	34.97	34.26	86.26	97.54	2,751.16	2,246.28	2,178.43	67.85	33.106		
9,800.00	9,782.35	9,682.28	9,658.19	35.31	34.39	86.27	97.34	2,754.20	2,250.28	2,181.97	68.32	32.939		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
9,900.00	9,882.35	9,766.08	9,741.89	35.65	34.41	86.28	97.27	2,758.31	2,255.18	2,186.52	68.66	32.844		
10,000.00	9,982.35	11,386.80	10,972.81	35.99	35.70	72.64	540.05	2,394.88	2,218.34	2,153.26	65.08	34.087		
10,044.69	10,027.04	11,388.05	10,972.94	36.14	35.71	72.60	541.21	2,394.44	2,198.31	2,132.67	65.63	33.494		
10,050.00	10,032.35	11,388.20	10,972.96	36.16	35.71	73.27	541.36	2,394.39	2,195.97	2,130.27	65.70	33.425		
10,100.00	10,082.26	11,390.24	10,973.17	36.32	35.72	75.58	543.26	2,393.69	2,173.85	2,107.54	66.31	32.784		
10,150.00	10,131.76	11,393.33	10,973.50	36.49	35.74	77.90	546.14	2,392.63	2,151.67	2,084.76	66.90	32.162		
10,200.00	10,180.46	11,407.00	10,974.95	36.65	35.82	79.94	558.97	2,388.12	2,129.66	2,062.12	67.53	31.536		
10,250.00	10,227.98	11,407.00	10,974.95	36.81	35.82	82.35	558.97	2,388.12	2,107.74	2,039.69	68.05	30.973		
10,300.00	10,273.98	11,407.00	10,974.95	36.95	35.82	84.71	558.97	2,388.12	2,086.27	2,017.73	68.54	30.438		
10,350.00	10,318.11	11,421.23	10,976.43	37.09	35.91	86.67	572.39	2,383.62	2,065.30	1,996.22	69.08	29.896		
10,400.00	10,360.01	11,439.00	10,978.19	37.21	36.02	88.49	589.23	2,378.23	2,044.95	1,975.34	69.61	29.375		
10,450.00	10,399.38	11,457.02	10,979.88	37.32	36.14	90.26	606.36	2,372.90	2,025.25	1,955.13	70.12	28.883		
10,500.00	10,435.92	11,470.00	10,981.03	37.42	36.23	92.05	618.72	2,369.10	2,006.24	1,935.68	70.56	28.435		
10,550.00	10,469.35	11,470.00	10,981.03	37.51	36.23	93.96	618.72	2,369.10	1,988.40	1,917.52	70.87	28.055		
10,600.00	10,499.41	11,508.00	10,983.91	37.59	36.49	95.17	655.15	2,358.71	1,970.98	1,899.55	71.43	27.593		
10,650.00	10,525.87	11,524.27	10,984.88	37.66	36.60	96.62	670.89	2,354.68	1,955.07	1,883.27	71.80	27.228		
10,700.00	10,548.54	11,565.00	10,986.66	37.74	36.89	97.70	710.57	2,345.73	1,940.81	1,868.47	72.33	26.832		
10,750.00	10,567.24	11,565.00	10,986.66	37.84	36.89	99.10	710.57	2,345.73	1,927.17	1,854.64	72.53	26.571		
10,800.00	10,581.83	11,588.13	10,987.36	37.97	37.06	100.17	733.23	2,341.16	1,915.22	1,842.33	72.89	26.277		
10,850.00	10,592.19	11,624.21	10,988.31	38.11	37.33	101.10	768.63	2,334.25	1,904.42	1,831.09	73.32	25.973		
10,900.00	10,598.26	11,661.32	10,989.12	38.25	37.61	102.00	805.11	2,327.43	1,894.76	1,821.02	73.74	25.695		
10,944.69	10,600.00	11,703.95	10,989.85	38.39	37.97	102.78	847.04	2,319.78	1,887.04	1,812.84	74.20	25.433		
11,000.00	10,600.00	11,757.02	10,990.49	38.56	38.42	102.86	899.25	2,310.35	1,877.99	1,803.22	74.76	25.119		
11,100.00	10,600.00	11,857.97	10,991.48	38.91	39.36	103.01	998.59	2,292.36	1,861.52	1,785.57	75.95	24.509		
11,200.00	10,600.00	11,936.88	10,992.46	39.31	40.15	103.14	1,076.29	2,278.68	1,845.60	1,768.57	77.03	23.959		
11,300.00	10,600.00	12,020.30	10,993.40	39.76	41.03	103.26	1,158.59	2,265.05	1,830.64	1,752.38	78.26	23.393		
11,400.00	10,600.00	12,086.95	10,993.85	40.25	41.77	103.34	1,224.48	2,255.00	1,816.87	1,737.49	79.39	22.887		
11,500.00	10,600.00	12,151.17	10,994.43	40.79	42.49	103.42	1,288.14	2,246.63	1,805.07	1,724.52	80.55	22.408		
11,600.00	10,600.00	12,225.00	10,996.16	41.37	43.34	103.53	1,361.46	2,238.15	1,795.09	1,713.20	81.89	21.921		
11,700.00	10,600.00	12,318.18	10,998.51	41.99	44.45	103.68	1,454.08	2,228.26	1,786.05	1,702.52	83.53	21.382		
11,800.00	10,600.00	12,408.46	11,000.46	42.65	45.58	103.80	1,543.86	2,218.93	1,777.23	1,692.01	85.22	20.854		
11,900.00	10,600.00	12,484.37	11,002.30	43.35	46.55	103.91	1,619.41	2,211.74	1,769.32	1,682.52	86.80	20.383		
12,000.00	10,600.00	12,593.09	11,003.66	44.09	47.97	104.02	1,727.73	2,202.55	1,762.16	1,673.27	88.88	19.826		
12,100.00	10,600.00	12,678.05	11,003.67	44.86	49.12	104.07	1,812.39	2,195.45	1,754.77	1,664.04	90.73	19.340		
12,200.00	10,600.00	12,802.80	11,004.76	45.67	50.86	104.19	1,936.67	2,184.79	1,747.46	1,654.29	93.18	18.754		
12,300.00	10,600.00	12,872.99	11,006.60	46.50	51.87	104.29	2,006.56	2,178.57	1,740.16	1,645.22	94.93	18.330		
12,400.00	10,600.00	13,000.29	11,011.49	47.37	53.74	104.54	2,133.24	2,166.95	1,733.02	1,635.51	97.51	17.772		
12,500.00	10,600.00	13,099.16	11,015.03	48.26	55.25	104.72	2,231.58	2,157.41	1,725.28	1,625.50	99.77	17.292		
12,600.00	10,600.00	13,210.91	11,018.64	49.18	56.98	104.94	2,342.62	2,145.33	1,716.29	1,614.02	102.26	16.783		
12,700.00	10,600.00	13,284.13	11,021.48	50.13	58.13	105.09	2,415.39	2,137.84	1,708.15	1,603.90	104.24	16.386		
12,800.00	10,600.00	13,358.03	11,023.84	51.10	59.29	105.21	2,489.03	2,132.09	1,702.03	1,595.77	106.26	16.017		
12,900.00	10,600.00	13,422.07	11,025.45	52.09	60.29	105.29	2,552.94	2,128.42	1,697.67	1,589.52	108.15	15.697		
13,000.00	10,600.00	13,526.73	11,027.59	53.10	61.94	105.40	2,657.46	2,123.29	1,694.21	1,583.51	110.70	15.304		
13,100.00	10,600.00	13,640.48	11,029.02	54.14	63.76	105.50	2,771.01	2,116.92	1,689.85	1,576.41	113.44	14.896		
13,200.00	10,600.00	13,728.73	11,031.00	55.19	65.19	105.60	2,859.09	2,111.70	1,685.46	1,569.65	115.81	14.554		
13,300.00	10,600.00	13,807.80	11,034.19	56.26	66.48	105.74	2,937.97	2,107.41	1,682.02	1,564.00	118.03	14.251		
13,400.00	10,600.00	13,908.19	11,039.81	57.35	68.13	105.97	3,038.08	2,102.37	1,679.43	1,558.84	120.58	13.928		
13,500.00	10,600.00	13,997.33	11,043.86	58.45	69.60	106.13	3,127.02	2,098.16	1,676.85	1,553.86	122.99	13.634		
13,600.00	10,600.00	14,126.12	11,047.02	59.57	71.75	106.28	3,255.65	2,092.46	1,674.03	1,547.92	126.11	13.274		
13,700.00	10,600.00	14,213.51	11,048.33	60.71	73.22	106.36	3,342.93	2,088.26	1,670.55	1,541.95	128.60	12.991		
13,800.00	10,600.00	14,306.50	11,049.18	61.85	74.80	106.42	3,435.83	2,084.53	1,667.66	1,536.47	131.20	12.711		
13,900.00	10,600.00	14,410.18	11,048.79	63.01	76.56	106.44	3,539.44	2,080.70	1,664.71	1,530.69	134.03	12.421		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,000.00	10,600.00	14,485.94	11,048.94	64.18	77.85	106.46	3,615.16	2,078.38	1,662.53	1,526.15	136.38	12.191	
14,100.00	10,600.00	14,596.96	11,050.80	65.37	79.75	106.54	3,726.12	2,075.02	1,660.82	1,521.48	139.34	11.919	
14,200.00	10,600.00	14,670.08	11,052.58	66.56	81.00	106.62	3,799.19	2,073.07	1,659.61	1,517.98	141.63	11.718	
14,300.00	10,600.00	14,782.95	11,056.40	67.76	82.95	106.76	3,911.96	2,070.25	1,658.91	1,514.29	144.62	11.471	
14,400.00	10,600.00	14,901.08	11,060.05	68.98	85.01	106.92	4,029.94	2,065.50	1,656.58	1,508.86	147.72	11.214	
14,500.00	10,600.00	14,987.91	11,063.02	70.20	86.53	107.04	4,116.66	2,062.45	1,654.88	1,504.60	150.29	11.011	
14,600.00	10,600.00	15,092.15	11,066.35	71.43	88.37	107.19	4,220.76	2,058.23	1,652.63	1,499.46	153.17	10.790	
14,691.81	10,600.00	15,154.00	11,068.47	72.57	89.46	107.27	4,282.55	2,056.55	1,651.81	1,496.60	155.21	10.642	
14,700.00	10,600.00	15,160.41	11,068.71	72.67	89.57	107.28	4,288.96	2,056.43	1,651.82	1,496.41	155.41	10.629	
14,800.00	10,600.00	15,248.82	11,072.81	73.92	91.12	107.43	4,377.25	2,054.93	1,652.28	1,494.30	157.98	10.459	
14,900.00	10,600.00	15,362.69	11,078.73	75.17	93.13	107.64	4,490.96	2,052.86	1,652.84	1,491.81	161.03	10.264	
15,000.00	10,600.00	15,485.04	11,084.26	76.44	95.30	107.85	4,613.11	2,048.82	1,651.68	1,487.45	164.24	10.057	
15,100.00	10,600.00	15,582.11	11,087.56	77.70	97.04	107.98	4,710.07	2,045.83	1,650.48	1,483.46	167.03	9.881	
15,166.26	10,600.00	15,629.00	11,089.05	78.55	97.88	108.04	4,756.92	2,044.42	1,649.82	1,481.25	168.57	9.787 CC, ES	
15,200.00	10,600.00	15,629.00	11,089.05	78.98	97.88	108.04	4,756.92	2,044.42	1,650.17	1,481.30	168.87	9.772	
15,300.00	10,600.00	15,629.00	11,089.05	80.26	97.88	108.04	4,756.92	2,044.42	1,655.23	1,485.80	169.43	9.769 SF	
15,400.00	10,600.00	15,629.00	11,089.05	81.55	97.88	108.04	4,756.92	2,044.42	1,666.30	1,496.79	169.51	9.830	
15,484.47	10,600.00	15,629.00	11,089.05	82.64	97.88	108.04	4,756.92	2,044.42	1,680.23	1,511.02	169.21	9.930	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.90	0.90	0.50	0.50	-90.38	-0.20	-30.00	30.00				
100.00	100.00	100.90	100.90	0.52	0.52	-90.38	-0.20	-30.00	30.00	28.96	1.04	28.948	
200.00	200.00	200.90	200.90	0.70	0.70	-90.38	-0.20	-30.00	30.00	28.59	1.41	21.330	
300.00	300.00	300.90	300.90	0.99	0.99	-90.38	-0.20	-30.00	30.00	28.02	1.98	15.171	
400.00	400.00	400.90	400.90	1.31	1.31	-90.38	-0.20	-30.00	30.00	27.38	2.62	11.446	
500.00	500.00	500.90	500.90	1.65	1.65	-90.38	-0.20	-30.00	30.00	26.71	3.30	9.104	
600.00	600.00	600.90	600.90	1.99	1.99	-90.38	-0.20	-30.00	30.00	26.02	3.98	7.530	
700.00	700.00	700.90	700.90	2.34	2.34	-90.38	-0.20	-30.00	30.00	25.32	4.68	6.408	
800.00	800.00	800.90	800.90	2.69	2.69	-90.38	-0.20	-30.00	30.00	24.62	5.38	5.572	
900.00	900.00	900.90	900.90	3.04	3.05	-90.38	-0.20	-30.00	30.00	23.91	6.09	4.926 Alert	
1,000.00	1,000.00	1,000.90	1,000.90	3.40	3.40	-90.38	-0.20	-30.00	30.00	23.20	6.80	4.413 Alert	
1,100.00	1,100.00	1,100.90	1,100.90	3.75	3.76	-90.38	-0.20	-30.00	30.00	22.49	7.51	3.996 Alert	
1,200.00	1,200.00	1,200.90	1,200.90	4.11	4.11	-90.38	-0.20	-30.00	30.00	21.78	8.22	3.650 Alert	
1,300.00	1,300.00	1,300.90	1,300.90	4.46	4.47	-90.38	-0.20	-30.00	30.00	21.07	8.93	3.359 Alert	
1,400.00	1,400.00	1,400.90	1,400.90	4.82	4.82	-90.38	-0.20	-30.00	30.00	20.36	9.64	3.111 Alert	
1,500.00	1,500.00	1,500.90	1,500.90	5.18	5.18	-90.38	-0.20	-30.00	30.00	19.64	10.36	2.896 Alert	
1,600.00	1,600.00	1,600.90	1,600.90	5.53	5.54	-90.38	-0.20	-30.00	30.00	18.93	11.07	2.710 Alert	
1,700.00	1,700.00	1,700.90	1,700.90	5.89	5.89	-90.38	-0.20	-30.00	30.00	18.22	11.79	2.546 Alert	
1,800.00	1,800.00	1,800.90	1,800.90	6.25	6.25	-90.38	-0.20	-30.00	30.00	17.50	12.50	2.400 Minor Risk	
1,900.00	1,900.00	1,900.90	1,900.90	6.61	6.61	-90.38	-0.20	-30.00	30.00	16.79	13.21	2.270 Minor Risk	
2,000.00	2,000.00	2,000.90	2,000.90	6.96	6.97	-90.38	-0.20	-30.00	30.00	16.07	13.93	2.154 Minor Risk	
2,100.00	2,099.99	2,100.89	2,100.89	7.31	7.32	174.31	-0.20	-30.00	30.87	16.23	14.64	2.109 Minor Risk	
2,200.00	2,199.96	2,200.86	2,200.86	7.65	7.68	174.75	-0.20	-30.00	33.47	18.14	15.33	2.183 Minor Risk	
2,300.00	2,299.86	2,300.76	2,300.76	7.99	8.04	175.35	-0.20	-30.00	37.82	21.79	16.03	2.359 Minor Risk	
2,399.87	2,399.54	2,400.44	2,400.44	8.34	8.40	175.99	-0.20	-30.00	43.90	27.17	16.73	2.624 Alert	
2,500.00	2,499.43	2,500.33	2,500.33	8.69	8.75	176.54	-0.20	-30.00	50.87	33.44	17.43	2.918 Alert	
2,600.00	2,599.19	2,600.09	2,600.09	9.03	9.11	176.96	-0.20	-30.00	57.83	39.70	18.13	3.189 Alert	
2,700.00	2,698.94	2,699.84	2,699.84	9.39	9.47	177.28	-0.20	-30.00	64.79	45.96	18.83	3.440 Alert	
2,800.00	2,798.70	2,800.85	2,800.84	9.74	9.82	177.48	-0.33	-29.12	70.89	51.36	19.53	3.630 Alert	
2,900.00	2,898.46	2,902.04	2,902.00	10.09	10.16	177.52	-0.73	-26.48	75.23	55.01	20.21	3.721 Alert	
3,000.00	2,998.21	3,003.35	3,003.21	10.45	10.51	177.43	-1.39	-22.06	77.81	56.91	20.90	3.723 Alert	
3,100.00	3,097.97	3,104.73	3,104.39	10.80	10.85	177.22	-2.31	-15.87	78.63	57.06	21.58	3.644 Alert	
3,200.00	3,197.73	3,206.10	3,205.44	11.16	11.20	176.87	-3.50	-7.91	77.70	55.44	22.25	3.492 Alert	
3,300.00	3,297.48	3,307.41	3,306.27	11.52	11.56	176.36	-4.95	1.81	75.01	52.08	22.92	3.272 Alert	
3,400.00	3,397.24	3,408.58	3,406.77	11.88	11.91	175.64	-6.66	13.28	70.57	46.98	23.59	2.992 Alert	
3,500.00	3,497.00	3,509.56	3,506.87	12.24	12.27	174.58	-8.63	26.47	64.41	40.15	24.25	2.656 Alert	
3,600.00	3,596.75	3,610.29	3,606.46	12.60	12.63	173.01	-10.86	41.37	56.53	31.63	24.91	2.270 Minor Risk	
3,700.00	3,696.51	3,710.70	3,705.47	12.96	13.00	170.47	-13.33	57.94	47.01	21.44	25.57	1.839 Minor Risk	
3,800.00	3,796.27	3,810.74	3,803.79	13.32	13.37	165.89	-16.05	76.15	35.95	9.72	26.23	1.371 Major Risk	
3,900.00	3,896.02	3,909.93	3,901.16	13.68	13.75	156.73	-18.84	94.88	24.70	-2.30	27.00	0.915 Collision	
4,000.00	3,995.78	4,009.18	3,998.58	14.04	14.13	134.38	-21.64	113.62	15.01	-12.91	27.93	0.538 Collision	
4,078.77	4,074.36	4,087.36	4,075.32	14.33	14.43	94.71	-23.85	128.39	11.52	-17.23	28.76	0.401 Collision, CC, ES, SF	
4,100.00	4,095.54	4,108.43	4,096.01	14.40	14.51	82.12	-24.44	132.37	11.81	-17.08	28.89	0.409 Collision	
4,200.00	4,195.29	4,207.68	4,193.43	14.77	14.90	42.80	-27.24	151.11	18.77	-10.49	29.26	0.641 Collision	
4,300.00	4,295.05	4,306.93	4,290.86	15.13	15.29	27.95	-30.04	169.86	29.39	-0.43	29.82	0.985 Collision	
4,400.00	4,394.81	4,406.18	4,388.28	15.49	15.68	21.19	-32.84	188.61	40.91	10.43	30.48	1.342 Major Risk	
4,500.00	4,494.56	4,505.43	4,485.70	15.86	16.08	17.42	-35.64	207.35	52.75	21.58	31.17	1.692 Minor Risk	
4,600.00	4,594.32	4,604.68	4,583.13	16.22	16.48	15.04	-38.43	226.10	64.73	32.86	31.87	2.031 Minor Risk	
4,700.00	4,694.08	4,703.93	4,680.55	16.59	16.88	13.41	-41.23	244.84	76.78	44.21	32.57	2.357 Minor Risk	
4,800.00	4,793.83	4,803.18	4,777.98	16.95	17.28	12.22	-44.03	263.59	88.89	55.60	33.28	2.671 Alert	
4,900.00	4,893.59	4,902.43	4,875.40	17.32	17.69	11.31	-46.83	282.33	101.02	67.02	34.00	2.971 Alert	
5,000.00	4,993.35	5,001.68	4,972.82	17.68	18.10	10.60	-49.63	301.08	113.16	78.45	34.71	3.260 Alert	

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	5,100.93	5,070.25	18.05	18.51	10.03	-52.43	319.83	125.33	89.90	35.43	3.538	Alert	
5,200.00	5,192.86	5,200.18	5,167.67	18.42	18.92	9.56	-55.23	338.57	137.50	101.36	36.14	3.804	Alert	
5,300.00	5,292.62	5,300.57	5,265.10	18.78	19.34	9.16	-58.03	357.32	149.68	112.81	36.87	4.060	Alert	
5,400.00	5,392.37	5,398.69	5,362.52	19.15	19.75	8.83	-60.82	376.06	161.87	124.29	37.58	4.307	Alert	
5,500.00	5,492.13	5,497.94	5,459.94	19.52	20.16	8.54	-63.62	394.81	174.06	135.76	38.30	4.544	Alert	
5,600.00	5,591.89	5,602.81	5,557.37	19.88	20.61	8.29	-66.42	413.55	186.25	147.21	39.04	4.770	Alert	
5,700.00	5,691.64	5,696.44	5,654.79	20.25	21.00	8.07	-69.22	432.30	198.45	158.71	39.74	4.993	Alert	
5,800.00	5,791.40	5,804.31	5,752.22	20.62	21.46	7.87	-72.02	451.05	210.65	170.15	40.50	5.201		
5,900.00	5,891.16	5,905.06	5,849.64	20.98	21.89	7.70	-74.82	469.79	222.86	181.63	41.23	5.405		
6,000.00	5,990.91	6,005.81	5,947.06	21.35	22.32	7.54	-77.62	488.54	235.06	193.10	41.96	5.602		
6,100.00	6,090.67	6,093.44	6,044.49	21.72	22.69	7.40	-80.42	507.28	247.27	204.63	42.64	5.799		
6,200.00	6,190.42	6,192.69	6,141.91	22.09	23.12	7.28	-83.21	526.03	259.47	216.11	43.36	5.984		
6,300.00	6,290.18	6,308.06	6,239.34	22.45	23.61	7.16	-86.01	544.77	271.68	227.53	44.15	6.154		
6,400.00	6,389.94	6,391.19	6,336.76	22.82	23.97	7.06	-88.81	563.52	283.89	239.08	44.82	6.335		
6,500.00	6,489.69	6,509.56	6,434.18	23.19	24.48	6.96	-91.61	582.27	296.10	250.49	45.61	6.491		
6,600.00	6,589.45	6,589.69	6,531.61	23.56	24.82	6.87	-94.41	601.01	308.31	262.04	46.27	6.663		
6,700.00	6,689.21	6,688.94	6,629.03	23.93	25.25	6.79	-97.21	619.76	320.53	273.53	47.00	6.820		
6,800.00	6,788.96	6,788.19	6,726.46	24.29	25.68	6.71	-100.01	638.50	332.74	285.01	47.73	6.972		
6,900.00	6,888.72	6,887.44	6,823.88	24.66	26.11	6.64	-102.81	657.25	344.95	296.50	48.45	7.119		
7,000.00	6,988.48	6,986.69	6,921.30	25.03	26.54	6.58	-105.60	675.99	357.16	307.98	49.18	7.262		
7,100.00	7,088.23	7,085.94	7,018.73	25.40	26.98	6.51	-108.40	694.74	369.38	319.47	49.91	7.401		
7,200.00	7,187.99	7,185.20	7,116.15	25.77	27.41	6.46	-111.20	713.49	381.59	330.95	50.64	7.535		
7,300.00	7,287.75	7,284.45	7,213.58	26.14	27.84	6.40	-114.00	732.23	393.81	342.44	51.37	7.666		
7,400.00	7,387.50	7,383.70	7,311.00	26.50	28.28	6.35	-116.80	750.98	406.02	353.92	52.10	7.793		
7,500.00	7,487.26	7,482.95	7,408.42	26.87	28.71	6.30	-119.60	769.72	418.24	365.41	52.83	7.916		
7,600.00	7,587.02	7,582.20	7,505.85	27.24	29.14	6.26	-122.40	788.47	430.45	376.89	53.56	8.036		
7,700.00	7,686.77	7,681.45	7,603.27	27.61	29.58	6.22	-125.19	807.21	442.67	388.38	54.29	8.153		
7,800.00	7,786.53	7,780.70	7,700.70	27.98	30.01	6.18	-127.99	825.96	454.89	399.86	55.03	8.267		
7,900.00	7,886.29	7,879.95	7,798.12	28.35	30.45	6.14	-130.79	844.71	467.10	411.35	55.76	8.378		
8,000.00	7,986.04	7,979.20	7,895.54	28.72	30.89	6.10	-133.59	863.45	479.32	422.83	56.49	8.485		
8,100.00	8,085.80	8,078.45	7,992.97	29.09	31.32	6.07	-136.39	882.20	491.54	434.31	57.22	8.590		
8,200.00	8,185.56	8,179.68	8,092.34	29.46	31.77	6.03	-139.24	901.29	503.73	445.75	57.98	8.688		
8,300.00	8,285.31	8,294.42	8,205.35	29.83	32.26	6.01	-142.16	920.84	514.06	455.17	58.89	8.729		
8,400.00	8,385.07	8,409.76	8,319.52	30.20	32.73	6.01	-144.59	937.11	521.40	461.65	59.76	8.725		
8,500.00	8,484.83	8,525.52	8,434.53	30.56	33.18	6.03	-146.51	950.00	525.73	465.15	60.58	8.678		
8,600.00	8,584.58	8,641.47	8,550.09	30.93	33.61	6.06	-147.92	959.44	527.03	465.67	61.36	8.590		
8,700.00	8,684.34	8,757.40	8,665.86	31.30	34.01	6.12	-148.81	965.42	525.29	463.21	62.08	8.461		
8,800.00	8,784.10	8,873.11	8,781.53	31.67	34.40	6.20	-149.19	967.92	520.53	457.78	62.75	8.295		
8,900.00	8,883.85	8,976.33	8,884.75	32.04	34.72	6.29	-149.20	968.00	513.67	450.24	63.44	8.097		
9,000.00	8,983.61	9,076.09	8,984.51	32.41	35.04	6.37	-149.20	968.00	506.74	442.61	64.14	7.901		
9,100.00	9,083.37	9,175.84	9,084.27	32.78	35.36	6.46	-149.20	968.00	499.81	434.98	64.83	7.709		
9,200.00	9,183.12	9,281.70	9,190.10	33.15	35.69	6.45	-148.25	967.99	492.72	427.22	65.50	7.523		
9,300.00	9,282.88	9,400.29	9,306.94	33.52	36.05	6.44	-129.24	967.85	482.58	416.53	66.05	7.306		
9,400.00	9,382.64	9,506.75	9,406.53	33.89	36.34	-0.09	-92.03	967.58	470.42	403.67	66.76	7.047		
9,428.07	9,410.64	9,533.76	9,430.55	33.99	36.40	-1.61	-79.70	967.49	467.20	400.20	67.00	6.973		
9,500.00	9,482.43	9,596.94	9,484.30	34.26	36.54	-5.73	-46.54	967.25	461.19	393.50	67.69	6.813		
9,548.96	9,531.35	9,635.14	9,514.91	34.43	36.62	-8.59	-23.70	967.08	459.86	391.70	68.15	6.747		
9,600.00	9,582.36	9,671.08	9,542.25	34.62	36.68	-11.51	-0.39	966.91	461.47	392.93	68.54	6.733		
9,694.65	9,677.00	9,728.36	9,582.66	34.95	36.77	78.93	40.17	966.61	473.93	405.16	68.77	6.891		
9,700.00	9,682.35	9,731.27	9,584.60	34.97	36.77	78.66	42.34	966.60	475.02	406.26	68.76	6.908		
9,800.00	9,782.35	9,780.06	9,615.49	35.31	36.84	74.17	80.09	966.32	502.12	434.08	68.05	7.379		
9,900.00	9,882.35	9,819.84	9,638.23	35.65	36.88	70.44	112.72	966.08	541.56	475.08	66.48	8.146		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	9,982.35	9,850.00	9,653.93	35.99	36.91	67.60	138.47	965.89	592.05	527.73	64.32	9.204		
10,044.69	10,027.04	9,865.37	9,661.40	36.14	36.92	66.17	151.90	965.80	617.70	554.32	63.38	9.746		
10,050.00	10,032.35	9,866.84	9,662.09	36.16	36.92	66.09	153.19	965.79	620.85	557.59	63.26	9.814		
10,100.00	10,082.26	9,881.15	9,668.69	36.32	36.93	61.49	165.89	965.69	650.84	588.71	62.12	10.477		
10,150.00	10,131.76	9,900.00	9,676.90	36.49	36.95	56.81	182.86	965.57	681.02	619.91	61.11	11.145		
10,200.00	10,180.46	9,912.16	9,681.89	36.65	36.95	52.95	193.94	965.49	710.95	651.04	59.91	11.867		
10,250.00	10,227.98	9,928.63	9,688.28	36.81	36.96	49.18	209.13	965.38	740.35	681.48	58.87	12.576		
10,300.00	10,273.98	9,950.00	9,695.92	36.95	36.98	45.59	229.08	965.23	768.93	710.94	57.99	13.259		
10,350.00	10,318.11	9,963.09	9,700.22	37.09	36.98	42.77	241.45	965.14	796.36	739.41	56.95	13.982		
10,400.00	10,360.01	9,980.94	9,705.64	37.21	36.99	40.12	258.45	965.02	822.52	766.43	56.09	14.665		
10,450.00	10,399.38	10,000.00	9,710.83	37.32	37.00	37.78	276.79	964.88	847.19	791.88	55.31	15.318		
10,500.00	10,435.92	10,017.61	9,715.09	37.42	37.01	35.80	293.88	964.76	870.22	815.65	54.57	15.946		
10,550.00	10,469.35	10,036.35	9,719.03	37.51	37.02	34.07	312.19	964.62	891.47	837.54	53.94	16.528		
10,600.00	10,499.41	10,050.00	9,721.53	37.59	37.03	32.67	325.61	964.52	910.87	857.55	53.32	17.082		
10,650.00	10,525.87	10,074.44	9,725.20	37.66	37.04	31.34	349.78	964.35	928.21	875.26	52.95	17.530		
10,700.00	10,548.54	10,100.00	9,727.94	37.74	37.06	30.23	375.18	964.16	943.56	890.89	52.66	17.916		
10,750.00	10,567.24	10,113.17	9,728.90	37.84	37.06	29.44	388.32	964.07	956.66	904.29	52.37	18.267		
10,800.00	10,581.83	10,132.70	9,729.78	37.97	37.08	28.75	407.83	963.92	967.61	915.36	52.25	18.519		
10,850.00	10,592.19	10,157.90	9,730.00	38.11	37.10	28.19	433.02	963.74	976.27	924.02	52.26	18.682		
10,900.00	10,598.26	10,207.52	9,730.00	38.25	37.15	27.77	482.64	963.37	981.64	929.22	52.42	18.725		
10,944.69	10,600.00	10,252.16	9,730.00	38.39	37.21	27.65	527.28	963.05	983.18	930.54	52.64	18.677		
11,000.00	10,600.00	10,307.47	9,730.00	38.56	37.31	27.65	582.59	962.64	983.18	930.23	52.95	18.567		
11,100.00	10,600.00	10,407.47	9,730.00	38.91	37.55	27.65	682.59	961.91	983.18	929.61	53.57	18.353		
11,200.00	10,600.00	10,507.47	9,730.00	39.31	37.88	27.65	782.59	961.18	983.19	928.93	54.25	18.122		
11,300.00	10,600.00	10,607.47	9,730.00	39.76	38.29	27.65	882.58	960.45	983.19	928.19	54.99	17.878		
11,400.00	10,600.00	10,707.47	9,730.00	40.25	38.77	27.65	982.58	959.71	983.19	927.40	55.79	17.623		
11,500.00	10,600.00	10,807.47	9,730.00	40.79	39.31	27.65	1,082.58	958.98	983.19	926.55	56.64	17.358		
11,600.00	10,600.00	10,907.47	9,730.00	41.37	39.91	27.65	1,182.57	958.25	983.19	925.64	57.55	17.084		
11,700.00	10,600.00	11,007.47	9,730.00	41.99	40.55	27.65	1,282.57	957.52	983.19	924.68	58.51	16.805		
11,800.00	10,600.00	11,107.47	9,730.00	42.65	41.24	27.65	1,382.57	956.79	983.19	923.68	59.51	16.521		
11,900.00	10,600.00	11,207.47	9,730.00	43.35	41.98	27.65	1,482.57	956.05	983.19	922.63	60.56	16.235		
12,000.00	10,600.00	11,307.47	9,730.00	44.09	42.75	27.65	1,582.56	955.32	983.19	921.54	61.65	15.948		
12,100.00	10,600.00	11,407.47	9,730.00	44.86	43.56	27.65	1,682.56	954.59	983.19	920.41	62.78	15.660		
12,200.00	10,600.00	11,507.47	9,730.00	45.67	44.40	27.65	1,782.56	953.86	983.20	919.24	63.96	15.373		
12,300.00	10,600.00	11,607.47	9,730.00	46.50	45.28	27.65	1,882.56	953.13	983.20	918.03	65.16	15.088		
12,400.00	10,600.00	11,707.47	9,730.00	47.37	46.18	27.65	1,982.55	952.39	983.20	916.79	66.41	14.805		
12,500.00	10,600.00	11,807.47	9,730.00	48.26	47.11	27.65	2,082.55	951.66	983.20	915.52	67.68	14.526		
12,600.00	10,600.00	11,907.47	9,730.00	49.18	48.07	27.65	2,182.55	950.93	983.20	914.21	68.99	14.251		
12,700.00	10,600.00	12,007.47	9,730.00	50.13	49.05	27.65	2,282.54	950.20	983.20	912.87	70.33	13.980		
12,800.00	10,600.00	12,107.47	9,730.00	51.10	50.06	27.65	2,382.54	949.47	983.20	911.51	71.69	13.715		
12,900.00	10,600.00	12,207.47	9,730.00	52.09	51.09	27.65	2,482.54	948.73	983.20	910.12	73.08	13.454		
13,000.00	10,600.00	12,307.47	9,730.00	53.10	52.13	27.65	2,582.54	948.00	983.20	908.71	74.49	13.198		
13,100.00	10,600.00	12,407.47	9,730.00	54.14	53.20	27.65	2,682.53	947.27	983.21	907.27	75.93	12.949		
13,200.00	10,600.00	12,507.47	9,730.00	55.19	54.29	27.65	2,782.53	946.54	983.21	905.82	77.39	12.704		
13,300.00	10,600.00	12,607.47	9,730.00	56.26	55.39	27.65	2,882.53	945.81	983.21	904.34	78.87	12.466		
13,400.00	10,600.00	12,707.47	9,730.00	57.35	56.51	27.65	2,982.53	945.07	983.21	902.84	80.37	12.233		
13,500.00	10,600.00	12,807.47	9,730.00	58.45	57.64	27.65	3,082.52	944.34	983.21	901.32	81.89	12.007		
13,600.00	10,600.00	12,907.47	9,730.00	59.57	58.79	27.65	3,182.52	943.61	983.21	899.79	83.43	11.786		
13,700.00	10,600.00	13,007.47	9,730.00	60.71	59.95	27.65	3,282.52	942.88	983.21	898.23	84.98	11.570		
13,800.00	10,600.00	13,107.47	9,730.00	61.85	61.12	27.65	3,382.52	942.15	983.21	896.67	86.55	11.361		
13,900.00	10,600.00	13,207.47	9,730.00	63.01	62.30	27.65	3,482.51	941.41	983.21	895.09	88.13	11.157		
14,000.00	10,600.00	13,307.47	9,730.00	64.18	63.50	27.65	3,582.51	940.68	983.22	893.49	89.73	10.958		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,100.00	10,600.00	13,407.47	9,730.00	65.37	64.71	27.65	3,682.51	939.95	983.22	891.88	91.34	10.765	
14,200.00	10,600.00	13,507.47	9,730.00	66.56	65.92	27.65	3,782.50	939.22	983.22	890.26	92.96	10.577	
14,300.00	10,600.00	13,607.47	9,730.00	67.76	67.15	27.65	3,882.50	938.49	983.22	888.63	94.59	10.394	
14,400.00	10,600.00	13,707.47	9,730.00	68.98	68.39	27.65	3,982.50	937.75	983.22	886.98	96.24	10.216	
14,500.00	10,600.00	13,807.47	9,730.00	70.20	69.63	27.65	4,082.50	937.02	983.22	885.33	97.90	10.043	
14,600.00	10,600.00	13,907.47	9,730.00	71.43	70.88	27.65	4,182.49	936.29	983.22	883.66	99.56	9.875	
14,700.00	10,600.00	14,007.47	9,730.00	72.67	72.14	27.65	4,282.49	935.56	983.22	881.98	101.24	9.712	
14,800.00	10,600.00	14,107.47	9,730.00	73.92	73.41	27.65	4,382.49	934.83	983.22	880.30	102.93	9.553	
14,900.00	10,600.00	14,207.47	9,730.00	75.17	74.68	27.66	4,482.49	934.09	983.23	878.60	104.62	9.398	
15,000.00	10,600.00	14,307.47	9,730.00	76.44	75.96	27.66	4,582.48	933.36	983.23	876.90	106.33	9.247	
15,100.00	10,600.00	14,407.47	9,730.00	77.70	77.25	27.66	4,682.48	932.63	983.23	875.19	108.04	9.101	
15,200.00	10,600.00	14,507.47	9,730.00	78.98	78.54	27.66	4,782.48	931.90	983.23	873.47	109.76	8.958	
15,300.00	10,600.00	14,607.47	9,730.00	80.26	79.84	27.66	4,882.48	931.17	983.23	871.75	111.48	8.820	
15,400.00	10,600.00	14,707.47	9,730.00	81.55	81.14	27.66	4,982.47	930.43	983.23	870.02	113.22	8.685	
15,484.47	10,600.00	14,808.06	9,730.00	82.64	82.46	27.66	5,066.94	929.81	983.23	868.41	114.83	8.563	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.90	92.04	1,700.02	1,702.66					
100.00	100.00	77.50	77.50	0.52	0.51	86.90	92.04	1,700.02	1,702.51	1,701.48	1.03	1,655.346		
200.00	200.00	177.50	177.50	0.70	0.65	86.90	92.04	1,700.02	1,702.51	1,701.16	1.35	1,260.996		
300.00	300.00	277.50	277.50	0.99	0.92	86.90	92.04	1,700.02	1,702.51	1,700.61	1.91	893.225		
400.00	400.00	377.50	377.50	1.31	1.23	86.90	92.04	1,700.02	1,702.51	1,699.97	2.54	669.221		
500.00	500.00	477.50	477.50	1.65	1.57	86.90	92.04	1,700.02	1,702.51	1,699.30	3.22	529.467		
600.00	600.00	577.50	577.50	1.99	1.91	86.90	92.04	1,700.02	1,702.51	1,698.61	3.90	436.179		
700.00	700.00	677.50	677.50	2.34	2.26	86.90	92.04	1,700.02	1,702.51	1,697.91	4.60	370.119		
800.00	800.00	777.50	777.50	2.69	2.61	86.90	92.04	1,700.02	1,702.51	1,697.21	5.30	321.109		
900.00	900.00	877.50	877.50	3.04	2.96	86.90	92.04	1,700.02	1,702.51	1,696.51	6.01	283.395		
1,000.00	1,000.00	977.50	977.50	3.40	3.32	86.90	92.04	1,700.02	1,702.51	1,695.80	6.72	253.517		
1,100.00	1,100.00	1,077.50	1,077.50	3.75	3.67	86.90	92.04	1,700.02	1,702.51	1,695.09	7.43	229.286		
1,200.00	1,200.00	1,177.50	1,177.50	4.11	4.03	86.90	92.04	1,700.02	1,702.51	1,694.38	8.14	209.250		
1,300.00	1,300.00	1,277.50	1,277.50	4.46	4.38	86.90	92.04	1,700.02	1,702.51	1,693.66	8.85	192.413		
1,400.00	1,400.00	1,377.50	1,377.50	4.82	4.74	86.90	92.04	1,700.02	1,702.51	1,692.95	9.56	178.070		
1,500.00	1,500.00	1,477.50	1,477.50	5.18	5.10	86.90	92.04	1,700.02	1,702.51	1,692.24	10.27	165.708		
1,600.00	1,600.00	1,577.50	1,577.50	5.53	5.45	86.90	92.04	1,700.02	1,702.51	1,691.53	10.99	154.944		
1,700.00	1,700.00	1,677.50	1,677.50	5.89	5.81	86.90	92.04	1,700.02	1,702.51	1,690.81	11.70	145.488		
1,800.00	1,800.00	1,777.50	1,777.50	6.25	6.17	86.90	92.04	1,700.02	1,702.51	1,690.10	12.42	137.116		
1,900.00	1,900.00	1,877.50	1,877.50	6.61	6.53	86.90	92.04	1,700.02	1,702.51	1,689.38	13.13	129.653		
2,000.00	2,000.00	1,977.50	1,977.50	6.96	6.88	86.90	92.04	1,700.02	1,702.51	1,688.67	13.85	122.958		
2,100.00	2,099.99	2,077.49	2,077.49	7.31	7.24	-8.58	92.04	1,700.02	1,701.65	1,687.10	14.55	116.940		
2,200.00	2,199.96	2,177.46	2,177.46	7.65	7.60	-8.60	92.04	1,700.02	1,699.06	1,683.81	15.25	111.426		
2,300.00	2,299.86	2,277.36	2,277.36	7.99	7.96	-8.63	92.04	1,700.02	1,694.75	1,678.80	15.95	106.276		
2,399.87	2,399.54	2,377.04	2,377.04	8.34	8.31	-8.67	92.04	1,700.02	1,688.72	1,672.08	16.65	101.454		
2,500.00	2,499.43	2,476.93	2,476.93	8.69	8.67	-8.70	92.04	1,700.02	1,681.82	1,664.47	17.35	96.955		
2,600.00	2,599.19	2,576.69	2,576.69	9.03	9.03	-8.74	92.04	1,700.02	1,674.93	1,656.88	18.05	92.804		
2,700.00	2,698.94	2,676.44	2,676.44	9.39	9.38	-8.78	92.04	1,700.02	1,668.03	1,649.28	18.75	88.958		
2,800.00	2,798.70	2,772.50	2,772.50	9.74	9.72	-8.81	92.01	1,700.05	1,661.17	1,641.73	19.44	85.460		
2,900.00	2,898.46	2,858.24	2,858.24	10.09	10.01	-8.81	91.23	1,700.65	1,654.93	1,634.86	20.07	82.458		
3,000.00	2,998.21	2,944.06	2,944.02	10.45	10.29	-8.78	89.45	1,702.04	1,649.53	1,628.83	20.70	79.693		
3,100.00	3,097.97	3,029.91	3,029.80	10.80	10.57	-8.71	86.64	1,704.22	1,644.98	1,623.65	21.33	77.125		
3,200.00	3,197.73	3,124.23	3,123.98	11.16	10.89	-8.60	82.64	1,707.32	1,641.13	1,619.14	21.99	74.630		
3,300.00	3,297.48	3,224.10	3,223.70	11.52	11.22	-8.48	78.32	1,710.68	1,637.36	1,614.69	22.67	72.213		
3,400.00	3,397.24	3,323.97	3,323.42	11.88	11.55	-8.36	74.00	1,714.04	1,633.59	1,610.23	23.36	69.929		
3,500.00	3,497.00	3,423.84	3,423.14	12.24	11.89	-8.24	69.69	1,717.39	1,629.84	1,605.79	24.05	67.770		
3,600.00	3,596.75	3,523.71	3,522.86	12.60	12.23	-8.11	65.37	1,720.75	1,626.08	1,601.34	24.74	65.726		
3,700.00	3,696.51	3,623.58	3,622.58	12.96	12.57	-7.99	61.05	1,724.10	1,622.34	1,596.91	25.43	63.787		
3,800.00	3,796.27	3,723.44	3,722.30	13.32	12.91	-7.87	56.73	1,727.46	1,618.60	1,592.48	26.13	61.948		
3,900.00	3,896.02	3,823.31	3,822.02	13.68	13.25	-7.74	52.41	1,730.81	1,614.88	1,588.05	26.83	60.200		
4,000.00	3,995.78	3,923.18	3,921.74	14.04	13.60	-7.62	48.09	1,734.17	1,611.16	1,583.63	27.52	58.538		
4,100.00	4,095.54	4,023.05	4,021.45	14.40	13.94	-7.49	43.77	1,737.52	1,607.44	1,579.22	28.22	56.955		
4,200.00	4,195.29	4,122.92	4,121.17	14.77	14.29	-7.37	39.45	1,740.88	1,603.74	1,574.81	28.92	55.447		
4,300.00	4,295.05	4,222.79	4,220.89	15.13	14.64	-7.24	35.13	1,744.23	1,600.04	1,570.41	29.63	54.008		
4,400.00	4,394.81	4,322.66	4,320.61	15.49	14.99	-7.11	30.82	1,747.59	1,596.35	1,566.02	30.33	52.634		
4,500.00	4,494.56	4,422.53	4,420.33	15.86	15.34	-6.98	26.50	1,750.94	1,592.67	1,561.64	31.03	51.321		
4,600.00	4,594.32	4,522.40	4,520.05	16.22	15.69	-6.85	22.18	1,754.30	1,589.00	1,557.26	31.74	50.064		
4,700.00	4,694.08	4,622.26	4,619.77	16.59	16.04	-6.73	17.86	1,757.65	1,585.33	1,552.88	32.45	48.861		
4,800.00	4,793.83	4,722.13	4,719.49	16.95	16.39	-6.60	13.54	1,761.01	1,581.67	1,548.52	33.15	47.709		
4,900.00	4,893.59	4,822.00	4,819.21	17.32	16.74	-6.47	9.22	1,764.36	1,578.02	1,544.16	33.86	46.604		
5,000.00	4,993.35	4,921.87	4,918.93	17.68	17.09	-6.34	4.90	1,767.72	1,574.38	1,539.81	34.57	45.543		
5,100.00	5,093.10	5,021.74	5,018.64	18.05	17.45	-6.20	0.58	1,771.08	1,570.75	1,535.47	35.28	44.524		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,121.61	5,118.36	18.42	17.80	-6.07	-3.74	1,774.43	1,567.12	1,531.13	35.99	43.545		
5,300.00	5,292.62	5,221.48	5,218.08	18.78	18.16	-5.94	-8.05	1,777.79	1,563.51	1,526.81	36.70	42.603		
5,400.00	5,392.37	5,321.35	5,317.80	19.15	18.51	-5.81	-12.37	1,781.14	1,559.90	1,522.49	37.41	41.696		
5,500.00	5,492.13	5,421.22	5,417.52	19.52	18.87	-5.67	-16.69	1,784.50	1,556.30	1,518.18	38.12	40.823		
5,600.00	5,591.89	5,521.08	5,517.24	19.88	19.22	-5.54	-21.01	1,787.85	1,552.71	1,513.87	38.84	39.982		
5,700.00	5,691.64	5,620.95	5,616.96	20.25	19.58	-5.40	-25.33	1,791.21	1,549.13	1,509.58	39.55	39.171		
5,800.00	5,791.40	5,720.82	5,716.68	20.62	19.94	-5.27	-29.65	1,794.56	1,545.55	1,505.29	40.26	38.388		
5,900.00	5,891.16	5,820.69	5,816.40	20.98	20.29	-5.13	-33.97	1,797.92	1,541.99	1,501.01	40.98	37.632		
6,000.00	5,990.91	5,920.56	5,916.12	21.35	20.65	-4.99	-38.29	1,801.27	1,538.43	1,496.74	41.69	36.902		
6,100.00	6,090.67	6,020.43	6,015.84	21.72	21.01	-4.86	-42.61	1,804.63	1,534.88	1,492.48	42.40	36.197		
6,200.00	6,190.42	6,120.30	6,115.55	22.09	21.37	-4.72	-46.92	1,807.98	1,531.35	1,488.23	43.12	35.515		
6,300.00	6,290.18	6,220.17	6,215.27	22.45	21.72	-4.58	-51.24	1,811.34	1,527.82	1,483.98	43.83	34.855		
6,400.00	6,389.94	6,320.04	6,314.99	22.82	22.08	-4.44	-55.56	1,814.69	1,524.30	1,479.75	44.55	34.216		
6,500.00	6,489.69	6,419.90	6,414.71	23.19	22.44	-4.30	-59.88	1,818.05	1,520.78	1,475.52	45.27	33.597		
6,600.00	6,589.45	6,519.77	6,514.43	23.56	22.80	-4.16	-64.20	1,821.41	1,517.28	1,471.30	45.98	32.998		
6,700.00	6,689.21	6,619.64	6,614.15	23.93	23.16	-4.02	-68.52	1,824.76	1,513.79	1,467.09	46.70	32.417		
6,800.00	6,788.96	6,719.51	6,713.87	24.29	23.52	-3.87	-72.84	1,828.12	1,510.31	1,462.89	47.41	31.853		
6,900.00	6,888.72	6,819.38	6,813.59	24.66	23.88	-3.73	-77.16	1,831.47	1,506.83	1,458.70	48.13	31.307		
7,000.00	6,988.48	6,919.25	6,913.31	25.03	24.24	-3.59	-81.48	1,834.83	1,503.37	1,454.52	48.85	30.776		
7,100.00	7,088.23	7,019.12	7,013.03	25.40	24.60	-3.44	-85.79	1,838.18	1,499.91	1,450.34	49.57	30.261		
7,200.00	7,187.99	7,118.99	7,112.74	25.77	24.96	-3.30	-90.11	1,841.54	1,496.46	1,446.18	50.28	29.761		
7,300.00	7,287.75	7,218.86	7,212.46	26.14	25.32	-3.15	-94.43	1,844.89	1,493.03	1,442.03	51.00	29.274		
7,400.00	7,387.50	7,318.72	7,312.18	26.50	25.68	-3.01	-98.75	1,848.25	1,489.60	1,437.88	51.72	28.802		
7,500.00	7,487.26	7,418.59	7,411.90	26.87	26.04	-2.86	-103.07	1,851.60	1,486.18	1,433.75	52.44	28.342		
7,600.00	7,587.02	7,518.46	7,511.62	27.24	26.40	-2.71	-107.39	1,854.96	1,482.78	1,429.62	53.16	27.895		
7,700.00	7,686.77	7,618.33	7,611.34	27.61	26.77	-2.57	-111.71	1,858.31	1,479.38	1,425.51	53.87	27.460		
7,800.00	7,786.53	7,718.20	7,711.06	27.98	27.13	-2.42	-116.03	1,861.67	1,475.99	1,421.40	54.59	27.036		
7,900.00	7,886.29	7,818.07	7,810.78	28.35	27.49	-2.27	-120.35	1,865.02	1,472.61	1,417.30	55.31	26.624		
8,000.00	7,986.04	7,917.94	7,910.50	28.72	27.85	-2.12	-124.66	1,868.38	1,469.25	1,413.22	56.03	26.222		
8,100.00	8,085.80	8,017.81	8,010.22	29.09	28.21	-1.97	-128.98	1,871.74	1,465.89	1,409.14	56.75	25.831		
8,200.00	8,185.56	8,117.68	8,109.93	29.46	28.57	-1.81	-133.30	1,875.09	1,462.54	1,405.07	57.47	25.450		
8,300.00	8,285.31	8,217.54	8,209.65	29.83	28.94	-1.66	-137.62	1,878.45	1,459.21	1,401.02	58.19	25.078		
8,400.00	8,385.07	8,317.41	8,309.37	30.20	29.30	-1.51	-141.94	1,881.80	1,455.88	1,396.97	58.91	24.715		
8,500.00	8,484.83	8,417.28	8,409.09	30.56	29.66	-1.36	-146.26	1,885.16	1,452.56	1,392.94	59.63	24.361		
8,600.00	8,584.58	8,517.15	8,508.81	30.93	30.02	-1.20	-150.58	1,888.51	1,449.26	1,388.91	60.35	24.016		
8,700.00	8,684.34	8,620.69	8,612.19	31.30	30.40	-1.04	-155.03	1,891.97	1,445.95	1,384.87	61.08	23.674		
8,800.00	8,784.10	8,754.67	8,746.10	31.67	30.88	-0.92	-158.58	1,894.73	1,441.23	1,379.33	61.90	23.283		
8,900.00	8,883.85	8,869.93	8,861.35	32.04	31.28	-0.91	-158.96	1,895.02	1,434.50	1,371.86	62.64	22.899		
9,000.00	8,983.61	8,969.69	8,961.11	32.41	31.62	-0.91	-158.96	1,895.02	1,427.53	1,364.19	63.34	22.536		
9,100.00	9,083.37	9,069.44	9,060.87	32.78	31.95	-0.92	-158.96	1,895.02	1,420.56	1,356.51	64.04	22.182		
9,200.00	9,183.12	9,170.18	9,161.60	33.15	32.30	-0.92	-158.94	1,895.02	1,413.58	1,348.84	64.74	21.834		
9,300.00	9,282.88	9,294.78	9,285.11	33.52	32.70	-1.52	-144.46	1,894.91	1,405.64	1,340.16	65.48	21.467		
9,400.00	9,382.64	9,407.89	9,392.16	33.89	33.04	-3.00	-108.50	1,894.64	1,396.53	1,330.35	66.17	21.104		
9,428.07	9,410.64	9,436.66	9,418.08	33.99	33.11	-3.52	-96.04	1,894.55	1,393.95	1,327.58	66.36	21.004		
9,500.00	9,482.43	9,503.90	9,476.01	34.26	33.29	-4.93	-61.97	1,894.29	1,388.38	1,321.54	66.84	20.771		
9,600.00	9,582.36	9,582.46	9,538.07	34.62	33.47	-6.92	-13.90	1,893.92	1,384.70	1,317.24	67.47	20.524		
9,614.49	9,596.84	9,592.51	9,545.52	34.67	33.50	-7.20	-7.15	1,893.87	1,384.64	1,317.09	67.55	20.498 CC, ES		
9,694.65	9,677.00	9,642.73	9,580.89	34.95	33.61	86.79	28.46	1,893.60	1,386.72	1,318.76	67.97	20.403		
9,700.00	9,682.35	9,645.77	9,582.94	34.97	33.61	86.70	30.72	1,893.58	1,387.01	1,319.02	67.99	20.400		
9,800.00	9,782.35	9,696.69	9,615.27	35.31	33.72	85.08	70.03	1,893.28	1,394.91	1,326.55	68.36	20.404		
9,900.00	9,882.35	9,737.88	9,638.79	35.65	33.81	83.69	103.83	1,893.03	1,407.91	1,339.35	68.56	20.535		
10,000.00	9,982.35	9,771.55	9,656.18	35.99	33.89	82.51	132.66	1,892.81	1,426.40	1,357.83	68.57	20.802		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	9,784.64	9,662.47	36.14	33.92	82.04	144.14	1,892.72	1,436.48	1,367.97	68.51	20.968		
10,050.00	10,032.35	9,786.14	9,663.18	36.16	33.92	82.28	145.46	1,892.71	1,437.75	1,369.25	68.50	20.989		
10,100.00	10,082.26	9,800.00	9,669.52	36.32	33.95	80.53	157.78	1,892.62	1,450.13	1,381.74	68.39	21.205		
10,150.00	10,131.76	9,816.21	9,676.57	36.49	33.99	78.66	172.38	1,892.51	1,463.15	1,394.90	68.25	21.438		
10,200.00	10,180.46	9,832.38	9,683.18	36.65	34.03	76.79	187.13	1,892.39	1,476.62	1,408.54	68.08	21.689		
10,250.00	10,227.98	9,850.00	9,689.90	36.81	34.07	74.88	203.42	1,892.27	1,490.35	1,422.45	67.90	21.949		
10,300.00	10,273.98	9,866.46	9,695.73	36.95	34.11	73.05	218.81	1,892.15	1,504.15	1,436.46	67.69	22.221		
10,350.00	10,318.11	9,884.21	9,701.52	37.09	34.15	71.24	235.59	1,892.03	1,517.85	1,450.37	67.48	22.494		
10,400.00	10,360.01	9,900.00	9,706.23	37.21	34.19	69.55	250.66	1,891.91	1,531.29	1,464.03	67.25	22.769		
10,450.00	10,399.38	9,920.82	9,711.80	37.32	34.23	67.85	270.73	1,891.76	1,544.29	1,477.23	67.06	23.028		
10,500.00	10,435.92	9,950.00	9,718.37	37.42	34.30	66.11	299.15	1,891.54	1,556.81	1,489.88	66.93	23.262		
10,550.00	10,469.35	9,950.00	9,718.37	37.51	34.30	65.01	299.15	1,891.54	1,568.52	1,501.86	66.65	23.532		
10,600.00	10,499.41	9,977.84	9,723.29	37.59	34.37	63.57	326.55	1,891.33	1,579.37	1,512.81	66.55	23.731		
10,650.00	10,525.87	10,000.00	9,726.25	37.66	34.43	62.37	348.51	1,891.17	1,589.35	1,522.89	66.46	23.916		
10,700.00	10,548.54	10,016.83	9,727.92	37.74	34.47	61.38	365.26	1,891.04	1,598.28	1,531.91	66.37	24.081		
10,750.00	10,567.24	10,036.54	9,729.26	37.84	34.52	60.49	384.91	1,890.89	1,606.10	1,539.75	66.34	24.209		
10,800.00	10,581.83	10,056.35	9,729.92	37.97	34.57	59.75	404.71	1,890.74	1,612.73	1,546.36	66.36	24.302		
10,850.00	10,592.19	10,108.17	9,730.00	38.11	34.71	59.08	440.19	1,890.47	1,617.98	1,551.46	66.51	24.326		
10,900.00	10,598.26	10,141.45	9,730.00	38.25	34.81	58.63	489.81	1,890.09	1,621.12	1,554.45	66.68	24.313		
10,944.69	10,600.00	10,186.09	9,730.00	38.39	34.94	58.50	534.45	1,889.76	1,622.02	1,555.11	66.91	24.242		
11,000.00	10,600.00	10,241.40	9,730.00	38.56	35.13	58.50	589.76	1,889.33	1,622.01	1,554.76	67.25	24.118		
11,100.00	10,600.00	10,341.40	9,730.00	38.91	35.51	58.50	689.76	1,888.58	1,621.99	1,554.04	67.95	23.872		
11,200.00	10,600.00	10,441.40	9,730.00	39.31	35.95	58.50	789.75	1,887.82	1,621.97	1,553.24	68.73	23.600		
11,300.00	10,600.00	10,541.40	9,730.00	39.76	36.44	58.50	889.75	1,887.06	1,621.94	1,552.34	69.60	23.303		
11,400.00	10,600.00	10,641.40	9,730.00	40.25	36.98	58.50	989.75	1,886.30	1,621.92	1,551.36	70.56	22.986		
11,500.00	10,600.00	10,741.40	9,730.00	40.79	37.57	58.50	1,089.74	1,885.54	1,621.90	1,550.30	71.60	22.651		
11,600.00	10,600.00	10,841.40	9,730.00	41.37	38.21	58.50	1,189.74	1,884.78	1,621.88	1,549.15	72.73	22.301		
11,700.00	10,600.00	10,941.40	9,730.00	41.99	38.89	58.50	1,289.74	1,884.02	1,621.86	1,547.93	73.92	21.939		
11,800.00	10,600.00	11,041.40	9,730.00	42.65	39.61	58.50	1,389.73	1,883.26	1,621.84	1,546.64	75.19	21.569		
11,900.00	10,600.00	11,141.40	9,730.00	43.35	40.37	58.50	1,489.73	1,882.50	1,621.81	1,545.28	76.53	21.191		
12,000.00	10,600.00	11,241.40	9,730.00	44.09	41.17	58.50	1,589.73	1,881.74	1,621.79	1,543.86	77.94	20.809		
12,100.00	10,600.00	11,341.40	9,730.00	44.86	42.01	58.49	1,689.73	1,880.98	1,621.77	1,542.37	79.40	20.425		
12,200.00	10,600.00	11,441.40	9,730.00	45.67	42.88	58.49	1,789.72	1,880.22	1,621.75	1,540.83	80.92	20.041		
12,300.00	10,600.00	11,541.40	9,730.00	46.50	43.77	58.49	1,889.72	1,879.46	1,621.73	1,539.23	82.50	19.657		
12,400.00	10,600.00	11,641.40	9,730.00	47.37	44.70	58.49	1,989.72	1,878.70	1,621.71	1,537.58	84.13	19.277		
12,500.00	10,600.00	11,741.40	9,730.00	48.26	45.66	58.49	2,089.71	1,877.94	1,621.69	1,535.88	85.81	18.899		
12,600.00	10,600.00	11,841.40	9,730.00	49.18	46.64	58.49	2,189.71	1,877.18	1,621.66	1,534.13	87.53	18.527		
12,700.00	10,600.00	11,941.40	9,730.00	50.13	47.65	58.49	2,289.71	1,876.42	1,621.64	1,532.34	89.30	18.160		
12,800.00	10,600.00	12,041.40	9,730.00	51.10	48.67	58.49	2,389.71	1,875.66	1,621.62	1,530.51	91.11	17.799		
12,900.00	10,600.00	12,141.40	9,730.00	52.09	49.72	58.49	2,489.70	1,874.90	1,621.60	1,528.65	92.95	17.446		
13,000.00	10,600.00	12,241.40	9,730.00	53.10	50.79	58.49	2,589.70	1,874.14	1,621.58	1,526.74	94.83	17.099		
13,100.00	10,600.00	12,341.40	9,730.00	54.14	51.88	58.49	2,689.70	1,873.38	1,621.56	1,524.80	96.75	16.760		
13,200.00	10,600.00	12,441.40	9,730.00	55.19	52.99	58.49	2,789.69	1,872.62	1,621.53	1,522.83	98.70	16.429		
13,300.00	10,600.00	12,541.40	9,730.00	56.26	54.11	58.49	2,889.69	1,871.86	1,621.51	1,520.83	100.68	16.106		
13,400.00	10,600.00	12,641.40	9,730.00	57.35	55.25	58.49	2,989.69	1,871.10	1,621.49	1,518.81	102.69	15.791		
13,500.00	10,600.00	12,741.40	9,730.00	58.45	56.41	58.49	3,089.69	1,870.34	1,621.47	1,516.75	104.72	15.484		
13,600.00	10,600.00	12,841.40	9,730.00	59.57	57.57	58.49	3,189.68	1,869.58	1,621.45	1,514.67	106.78	15.185		
13,700.00	10,600.00	12,941.40	9,730.00	60.71	58.75	58.49	3,289.68	1,868.82	1,621.43	1,512.56	108.86	14.894		
13,800.00	10,600.00	13,041.40	9,730.00	61.85	59.94	58.49	3,389.68	1,868.06	1,621.40	1,510.44	110.97	14.611		
13,900.00	10,600.00	13,141.40	9,730.00	63.01	61.15	58.49	3,489.67	1,867.30	1,621.38	1,508.29	113.10	14.336		
14,000.00	10,600.00	13,241.40	9,730.00	64.18	62.36	58.49	3,589.67	1,866.54	1,621.36	1,506.12	115.24	14.069		
14,100.00	10,600.00	13,341.40	9,730.00	65.37	63.59	58.49	3,689.67	1,865.78	1,621.34	1,503.93	117.41	13.809		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	13,441.40	9,730.00	66.56	64.82	58.48	3,789.67	1,865.02	1,621.32	1,501.73	119.59	13.557	
14,300.00	10,600.00	13,541.40	9,730.00	67.76	66.06	58.48	3,889.66	1,864.26	1,621.30	1,499.50	121.79	13.312	
14,400.00	10,600.00	13,641.40	9,730.00	68.98	67.32	58.48	3,989.66	1,863.50	1,621.27	1,497.26	124.01	13.074	
14,500.00	10,600.00	13,741.40	9,730.00	70.20	68.58	58.48	4,089.66	1,862.74	1,621.25	1,495.01	126.24	12.842	
14,600.00	10,600.00	13,841.40	9,730.00	71.43	69.84	58.48	4,189.65	1,861.98	1,621.23	1,492.74	128.49	12.618	
14,700.00	10,600.00	13,941.40	9,730.00	72.67	71.12	58.48	4,289.65	1,861.22	1,621.21	1,490.46	130.75	12.399	
14,800.00	10,600.00	14,041.40	9,730.00	73.92	72.40	58.48	4,389.65	1,860.46	1,621.19	1,488.17	133.02	12.187	
14,900.00	10,600.00	14,141.40	9,730.00	75.17	73.69	58.48	4,489.65	1,859.70	1,621.17	1,485.86	135.31	11.981	
15,000.00	10,600.00	14,241.40	9,730.00	76.44	74.98	58.48	4,589.64	1,858.94	1,621.15	1,483.54	137.61	11.781	
15,100.00	10,600.00	14,341.40	9,730.00	77.70	76.28	58.48	4,689.64	1,858.18	1,621.12	1,481.21	139.91	11.587	
15,200.00	10,600.00	14,441.40	9,730.00	78.98	77.59	58.48	4,789.64	1,857.42	1,621.10	1,478.87	142.23	11.397	
15,300.00	10,600.00	14,541.40	9,730.00	80.26	78.90	58.48	4,889.63	1,856.66	1,621.08	1,476.52	144.56	11.214	
15,400.00	10,600.00	14,641.40	9,730.00	81.55	80.21	58.48	4,989.63	1,855.91	1,621.06	1,474.16	146.90	11.035	
15,484.47	10,600.00	14,725.87	9,730.00	82.64	81.33	58.48	5,074.10	1,855.26	1,621.04	1,472.16	148.88	10.888 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.95	92.21	1,730.02	1,732.63					
100.00	100.00	77.30	77.30	0.52	0.51	86.95	92.21	1,730.02	1,732.48	1,731.45	1.03	1,684.572		
200.00	200.00	177.30	177.30	0.70	0.65	86.95	92.21	1,730.02	1,732.48	1,731.13	1.35	1,283.624		
300.00	300.00	277.30	277.30	0.99	0.92	86.95	92.21	1,730.02	1,732.48	1,730.57	1.91	909.233		
400.00	400.00	377.30	377.30	1.31	1.23	86.95	92.21	1,730.02	1,732.48	1,729.94	2.54	681.175		
500.00	500.00	477.30	477.30	1.65	1.57	86.95	92.21	1,730.02	1,732.48	1,729.26	3.21	538.900		
600.00	600.00	577.30	577.30	1.99	1.91	86.95	92.21	1,730.02	1,732.48	1,728.58	3.90	443.935		
700.00	700.00	677.30	677.30	2.34	2.26	86.95	92.21	1,730.02	1,732.48	1,727.88	4.60	376.691		
800.00	800.00	777.30	777.30	2.69	2.61	86.95	92.21	1,730.02	1,732.48	1,727.18	5.30	326.804		
900.00	900.00	877.30	877.30	3.04	2.96	86.95	92.21	1,730.02	1,732.48	1,726.47	6.01	288.417		
1,000.00	1,000.00	977.30	977.30	3.40	3.32	86.95	92.21	1,730.02	1,732.48	1,725.76	6.71	258.007		
1,100.00	1,100.00	1,077.30	1,077.30	3.75	3.67	86.95	92.21	1,730.02	1,732.48	1,725.05	7.42	233.344		
1,200.00	1,200.00	1,177.30	1,177.30	4.11	4.03	86.95	92.21	1,730.02	1,732.48	1,724.34	8.14	212.952		
1,300.00	1,300.00	1,277.30	1,277.30	4.46	4.38	86.95	92.21	1,730.02	1,732.48	1,723.63	8.85	195.816		
1,400.00	1,400.00	1,377.30	1,377.30	4.82	4.74	86.95	92.21	1,730.02	1,732.48	1,722.92	9.56	181.218		
1,500.00	1,500.00	1,477.30	1,477.30	5.18	5.10	86.95	92.21	1,730.02	1,732.48	1,722.21	10.27	168.636		
1,600.00	1,600.00	1,577.30	1,577.30	5.53	5.45	86.95	92.21	1,730.02	1,732.48	1,721.49	10.99	157.681		
1,700.00	1,700.00	1,677.30	1,677.30	5.89	5.81	86.95	92.21	1,730.02	1,732.48	1,720.78	11.70	148.058		
1,800.00	1,800.00	1,777.30	1,777.30	6.25	6.17	86.95	92.21	1,730.02	1,732.48	1,720.06	12.42	139.538		
1,900.00	1,900.00	1,877.30	1,877.30	6.61	6.52	86.95	92.21	1,730.02	1,732.48	1,719.35	13.13	131.942		
2,000.00	2,000.00	1,977.30	1,977.30	6.96	6.88	86.95	92.21	1,730.02	1,732.48	1,718.63	13.85	125.129		
2,100.00	2,099.99	2,077.29	2,077.29	7.31	7.24	-8.53	92.21	1,730.02	1,731.62	1,717.07	14.55	119.005		
2,200.00	2,199.96	2,177.26	2,177.26	7.65	7.60	-8.55	92.21	1,730.02	1,729.03	1,713.78	15.25	113.396		
2,300.00	2,299.86	2,277.16	2,277.16	7.99	7.95	-8.58	92.21	1,730.02	1,724.71	1,708.77	15.95	108.160		
2,399.87	2,399.54	2,370.81	2,370.81	8.34	8.29	-8.62	92.20	1,730.06	1,718.73	1,702.11	16.62	103.410		
2,500.00	2,499.43	2,448.35	2,448.35	8.69	8.55	-8.64	92.04	1,730.85	1,712.83	1,695.61	17.23	99.428		
2,600.00	2,599.19	2,525.90	2,525.87	9.03	8.81	-8.65	91.65	1,732.66	1,708.25	1,690.42	17.83	95.811		
2,700.00	2,698.94	2,603.53	2,603.44	9.39	9.08	-8.65	91.05	1,735.51	1,704.96	1,686.53	18.43	92.500		
2,800.00	2,798.70	2,681.21	2,681.02	9.74	9.34	-8.64	90.22	1,739.39	1,702.99	1,683.95	19.03	89.468		
2,900.00	2,898.46	2,758.91	2,758.56	10.09	9.61	-8.62	89.18	1,744.29	1,702.32	1,682.69	19.64	86.692		
2,900.77	2,899.23	2,759.51	2,759.16	10.09	9.61	-8.62	89.17	1,744.33	1,702.32	1,682.68	19.64	86.672 CC, ES		
3,000.00	2,998.21	2,836.61	2,836.03	10.45	9.88	-8.60	87.92	1,750.23	1,702.97	1,682.73	20.24	84.151		
3,100.00	3,097.97	2,914.28	2,913.37	10.80	10.15	-8.56	86.45	1,757.18	1,704.92	1,684.09	20.84	81.825		
3,200.00	3,197.73	2,991.88	2,990.54	11.16	10.42	-8.52	84.76	1,765.16	1,708.19	1,686.75	21.43	79.696		
3,300.00	3,297.48	3,069.40	3,067.51	11.52	10.69	-8.47	82.85	1,774.15	1,712.76	1,690.73	22.03	77.750		
3,400.00	3,397.24	3,146.80	3,144.23	11.88	10.97	-8.40	80.73	1,784.13	1,718.64	1,696.02	22.62	75.973		
3,500.00	3,497.00	3,224.05	3,220.67	12.24	11.25	-8.33	78.40	1,795.11	1,725.83	1,702.61	23.21	74.351		
3,600.00	3,596.75	3,300.00	3,295.65	12.60	11.53	-8.26	75.91	1,806.89	1,734.31	1,710.52	23.79	72.892		
3,700.00	3,696.51	3,378.01	3,372.50	12.96	11.81	-8.17	73.12	1,820.00	1,744.10	1,719.72	24.38	71.530		
3,800.00	3,796.27	3,454.66	3,447.83	13.32	12.10	-8.08	70.18	1,833.87	1,755.18	1,730.22	24.96	70.311		
3,900.00	3,896.02	3,542.09	3,533.54	13.68	12.44	-7.96	66.61	1,850.71	1,767.41	1,741.81	25.60	69.035		
4,000.00	3,995.78	3,641.24	3,630.72	14.04	12.82	-7.83	62.53	1,869.95	1,779.82	1,753.51	26.31	67.656		
4,100.00	4,095.54	3,740.38	3,727.90	14.40	13.21	-7.71	58.45	1,889.19	1,792.23	1,765.22	27.01	66.343		
4,200.00	4,195.29	3,839.53	3,825.08	14.77	13.60	-7.58	54.37	1,908.43	1,804.66	1,776.93	27.72	65.093		
4,300.00	4,295.05	3,938.68	3,922.26	15.13	13.99	-7.46	50.29	1,927.67	1,817.09	1,788.65	28.44	63.901		
4,400.00	4,394.81	4,037.83	4,019.44	15.49	14.39	-7.34	46.20	1,946.91	1,829.53	1,800.38	29.15	62.763		
4,500.00	4,494.56	4,136.98	4,116.61	15.86	14.80	-7.22	42.12	1,966.15	1,841.98	1,812.11	29.86	61.677		
4,600.00	4,594.32	4,236.13	4,213.79	16.22	15.20	-7.10	38.04	1,985.39	1,854.43	1,823.85	30.58	60.639		
4,700.00	4,694.08	4,335.27	4,310.97	16.59	15.61	-6.98	33.96	2,004.63	1,866.90	1,835.60	31.30	59.646		
4,800.00	4,793.83	4,434.42	4,408.15	16.95	16.02	-6.87	29.88	2,023.87	1,879.37	1,847.35	32.02	58.696		
4,900.00	4,893.59	4,533.57	4,505.33	17.32	16.44	-6.75	25.80	2,043.11	1,891.85	1,859.11	32.74	57.785		
5,000.00	4,993.35	4,632.72	4,602.50	17.68	16.85	-6.64	21.72	2,062.35	1,904.34	1,870.87	33.46	56.912		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	4,731.87	4,699.68	18.05	17.27	-6.53	17.64	2,081.59	1,916.83	1,882.65	34.18	56.075		
5,200.00	5,192.86	4,831.02	4,796.86	18.42	17.69	-6.42	13.55	2,100.83	1,929.33	1,894.42	34.91	55.270		
5,300.00	5,292.62	4,930.17	4,894.04	18.78	18.11	-6.31	9.47	2,120.07	1,941.84	1,906.20	35.63	54.498		
5,400.00	5,392.37	5,029.31	4,991.22	19.15	18.54	-6.20	5.39	2,139.31	1,954.35	1,917.99	36.36	53.755		
5,500.00	5,492.13	5,128.46	5,088.40	19.52	18.96	-6.10	1.31	2,158.55	1,966.87	1,929.79	37.08	53.040		
5,600.00	5,591.89	5,227.61	5,185.57	19.88	19.39	-6.00	-2.77	2,177.79	1,979.40	1,941.59	37.81	52.352		
5,700.00	5,691.64	5,326.76	5,282.75	20.25	19.82	-5.89	-6.85	2,197.03	1,991.93	1,953.39	38.54	51.689		
5,800.00	5,791.40	5,425.91	5,379.93	20.62	20.24	-5.79	-10.93	2,216.27	2,004.47	1,965.21	39.27	51.050		
5,900.00	5,891.16	5,525.06	5,477.11	20.98	20.67	-5.69	-15.01	2,235.51	2,017.02	1,977.02	39.99	50.433		
6,000.00	5,990.91	5,624.21	5,574.29	21.35	21.11	-5.59	-19.10	2,254.75	2,029.57	1,988.85	40.72	49.838		
6,100.00	6,090.67	5,723.35	5,671.46	21.72	21.54	-5.49	-23.18	2,273.99	2,042.13	2,000.67	41.45	49.264		
6,200.00	6,190.42	5,822.50	5,768.64	22.09	21.97	-5.40	-27.26	2,293.23	2,054.69	2,012.51	42.18	48.709		
6,300.00	6,290.18	5,921.65	5,865.82	22.45	22.41	-5.30	-31.34	2,312.47	2,067.26	2,024.34	42.91	48.172		
6,400.00	6,389.94	6,020.80	5,963.00	22.82	22.84	-5.21	-35.42	2,331.71	2,079.83	2,036.19	43.65	47.653		
6,500.00	6,489.69	6,119.95	6,060.18	23.19	23.28	-5.12	-39.50	2,350.95	2,092.41	2,048.04	44.38	47.151		
6,600.00	6,589.45	6,219.10	6,157.35	23.56	23.71	-5.02	-43.58	2,370.19	2,105.00	2,059.89	45.11	46.665		
6,700.00	6,689.21	6,318.25	6,254.53	23.93	24.15	-4.93	-47.66	2,389.43	2,117.59	2,071.75	45.84	46.194		
6,800.00	6,788.96	6,417.39	6,351.71	24.29	24.59	-4.84	-51.74	2,408.67	2,130.19	2,083.61	46.57	45.738		
6,900.00	6,888.72	6,516.54	6,448.89	24.66	25.03	-4.75	-55.83	2,427.91	2,142.79	2,095.48	47.31	45.296		
7,000.00	6,988.48	6,615.69	6,546.07	25.03	25.47	-4.67	-59.91	2,447.15	2,155.39	2,107.35	48.04	44.867		
7,100.00	7,088.23	6,714.84	6,643.25	25.40	25.91	-4.58	-63.99	2,466.39	2,168.00	2,119.23	48.77	44.450		
7,200.00	7,187.99	6,813.99	6,740.42	25.77	26.35	-4.49	-68.07	2,485.63	2,180.62	2,131.11	49.51	44.046		
7,300.00	7,287.75	6,913.14	6,837.60	26.14	26.79	-4.41	-72.15	2,504.87	2,193.24	2,143.00	50.24	43.654		
7,400.00	7,387.50	7,012.28	6,934.78	26.50	27.23	-4.33	-76.23	2,524.11	2,205.87	2,154.89	50.98	43.273		
7,500.00	7,487.26	7,111.43	7,031.96	26.87	27.68	-4.24	-80.31	2,543.35	2,218.50	2,166.78	51.71	42.902		
7,600.00	7,587.02	7,210.58	7,129.14	27.24	28.12	-4.16	-84.39	2,562.59	2,231.13	2,178.68	52.45	42.542		
7,700.00	7,686.77	7,309.73	7,226.31	27.61	28.56	-4.08	-88.48	2,581.83	2,243.77	2,190.59	53.18	42.191		
7,800.00	7,786.53	7,408.88	7,323.49	27.98	29.01	-4.00	-92.56	2,601.07	2,256.41	2,202.50	53.92	41.850		
7,900.00	7,886.29	7,508.03	7,420.67	28.35	29.45	-3.92	-96.64	2,620.31	2,269.06	2,214.41	54.65	41.519		
8,000.00	7,986.04	7,607.18	7,517.85	28.72	29.89	-3.84	-100.72	2,639.55	2,281.71	2,226.32	55.39	41.195		
8,100.00	8,085.80	7,706.32	7,615.03	29.09	30.34	-3.77	-104.80	2,658.79	2,294.37	2,238.24	56.12	40.881		
8,200.00	8,185.56	7,805.47	7,712.21	29.46	30.78	-3.69	-108.88	2,678.03	2,307.03	2,250.17	56.86	40.574		
8,300.00	8,285.31	7,904.62	7,809.38	29.83	31.23	-3.61	-112.96	2,697.27	2,319.69	2,262.09	57.60	40.275		
8,400.00	8,385.07	8,003.77	7,906.56	30.20	31.68	-3.54	-117.04	2,716.51	2,332.36	2,274.03	58.33	39.984		
8,500.00	8,484.83	8,102.92	8,003.74	30.56	32.12	-3.46	-121.13	2,735.75	2,345.03	2,285.96	59.07	39.700		
8,600.00	8,584.58	8,203.85	8,101.52	30.93	32.57	-3.34	-125.09	2,755.00	2,357.79	2,298.03	60.00	39.412		
8,700.00	8,684.34	8,303.78	8,200.39	31.30	33.02	-3.23	-129.04	2,774.25	2,370.53	2,310.10	61.00	39.120		
8,800.00	8,784.10	8,403.71	8,299.30	31.67	33.47	-3.12	-133.00	2,793.50	2,383.27	2,322.17	62.00	38.828		
8,900.00	8,883.85	8,503.64	8,398.21	32.04	33.92	-3.01	-136.96	2,812.75	2,396.01	2,334.24	63.00	38.536		
9,000.00	8,983.61	8,603.57	8,497.12	32.41	34.37	-2.90	-140.92	2,832.00	2,408.75	2,346.29	64.00	38.244		
9,100.00	9,083.37	8,703.50	8,596.03	32.78	34.82	-2.79	-144.88	2,851.25	2,421.49	2,358.53	65.00	37.952		
9,200.00	9,183.12	8,803.43	8,694.94	33.15	35.27	-2.68	-148.84	2,870.50	2,434.23	2,370.77	66.00	37.660		
9,300.00	9,282.88	8,903.36	8,793.85	33.52	35.72	-2.57	-152.80	2,889.75	2,446.97	2,383.01	67.00	37.368		
9,400.00	9,382.64	9,003.29	8,892.76	33.89	36.17	-2.46	-156.76	2,909.00	2,459.71	2,395.25	68.00	37.076		
9,428.07	9,410.64	9,526.44	9,412.01	33.99	37.04	-4.73	-78.93	2,818.57	2,317.15	2,249.77	67.39	34.386		
9,500.00	9,482.43	9,592.77	9,469.57	34.26	37.18	-5.55	-46.05	2,818.32	2,312.28	2,244.41	67.87	34.069		
9,600.00	9,582.36	9,670.78	9,531.86	34.62	37.32	-6.71	0.82	2,817.96	2,308.83	2,240.31	68.52	33.696		
9,626.58	9,608.93	9,688.94	9,545.40	34.71	37.34	-7.01	12.91	2,817.87	2,308.66	2,239.98	68.68	33.613		
9,694.65	9,677.00	9,731.03	9,575.28	34.95	37.40	87.73	42.55	2,817.64	2,309.81	2,240.72	69.09	33.431		
9,700.00	9,682.35	9,734.09	9,577.36	34.97	37.40	87.67	44.79	2,817.63	2,310.00	2,240.88	69.12	33.419		
9,800.00	9,782.35	9,785.29	9,610.43	35.31	37.46	86.70	83.85	2,817.33	2,314.97	2,245.31	69.66	33.232		
9,900.00	9,882.35	9,826.89	9,634.65	35.65	37.49	85.87	117.66	2,817.07	2,323.01	2,252.88	70.13	33.124		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	9,982.35	9,861.02	9,652.64	35.99	37.52	85.15	146.65	2,816.85	2,334.41	2,263.89	70.52	33.103		
10,044.69	10,027.04	9,874.31	9,659.18	36.14	37.52	84.86	158.23	2,816.76	2,340.65	2,269.98	70.67	33.122		
10,050.00	10,032.35	9,875.83	9,659.91	36.16	37.52	85.17	159.56	2,816.75	2,341.43	2,270.75	70.68	33.125		
10,100.00	10,082.26	9,890.65	9,666.84	36.32	37.53	84.09	172.66	2,816.65	2,349.11	2,278.28	70.83	33.166		
10,150.00	10,131.76	9,900.00	9,671.04	36.49	37.54	83.08	181.01	2,816.59	2,357.22	2,286.29	70.93	33.232		
10,200.00	10,180.46	9,922.61	9,680.63	36.65	37.54	81.80	201.49	2,816.43	2,365.60	2,294.54	71.06	33.288		
10,250.00	10,227.98	9,939.53	9,687.27	36.81	37.55	80.63	217.05	2,816.32	2,374.19	2,303.03	71.16	33.365		
10,300.00	10,273.98	9,950.00	9,691.15	36.95	37.55	79.57	226.77	2,816.24	2,382.88	2,311.66	71.21	33.461		
10,350.00	10,318.11	9,974.82	9,699.63	37.09	37.56	78.31	250.09	2,816.06	2,391.49	2,320.18	71.31	33.536		
10,400.00	10,360.01	10,000.00	9,707.19	37.21	37.56	77.10	274.11	2,815.88	2,400.00	2,328.59	71.40	33.613		
10,450.00	10,399.38	10,011.62	9,710.33	37.32	37.56	76.13	285.30	2,815.80	2,408.22	2,336.78	71.44	33.712		
10,500.00	10,435.92	10,030.47	9,714.92	37.42	37.57	75.11	303.58	2,815.66	2,416.12	2,344.62	71.50	33.794		
10,550.00	10,469.35	10,050.00	9,719.05	37.51	37.57	74.16	322.67	2,815.51	2,423.59	2,352.03	71.56	33.866		
10,600.00	10,499.41	10,068.86	9,722.41	37.59	37.57	73.30	341.22	2,815.37	2,430.54	2,358.91	71.63	33.931		
10,650.00	10,525.87	10,100.00	9,726.63	37.66	37.57	72.40	372.07	2,815.14	2,436.97	2,365.21	71.76	33.961		
10,700.00	10,548.54	10,100.00	9,726.63	37.74	37.57	71.86	372.07	2,815.14	2,442.63	2,370.84	71.79	34.023		
10,750.00	10,567.24	10,127.72	9,728.96	37.84	37.58	71.20	399.69	2,814.93	2,447.58	2,375.64	71.94	34.024		
10,800.00	10,581.83	10,150.00	9,729.87	37.97	37.58	70.68	421.95	2,814.76	2,451.78	2,379.70	72.08	34.015		
10,850.00	10,592.19	10,175.29	9,730.00	38.11	37.59	70.25	447.24	2,814.56	2,455.13	2,382.88	72.25	33.980		
10,900.00	10,598.26	10,224.91	9,730.00	38.25	37.61	69.93	496.85	2,814.19	2,457.20	2,384.68	72.52	33.883		
10,944.69	10,600.00	10,269.55	9,730.00	38.39	37.64	69.83	541.50	2,813.85	2,457.79	2,385.00	72.79	33.766		
11,000.00	10,600.00	10,324.86	9,730.00	38.56	37.69	69.83	596.81	2,813.43	2,457.78	2,384.63	73.15	33.600		
11,100.00	10,600.00	10,424.86	9,730.00	38.91	37.84	69.83	696.80	2,812.66	2,457.75	2,383.87	73.88	33.267		
11,200.00	10,600.00	10,524.86	9,730.00	39.31	38.08	69.83	796.80	2,811.90	2,457.73	2,383.02	74.71	32.899		
11,300.00	10,600.00	10,624.86	9,730.00	39.76	38.41	69.83	896.80	2,811.14	2,457.70	2,382.07	75.63	32.498		
11,400.00	10,600.00	10,724.86	9,730.00	40.25	38.83	69.83	996.80	2,810.38	2,457.68	2,381.04	76.64	32.069		
11,500.00	10,600.00	10,824.86	9,730.00	40.79	39.33	69.83	1,096.79	2,809.62	2,457.65	2,379.91	77.74	31.615		
11,600.00	10,600.00	10,924.86	9,730.00	41.37	39.89	69.83	1,196.79	2,808.86	2,457.63	2,378.71	78.92	31.142		
11,700.00	10,600.00	11,024.86	9,730.00	41.99	40.51	69.83	1,296.79	2,808.10	2,457.60	2,377.42	80.18	30.652		
11,800.00	10,600.00	11,124.86	9,730.00	42.65	41.17	69.83	1,396.78	2,807.34	2,457.58	2,376.06	81.52	30.149		
11,900.00	10,600.00	11,224.86	9,730.00	43.35	41.88	69.83	1,496.78	2,806.58	2,457.55	2,374.63	82.92	29.636		
12,000.00	10,600.00	11,324.86	9,730.00	44.09	42.64	69.83	1,596.78	2,805.82	2,457.53	2,373.12	84.40	29.117		
12,100.00	10,600.00	11,424.86	9,730.00	44.86	43.43	69.83	1,696.77	2,805.06	2,457.50	2,371.56	85.94	28.594		
12,200.00	10,600.00	11,524.86	9,730.00	45.67	44.25	69.83	1,796.77	2,804.29	2,457.48	2,369.93	87.55	28.070		
12,300.00	10,600.00	11,624.86	9,730.00	46.50	45.11	69.83	1,896.77	2,803.53	2,457.45	2,368.24	89.21	27.547		
12,400.00	10,600.00	11,724.86	9,730.00	47.37	46.00	69.83	1,996.77	2,802.77	2,457.43	2,366.50	90.93	27.026		
12,500.00	10,600.00	11,824.86	9,730.00	48.26	46.91	69.83	2,096.76	2,802.01	2,457.40	2,364.70	92.70	26.510		
12,600.00	10,600.00	11,924.86	9,730.00	49.18	47.86	69.83	2,196.76	2,801.25	2,457.38	2,362.86	94.52	26.000		
12,700.00	10,600.00	12,024.86	9,730.00	50.13	48.83	69.83	2,296.76	2,800.49	2,457.35	2,360.97	96.38	25.496		
12,800.00	10,600.00	12,124.86	9,730.00	51.10	49.82	69.83	2,396.75	2,799.73	2,457.33	2,359.04	98.29	25.001		
12,900.00	10,600.00	12,224.86	9,730.00	52.09	50.83	69.83	2,496.75	2,798.97	2,457.30	2,357.06	100.24	24.514		
13,000.00	10,600.00	12,324.86	9,730.00	53.10	51.87	69.83	2,596.75	2,798.21	2,457.28	2,355.05	102.23	24.037		
13,100.00	10,600.00	12,424.86	9,730.00	54.14	52.92	69.83	2,696.75	2,797.45	2,457.25	2,353.00	104.25	23.570		
13,200.00	10,600.00	12,524.86	9,730.00	55.19	54.00	69.83	2,796.74	2,796.68	2,457.23	2,350.92	106.31	23.113		
13,300.00	10,600.00	12,624.86	9,730.00	56.26	55.09	69.83	2,896.74	2,795.92	2,457.20	2,348.80	108.40	22.667		
13,400.00	10,600.00	12,724.86	9,730.00	57.35	56.20	69.83	2,996.74	2,795.16	2,457.18	2,346.65	110.53	22.232		
13,500.00	10,600.00	12,824.86	9,730.00	58.45	57.32	69.83	3,096.73	2,794.40	2,457.15	2,344.47	112.68	21.807		
13,600.00	10,600.00	12,924.86	9,730.00	59.57	58.46	69.83	3,196.73	2,793.64	2,457.13	2,342.27	114.86	21.393		
13,700.00	10,600.00	13,024.86	9,730.00	60.71	59.61	69.83	3,296.73	2,792.88	2,457.10	2,340.04	117.06	20.990		
13,800.00	10,600.00	13,124.86	9,730.00	61.85	60.78	69.83	3,396.73	2,792.12	2,457.08	2,337.79	119.29	20.597		
13,900.00	10,600.00	13,224.86	9,730.00	63.01	61.95	69.83	3,496.72	2,791.36	2,457.05	2,335.51	121.54	20.215		
14,000.00	10,600.00	13,324.86	9,730.00	64.18	63.14	69.83	3,596.72	2,790.60	2,457.03	2,333.21	123.82	19.844		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	13,424.86	9,730.00	65.37	64.34	69.83	3,696.72	2,789.84	2,457.00	2,330.89	126.11	19.483	
14,200.00	10,600.00	13,524.86	9,730.00	66.56	65.55	69.83	3,796.71	2,789.07	2,456.98	2,328.55	128.43	19.131	
14,300.00	10,600.00	13,624.86	9,730.00	67.76	66.77	69.83	3,896.71	2,788.31	2,456.95	2,326.19	130.76	18.790	
14,400.00	10,600.00	13,724.86	9,730.00	68.98	68.00	69.83	3,996.71	2,787.55	2,456.93	2,323.82	133.11	18.458	
14,500.00	10,600.00	13,824.86	9,730.00	70.20	69.24	69.83	4,096.71	2,786.79	2,456.90	2,321.43	135.48	18.135	
14,600.00	10,600.00	13,924.86	9,730.00	71.43	70.48	69.83	4,196.70	2,786.03	2,456.88	2,319.02	137.86	17.822	
14,700.00	10,600.00	14,024.86	9,730.00	72.67	71.74	69.83	4,296.70	2,785.27	2,456.85	2,316.60	140.26	17.517	
14,800.00	10,600.00	14,124.86	9,730.00	73.92	73.00	69.83	4,396.70	2,784.51	2,456.83	2,314.16	142.67	17.221	
14,900.00	10,600.00	14,224.86	9,730.00	75.17	74.27	69.83	4,496.69	2,783.75	2,456.80	2,311.71	145.09	16.933	
15,000.00	10,600.00	14,324.86	9,730.00	76.44	75.54	69.83	4,596.69	2,782.99	2,456.78	2,309.25	147.53	16.653	
15,100.00	10,600.00	14,424.86	9,730.00	77.70	76.82	69.83	4,696.69	2,782.23	2,456.75	2,306.77	149.98	16.380	
15,200.00	10,600.00	14,524.86	9,730.00	78.98	78.11	69.82	4,796.68	2,781.47	2,456.73	2,304.29	152.44	16.116	
15,300.00	10,600.00	14,624.86	9,730.00	80.26	79.40	69.82	4,896.68	2,780.70	2,456.70	2,301.79	154.92	15.858	
15,400.00	10,600.00	14,724.86	9,730.00	81.55	80.70	69.82	4,996.68	2,779.94	2,456.68	2,299.28	157.40	15.608	
15,484.47	10,600.00	14,809.33	9,730.00	82.64	81.80	69.82	5,081.15	2,779.30	2,456.66	2,297.15	159.50	15.402 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	86.85	91.87	1,670.02	1,672.70					
100.00	100.00	77.60	77.60	0.52	0.51	86.85	91.87	1,670.02	1,672.55	1,671.52	1.03	1,626.168		
200.00	200.00	177.60	177.60	0.70	0.65	86.85	91.87	1,670.02	1,672.55	1,671.20	1.35	1,238.593		
300.00	300.00	277.60	277.60	0.99	0.92	86.85	91.87	1,670.02	1,672.55	1,670.64	1.91	877.365		
400.00	400.00	377.60	377.60	1.31	1.24	86.85	91.87	1,670.02	1,672.55	1,670.00	2.54	657.358		
500.00	500.00	477.60	477.60	1.65	1.57	86.85	91.87	1,670.02	1,672.55	1,669.33	3.22	520.093		
600.00	600.00	577.60	577.60	1.99	1.91	86.85	91.87	1,670.02	1,672.55	1,668.64	3.90	428.464		
700.00	700.00	677.60	677.60	2.34	2.26	86.85	91.87	1,670.02	1,672.55	1,667.95	4.60	363.577		
800.00	800.00	777.60	777.60	2.69	2.61	86.85	91.87	1,670.02	1,672.55	1,667.25	5.30	315.436		
900.00	900.00	877.60	877.60	3.04	2.96	86.85	91.87	1,670.02	1,672.55	1,666.54	6.01	278.390		
1,000.00	1,000.00	977.60	977.60	3.40	3.32	86.85	91.87	1,670.02	1,672.55	1,665.83	6.72	249.042		
1,100.00	1,100.00	1,077.60	1,077.60	3.75	3.67	86.85	91.87	1,670.02	1,672.55	1,665.12	7.43	225.240		
1,200.00	1,200.00	1,177.60	1,177.60	4.11	4.03	86.85	91.87	1,670.02	1,672.55	1,664.41	8.14	205.558		
1,300.00	1,300.00	1,277.60	1,277.60	4.46	4.38	86.85	91.87	1,670.02	1,672.55	1,663.70	8.85	189.019		
1,400.00	1,400.00	1,377.60	1,377.60	4.82	4.74	86.85	91.87	1,670.02	1,672.55	1,662.99	9.56	174.930		
1,500.00	1,500.00	1,477.60	1,477.60	5.18	5.10	86.85	91.87	1,670.02	1,672.55	1,662.27	10.27	162.786		
1,600.00	1,600.00	1,577.60	1,577.60	5.53	5.45	86.85	91.87	1,670.02	1,672.55	1,661.56	10.99	152.212		
1,700.00	1,700.00	1,677.60	1,677.60	5.89	5.81	86.85	91.87	1,670.02	1,672.55	1,660.85	11.70	142.923		
1,800.00	1,800.00	1,777.60	1,777.60	6.25	6.17	86.85	91.87	1,670.02	1,672.55	1,660.13	12.42	134.699		
1,900.00	1,900.00	1,877.60	1,877.60	6.61	6.53	86.85	91.87	1,670.02	1,672.55	1,659.42	13.13	127.368		
2,000.00	2,000.00	1,977.60	1,977.60	6.96	6.88	86.85	91.87	1,670.02	1,672.55	1,658.70	13.85	120.791		
2,100.00	2,099.99	2,077.59	2,077.59	7.31	7.24	-8.63	91.87	1,670.02	1,671.69	1,657.13	14.55	114.878		
2,200.00	2,199.96	2,177.56	2,177.56	7.65	7.60	-8.65	91.87	1,670.02	1,669.10	1,653.85	15.25	109.458		
2,300.00	2,299.86	2,277.46	2,277.46	7.99	7.96	-8.68	91.87	1,670.02	1,664.79	1,648.84	15.95	104.394		
2,399.87	2,399.54	2,377.14	2,377.14	8.34	8.31	-8.72	91.87	1,670.02	1,658.76	1,642.11	16.65	99.652		
2,500.00	2,499.43	2,477.03	2,477.03	8.69	8.67	-8.76	91.87	1,670.02	1,651.86	1,634.51	17.35	95.225		
2,600.00	2,599.19	2,576.79	2,576.79	9.03	9.03	-8.79	91.87	1,670.02	1,644.97	1,626.92	18.05	91.142		
2,700.00	2,698.94	2,676.54	2,676.54	9.39	9.38	-8.83	91.87	1,670.02	1,638.07	1,619.32	18.75	87.359		
2,800.00	2,798.70	2,776.30	2,776.30	9.74	9.74	-8.87	91.87	1,670.02	1,631.18	1,611.73	19.46	83.843		
2,900.00	2,898.46	2,876.06	2,876.06	10.09	10.10	-8.91	91.87	1,670.02	1,624.29	1,604.13	20.16	80.569		
3,000.00	2,998.21	2,975.81	2,975.81	10.45	10.46	-8.94	91.87	1,670.02	1,617.40	1,596.54	20.87	77.513		
3,100.00	3,097.97	3,075.57	3,075.57	10.80	10.81	-8.98	91.87	1,670.02	1,610.52	1,588.94	21.57	74.653		
3,200.00	3,197.73	3,175.33	3,175.33	11.16	11.17	-9.02	91.87	1,670.02	1,603.63	1,581.35	22.28	71.973		
3,300.00	3,297.48	3,275.08	3,275.08	11.52	11.53	-9.06	91.87	1,670.02	1,596.74	1,573.75	22.99	69.455		
3,400.00	3,397.24	3,374.84	3,374.84	11.88	11.88	-9.10	91.87	1,670.02	1,589.85	1,566.16	23.70	67.087		
3,500.00	3,497.00	3,474.60	3,474.60	12.24	12.24	-9.14	91.87	1,670.02	1,582.97	1,558.56	24.41	64.854		
3,600.00	3,596.75	3,574.35	3,574.35	12.60	12.60	-9.18	91.87	1,670.02	1,576.08	1,550.97	25.12	62.746		
3,700.00	3,696.51	3,674.11	3,674.11	12.96	12.96	-9.22	91.87	1,670.02	1,569.20	1,543.37	25.83	60.752		
3,800.00	3,796.27	3,773.87	3,773.87	13.32	13.31	-9.26	91.87	1,670.02	1,562.32	1,535.78	26.54	58.865		
3,900.00	3,896.02	3,873.62	3,873.62	13.68	13.67	-9.30	91.87	1,670.02	1,555.43	1,528.18	27.25	57.075		
4,000.00	3,995.78	3,973.38	3,973.38	14.04	14.03	-9.35	91.87	1,670.02	1,548.55	1,520.59	27.96	55.376		
4,100.00	4,095.54	4,077.29	4,077.29	14.40	14.39	-9.37	91.35	1,669.95	1,541.57	1,512.90	28.68	53.757		
4,200.00	4,195.29	4,182.65	4,182.62	14.77	14.73	-9.33	88.98	1,669.64	1,534.24	1,504.87	29.37	52.232		
4,300.00	4,295.05	4,285.56	4,285.45	15.13	15.06	-9.22	84.97	1,669.10	1,526.58	1,496.52	30.06	50.784		
4,400.00	4,394.81	4,385.22	4,385.02	15.49	15.39	-9.11	80.77	1,668.53	1,518.86	1,488.12	30.74	49.410		
4,500.00	4,494.56	4,484.87	4,484.58	15.86	15.71	-8.99	76.57	1,667.97	1,511.15	1,479.73	31.42	48.093		
4,600.00	4,594.32	4,584.53	4,584.15	16.22	16.04	-8.87	72.36	1,667.41	1,503.45	1,471.34	32.11	46.829		
4,700.00	4,694.08	4,684.18	4,683.71	16.59	16.37	-8.75	68.16	1,666.84	1,495.75	1,462.96	32.79	45.616		
4,800.00	4,793.83	4,783.84	4,783.28	16.95	16.70	-8.63	63.96	1,666.28	1,488.06	1,454.58	33.48	44.450		
4,900.00	4,893.59	4,883.49	4,882.84	17.32	17.03	-8.51	59.76	1,665.71	1,480.37	1,446.21	34.17	43.330		
5,000.00	4,993.35	4,983.15	4,982.41	17.68	17.36	-8.39	55.56	1,665.15	1,472.69	1,437.84	34.86	42.252		
5,100.00	5,093.10	5,082.80	5,081.97	18.05	17.70	-8.27	51.36	1,664.59	1,465.02	1,429.48	35.55	41.215		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,182.46	5,181.54	18.42	18.03	-8.14	47.15	1,664.02	1,457.36	1,421.12	36.24	40.216		
5,300.00	5,292.62	5,282.11	5,281.10	18.78	18.37	-8.01	42.95	1,663.46	1,449.70	1,412.77	36.93	39.253		
5,400.00	5,392.37	5,381.77	5,380.67	19.15	18.71	-7.89	38.75	1,662.89	1,442.05	1,404.42	37.63	38.325		
5,500.00	5,492.13	5,481.42	5,480.23	19.52	19.04	-7.76	34.55	1,662.33	1,434.40	1,396.08	38.32	37.429		
5,600.00	5,591.89	5,581.08	5,579.80	19.88	19.38	-7.63	30.35	1,661.77	1,426.77	1,387.75	39.02	36.565		
5,700.00	5,691.64	5,680.73	5,679.36	20.25	19.72	-7.50	26.14	1,661.20	1,419.14	1,379.42	39.72	35.731		
5,800.00	5,791.40	5,780.39	5,778.93	20.62	20.06	-7.36	21.94	1,660.64	1,411.52	1,371.10	40.42	34.924		
5,900.00	5,891.16	5,880.05	5,878.49	20.98	20.40	-7.23	17.74	1,660.08	1,403.90	1,362.79	41.12	34.145		
6,000.00	5,990.91	5,979.70	5,978.06	21.35	20.75	-7.09	13.54	1,659.51	1,396.30	1,354.48	41.82	33.391		
6,100.00	6,090.67	6,079.36	6,077.62	21.72	21.09	-6.95	9.34	1,658.95	1,388.70	1,346.18	42.52	32.661		
6,200.00	6,190.42	6,179.01	6,177.18	22.09	21.43	-6.81	5.14	1,658.38	1,381.11	1,337.89	43.22	31.955		
6,300.00	6,290.18	6,278.67	6,276.75	22.45	21.78	-6.67	0.93	1,657.82	1,373.53	1,329.61	43.92	31.271		
6,400.00	6,389.94	6,378.32	6,376.31	22.82	22.12	-6.53	-3.27	1,657.26	1,365.96	1,321.33	44.63	30.609		
6,500.00	6,489.69	6,477.98	6,475.88	23.19	22.47	-6.39	-7.47	1,656.69	1,358.39	1,313.06	45.33	29.966		
6,600.00	6,589.45	6,577.63	6,575.44	23.56	22.81	-6.24	-11.67	1,656.13	1,350.83	1,304.80	46.04	29.343		
6,700.00	6,689.21	6,677.29	6,675.01	23.93	23.16	-6.10	-15.87	1,655.56	1,343.29	1,296.55	46.74	28.739		
6,800.00	6,788.96	6,776.94	6,774.57	24.29	23.51	-5.95	-20.07	1,655.00	1,335.75	1,288.30	47.45	28.153		
6,900.00	6,888.72	6,876.60	6,874.14	24.66	23.85	-5.80	-24.28	1,654.44	1,328.22	1,280.07	48.15	27.583		
7,000.00	6,988.48	6,976.25	6,973.70	25.03	24.20	-5.64	-28.48	1,653.87	1,320.70	1,271.84	48.86	27.030		
7,100.00	7,088.23	7,075.91	7,073.27	25.40	24.55	-5.49	-32.68	1,653.31	1,313.19	1,263.62	49.57	26.493		
7,200.00	7,187.99	7,175.56	7,172.83	25.77	24.90	-5.33	-36.88	1,652.75	1,305.69	1,255.41	50.28	25.971		
7,300.00	7,287.75	7,275.22	7,272.40	26.14	25.25	-5.18	-41.08	1,652.18	1,298.20	1,247.21	50.98	25.463		
7,400.00	7,387.50	7,374.87	7,371.96	26.50	25.60	-5.02	-45.28	1,651.62	1,290.71	1,239.02	51.69	24.969		
7,500.00	7,487.26	7,474.53	7,471.53	26.87	25.95	-4.86	-49.49	1,651.05	1,283.24	1,230.84	52.40	24.488		
7,600.00	7,587.02	7,574.18	7,571.09	27.24	26.30	-4.69	-53.69	1,650.49	1,275.78	1,222.67	53.11	24.021		
7,700.00	7,686.77	7,673.84	7,670.66	27.61	26.65	-4.53	-57.89	1,649.93	1,268.33	1,214.51	53.82	23.565		
7,800.00	7,786.53	7,773.49	7,770.22	27.98	27.00	-4.36	-62.09	1,649.36	1,260.89	1,206.36	54.53	23.122		
7,900.00	7,886.29	7,873.15	7,869.79	28.35	27.35	-4.19	-66.29	1,648.80	1,253.46	1,198.22	55.24	22.690		
8,000.00	7,986.04	7,972.80	7,969.35	28.72	27.70	-4.02	-70.50	1,648.23	1,246.04	1,190.09	55.95	22.269		
8,100.00	8,085.80	8,072.46	8,068.92	29.09	28.06	-3.85	-74.70	1,647.67	1,238.63	1,181.97	56.67	21.858		
8,200.00	8,185.56	8,172.11	8,168.48	29.46	28.41	-3.67	-78.90	1,647.11	1,231.24	1,173.86	57.38	21.458		
8,300.00	8,285.31	8,271.77	8,268.05	29.83	28.76	-3.50	-83.10	1,646.54	1,223.85	1,165.76	58.09	21.068		
8,400.00	8,385.07	8,371.42	8,367.61	30.20	29.11	-3.32	-87.30	1,645.98	1,216.48	1,157.68	58.80	20.687		
8,500.00	8,484.83	8,471.08	8,467.18	30.56	29.47	-3.14	-91.50	1,645.41	1,209.12	1,149.60	59.52	20.316		
8,600.00	8,584.58	8,570.73	8,566.74	30.93	29.82	-2.95	-95.71	1,644.85	1,201.77	1,141.54	60.23	19.953		
8,700.00	8,684.34	8,670.39	8,666.31	31.30	30.17	-2.77	-99.91	1,644.29	1,194.43	1,133.49	60.94	19.600		
8,800.00	8,784.10	8,770.04	8,765.87	31.67	30.53	-2.58	-104.11	1,643.72	1,187.11	1,125.45	61.66	19.254		
8,900.00	8,883.85	8,869.70	8,865.44	32.04	30.88	-2.39	-108.31	1,643.16	1,179.80	1,117.43	62.37	18.916		
9,000.00	8,983.61	8,969.35	8,965.00	32.41	31.24	-2.20	-112.51	1,642.60	1,172.50	1,109.42	63.08	18.587		
9,100.00	9,083.37	9,069.01	9,064.57	32.78	31.59	-2.00	-116.71	1,642.03	1,165.22	1,101.42	63.80	18.264		
9,200.00	9,183.12	9,168.66	9,164.13	33.15	31.94	-1.80	-120.92	1,641.47	1,157.95	1,093.44	64.51	17.949		
9,300.00	9,282.88	9,268.32	9,263.69	33.52	32.30	-1.60	-125.12	1,640.90	1,150.69	1,085.46	65.23	17.641		
9,400.00	9,382.64	9,367.97	9,363.26	33.89	32.65	-1.40	-129.32	1,640.34	1,143.45	1,077.51	65.94	17.340		
9,428.07	9,410.64	9,404.05	9,391.21	33.99	32.78	-1.34	-130.50	1,640.18	1,141.42	1,075.25	66.17	17.249		
9,500.00	9,482.43	9,467.67	9,462.87	34.26	33.01	-1.19	-133.52	1,639.78	1,136.90	1,070.24	66.66	17.056		
9,600.00	9,582.36	9,566.73	9,561.84	34.62	33.36	-1.00	-137.41	1,639.25	1,132.89	1,065.52	67.37	16.816		
9,694.65	9,677.00	9,659.85	9,654.95	34.95	33.69	94.57	-139.07	1,639.03	1,131.62	1,063.59	68.03	16.635		
9,700.00	9,682.35	9,665.12	9,660.22	34.97	33.71	94.57	-139.09	1,639.03	1,131.62	1,063.56	68.06	16.626		
9,740.18	9,722.53	9,705.03	9,700.13	35.10	33.84	94.57	-139.13	1,639.02	1,131.62	1,063.28	68.34	16.558		
9,800.00	9,782.35	9,764.85	9,759.95	35.31	34.05	94.57	-139.13	1,639.02	1,131.62	1,062.87	68.75	16.460		
9,900.00	9,882.35	9,864.85	9,859.95	35.65	34.39	94.57	-139.13	1,639.02	1,131.62	1,062.18	69.44	16.297		
10,000.00	9,982.35	9,964.85	9,959.95	35.99	34.74	94.57	-139.13	1,639.02	1,131.62	1,061.49	70.13	16.137		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,009.54	10,004.64	36.14	34.89	94.57	-139.13	1,639.02	1,131.62	1,061.18	70.43	16.066		
10,050.00	10,032.35	10,014.85	10,009.95	36.16	34.91	94.99	-139.13	1,639.02	1,131.62	1,061.15	70.47	16.058		
10,100.00	10,082.26	10,071.76	10,066.83	36.32	35.10	95.06	-137.75	1,639.01	1,131.75	1,060.92	70.83	15.979		
10,150.00	10,131.76	10,132.41	10,127.00	36.49	35.31	95.11	-130.34	1,638.96	1,131.83	1,060.65	71.18	15.901		
10,200.00	10,180.46	10,193.14	10,186.12	36.65	35.50	95.11	-116.60	1,638.85	1,131.82	1,060.30	71.52	15.825		
10,250.00	10,227.98	10,253.78	10,243.38	36.81	35.69	95.06	-96.72	1,638.70	1,131.73	1,059.88	71.85	15.752		
10,300.00	10,273.98	10,314.21	10,298.03	36.95	35.86	94.96	-70.99	1,638.50	1,131.56	1,059.40	72.16	15.681		
10,350.00	10,318.11	10,374.29	10,349.38	37.09	36.03	94.81	-39.86	1,638.27	1,131.31	1,058.85	72.46	15.612		
10,400.00	10,360.01	10,433.90	10,396.83	37.21	36.19	94.63	-3.82	1,637.99	1,131.00	1,058.25	72.76	15.545		
10,450.00	10,399.38	10,492.93	10,439.88	37.32	36.34	94.40	36.53	1,637.69	1,130.64	1,057.60	73.05	15.479		
10,500.00	10,435.92	10,551.29	10,478.14	37.42	36.49	94.13	80.56	1,637.35	1,130.24	1,056.91	73.33	15.413		
10,550.00	10,469.35	10,608.90	10,511.32	37.51	36.63	93.83	127.63	1,636.99	1,129.82	1,056.20	73.62	15.347		
10,600.00	10,499.41	10,665.70	10,539.25	37.59	36.77	93.49	177.06	1,636.62	1,129.39	1,055.48	73.91	15.281		
10,650.00	10,525.87	10,721.66	10,561.84	37.66	36.90	93.13	228.22	1,636.23	1,128.96	1,054.76	74.20	15.216		
10,700.00	10,548.54	10,776.73	10,579.11	37.74	37.04	92.75	280.50	1,635.83	1,128.55	1,054.07	74.49	15.151		
10,750.00	10,567.24	10,830.92	10,591.12	37.84	37.17	92.35	333.32	1,635.43	1,128.18	1,053.40	74.78	15.086		
10,800.00	10,581.83	10,884.22	10,598.01	37.97	37.30	91.94	386.15	1,635.02	1,127.85	1,052.78	75.07	15.023		
10,850.00	10,592.19	10,936.39	10,600.00	38.11	37.43	91.51	438.27	1,634.63	1,127.58	1,052.22	75.36	14.962		
10,900.00	10,598.26	10,986.01	10,600.00	38.25	37.56	91.22	487.88	1,634.25	1,127.42	1,051.77	75.65	14.903		
10,944.69	10,600.00	11,030.66	10,600.00	38.39	37.69	91.14	532.52	1,633.91	1,127.37	1,051.46	75.91	14.851		
11,000.00	10,600.00	11,085.96	10,600.00	38.56	37.86	91.14	587.83	1,633.49	1,127.36	1,051.11	76.24	14.786		
11,100.00	10,600.00	11,185.96	10,600.00	38.91	38.22	91.14	687.83	1,632.73	1,127.33	1,050.40	76.93	14.653		
11,200.00	10,600.00	11,285.96	10,600.00	39.31	38.63	91.14	787.83	1,631.97	1,127.30	1,049.58	77.73	14.504		
11,300.00	10,600.00	11,385.96	10,600.00	39.76	39.08	91.14	887.82	1,631.20	1,127.28	1,048.66	78.62	14.339		
11,400.00	10,600.00	11,485.96	10,600.00	40.25	39.59	91.14	987.82	1,630.44	1,127.25	1,047.64	79.61	14.160		
11,500.00	10,600.00	11,585.96	10,600.00	40.79	40.14	91.14	1,087.82	1,629.68	1,127.22	1,046.54	80.69	13.970		
11,600.00	10,600.00	11,685.96	10,600.00	41.37	40.73	91.14	1,187.81	1,628.92	1,127.20	1,045.34	81.86	13.770		
11,700.00	10,600.00	11,785.96	10,600.00	41.99	41.37	91.14	1,287.81	1,628.16	1,127.17	1,044.05	83.12	13.561		
11,800.00	10,600.00	11,885.96	10,600.00	42.65	42.05	91.14	1,387.81	1,627.40	1,127.14	1,042.69	84.45	13.346		
11,900.00	10,600.00	11,985.96	10,600.00	43.35	42.77	91.14	1,487.81	1,626.64	1,127.12	1,041.25	85.87	13.126		
12,000.00	10,600.00	12,085.96	10,600.00	44.09	43.53	91.14	1,587.80	1,625.88	1,127.09	1,039.73	87.36	12.901		
12,100.00	10,600.00	12,185.96	10,600.00	44.86	44.32	91.14	1,687.80	1,625.11	1,127.06	1,038.14	88.92	12.675		
12,200.00	10,600.00	12,285.96	10,600.00	45.67	45.14	91.14	1,787.80	1,624.35	1,127.04	1,036.49	90.55	12.447		
12,300.00	10,600.00	12,385.96	10,600.00	46.50	45.99	91.14	1,887.79	1,623.59	1,127.01	1,034.77	92.24	12.218		
12,400.00	10,600.00	12,485.96	10,600.00	47.37	46.88	91.14	1,987.79	1,622.83	1,126.98	1,032.99	93.99	11.990		
12,500.00	10,600.00	12,585.96	10,600.00	48.26	47.79	91.14	2,087.79	1,622.07	1,126.96	1,031.16	95.80	11.764		
12,600.00	10,600.00	12,685.96	10,600.00	49.18	48.73	91.14	2,187.78	1,621.31	1,126.93	1,029.27	97.66	11.539		
12,700.00	10,600.00	12,785.96	10,600.00	50.13	49.69	91.14	2,287.78	1,620.55	1,126.90	1,027.33	99.57	11.318		
12,800.00	10,600.00	12,885.96	10,600.00	51.10	50.68	91.14	2,387.78	1,619.79	1,126.87	1,025.35	101.53	11.099		
12,900.00	10,600.00	12,985.96	10,600.00	52.09	51.69	91.14	2,487.78	1,619.02	1,126.85	1,023.31	103.53	10.884		
13,000.00	10,600.00	13,085.96	10,600.00	53.10	52.72	91.14	2,587.77	1,618.26	1,126.82	1,021.24	105.58	10.673		
13,100.00	10,600.00	13,185.96	10,600.00	54.14	53.77	91.14	2,687.77	1,617.50	1,126.79	1,019.13	107.66	10.466		
13,200.00	10,600.00	13,285.96	10,600.00	55.19	54.84	91.14	2,787.77	1,616.74	1,126.77	1,016.98	109.79	10.263		
13,300.00	10,600.00	13,385.96	10,600.00	56.26	55.93	91.14	2,887.76	1,615.98	1,126.74	1,014.79	111.95	10.065		
13,400.00	10,600.00	13,485.96	10,600.00	57.35	57.03	91.14	2,987.76	1,615.22	1,126.71	1,012.57	114.14	9.871		
13,500.00	10,600.00	13,585.96	10,600.00	58.45	58.15	91.14	3,087.76	1,614.46	1,126.69	1,010.32	116.36	9.683		
13,600.00	10,600.00	13,685.96	10,600.00	59.57	59.28	91.14	3,187.76	1,613.70	1,126.66	1,008.04	118.62	9.498		
13,700.00	10,600.00	13,785.96	10,600.00	60.71	60.43	91.14	3,287.75	1,612.93	1,126.63	1,005.73	120.90	9.319		
13,800.00	10,600.00	13,885.96	10,600.00	61.85	61.59	91.14	3,387.75	1,612.17	1,126.61	1,003.40	123.21	9.144		
13,900.00	10,600.00	13,985.96	10,600.00	63.01	62.76	91.14	3,487.75	1,611.41	1,126.58	1,001.04	125.54	8.974		
14,000.00	10,600.00	14,085.96	10,600.00	64.18	63.94	91.14	3,587.74	1,610.65	1,126.55	998.65	127.90	8.808		
14,100.00	10,600.00	14,185.96	10,600.00	65.37	65.14	91.14	3,687.74	1,609.89	1,126.53	996.25	130.28	8.647		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,285.96	10,600.00	66.56	66.34	91.14	3,787.74	1,609.13	1,126.50	993.82	132.68	8.490	
14,300.00	10,600.00	14,385.96	10,600.00	67.76	67.56	91.14	3,887.74	1,608.37	1,126.47	991.37	135.10	8.338	
14,400.00	10,600.00	14,485.96	10,600.00	68.98	68.78	91.14	3,987.73	1,607.60	1,126.44	988.90	137.54	8.190	
14,500.00	10,600.00	14,585.96	10,600.00	70.20	70.02	91.14	4,087.73	1,606.84	1,126.42	986.42	140.00	8.046	
14,600.00	10,600.00	14,685.96	10,600.00	71.43	71.26	91.14	4,187.73	1,606.08	1,126.39	983.92	142.47	7.906	
14,700.00	10,600.00	14,785.96	10,600.00	72.67	72.51	91.14	4,287.72	1,605.32	1,126.36	981.40	144.97	7.770	
14,800.00	10,600.00	14,885.96	10,600.00	73.92	73.77	91.14	4,387.72	1,604.56	1,126.34	978.86	147.47	7.638	
14,900.00	10,600.00	14,985.96	10,600.00	75.17	75.03	91.14	4,487.72	1,603.80	1,126.31	976.32	149.99	7.509	
15,000.00	10,600.00	15,085.96	10,600.00	76.44	76.30	91.14	4,587.72	1,603.04	1,126.28	973.75	152.53	7.384	
15,100.00	10,600.00	15,185.96	10,600.00	77.70	77.58	91.14	4,687.71	1,602.28	1,126.26	971.18	155.08	7.263	
15,200.00	10,600.00	15,285.96	10,600.00	78.98	78.87	91.14	4,787.71	1,601.51	1,126.23	968.59	157.64	7.144	
15,300.00	10,600.00	15,385.96	10,600.00	80.26	80.16	91.14	4,887.71	1,600.75	1,126.20	965.99	160.21	7.029	
15,400.00	10,600.00	15,485.96	10,600.00	81.55	81.45	91.14	4,987.70	1,599.99	1,126.18	963.38	162.80	6.918	
15,484.47	10,600.00	15,570.43	10,600.00	82.64	82.55	91.14	5,072.17	1,599.35	1,126.15	961.16	164.99	6.826	CC, ES, SF

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	87.00	92.38	1,760.02	1,762.59					
100.00	100.00	77.20	77.20	0.52	0.51	87.00	92.38	1,760.02	1,762.45	1,761.42	1.03	1,713.756		
200.00	200.00	177.20	177.20	0.70	0.65	87.00	92.38	1,760.02	1,762.45	1,761.10	1.35	1,306.047		
300.00	300.00	277.20	277.20	0.99	0.92	87.00	92.38	1,760.02	1,762.45	1,760.54	1.91	925.106		
400.00	400.00	377.20	377.20	1.31	1.23	87.00	92.38	1,760.02	1,762.45	1,759.90	2.54	693.047		
500.00	500.00	477.20	477.20	1.65	1.57	87.00	92.38	1,760.02	1,762.45	1,759.23	3.21	548.280		
600.00	600.00	577.20	577.20	1.99	1.91	87.00	92.38	1,760.02	1,762.45	1,758.54	3.90	451.654		
700.00	700.00	677.20	677.20	2.34	2.26	87.00	92.38	1,760.02	1,762.45	1,757.85	4.60	383.236		
800.00	800.00	777.20	777.20	2.69	2.61	87.00	92.38	1,760.02	1,762.45	1,757.15	5.30	332.479		
900.00	900.00	877.20	877.20	3.04	2.96	87.00	92.38	1,760.02	1,762.45	1,756.44	6.01	293.423		
1,000.00	1,000.00	977.20	977.20	3.40	3.32	87.00	92.38	1,760.02	1,762.45	1,755.73	6.71	262.483		
1,100.00	1,100.00	1,077.20	1,077.20	3.75	3.67	87.00	92.38	1,760.02	1,762.45	1,755.02	7.42	237.392		
1,200.00	1,200.00	1,177.20	1,177.20	4.11	4.03	87.00	92.38	1,760.02	1,762.45	1,754.31	8.14	216.645		
1,300.00	1,300.00	1,277.20	1,277.20	4.46	4.38	87.00	92.38	1,760.02	1,762.45	1,753.60	8.85	199.211		
1,400.00	1,400.00	1,377.20	1,377.20	4.82	4.74	87.00	92.38	1,760.02	1,762.45	1,752.89	9.56	184.360		
1,500.00	1,500.00	1,477.20	1,477.20	5.18	5.10	87.00	92.38	1,760.02	1,762.45	1,752.17	10.27	171.559		
1,600.00	1,600.00	1,577.20	1,577.20	5.53	5.45	87.00	92.38	1,760.02	1,762.45	1,751.46	10.99	160.414		
1,700.00	1,700.00	1,677.20	1,677.20	5.89	5.81	87.00	92.38	1,760.02	1,762.45	1,750.75	11.70	150.623		
1,800.00	1,800.00	1,777.20	1,777.20	6.25	6.17	87.00	92.38	1,760.02	1,762.45	1,750.03	12.42	141.955		
1,900.00	1,900.00	1,877.20	1,877.20	6.61	6.52	87.00	92.38	1,760.02	1,762.45	1,749.32	13.13	134.228		
2,000.00	2,000.00	1,977.20	1,977.20	6.96	6.88	87.00	92.38	1,760.02	1,762.45	1,748.60	13.85	127.297		
2,100.00	2,099.99	2,059.54	2,059.54	7.31	7.17	-8.48	92.31	1,760.33	1,761.97	1,747.49	14.48	121.682		
2,200.00	2,199.96	2,136.66	2,136.65	7.65	7.43	-8.48	92.03	1,761.62	1,761.03	1,745.95	15.08	116.775		
2,300.00	2,299.86	2,213.79	2,213.75	7.99	7.70	-8.48	91.53	1,763.92	1,759.67	1,743.99	15.68	112.246		
2,399.87	2,399.54	2,290.83	2,290.71	8.34	7.96	-8.48	90.81	1,767.23	1,757.88	1,741.60	16.27	108.026		
2,500.00	2,499.43	2,368.10	2,367.85	8.69	8.22	-8.46	89.86	1,771.57	1,756.52	1,739.65	16.87	104.118		
2,554.30	2,553.60	2,410.00	2,409.65	8.88	8.37	-8.45	89.26	1,774.35	1,756.33	1,739.13	17.19	102.144 CC		
2,600.00	2,599.19	2,445.27	2,444.83	9.03	8.49	-8.44	88.69	1,776.92	1,756.46	1,738.99	17.47	100.557 ES		
2,700.00	2,698.94	2,522.43	2,521.71	9.39	8.76	-8.41	87.31	1,783.28	1,757.71	1,739.64	18.06	97.306		
2,800.00	2,798.70	2,600.00	2,598.90	9.74	9.03	-8.37	85.69	1,790.69	1,760.25	1,741.59	18.66	94.326		
2,900.00	2,898.46	2,676.58	2,675.01	10.09	9.30	-8.33	83.88	1,799.01	1,764.09	1,744.84	19.25	91.622		
3,000.00	2,998.21	2,753.51	2,751.34	10.45	9.57	-8.27	81.84	1,808.36	1,769.23	1,749.39	19.85	89.142		
3,100.00	3,097.97	2,830.32	2,827.42	10.80	9.85	-8.21	79.58	1,818.70	1,775.67	1,755.23	20.44	86.879		
3,200.00	3,197.73	2,912.60	2,908.75	11.16	10.15	-8.13	76.93	1,830.83	1,783.37	1,762.31	21.05	84.701		
3,300.00	3,297.48	3,012.22	3,007.18	11.52	10.52	-8.03	73.66	1,845.86	1,791.43	1,769.68	21.76	82.343		
3,400.00	3,397.24	3,111.85	3,105.62	11.88	10.89	-7.94	70.38	1,860.89	1,799.50	1,777.05	22.46	80.123		
3,500.00	3,497.00	3,211.48	3,204.05	12.24	11.26	-7.84	67.10	1,875.92	1,807.58	1,784.42	23.16	78.031		
3,600.00	3,596.75	3,311.11	3,302.49	12.60	11.64	-7.75	63.82	1,890.95	1,815.66	1,791.79	23.87	76.057		
3,700.00	3,696.51	3,410.74	3,400.92	12.96	12.02	-7.66	60.54	1,905.99	1,823.75	1,799.17	24.58	74.191		
3,800.00	3,796.27	3,510.37	3,499.36	13.32	12.40	-7.56	57.26	1,921.02	1,831.84	1,806.55	25.29	72.425		
3,900.00	3,896.02	3,610.00	3,597.79	13.68	12.79	-7.47	53.98	1,936.05	1,839.94	1,813.93	26.01	70.751		
4,000.00	3,995.78	3,709.63	3,696.22	14.04	13.18	-7.38	50.71	1,951.08	1,848.04	1,821.32	26.72	69.163		
4,100.00	4,095.54	3,809.26	3,794.66	14.40	13.57	-7.29	47.43	1,966.11	1,856.14	1,828.71	27.44	67.656		
4,200.00	4,195.29	3,908.89	3,893.09	14.77	13.96	-7.21	44.15	1,981.14	1,864.25	1,836.10	28.15	66.222		
4,300.00	4,295.05	4,008.52	3,991.53	15.13	14.35	-7.12	40.87	1,996.17	1,872.37	1,843.50	28.87	64.857		
4,400.00	4,394.81	4,108.15	4,089.96	15.49	14.74	-7.03	37.59	2,011.20	1,880.48	1,850.90	29.59	63.556		
4,500.00	4,494.56	4,207.78	4,188.40	15.86	15.14	-6.94	34.31	2,026.23	1,888.61	1,858.30	30.31	62.315		
4,600.00	4,594.32	4,307.40	4,286.83	16.22	15.53	-6.86	31.03	2,041.26	1,896.73	1,865.70	31.03	61.131		
4,700.00	4,694.08	4,407.03	4,385.26	16.59	15.93	-6.77	27.76	2,056.29	1,904.86	1,873.11	31.75	59.998		
4,800.00	4,793.83	4,506.66	4,483.70	16.95	16.33	-6.69	24.48	2,071.32	1,913.00	1,880.53	32.47	58.915		
4,900.00	4,893.59	4,606.29	4,582.13	17.32	16.73	-6.61	21.20	2,086.35	1,921.14	1,887.94	33.19	57.878		
5,000.00	4,993.35	4,705.92	4,680.57	17.68	17.13	-6.52	17.92	2,101.38	1,929.28	1,895.36	33.92	56.884		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	5,093.10	4,805.55	4,779.00	18.05	17.53	-6.44	14.64	2,116.41	1,937.43	1,902.79	34.64	55.931		
5,200.00	5,192.86	4,905.18	4,877.44	18.42	17.94	-6.36	11.36	2,131.45	1,945.58	1,910.21	35.36	55.016		
5,300.00	5,292.62	5,004.81	4,975.87	18.78	18.34	-6.28	8.08	2,146.48	1,953.73	1,917.64	36.09	54.137		
5,400.00	5,392.37	5,104.44	5,074.30	19.15	18.74	-6.20	4.80	2,161.51	1,961.89	1,925.08	36.81	53.293		
5,500.00	5,492.13	5,204.07	5,172.74	19.52	19.15	-6.12	1.53	2,176.54	1,970.05	1,932.52	37.54	52.480		
5,600.00	5,591.89	5,303.70	5,271.17	19.88	19.55	-6.04	-1.75	2,191.57	1,978.22	1,939.96	38.27	51.698		
5,700.00	5,691.64	5,403.33	5,369.61	20.25	19.96	-5.96	-5.03	2,206.60	1,986.39	1,947.40	38.99	50.944		
5,800.00	5,791.40	5,502.96	5,468.04	20.62	20.36	-5.88	-8.31	2,221.63	1,994.56	1,954.85	39.72	50.218		
5,900.00	5,891.16	5,602.59	5,566.48	20.98	20.77	-5.81	-11.59	2,236.66	2,002.74	1,962.30	40.45	49.517		
6,000.00	5,990.91	5,702.21	5,664.91	21.35	21.18	-5.73	-14.87	2,251.69	2,010.92	1,969.75	41.17	48.841		
6,100.00	6,090.67	5,801.84	5,763.35	21.72	21.59	-5.66	-18.15	2,266.72	2,019.11	1,977.21	41.90	48.188		
6,200.00	6,190.42	5,901.47	5,861.78	22.09	21.99	-5.58	-21.42	2,281.75	2,027.29	1,984.67	42.63	47.557		
6,300.00	6,290.18	6,001.10	5,960.21	22.45	22.40	-5.51	-24.70	2,296.78	2,035.48	1,992.13	43.36	46.947		
6,400.00	6,389.94	6,100.73	6,058.65	22.82	22.81	-5.43	-27.98	2,311.81	2,043.68	1,999.59	44.09	46.357		
6,500.00	6,489.69	6,200.36	6,157.08	23.19	23.22	-5.36	-31.26	2,326.84	2,051.88	2,007.06	44.81	45.786		
6,600.00	6,589.45	6,300.01	6,255.52	23.56	23.63	-5.29	-34.54	2,341.88	2,060.08	2,014.53	45.54	45.233		
6,700.00	6,689.21	6,400.38	6,353.95	23.93	24.04	-5.21	-37.82	2,356.91	2,068.28	2,022.01	46.28	44.695		
6,800.00	6,788.96	6,500.75	6,452.39	24.29	24.46	-5.14	-41.10	2,371.94	2,076.49	2,029.48	47.01	44.174		
6,900.00	6,888.72	6,601.12	6,550.82	24.66	24.87	-5.07	-44.38	2,386.97	2,084.70	2,036.96	47.74	43.668		
7,000.00	6,988.48	6,701.49	6,649.25	25.03	25.28	-5.00	-47.65	2,402.00	2,092.91	2,044.44	48.47	43.177		
7,100.00	7,088.23	6,801.86	6,747.69	25.40	25.70	-4.93	-50.93	2,417.03	2,101.13	2,051.93	49.21	42.702		
7,200.00	7,187.99	6,902.23	6,846.12	25.77	26.11	-4.86	-54.21	2,432.06	2,109.35	2,059.41	49.94	42.239		
7,300.00	7,287.75	7,002.61	6,944.56	26.14	26.53	-4.79	-57.49	2,447.09	2,117.58	2,066.90	50.67	41.791		
7,400.00	7,387.50	7,102.98	7,042.99	26.50	26.94	-4.73	-60.77	2,462.12	2,125.80	2,074.40	51.40	41.355		
7,500.00	7,487.26	7,203.35	7,141.43	26.87	27.36	-4.66	-64.05	2,477.15	2,134.03	2,081.89	52.14	40.931		
7,600.00	7,587.02	7,303.72	7,239.86	27.24	27.77	-4.59	-67.33	2,492.18	2,142.26	2,089.39	52.87	40.519		
7,700.00	7,686.77	7,404.09	7,338.29	27.61	28.19	-4.52	-70.60	2,507.21	2,150.50	2,096.89	53.60	40.118		
7,800.00	7,786.53	7,504.46	7,436.73	27.98	28.60	-4.46	-73.88	2,522.24	2,158.74	2,104.40	54.34	39.728		
7,900.00	7,886.29	7,604.83	7,535.16	28.35	29.02	-4.39	-77.16	2,537.27	2,166.98	2,111.90	55.07	39.348		
8,000.00	7,986.04	7,705.20	7,633.60	28.72	29.44	-4.33	-80.44	2,552.30	2,175.22	2,119.41	55.81	38.978		
8,100.00	8,085.80	7,805.57	7,732.03	29.09	29.85	-4.26	-83.72	2,567.34	2,183.47	2,126.93	56.54	38.618		
8,200.00	8,185.56	7,905.94	7,830.47	29.46	30.27	-4.20	-87.00	2,582.37	2,191.72	2,134.44	57.27	38.267		
8,300.00	8,285.31	7,993.69	7,928.90	29.83	30.63	-4.13	-90.28	2,597.40	2,199.97	2,142.01	57.96	37.956		
8,400.00	8,385.07	8,106.68	8,027.33	30.20	31.10	-4.07	-93.55	2,612.43	2,208.22	2,149.48	58.74	37.591		
8,500.00	8,484.83	8,207.05	8,125.77	30.56	31.52	-4.01	-96.83	2,627.46	2,216.48	2,157.00	59.48	37.266		
8,600.00	8,584.58	8,307.43	8,224.20	30.93	31.94	-3.95	-100.11	2,642.49	2,224.74	2,164.53	60.21	36.948		
8,700.00	8,684.34	8,407.80	8,322.64	31.30	32.35	-3.88	-103.39	2,657.52	2,233.00	2,172.05	60.95	36.639		
8,800.00	8,784.10	8,508.17	8,421.07	31.67	32.77	-3.82	-106.67	2,672.55	2,241.27	2,179.58	61.68	36.336		
8,900.00	8,883.85	8,608.54	8,519.51	32.04	33.19	-3.76	-109.95	2,687.58	2,249.53	2,187.12	62.42	36.041		
9,000.00	8,983.61	8,708.91	8,617.94	32.41	33.61	-3.70	-113.23	2,702.61	2,257.80	2,194.65	63.15	35.753		
9,100.00	9,083.37	8,809.28	8,716.38	32.78	34.02	-3.64	-116.51	2,717.64	2,266.07	2,202.19	63.89	35.471		
9,200.00	9,183.12	8,909.65	8,814.81	33.15	34.44	-3.58	-119.78	2,732.67	2,274.35	2,209.73	64.62	35.195		
9,300.00	9,282.88	9,009.98	8,913.24	33.52	34.78	-3.52	-123.06	2,747.70	2,282.63	2,217.35	65.28	34.966		
9,400.00	9,382.64	9,089.61	9,011.68	33.89	35.19	-3.46	-126.34	2,762.73	2,290.91	2,224.89	66.01	34.704		
9,428.07	9,410.64	9,117.58	9,039.31	33.99	35.31	-3.45	-127.26	2,766.95	2,293.23	2,227.01	66.22	34.631		
9,500.00	9,482.43	9,222.86	9,143.39	34.26	35.74	-3.39	-130.64	2,782.43	2,299.69	2,232.78	66.92	34.367		
9,600.00	9,582.36	9,468.33	9,387.39	34.62	36.69	-3.29	-136.28	2,808.28	2,306.54	2,238.30	68.25	33.796		
9,694.65	9,677.00	9,701.88	9,620.66	34.95	37.51	92.22	-138.53	2,818.62	2,309.60	2,240.30	69.30	33.329		
9,700.00	9,682.35	9,715.10	9,633.88	34.97	37.55	92.22	-138.57	2,818.79	2,309.67	2,240.32	69.35	33.306		
9,800.00	9,782.35	9,840.77	9,759.55	35.31	37.95	92.22	-138.62	2,819.02	2,309.76	2,239.69	70.07	32.964		
9,900.00	9,882.35	9,940.77	9,859.55	35.65	38.27	92.22	-138.62	2,819.02	2,309.76	2,239.02	70.75	32.649		
10,000.00	9,982.35	10,040.77	9,959.55	35.99	38.59	92.22	-138.62	2,819.02	2,309.76	2,238.34	71.42	32.340		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,044.69	10,027.04	10,085.46	10,004.24	36.14	38.73	92.22	-138.62	2,819.02	2,309.76	2,238.04	71.72	32.203		
10,050.00	10,032.35	10,090.77	10,009.55	36.16	38.74	92.64	-138.62	2,819.02	2,309.76	2,238.00	71.76	32.187		
10,100.00	10,082.26	10,148.31	10,067.06	36.32	38.92	92.68	-137.22	2,819.01	2,309.83	2,237.73	72.11	32.033		
10,150.00	10,131.76	10,210.07	10,128.32	36.49	39.11	92.70	-129.60	2,818.95	2,309.87	2,237.42	72.45	31.881		
10,200.00	10,180.46	10,271.89	10,188.45	36.65	39.29	92.70	-115.41	2,818.85	2,309.86	2,237.07	72.79	31.734		
10,250.00	10,227.98	10,333.58	10,246.60	36.81	39.45	92.67	-94.88	2,818.69	2,309.80	2,236.68	73.11	31.593		
10,300.00	10,273.98	10,395.01	10,301.97	36.95	39.60	92.61	-68.35	2,818.49	2,309.69	2,236.26	73.42	31.457		
10,350.00	10,318.11	10,456.01	10,353.83	37.09	39.72	92.53	-36.29	2,818.24	2,309.53	2,235.81	73.73	31.326		
10,400.00	10,360.01	10,516.45	10,401.57	37.21	39.83	92.42	0.73	2,817.96	2,309.35	2,235.33	74.02	31.199		
10,450.00	10,399.38	10,576.21	10,444.67	37.32	39.91	92.29	42.08	2,817.65	2,309.13	2,234.82	74.31	31.076		
10,500.00	10,435.92	10,635.19	10,482.77	37.42	39.98	92.15	87.07	2,817.31	2,308.89	2,234.30	74.59	30.956		
10,550.00	10,469.35	10,693.30	10,515.59	37.51	40.02	91.98	135.00	2,816.94	2,308.64	2,233.78	74.86	30.838		
10,600.00	10,499.41	10,750.50	10,542.99	37.59	40.05	91.80	185.18	2,816.56	2,308.39	2,233.25	75.14	30.721		
10,650.00	10,525.87	10,806.74	10,564.93	37.66	40.07	91.61	236.94	2,816.17	2,308.14	2,232.72	75.42	30.606		
10,700.00	10,548.54	10,862.00	10,581.43	37.74	40.08	91.40	289.65	2,815.76	2,307.90	2,232.21	75.69	30.491		
10,750.00	10,567.24	10,916.27	10,592.63	37.84	40.09	91.19	342.74	2,815.36	2,307.69	2,231.73	75.96	30.378		
10,800.00	10,581.83	10,969.57	10,598.69	37.97	40.10	90.97	395.66	2,814.96	2,307.50	2,231.26	76.24	30.267		
10,850.00	10,592.19	11,021.18	10,600.00	38.11	40.11	90.75	447.24	2,814.57	2,307.35	2,230.84	76.51	30.156		
10,900.00	10,598.26	11,070.79	10,600.00	38.25	40.14	90.61	496.86	2,814.19	2,307.27	2,230.48	76.79	30.048		
10,944.69	10,600.00	11,115.44	10,600.00	38.39	40.18	90.57	541.50	2,813.85	2,307.24	2,230.21	77.03	29.953		
11,000.00	10,600.00	11,170.75	10,600.00	38.56	40.24	90.57	596.81	2,813.43	2,307.22	2,229.87	77.35	29.828		
11,100.00	10,600.00	11,270.75	10,600.00	38.91	40.42	90.57	696.80	2,812.67	2,307.19	2,229.19	78.01	29.577		
11,200.00	10,600.00	11,370.75	10,600.00	39.31	40.69	90.57	796.80	2,811.91	2,307.17	2,228.40	78.77	29.291		
11,300.00	10,600.00	11,470.75	10,600.00	39.76	41.05	90.57	896.80	2,811.14	2,307.14	2,227.52	79.63	28.975		
11,400.00	10,600.00	11,570.75	10,600.00	40.25	41.47	90.57	996.80	2,810.38	2,307.11	2,226.53	80.58	28.631		
11,500.00	10,600.00	11,670.75	10,600.00	40.79	41.96	90.57	1,096.79	2,809.62	2,307.09	2,225.46	81.63	28.263		
11,600.00	10,600.00	11,770.75	10,600.00	41.37	42.51	90.57	1,196.79	2,808.86	2,307.06	2,224.29	82.77	27.874		
11,700.00	10,600.00	11,870.75	10,600.00	41.99	43.10	90.57	1,296.79	2,808.10	2,307.03	2,223.05	83.99	27.468		
11,800.00	10,600.00	11,970.75	10,600.00	42.65	43.74	90.57	1,396.78	2,807.34	2,307.01	2,221.71	85.29	27.048		
11,900.00	10,600.00	12,070.75	10,600.00	43.35	44.42	90.57	1,496.78	2,806.58	2,306.98	2,220.30	86.68	26.616		
12,000.00	10,600.00	12,170.75	10,600.00	44.09	45.13	90.57	1,596.78	2,805.82	2,306.96	2,218.82	88.14	26.175		
12,100.00	10,600.00	12,270.75	10,600.00	44.86	45.88	90.57	1,696.78	2,805.06	2,306.93	2,217.26	89.66	25.729		
12,200.00	10,600.00	12,370.75	10,600.00	45.67	46.67	90.57	1,796.77	2,804.30	2,306.90	2,215.64	91.26	25.278		
12,300.00	10,600.00	12,470.75	10,600.00	46.50	47.48	90.57	1,896.77	2,803.53	2,306.88	2,213.96	92.92	24.826		
12,400.00	10,600.00	12,570.75	10,600.00	47.37	48.33	90.57	1,996.77	2,802.77	2,306.85	2,212.21	94.64	24.375		
12,500.00	10,600.00	12,670.75	10,600.00	48.26	49.20	90.57	2,096.76	2,802.01	2,306.82	2,210.40	96.42	23.925		
12,600.00	10,600.00	12,770.75	10,600.00	49.18	50.11	90.57	2,196.76	2,801.25	2,306.80	2,208.55	98.25	23.479		
12,700.00	10,600.00	12,870.75	10,600.00	50.13	51.03	90.57	2,296.76	2,800.49	2,306.77	2,206.64	100.13	23.037		
12,800.00	10,600.00	12,970.75	10,600.00	51.10	51.98	90.57	2,396.75	2,799.73	2,306.74	2,204.68	102.06	22.601		
12,900.00	10,600.00	13,070.75	10,600.00	52.09	52.96	90.57	2,496.75	2,798.97	2,306.72	2,202.67	104.04	22.171		
13,000.00	10,600.00	13,170.75	10,600.00	53.10	53.95	90.57	2,596.75	2,798.21	2,306.69	2,200.63	106.06	21.748		
13,100.00	10,600.00	13,270.75	10,600.00	54.14	54.97	90.57	2,696.75	2,797.45	2,306.66	2,198.54	108.12	21.334		
13,200.00	10,600.00	13,370.75	10,600.00	55.19	56.01	90.57	2,796.74	2,796.69	2,306.64	2,196.41	110.22	20.927		
13,300.00	10,600.00	13,470.75	10,600.00	56.26	57.06	90.57	2,896.74	2,795.92	2,306.61	2,194.25	112.36	20.529		
13,400.00	10,600.00	13,570.75	10,600.00	57.35	58.13	90.57	2,996.74	2,795.16	2,306.58	2,192.05	114.53	20.140		
13,500.00	10,600.00	13,670.75	10,600.00	58.45	59.22	90.57	3,096.73	2,794.40	2,306.56	2,189.83	116.73	19.760		
13,600.00	10,600.00	13,770.75	10,600.00	59.57	60.32	90.57	3,196.73	2,793.64	2,306.53	2,187.57	118.96	19.388		
13,700.00	10,600.00	13,870.75	10,600.00	60.71	61.44	90.57	3,296.73	2,792.88	2,306.50	2,185.28	121.23	19.027		
13,800.00	10,600.00	13,970.75	10,600.00	61.85	62.57	90.57	3,396.73	2,792.12	2,306.48	2,182.96	123.51	18.674		
13,900.00	10,600.00	14,070.75	10,600.00	63.01	63.71	90.57	3,496.72	2,791.36	2,306.45	2,180.62	125.83	18.330		
14,000.00	10,600.00	14,170.75	10,600.00	64.18	64.87	90.57	3,596.72	2,790.60	2,306.42	2,178.26	128.17	17.995		
14,100.00	10,600.00	14,270.75	10,600.00	65.37	66.04	90.57	3,696.72	2,789.84	2,306.40	2,175.87	130.53	17.669		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	14,370.75	10,600.00	66.56	67.22	90.57	3,796.71	2,789.08	2,306.37	2,173.46	132.92	17.352	
14,300.00	10,600.00	14,470.75	10,600.00	67.76	68.41	90.57	3,896.71	2,788.31	2,306.34	2,171.02	135.32	17.044	
14,400.00	10,600.00	14,570.75	10,600.00	68.98	69.61	90.57	3,996.71	2,787.55	2,306.32	2,168.57	137.74	16.743	
14,500.00	10,600.00	14,670.75	10,600.00	70.20	70.81	90.57	4,096.71	2,786.79	2,306.29	2,166.10	140.19	16.451	
14,600.00	10,600.00	14,770.75	10,600.00	71.43	72.03	90.57	4,196.70	2,786.03	2,306.26	2,163.62	142.65	16.168	
14,700.00	10,600.00	14,870.75	10,600.00	72.67	73.26	90.57	4,296.70	2,785.27	2,306.24	2,161.11	145.13	15.891	
14,800.00	10,600.00	14,970.75	10,600.00	73.92	74.50	90.57	4,396.70	2,784.51	2,306.21	2,158.59	147.62	15.623	
14,900.00	10,600.00	15,070.75	10,600.00	75.17	75.74	90.57	4,496.69	2,783.75	2,306.19	2,156.06	150.13	15.362	
15,000.00	10,600.00	15,170.75	10,600.00	76.44	76.99	90.57	4,596.69	2,782.99	2,306.16	2,153.51	152.65	15.108	
15,100.00	10,600.00	15,270.75	10,600.00	77.70	78.25	90.57	4,696.69	2,782.23	2,306.13	2,150.95	155.19	14.860	
15,200.00	10,600.00	15,370.75	10,600.00	78.98	79.51	90.57	4,796.69	2,781.47	2,306.11	2,148.37	157.74	14.620	
15,300.00	10,600.00	15,470.75	10,600.00	80.26	80.78	90.57	4,896.68	2,780.71	2,306.08	2,145.78	160.30	14.386	
15,400.00	10,600.00	15,570.75	10,600.00	81.55	82.06	90.57	4,996.68	2,779.94	2,306.05	2,143.18	162.87	14.159	
15,484.47	10,600.00	15,655.22	10,600.00	82.64	83.14	90.57	5,081.15	2,779.30	2,306.03	2,140.98	165.05	13.971 SF	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	-72.41	462.36	-1,458.80	1,530.43					
100.00	100.00	81.80	81.80	0.52	10.06	-72.41	462.36	-1,458.80	1,530.32	1,519.74	10.58	144.705		
200.00	200.00	181.80	181.80	0.70	10.33	-72.41	462.36	-1,458.80	1,530.32	1,519.29	11.03	138.769		
300.00	300.00	281.80	281.80	0.99	10.80	-72.41	462.36	-1,458.80	1,530.32	1,518.53	11.78	129.863		
400.00	400.00	381.80	381.80	1.31	11.45	-72.41	462.36	-1,458.80	1,530.32	1,517.56	12.75	119.979		
500.00	500.00	481.80	481.80	1.65	12.24	-72.41	462.36	-1,458.80	1,530.32	1,516.43	13.89	110.169		
600.00	600.00	581.80	581.80	1.99	13.17	-72.41	462.36	-1,458.80	1,530.32	1,515.16	15.16	100.968		
700.00	700.00	681.80	681.80	2.34	14.19	-72.41	462.36	-1,458.80	1,530.32	1,513.79	16.52	92.606		
800.00	800.00	781.80	781.80	2.69	15.28	-72.41	462.36	-1,458.80	1,530.32	1,512.34	17.98	85.136		
900.00	900.00	881.80	881.80	3.04	16.45	-72.41	462.36	-1,458.80	1,530.32	1,510.83	19.49	78.519		
1,000.00	1,000.00	981.80	981.80	3.40	17.66	-72.41	462.36	-1,458.80	1,530.32	1,509.26	21.06	72.677		
1,100.00	1,100.00	1,081.80	1,081.80	3.75	18.91	-72.41	462.36	-1,458.80	1,530.32	1,507.65	22.66	67.520		
1,200.00	1,200.00	1,181.80	1,181.80	4.11	20.20	-72.41	462.36	-1,458.80	1,530.32	1,506.01	24.31	62.958		
1,300.00	1,300.00	1,281.80	1,281.80	4.46	21.51	-72.41	462.36	-1,458.80	1,530.32	1,504.34	25.98	58.910		
1,400.00	1,400.00	1,381.80	1,381.80	4.82	22.85	-72.41	462.36	-1,458.80	1,530.32	1,502.65	27.67	55.306		
1,500.00	1,500.00	1,481.80	1,481.80	5.18	24.21	-72.41	462.36	-1,458.80	1,530.32	1,500.93	29.38	52.083		
1,600.00	1,600.00	1,581.80	1,581.80	5.53	25.58	-72.41	462.36	-1,458.80	1,530.32	1,499.21	31.11	49.189		
1,700.00	1,700.00	1,681.80	1,681.80	5.89	26.96	-72.41	462.36	-1,458.80	1,530.32	1,497.46	32.85	46.581		
1,800.00	1,800.00	1,781.80	1,781.80	6.25	28.36	-72.41	462.36	-1,458.80	1,530.32	1,495.71	34.61	44.221		
1,900.00	1,900.00	1,881.80	1,881.80	6.61	29.76	-72.41	462.36	-1,458.80	1,530.32	1,493.95	36.37	42.077		
2,000.00	2,000.00	1,981.80	1,981.80	6.96	31.18	-72.41	462.36	-1,458.80	1,530.32	1,492.18	38.14	40.122 CC		
2,100.00	2,099.99	2,081.79	2,081.79	7.31	32.60	-167.90	462.36	-1,458.80	1,531.17	1,491.26	39.91	38.364 ES		
2,200.00	2,199.96	2,181.76	2,181.76	7.65	34.03	-167.91	462.36	-1,458.80	1,533.73	1,492.05	41.68	36.799		
2,300.00	2,299.86	2,281.66	2,281.66	7.99	35.46	-167.94	462.36	-1,458.80	1,538.00	1,494.54	43.45	35.395		
2,399.87	2,399.54	2,381.34	2,381.34	8.34	36.90	-167.97	462.36	-1,458.80	1,543.96	1,498.73	45.23	34.136		
2,500.00	2,499.43	2,481.23	2,481.23	8.69	38.34	-168.03	462.36	-1,458.80	1,550.79	1,503.77	47.02	32.985		
2,600.00	2,599.19	2,580.99	2,580.99	9.03	39.78	-168.08	462.36	-1,458.80	1,557.61	1,508.81	48.80	31.916		
2,700.00	2,698.94	2,680.74	2,680.74	9.39	41.23	-168.13	462.36	-1,458.80	1,564.44	1,513.84	50.60	30.919		
2,800.00	2,798.70	2,780.50	2,780.50	9.74	42.68	-168.18	462.36	-1,458.80	1,571.26	1,518.87	52.39	29.989		
2,900.00	2,898.46	2,880.26	2,880.26	10.09	44.14	-168.24	462.36	-1,458.80	1,578.09	1,523.89	54.20	29.118		
3,000.00	2,998.21	2,980.01	2,980.01	10.45	45.59	-168.29	462.36	-1,458.80	1,584.92	1,528.91	56.00	28.301		
3,100.00	3,097.97	3,079.77	3,079.77	10.80	47.05	-168.34	462.36	-1,458.80	1,591.75	1,533.94	57.81	27.534		
3,200.00	3,197.73	3,179.53	3,179.53	11.16	48.51	-168.39	462.36	-1,458.80	1,598.58	1,538.96	59.62	26.812		
3,300.00	3,297.48	3,279.28	3,279.28	11.52	49.98	-168.44	462.36	-1,458.80	1,605.41	1,543.97	61.43	26.132		
3,400.00	3,397.24	3,379.04	3,379.04	11.88	51.44	-168.49	462.36	-1,458.80	1,612.24	1,548.99	63.25	25.490		
3,500.00	3,497.00	3,478.80	3,478.80	12.24	52.91	-168.54	462.36	-1,458.80	1,619.08	1,554.01	65.07	24.882		
3,600.00	3,596.75	3,578.55	3,578.55	12.60	54.37	-168.59	462.36	-1,458.80	1,625.91	1,559.02	66.89	24.307		
3,700.00	3,696.51	3,678.31	3,678.31	12.96	55.84	-168.63	462.36	-1,458.80	1,632.75	1,564.04	68.71	23.762		
3,800.00	3,796.27	3,778.07	3,778.07	13.32	57.31	-168.68	462.36	-1,458.80	1,639.59	1,569.05	70.54	23.245		
3,900.00	3,896.02	3,877.82	3,877.82	13.68	58.79	-168.73	462.36	-1,458.80	1,646.42	1,574.06	72.36	22.753		
4,000.00	3,995.78	3,977.58	3,977.58	14.04	60.26	-168.78	462.36	-1,458.80	1,653.26	1,579.08	74.19	22.285		
4,100.00	4,095.54	4,077.34	4,077.34	14.40	61.73	-168.82	462.36	-1,458.80	1,660.11	1,584.09	76.02	21.839		
4,200.00	4,195.29	4,177.09	4,177.09	14.77	63.21	-168.87	462.36	-1,458.80	1,666.95	1,589.10	77.85	21.413		
4,300.00	4,295.05	4,276.85	4,276.85	15.13	64.68	-168.92	462.36	-1,458.80	1,673.79	1,594.11	79.68	21.007		
4,400.00	4,394.81	4,376.61	4,376.61	15.49	66.16	-168.96	462.36	-1,458.80	1,680.64	1,599.13	81.51	20.619		
4,500.00	4,494.56	4,476.36	4,476.36	15.86	67.64	-169.01	462.36	-1,458.80	1,687.48	1,604.14	83.34	20.248		
4,600.00	4,594.32	4,576.12	4,576.12	16.22	69.11	-169.05	462.36	-1,458.80	1,694.33	1,609.15	85.18	19.892		
4,700.00	4,694.08	4,675.88	4,675.88	16.59	70.59	-169.10	462.36	-1,458.80	1,701.17	1,614.16	87.01	19.551		
4,800.00	4,793.83	4,775.63	4,775.63	16.95	72.07	-169.14	462.36	-1,458.80	1,708.02	1,619.18	88.85	19.224		
4,900.00	4,893.59	4,875.39	4,875.39	17.32	73.55	-169.19	462.36	-1,458.80	1,714.87	1,624.19	90.68	18.911		
5,000.00	4,993.35	4,975.15	4,975.15	17.68	75.03	-169.23	462.36	-1,458.80	1,721.72	1,629.20	92.52	18.609		
5,100.00	5,093.10	5,074.90	5,074.90	18.05	76.51	-169.27	462.36	-1,458.80	1,728.57	1,634.22	94.36	18.319		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,174.66	5,174.66	18.42	78.00	-169.32	462.36	-1,458.80	1,735.43	1,639.23	96.20	18.040		
5,300.00	5,292.62	5,274.42	5,274.42	18.78	79.48	-169.36	462.36	-1,458.80	1,742.28	1,644.24	98.04	17.772		
5,400.00	5,392.37	5,374.17	5,374.17	19.15	80.96	-169.40	462.36	-1,458.80	1,749.14	1,649.26	99.88	17.513		
5,500.00	5,492.13	5,473.93	5,473.93	19.52	82.44	-169.44	462.36	-1,458.80	1,755.99	1,654.27	101.72	17.264		
5,600.00	5,591.89	5,573.69	5,573.69	19.88	83.93	-169.48	462.36	-1,458.80	1,762.85	1,659.29	103.56	17.023		
5,700.00	5,691.64	5,673.44	5,673.44	20.25	85.41	-169.52	462.36	-1,458.80	1,769.70	1,664.31	105.40	16.791		
5,800.00	5,791.40	5,773.20	5,773.20	20.62	86.89	-169.57	462.36	-1,458.80	1,776.56	1,669.32	107.24	16.566		
5,900.00	5,891.16	5,872.96	5,872.96	20.98	88.38	-169.61	462.36	-1,458.80	1,783.42	1,674.34	109.08	16.349		
6,000.00	5,990.91	5,972.71	5,972.71	21.35	89.86	-169.65	462.36	-1,458.80	1,790.28	1,679.36	110.93	16.139 SF		
6,100.00	6,090.67	5,487.00	5,485.89	21.72	82.64	-169.45	462.36	-1,458.80	1,890.45	1,791.39	99.06	19.084		
6,200.00	6,190.42	5,487.00	5,485.89	22.09	82.64	-169.45	462.36	-1,458.80	1,930.15	1,832.33	97.82	19.731		
6,300.00	6,290.18	5,487.00	5,485.89	22.45	82.64	-169.45	462.36	-1,458.80	1,974.13	1,877.67	96.45	20.467		
6,400.00	6,389.94	5,487.00	5,485.89	22.82	82.64	-169.45	462.36	-1,458.80	2,022.10	1,927.12	94.98	21.290		
6,500.00	6,489.69	5,487.00	5,485.89	23.19	82.64	-169.45	462.36	-1,458.80	2,073.78	1,980.35	93.43	22.196		
6,600.00	6,589.45	5,487.00	5,485.89	23.56	82.64	-169.45	462.36	-1,458.80	2,128.91	2,037.07	91.84	23.182		
6,700.00	6,689.21	5,487.00	5,485.89	23.93	82.64	-169.45	462.36	-1,458.80	2,187.22	2,097.01	90.21	24.245		
6,800.00	6,788.96	5,487.00	5,485.89	24.29	82.64	-169.45	462.36	-1,458.80	2,248.47	2,159.89	88.59	25.382		
6,900.00	6,888.72	5,487.00	5,485.89	24.66	82.64	-169.45	462.36	-1,458.80	2,312.43	2,225.46	86.97	26.589		
7,000.00	6,988.48	5,487.00	5,485.89	25.03	82.64	-169.45	462.36	-1,458.80	2,378.87	2,293.50	85.37	27.864		
7,100.00	7,088.23	5,487.00	5,485.89	25.40	82.64	-169.45	462.36	-1,458.80	2,447.59	2,363.78	83.81	29.204		
7,200.00	7,187.99	5,487.00	5,485.89	25.77	82.64	-169.45	462.36	-1,458.80	2,518.41	2,436.12	82.29	30.604		
7,300.00	7,287.75	5,487.00	5,485.89	26.14	82.64	-169.45	462.36	-1,458.80	2,591.16	2,510.34	80.82	32.062		
7,400.00	7,387.50	5,487.00	5,485.89	26.50	82.64	-169.45	462.36	-1,458.80	2,665.67	2,586.27	79.40	33.574		
7,500.00	7,487.26	5,487.00	5,485.89	26.87	82.64	-169.45	462.36	-1,458.80	2,741.80	2,663.77	78.03	35.138		
7,600.00	7,587.02	5,487.00	5,485.89	27.24	82.64	-169.45	462.36	-1,458.80	2,819.43	2,742.71	76.72	36.749		
7,700.00	7,686.77	5,487.00	5,485.89	27.61	82.64	-169.45	462.36	-1,458.80	2,898.42	2,822.95	75.47	38.405		
7,800.00	7,786.53	5,487.00	5,485.89	27.98	82.64	-169.45	462.36	-1,458.80	2,978.68	2,904.40	74.28	40.102		
7,900.00	7,886.29	5,487.00	5,485.89	28.35	82.64	-169.45	462.36	-1,458.80	3,060.10	2,986.96	73.14	41.838		
8,000.00	7,986.04	5,487.00	5,485.89	28.72	82.64	-169.45	462.36	-1,458.80	3,142.60	3,070.54	72.06	43.608		
8,100.00	8,085.80	5,487.00	5,485.89	29.09	82.64	-169.45	462.36	-1,458.80	3,226.08	3,155.04	71.04	45.411		
8,200.00	8,185.56	5,487.00	5,485.89	29.46	82.64	-169.45	462.36	-1,458.80	3,310.49	3,240.41	70.07	47.242		
8,300.00	8,285.31	5,487.00	5,485.89	29.83	82.64	-169.45	462.36	-1,458.80	3,395.73	3,326.57	69.16	49.100		
8,400.00	8,385.07	5,487.00	5,485.89	30.20	82.64	-169.45	462.36	-1,458.80	3,481.77	3,413.47	68.30	50.981		
8,500.00	8,484.83	5,487.00	5,485.89	30.56	82.64	-169.45	462.36	-1,458.80	3,568.53	3,501.05	67.48	52.882		
8,600.00	8,584.58	5,487.00	5,485.89	30.93	82.64	-169.45	462.36	-1,458.80	3,655.97	3,589.25	66.71	54.801		
8,700.00	8,684.34	5,487.00	5,485.89	31.30	82.64	-169.45	462.36	-1,458.80	3,744.03	3,678.04	65.99	56.734		
8,800.00	8,784.10	5,487.00	5,485.89	31.67	82.64	-169.45	462.36	-1,458.80	3,832.68	3,767.37	65.31	58.680		
8,900.00	8,883.85	5,487.00	5,485.89	32.04	82.64	-169.45	462.36	-1,458.80	3,921.88	3,857.20	64.68	60.636		
9,000.00	8,983.61	5,487.00	5,485.89	32.41	82.64	-169.45	462.36	-1,458.80	4,011.59	3,947.51	64.08	62.599		
9,100.00	9,083.37	5,487.00	5,485.89	32.78	82.64	-169.45	462.36	-1,458.80	4,101.77	4,038.25	63.53	64.567		
9,200.00	9,183.12	5,487.00	5,485.89	33.15	82.64	-169.45	462.36	-1,458.80	4,192.40	4,129.39	63.01	66.539		
9,300.00	9,282.88	5,487.00	5,485.89	33.52	82.64	-169.45	462.36	-1,458.80	4,283.45	4,220.92	62.52	68.510		
9,400.00	9,382.64	5,487.00	5,485.89	33.89	82.64	-169.45	462.36	-1,458.80	4,374.88	4,312.81	62.07	70.481		
9,428.07	9,410.64	5,487.00	5,485.89	33.99	82.64	-169.45	462.36	-1,458.80	4,400.62	4,338.67	61.95	71.034		
9,500.00	9,482.43	5,487.00	5,485.89	34.26	82.64	-169.89	462.36	-1,458.80	4,466.42	4,404.78	61.64	72.457		
9,600.00	9,582.36	5,487.00	5,485.89	34.62	82.64	-170.44	462.36	-1,458.80	4,557.32	4,496.12	61.21	74.460		
9,694.65	9,677.00	5,487.00	5,485.89	34.95	82.64	-75.45	462.36	-1,458.80	4,642.71	4,581.93	60.78	76.381		
9,700.00	9,682.35	5,487.00	5,485.89	34.97	82.64	-75.45	462.36	-1,458.80	4,647.52	4,586.76	60.76	76.491		
9,800.00	9,782.35	5,487.00	5,485.89	35.31	82.64	-75.45	462.36	-1,458.80	4,737.63	4,677.30	60.33	78.530		
9,900.00	9,882.35	5,487.00	5,485.89	35.65	82.64	-75.45	462.36	-1,458.80	4,828.12	4,768.19	59.93	80.562		
10,000.00	9,982.35	5,487.00	5,485.89	35.99	82.64	-75.45	462.36	-1,458.80	4,918.99	4,859.43	59.56	82.587		
10,044.69	10,027.04	5,487.00	5,485.89	36.14	82.64	-75.45	462.36	-1,458.80	4,959.71	4,900.30	59.41	83.490		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	5,487.00	5,485.89	36.16	82.64	-73.89	462.36	-1,458.80	4,964.55	4,905.16	59.39	83.597		
10,100.00	10,082.26	5,487.00	5,485.89	36.32	82.64	-63.93	462.36	-1,458.80	5,009.84	4,950.63	59.21	84.613		
10,150.00	10,131.76	5,487.00	5,485.89	36.49	82.64	-55.46	462.36	-1,458.80	5,054.39	4,995.37	59.02	85.637		
10,200.00	10,180.46	5,487.00	5,485.89	36.65	82.64	-48.51	462.36	-1,458.80	5,097.89	5,039.06	58.83	86.660		
10,250.00	10,227.98	5,487.00	5,485.89	36.81	82.64	-42.91	462.36	-1,458.80	5,140.02	5,081.40	58.63	87.675		
10,300.00	10,273.98	5,487.00	5,485.89	36.95	82.64	-38.41	462.36	-1,458.80	5,180.52	5,122.10	58.42	88.674		
10,350.00	10,318.11	5,487.00	5,485.89	37.09	82.64	-34.79	462.36	-1,458.80	5,219.11	5,160.90	58.22	89.649		
10,400.00	10,360.01	5,487.00	5,485.89	37.21	82.64	-31.86	462.36	-1,458.80	5,255.55	5,197.53	58.02	90.589		
10,450.00	10,399.38	5,487.00	5,485.89	37.32	82.64	-29.49	462.36	-1,458.80	5,289.60	5,231.78	57.82	91.486		
10,500.00	10,435.92	5,487.00	5,485.89	37.42	82.64	-27.56	462.36	-1,458.80	5,321.05	5,263.42	57.63	92.330		
10,550.00	10,469.35	5,487.00	5,485.89	37.51	82.64	-25.98	462.36	-1,458.80	5,349.71	5,292.26	57.46	93.109		
10,600.00	10,499.41	5,487.00	5,485.89	37.59	82.64	-24.70	462.36	-1,458.80	5,375.42	5,318.12	57.30	93.814		
10,650.00	10,525.87	5,487.00	5,485.89	37.66	82.64	-23.66	462.36	-1,458.80	5,398.01	5,340.85	57.16	94.433		
10,700.00	10,548.54	5,487.00	5,485.89	37.74	82.64	-22.83	462.36	-1,458.80	5,417.36	5,360.31	57.05	94.957		
10,750.00	10,567.24	5,487.00	5,485.89	37.84	82.64	-22.18	462.36	-1,458.80	5,433.35	5,376.38	56.97	95.376		
10,800.00	10,581.83	5,487.00	5,485.89	37.97	82.64	-21.70	462.36	-1,458.80	5,445.89	5,388.98	56.92	95.682		
10,850.00	10,592.19	5,487.00	5,485.89	38.11	82.64	-21.36	462.36	-1,458.80	5,454.92	5,398.02	56.90	95.868		
10,900.00	10,598.26	5,487.00	5,485.89	38.25	82.64	-21.16	462.36	-1,458.80	5,460.37	5,403.45	56.92	95.929		
10,944.69	10,600.00	5,487.00	5,485.89	38.39	82.64	-21.10	462.36	-1,458.80	5,462.20	5,405.23	56.97	95.874		
11,000.00	10,600.00	5,487.00	5,485.89	38.56	82.64	-21.10	462.36	-1,458.80	5,462.96	5,405.89	57.07	95.720		
11,100.00	10,600.00	5,487.00	5,485.89	38.91	82.64	-21.10	462.36	-1,458.80	5,465.75	5,408.42	57.33	95.336		
11,200.00	10,600.00	5,487.00	5,485.89	39.31	82.64	-21.10	462.36	-1,458.80	5,470.37	5,412.68	57.69	94.822		
11,300.00	10,600.00	5,487.00	5,485.89	39.76	82.64	-21.10	462.36	-1,458.80	5,476.81	5,418.66	58.15	94.189		
11,400.00	10,600.00	5,487.00	5,485.89	40.25	82.64	-21.10	462.36	-1,458.80	5,485.06	5,426.36	58.70	93.447		
11,500.00	10,600.00	5,487.00	5,485.89	40.79	82.64	-21.10	462.36	-1,458.80	5,495.12	5,435.79	59.34	92.611		
11,600.00	10,600.00	5,487.00	5,485.89	41.37	82.64	-21.10	462.36	-1,458.80	5,506.98	5,446.93	60.06	91.694		
11,700.00	10,600.00	5,487.00	5,485.89	41.99	82.64	-21.10	462.36	-1,458.80	5,520.63	5,459.77	60.86	90.712		
11,800.00	10,600.00	5,487.00	5,485.89	42.65	82.64	-21.10	462.36	-1,458.80	5,536.05	5,474.32	61.73	89.679		
11,900.00	10,600.00	5,487.00	5,485.89	43.35	82.64	-21.10	462.36	-1,458.80	5,553.23	5,490.56	62.67	88.609		
12,000.00	10,600.00	5,487.00	5,485.89	44.09	82.64	-21.10	462.36	-1,458.80	5,572.15	5,508.48	63.67	87.514		
12,100.00	10,600.00	5,487.00	5,485.89	44.86	82.64	-21.10	462.36	-1,458.80	5,592.79	5,528.07	64.73	86.408		
12,200.00	10,600.00	5,487.00	5,485.89	45.67	82.64	-21.10	462.36	-1,458.80	5,615.14	5,549.31	65.83	85.300		
12,300.00	10,600.00	5,487.00	5,485.89	46.50	82.64	-21.10	462.36	-1,458.80	5,639.18	5,572.20	66.97	84.200		
12,400.00	10,600.00	5,487.00	5,485.89	47.37	82.64	-21.10	462.36	-1,458.80	5,664.87	5,596.72	68.16	83.117		
12,500.00	10,600.00	5,487.00	5,485.89	48.26	82.64	-21.10	462.36	-1,458.80	5,692.21	5,622.84	69.37	82.057		
12,600.00	10,600.00	5,487.00	5,485.89	49.18	82.64	-21.10	462.36	-1,458.80	5,721.17	5,650.56	70.61	81.027		
12,700.00	10,600.00	5,487.00	5,485.89	50.13	82.64	-21.10	462.36	-1,458.80	5,751.72	5,679.85	71.87	80.030		
12,800.00	10,600.00	5,487.00	5,485.89	51.10	82.64	-21.10	462.36	-1,458.80	5,783.84	5,710.69	73.15	79.070		
12,900.00	10,600.00	5,487.00	5,485.89	52.09	82.64	-21.10	462.36	-1,458.80	5,817.50	5,743.06	74.44	78.151		
13,000.00	10,600.00	5,487.00	5,485.89	53.10	82.64	-21.10	462.36	-1,458.80	5,852.67	5,776.93	75.74	77.274		
13,100.00	10,600.00	5,487.00	5,485.89	54.14	82.64	-21.10	462.36	-1,458.80	5,889.33	5,812.29	77.04	76.441		
13,200.00	10,600.00	5,487.00	5,485.89	55.19	82.64	-21.10	462.36	-1,458.80	5,927.46	5,849.11	78.35	75.653		
13,300.00	10,600.00	5,487.00	5,485.89	56.26	82.64	-21.10	462.36	-1,458.80	5,967.01	5,887.35	79.66	74.909		
13,400.00	10,600.00	5,487.00	5,485.89	57.35	82.64	-21.10	462.36	-1,458.80	6,007.97	5,927.01	80.96	74.211		
13,500.00	10,600.00	5,487.00	5,485.89	58.45	82.64	-21.10	462.36	-1,458.80	6,050.31	5,968.05	82.25	73.556		
13,600.00	10,600.00	5,487.00	5,485.89	59.57	82.64	-21.10	462.36	-1,458.80	6,093.99	6,010.45	83.54	72.946		
13,700.00	10,600.00	5,487.00	5,485.89	60.71	82.64	-21.10	462.36	-1,458.80	6,138.99	6,054.17	84.82	72.379		
13,800.00	10,600.00	5,487.00	5,485.89	61.85	82.64	-21.10	462.36	-1,458.80	6,185.28	6,099.20	86.08	71.854		
13,900.00	10,600.00	5,487.00	5,485.89	63.01	82.64	-21.10	462.36	-1,458.80	6,232.83	6,145.50	87.33	71.369		
14,000.00	10,600.00	5,487.00	5,485.89	64.18	82.64	-21.10	462.36	-1,458.80	6,281.61	6,193.05	88.57	70.925		
14,100.00	10,600.00	5,487.00	5,485.89	65.37	82.64	-21.10	462.36	-1,458.80	6,331.60	6,241.81	89.79	70.519		
14,200.00	10,600.00	5,487.00	5,485.89	66.56	82.64	-21.10	462.36	-1,458.80	6,382.76	6,291.77	90.99	70.150		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
14,300.00	10,600.00	5,487.00	5,485.89	67.76	82.64	-21.10	462.36	-1,458.80	6,435.07	6,342.90	92.17	69.818		
14,400.00	10,600.00	5,487.00	5,485.89	68.98	82.64	-21.10	462.36	-1,458.80	6,488.50	6,395.17	93.33	69.520		
14,500.00	10,600.00	5,487.00	5,485.89	70.20	82.64	-21.10	462.36	-1,458.80	6,543.02	6,448.54	94.48	69.255		
14,600.00	10,600.00	5,487.00	5,485.89	71.43	82.64	-21.10	462.36	-1,458.80	6,598.61	6,503.01	95.60	69.022		
14,700.00	10,600.00	5,487.00	5,485.89	72.67	82.64	-21.10	462.36	-1,458.80	6,655.23	6,558.53	96.70	68.820		
14,800.00	10,600.00	5,487.00	5,485.89	73.92	82.64	-21.10	462.36	-1,458.80	6,712.87	6,615.08	97.79	68.647		
14,900.00	10,600.00	5,487.00	5,485.89	75.17	82.64	-21.10	462.36	-1,458.80	6,771.49	6,672.64	98.85	68.503		
15,000.00	10,600.00	5,487.00	5,485.89	76.44	82.64	-21.10	462.36	-1,458.80	6,831.07	6,731.18	99.89	68.386		
15,100.00	10,600.00	5,487.00	5,485.89	77.70	82.64	-21.10	462.36	-1,458.80	6,891.59	6,790.68	100.91	68.295		
15,200.00	10,600.00	5,487.00	5,485.89	78.98	82.64	-21.10	462.36	-1,458.80	6,953.02	6,851.12	101.91	68.229		
15,300.00	10,600.00	5,487.00	5,485.89	80.26	82.64	-21.10	462.36	-1,458.80	7,015.34	6,912.46	102.88	68.186		
15,400.00	10,600.00	5,487.00	5,485.89	81.55	82.64	-21.10	462.36	-1,458.80	7,078.53	6,974.69	103.84	68.167		
15,484.47	10,600.00	5,487.00	5,485.89	82.64	82.64	-21.10	462.36	-1,458.80	7,132.55	7,027.92	104.63	68.168		

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	38.44	3,124.12	2,479.28	3,988.51					
100.00	100.00	65.00	65.00	0.52	0.96	38.44	3,124.12	2,479.28	3,988.35	3,986.87	1.48	2,692.521		
200.00	200.00	165.00	165.00	0.70	2.37	38.44	3,124.12	2,479.28	3,988.35	3,985.28	3.08	1,296.403		
300.00	300.00	265.00	265.00	0.99	3.85	38.44	3,124.12	2,479.28	3,988.35	3,983.52	4.84	824.284		
400.00	400.00	365.00	365.00	1.31	5.34	38.44	3,124.12	2,479.28	3,988.35	3,981.71	6.65	599.870		
500.00	500.00	465.00	465.00	1.65	6.83	38.44	3,124.12	2,479.28	3,988.35	3,979.88	8.48	470.433		
600.00	600.00	565.00	565.00	1.99	8.33	38.44	3,124.12	2,479.28	3,988.35	3,978.04	10.32	386.589		
700.00	700.00	665.00	665.00	2.34	9.82	38.44	3,124.12	2,479.28	3,988.35	3,976.19	12.16	327.971		
800.00	800.00	765.00	765.00	2.69	11.32	38.44	3,124.12	2,479.28	3,988.35	3,974.35	14.01	284.724		
900.00	900.00	865.00	865.00	3.04	12.81	38.44	3,124.12	2,479.28	3,988.35	3,972.50	15.86	251.520		
1,000.00	1,000.00	965.00	965.00	3.40	14.31	38.44	3,124.12	2,479.28	3,988.35	3,970.65	17.71	225.234		
1,100.00	1,100.00	1,065.00	1,065.00	3.75	15.81	38.44	3,124.12	2,479.28	3,988.35	3,968.79	19.56	203.912		
1,200.00	1,200.00	1,165.00	1,165.00	4.11	17.30	38.44	3,124.12	2,479.28	3,988.35	3,966.94	21.41	186.271		
1,300.00	1,300.00	1,265.00	1,265.00	4.46	18.80	38.44	3,124.12	2,479.28	3,988.35	3,965.09	23.26	171.435		
1,400.00	1,400.00	1,365.00	1,365.00	4.82	20.30	38.44	3,124.12	2,479.28	3,988.35	3,963.24	25.12	158.785		
1,500.00	1,500.00	1,465.00	1,465.00	5.18	21.79	38.44	3,124.12	2,479.28	3,988.35	3,961.38	26.97	147.872		
1,600.00	1,600.00	1,565.00	1,565.00	5.53	23.29	38.44	3,124.12	2,479.28	3,988.35	3,959.53	28.83	138.361		
1,700.00	1,700.00	1,665.00	1,665.00	5.89	24.79	38.44	3,124.12	2,479.28	3,988.35	3,957.67	30.68	129.999		
1,800.00	1,800.00	1,765.00	1,765.00	6.25	26.29	38.44	3,124.12	2,479.28	3,988.35	3,955.82	32.53	122.589		
1,900.00	1,900.00	1,865.00	1,865.00	6.61	27.78	38.44	3,124.12	2,479.28	3,988.35	3,953.96	34.39	115.977		
2,000.00	2,000.00	1,965.00	1,965.00	6.96	29.28	38.44	3,124.12	2,479.28	3,988.35	3,952.11	36.24	110.042		
2,100.00	2,099.99	2,064.99	2,064.99	7.31	30.78	-57.06	3,124.12	2,479.28	3,987.88	3,949.79	38.09	104.699		
2,200.00	2,199.96	2,164.96	2,164.96	7.65	32.27	-57.10	3,124.12	2,479.28	3,986.46	3,946.53	39.93	99.847		
2,300.00	2,299.86	2,264.86	2,264.86	7.99	33.77	-57.17	3,124.12	2,479.28	3,984.09	3,942.32	41.76	95.397		
2,399.87	2,399.54	2,364.54	2,364.54	8.34	35.26	-57.27	3,124.12	2,479.28	3,980.78	3,937.18	43.60	91.303		
2,500.00	2,499.43	2,464.43	2,464.43	8.69	36.76	-57.36	3,124.12	2,479.28	3,977.01	3,931.56	45.44	87.518		
2,600.00	2,599.19	2,564.19	2,564.19	9.03	38.25	-57.44	3,124.12	2,479.28	3,973.24	3,925.96	47.28	84.030		
2,700.00	2,698.94	2,663.94	2,663.94	9.39	39.75	-57.53	3,124.12	2,479.28	3,969.49	3,920.36	49.13	80.800		
2,800.00	2,798.70	2,763.70	2,763.70	9.74	41.24	-57.61	3,124.12	2,479.28	3,965.74	3,914.77	50.97	77.803		
2,900.00	2,898.46	2,863.46	2,863.46	10.09	42.73	-57.70	3,124.12	2,479.28	3,962.00	3,909.19	52.82	75.012		
3,000.00	2,998.21	2,963.21	2,963.21	10.45	44.23	-57.78	3,124.12	2,479.28	3,958.28	3,903.61	54.67	72.409		
3,100.00	3,097.97	3,062.97	3,062.97	10.80	45.72	-57.87	3,124.12	2,479.28	3,954.56	3,898.04	56.51	69.975		
3,200.00	3,197.73	3,162.73	3,162.73	11.16	47.22	-57.95	3,124.12	2,479.28	3,950.85	3,892.48	58.36	67.694		
3,300.00	3,297.48	3,262.48	3,262.48	11.52	48.71	-58.04	3,124.12	2,479.28	3,947.14	3,886.93	60.21	65.553		
3,400.00	3,397.24	3,362.24	3,362.24	11.88	50.20	-58.13	3,124.12	2,479.28	3,943.45	3,881.39	62.06	63.538		
3,500.00	3,497.00	3,462.00	3,462.00	12.24	51.70	-58.21	3,124.12	2,479.28	3,939.77	3,875.85	63.92	61.640		
3,600.00	3,596.75	3,561.75	3,561.75	12.60	53.19	-58.30	3,124.12	2,479.28	3,936.09	3,870.32	65.77	59.848		
3,700.00	3,696.51	3,661.51	3,661.51	12.96	54.68	-58.38	3,124.12	2,479.28	3,932.42	3,864.80	67.62	58.153		
3,800.00	3,796.27	3,761.27	3,761.27	13.32	56.18	-58.47	3,124.12	2,479.28	3,928.77	3,859.29	69.48	56.549		
3,900.00	3,896.02	3,861.02	3,861.02	13.68	57.67	-58.56	3,124.12	2,479.28	3,925.12	3,853.79	71.33	55.028		
4,000.00	3,995.78	3,960.78	3,960.78	14.04	59.17	-58.64	3,124.12	2,479.28	3,921.48	3,848.29	73.18	53.584		
4,100.00	4,095.54	4,060.54	4,060.54	14.40	60.66	-58.73	3,124.12	2,479.28	3,917.85	3,842.81	75.04	52.211		
4,200.00	4,195.29	4,160.29	4,160.29	14.77	62.15	-58.82	3,124.12	2,479.28	3,914.23	3,837.33	76.89	50.904		
4,300.00	4,295.05	4,260.05	4,260.05	15.13	63.65	-58.90	3,124.12	2,479.28	3,910.61	3,831.86	78.75	49.658		
4,400.00	4,394.81	4,359.81	4,359.81	15.49	65.14	-58.99	3,124.12	2,479.28	3,907.01	3,826.40	80.61	48.470		
4,500.00	4,494.56	4,459.56	4,459.56	15.86	66.64	-59.08	3,124.12	2,479.28	3,903.42	3,820.95	82.46	47.335		
4,600.00	4,594.32	4,559.32	4,559.32	16.22	68.13	-59.17	3,124.12	2,479.28	3,899.83	3,815.51	84.32	46.250		
4,700.00	4,694.08	4,659.08	4,659.08	16.59	69.62	-59.26	3,124.12	2,479.28	3,896.25	3,810.08	86.18	45.212		
4,800.00	4,793.83	4,758.83	4,758.83	16.95	71.12	-59.34	3,124.12	2,479.28	3,892.69	3,804.65	88.04	44.217		
4,900.00	4,893.59	4,858.59	4,858.59	17.32	72.61	-59.43	3,124.12	2,479.28	3,889.13	3,799.24	89.89	43.264		
5,000.00	4,993.35	4,958.35	4,958.35	17.68	74.10	-59.52	3,124.12	2,479.28	3,885.58	3,793.83	91.75	42.349		
5,100.00	5,093.10	5,058.10	5,058.10	18.05	75.60	-59.61	3,124.12	2,479.28	3,882.04	3,788.43	93.61	41.470		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
5,200.00	5,192.86	5,157.86	5,157.86	18.42	77.09	-59.70	3,124.12	2,479.28	3,878.51	3,783.05	95.47	40.626		
5,300.00	5,292.62	5,257.62	5,257.62	18.78	78.59	-59.79	3,124.12	2,479.28	3,874.99	3,777.67	97.33	39.814		
5,400.00	5,392.37	5,357.37	5,357.37	19.15	80.08	-59.88	3,124.12	2,479.28	3,871.48	3,772.30	99.19	39.032		
5,500.00	5,492.13	5,457.13	5,457.13	19.52	81.57	-59.96	3,124.12	2,479.28	3,867.98	3,766.94	101.05	38.279		
5,600.00	5,591.89	5,556.89	5,556.89	19.88	83.07	-60.05	3,124.12	2,479.28	3,864.49	3,761.58	102.91	37.554		
5,700.00	5,691.64	5,656.64	5,656.64	20.25	84.56	-60.14	3,124.12	2,479.28	3,861.01	3,756.24	104.77	36.854		
5,800.00	5,791.40	5,756.40	5,756.40	20.62	86.06	-60.23	3,124.12	2,479.28	3,857.53	3,750.91	106.62	36.179		
5,900.00	5,891.16	5,856.16	5,856.16	20.98	87.55	-60.32	3,124.12	2,479.28	3,854.07	3,745.59	108.48	35.526		
6,000.00	5,990.91	5,955.91	5,955.91	21.35	89.04	-60.41	3,124.12	2,479.28	3,850.62	3,740.27	110.34	34.896		
6,100.00	6,090.67	6,055.67	6,055.67	21.72	90.54	-60.50	3,124.12	2,479.28	3,847.17	3,734.97	112.21	34.287		
6,200.00	6,190.42	6,155.42	6,155.42	22.09	92.03	-60.59	3,124.12	2,479.28	3,843.74	3,729.67	114.07	33.698		
6,300.00	6,290.18	6,255.18	6,255.18	22.45	93.52	-60.68	3,124.12	2,479.28	3,840.31	3,724.38	115.93	33.127		
6,400.00	6,389.94	6,354.94	6,354.94	22.82	95.02	-60.77	3,124.12	2,479.28	3,836.89	3,719.11	117.79	32.575		
6,500.00	6,489.69	6,454.69	6,454.69	23.19	96.51	-60.86	3,124.12	2,479.28	3,833.49	3,713.84	119.65	32.040		
6,600.00	6,589.45	6,554.45	6,554.45	23.56	98.01	-60.96	3,124.12	2,479.28	3,830.09	3,708.58	121.51	31.521		
6,700.00	6,689.21	6,654.21	6,654.21	23.93	99.50	-61.05	3,124.12	2,479.28	3,826.70	3,703.34	123.37	31.018		
6,800.00	6,788.96	6,753.96	6,753.96	24.29	100.99	-61.14	3,124.12	2,479.28	3,823.33	3,698.10	125.23	30.530		
6,900.00	6,888.72	6,853.72	6,853.72	24.66	102.49	-61.23	3,124.12	2,479.28	3,819.96	3,692.87	127.09	30.057		
7,000.00	6,988.48	6,953.48	6,953.48	25.03	103.98	-61.32	3,124.12	2,479.28	3,816.60	3,687.65	128.95	29.597		
7,100.00	7,088.23	7,053.23	7,053.23	25.40	105.48	-61.41	3,124.12	2,479.28	3,813.25	3,682.44	130.81	29.150		
7,200.00	7,187.99	7,152.99	7,152.99	25.77	106.97	-61.50	3,124.12	2,479.28	3,809.92	3,677.24	132.68	28.716		
7,300.00	7,287.75	7,252.75	7,252.75	26.14	108.46	-61.60	3,124.12	2,479.28	3,806.59	3,672.05	134.54	28.294		
7,400.00	7,387.50	7,352.50	7,352.50	26.50	109.96	-61.69	3,124.12	2,479.28	3,803.27	3,666.87	136.40	27.883		
7,500.00	7,487.26	7,452.26	7,452.26	26.87	111.45	-61.78	3,124.12	2,479.28	3,799.96	3,661.70	138.26	27.484		
7,600.00	7,587.02	7,552.02	7,552.02	27.24	112.94	-61.87	3,124.12	2,479.28	3,796.66	3,656.54	140.12	27.095		
7,700.00	7,686.77	7,651.77	7,651.77	27.61	114.44	-61.97	3,124.12	2,479.28	3,793.37	3,651.39	141.98	26.717		
7,800.00	7,786.53	7,751.53	7,751.53	27.98	115.93	-62.06	3,124.12	2,479.28	3,790.10	3,646.25	143.85	26.348		
7,900.00	7,886.29	7,851.29	7,851.29	28.35	117.43	-62.15	3,124.12	2,479.28	3,786.83	3,641.12	145.71	25.989		
8,000.00	7,986.04	7,951.04	7,951.04	28.72	118.92	-62.25	3,124.12	2,479.28	3,783.57	3,636.00	147.57	25.639		
8,100.00	8,085.80	8,050.80	8,050.80	29.09	120.41	-62.34	3,124.12	2,479.28	3,780.32	3,630.89	149.43	25.298		
8,200.00	8,185.56	8,150.56	8,150.56	29.46	121.91	-62.43	3,124.12	2,479.28	3,777.08	3,625.79	151.30	24.965		
8,300.00	8,285.31	8,250.31	8,250.31	29.83	123.40	-62.53	3,124.12	2,479.28	3,773.85	3,620.70	153.16	24.640		
8,400.00	8,385.07	8,350.07	8,350.07	30.20	124.90	-62.62	3,124.12	2,479.28	3,770.64	3,615.62	155.02	24.323		
8,500.00	8,484.83	8,449.83	8,449.83	30.56	126.39	-62.71	3,124.12	2,479.28	3,767.43	3,610.54	156.88	24.014		
8,600.00	8,584.58	8,549.58	8,549.58	30.93	127.88	-62.81	3,124.12	2,479.28	3,764.23	3,605.48	158.75	23.712		
8,700.00	8,684.34	8,649.34	8,649.34	31.30	129.38	-62.90	3,124.12	2,479.28	3,761.04	3,600.43	160.61	23.418		
8,800.00	8,784.10	8,749.10	8,749.10	31.67	130.87	-63.00	3,124.12	2,479.28	3,757.86	3,595.39	162.47	23.129		
8,900.00	8,883.85	8,848.85	8,848.85	32.04	132.36	-63.09	3,124.12	2,479.28	3,754.70	3,590.36	164.33	22.848		
9,000.00	8,983.61	8,948.61	8,948.61	32.41	133.86	-63.19	3,124.12	2,479.28	3,751.54	3,585.34	166.20	22.573		
9,100.00	9,083.37	9,048.37	9,048.37	32.78	135.35	-63.28	3,124.12	2,479.28	3,748.39	3,580.34	168.06	22.304		
9,200.00	9,183.12	9,148.12	9,148.12	33.15	136.85	-63.38	3,124.12	2,479.28	3,745.26	3,575.34	169.92	22.041		
9,300.00	9,282.88	9,247.88	9,247.88	33.52	138.34	-63.47	3,124.12	2,479.28	3,742.13	3,570.35	171.79	21.784		
9,400.00	9,382.64	9,347.64	9,347.64	33.89	139.83	-63.57	3,124.12	2,479.28	3,739.02	3,565.37	173.65	21.532		
9,428.07	9,410.64	9,375.64	9,375.64	33.99	140.25	-63.59	3,124.12	2,479.28	3,738.14	3,563.97	174.17	21.462		
9,500.00	9,482.43	9,447.43	9,447.43	34.26	141.33	-63.63	3,124.12	2,479.28	3,736.21	3,560.70	175.51	21.288		
9,600.00	9,582.36	9,547.36	9,547.36	34.62	142.82	-63.66	3,124.12	2,479.28	3,734.53	3,554.61	176.85	21.128		
9,694.65	9,677.00	9,642.00	9,642.00	34.95	144.31	-63.69	3,124.12	2,479.28	3,733.01	3,549.07	178.19	20.977		
9,700.00	9,682.35	9,647.35	9,647.35	34.97	144.33	-63.69	3,124.12	2,479.28	3,733.01	3,549.07	178.19	20.977		
9,800.00	9,782.35	9,747.35	9,747.35	35.31	145.82	-63.72	3,124.12	2,479.28	3,731.51	3,544.04	179.53	20.826		
9,900.00	9,882.35	9,847.35	9,847.35	35.65	147.31	-63.75	3,124.12	2,479.28	3,730.01	3,539.01	180.87	20.675		
10,000.00	9,982.35	9,947.35	9,947.35	35.99	148.80	-63.78	3,124.12	2,479.28	3,728.51	3,534.01	182.21	20.524		
10,044.69	10,027.04	10,002.04	10,002.04	36.14	149.81	-63.81	3,124.12	2,479.28	3,727.01	3,529.01	183.55	20.373		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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		
10,050.00	10,032.35	10,000.62	9,997.35	36.16	149.63	32.23	3,124.12	2,479.28	3,733.99	3,548.28	185.71	20.107		
10,100.00	10,082.26	10,049.29	10,047.26	36.32	151.33	32.37	3,124.12	2,479.28	3,731.75	3,544.18	187.58	19.894		
10,150.00	10,131.76	10,098.79	10,096.76	36.49	153.06	32.75	3,124.12	2,479.28	3,725.85	3,536.37	189.48	19.664		
10,200.00	10,180.46	10,147.48	10,145.46	36.65	154.77	33.38	3,124.12	2,479.28	3,716.33	3,524.99	191.34	19.423		
10,250.00	10,227.98	10,195.01	10,192.98	36.81	156.43	34.26	3,124.12	2,479.28	3,703.28	3,510.12	193.15	19.173		
10,300.00	10,273.98	10,241.01	10,238.98	36.95	158.04	35.43	3,124.12	2,479.28	3,686.80	3,491.90	194.91	18.916		
10,350.00	10,318.11	10,285.13	10,283.11	37.09	159.59	36.90	3,124.12	2,479.28	3,667.06	3,470.48	196.58	18.654		
10,400.00	10,360.01	10,327.04	10,325.01	37.21	161.05	38.72	3,124.12	2,479.28	3,644.21	3,446.04	198.17	18.390		
10,450.00	10,399.38	10,366.41	10,364.38	37.32	162.43	40.94	3,124.12	2,479.28	3,618.46	3,418.81	199.65	18.124		
10,500.00	10,435.92	10,402.95	10,400.92	37.42	163.71	43.58	3,124.12	2,479.28	3,590.03	3,389.01	201.03	17.859		
10,550.00	10,469.35	10,436.37	10,434.35	37.51	164.88	46.72	3,124.12	2,479.28	3,559.17	3,356.89	202.28	17.595		
10,600.00	10,499.41	10,466.43	10,464.41	37.59	165.93	50.41	3,124.12	2,479.28	3,526.14	3,322.74	203.40	17.336		
10,650.00	10,525.87	10,492.90	10,490.87	37.66	166.86	54.69	3,124.12	2,479.28	3,491.23	3,286.85	204.38	17.082		
10,700.00	10,548.54	10,515.57	10,513.54	37.74	167.65	59.58	3,124.12	2,479.28	3,454.74	3,249.51	205.23	16.834		
10,750.00	10,567.24	10,534.27	10,532.24	37.84	168.31	65.08	3,124.12	2,479.28	3,416.96	3,211.05	205.92	16.594		
10,800.00	10,581.83	10,548.85	10,546.83	37.97	168.82	71.10	3,124.12	2,479.28	3,378.23	3,171.77	206.46	16.363		
10,850.00	10,592.19	10,559.22	10,557.19	38.11	169.18	77.52	3,124.12	2,479.28	3,338.86	3,132.01	206.84	16.142		
10,900.00	10,598.26	10,565.29	10,563.26	38.25	169.39	84.12	3,124.12	2,479.28	3,299.17	3,092.09	207.07	15.932		
10,944.69	10,600.00	10,567.03	10,565.00	38.39	169.45	90.00	3,124.12	2,479.28	3,263.68	3,056.54	207.15	15.755		
11,000.00	10,600.00	10,567.03	10,565.00	38.56	169.45	90.00	3,124.12	2,479.28	3,220.04	3,012.87	207.17	15.543		
11,100.00	10,600.00	10,567.03	10,565.00	38.91	169.45	90.00	3,124.12	2,479.28	3,142.07	2,934.84	207.23	15.162		
11,200.00	10,600.00	10,567.03	10,565.00	39.31	169.45	90.00	3,124.12	2,479.28	3,065.38	2,858.05	207.33	14.785		
11,300.00	10,600.00	10,567.03	10,565.00	39.76	169.45	90.00	3,124.12	2,479.28	2,990.07	2,782.59	207.47	14.412		
11,400.00	10,600.00	10,567.03	10,565.00	40.25	169.45	90.00	3,124.12	2,479.28	2,916.24	2,708.57	207.66	14.043		
11,500.00	10,600.00	10,567.03	10,565.00	40.79	169.45	90.00	3,124.12	2,479.28	2,844.01	2,636.10	207.90	13.679		
11,600.00	10,600.00	10,567.03	10,565.00	41.37	169.45	90.00	3,124.12	2,479.28	2,773.50	2,565.29	208.21	13.321		
11,700.00	10,600.00	10,567.03	10,565.00	41.99	169.45	90.00	3,124.12	2,479.28	2,704.85	2,496.28	208.57	12.968		
11,800.00	10,600.00	10,567.03	10,565.00	42.65	169.45	90.00	3,124.12	2,479.28	2,638.21	2,429.21	209.01	12.622		
11,900.00	10,600.00	10,567.03	10,565.00	43.35	169.45	90.00	3,124.12	2,479.28	2,573.74	2,364.21	209.52	12.284		
12,000.00	10,600.00	10,567.03	10,565.00	44.09	169.45	90.00	3,124.12	2,479.28	2,511.58	2,301.46	210.12	11.953		
12,100.00	10,600.00	10,567.03	10,565.00	44.86	169.45	90.00	3,124.12	2,479.28	2,451.94	2,241.14	210.80	11.632		
12,200.00	10,600.00	10,567.03	10,565.00	45.67	169.45	90.00	3,124.12	2,479.28	2,394.98	2,183.41	211.57	11.320		
12,300.00	10,600.00	10,567.03	10,565.00	46.50	169.45	90.00	3,124.12	2,479.28	2,340.91	2,128.48	212.43	11.020		
12,400.00	10,600.00	10,567.03	10,565.00	47.37	169.45	90.00	3,124.12	2,479.28	2,289.93	2,076.55	213.38	10.732		
12,500.00	10,600.00	10,567.03	10,565.00	48.26	169.45	90.00	3,124.12	2,479.28	2,242.26	2,027.84	214.42	10.457		
12,600.00	10,600.00	10,567.03	10,565.00	49.18	169.45	90.00	3,124.12	2,479.28	2,198.11	1,982.56	215.55	10.198		
12,700.00	10,600.00	10,567.03	10,565.00	50.13	169.45	90.00	3,124.12	2,479.28	2,157.69	1,940.93	216.75	9.955		
12,800.00	10,600.00	10,567.03	10,565.00	51.10	169.45	90.00	3,124.12	2,479.28	2,121.21	1,903.19	218.02	9.729		
12,900.00	10,600.00	10,567.03	10,565.00	52.09	169.45	90.00	3,124.12	2,479.28	2,088.90	1,869.54	219.36	9.523		
13,000.00	10,600.00	10,567.03	10,565.00	53.10	169.45	90.00	3,124.12	2,479.28	2,060.93	1,840.20	220.73	9.337		
13,100.00	10,600.00	10,567.03	10,565.00	54.14	169.45	90.00	3,124.12	2,479.28	2,037.49	1,815.35	222.14	9.172		
13,200.00	10,600.00	10,567.03	10,565.00	55.19	169.45	90.00	3,124.12	2,479.28	2,018.74	1,795.19	223.55	9.030		
13,300.00	10,600.00	10,567.03	10,565.00	56.26	169.45	90.00	3,124.12	2,479.28	2,004.80	1,779.85	224.96	8.912		
13,400.00	10,600.00	10,567.03	10,565.00	57.35	169.45	90.00	3,124.12	2,479.28	1,995.79	1,769.45	226.34	8.818		
13,500.00	10,600.00	10,567.03	10,565.00	58.45	169.45	90.00	3,124.12	2,479.28	1,991.76	1,764.09	227.67	8.748		
13,530.32	10,600.00	10,567.03	10,565.00	58.79	169.45	90.00	3,124.12	2,479.28	1,991.53	1,763.46	228.07	8.732 CC, ES		
13,600.00	10,600.00	10,567.03	10,565.00	59.57	169.45	90.00	3,124.12	2,479.28	1,992.75	1,763.80	228.95	8.704		
13,700.00	10,600.00	10,567.03	10,565.00	60.71	169.45	90.00	3,124.12	2,479.28	1,998.74	1,768.59	230.15	8.684 SF		
13,800.00	10,600.00	10,567.03	10,565.00	61.85	169.45	90.00	3,124.12	2,479.28	2,009.71	1,778.44	231.27	8.690		
13,900.00	10,600.00	10,567.03	10,565.00	63.01	169.45	90.00	3,124.12	2,479.28	2,025.55	1,793.26	232.29	8.720		
14,000.00	10,600.00	10,567.03	10,565.00	64.18	169.45	90.00	3,124.12	2,479.28	2,046.16	1,812.96	233.21	8.774		
14,100.00	10,600.00	10,567.03	10,565.00	65.37	169.45	90.00	3,124.12	2,479.28	2,071.41	1,837.38	234.02	8.851		

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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	
14,200.00	10,600.00	10,567.03	10,565.00	66.56	169.45	90.00	3,124.12	2,479.28	2,101.11	1,866.38	234.73	8.951	
14,300.00	10,600.00	10,567.03	10,565.00	67.76	169.45	90.00	3,124.12	2,479.28	2,135.09	1,899.75	235.34	9.072	
14,400.00	10,600.00	10,567.03	10,565.00	68.98	169.45	90.00	3,124.12	2,479.28	2,173.14	1,937.29	235.85	9.214	
14,500.00	10,600.00	10,567.03	10,565.00	70.20	169.45	90.00	3,124.12	2,479.28	2,215.06	1,978.79	236.27	9.375	
14,600.00	10,600.00	10,567.03	10,565.00	71.43	169.45	90.00	3,124.12	2,479.28	2,260.62	2,024.02	236.60	9.555	
14,700.00	10,600.00	10,567.03	10,565.00	72.67	169.45	90.00	3,124.12	2,479.28	2,309.62	2,072.77	236.85	9.751	
14,800.00	10,600.00	10,567.03	10,565.00	73.92	169.45	90.00	3,124.12	2,479.28	2,361.84	2,124.81	237.03	9.964	
14,900.00	10,600.00	10,567.03	10,565.00	75.17	169.45	90.00	3,124.12	2,479.28	2,417.07	2,179.92	237.15	10.192	
15,000.00	10,600.00	10,567.03	10,565.00	76.44	169.45	90.00	3,124.12	2,479.28	2,475.11	2,237.89	237.22	10.434	
15,100.00	10,600.00	10,567.03	10,565.00	77.70	169.45	90.00	3,124.12	2,479.28	2,535.76	2,298.53	237.23	10.689	
15,200.00	10,600.00	10,567.03	10,565.00	78.98	169.45	90.00	3,124.12	2,479.28	2,598.85	2,361.65	237.20	10.956	
15,300.00	10,600.00	10,567.03	10,565.00	80.26	169.45	90.00	3,124.12	2,479.28	2,664.20	2,427.06	237.14	11.235	
15,400.00	10,600.00	10,567.03	10,565.00	81.55	169.45	90.00	3,124.12	2,479.28	2,731.65	2,494.60	237.05	11.523	
15,484.47	10,600.00	10,567.03	10,565.00	82.64	169.45	90.00	3,124.12	2,479.28	2,790.14	2,553.19	236.96	11.775	

Anticollision Report

Company:	WCDSC Permian NM	Local Co-ordinate Reference:	Well Sea Snake 35 State 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 @ 3689.00ft

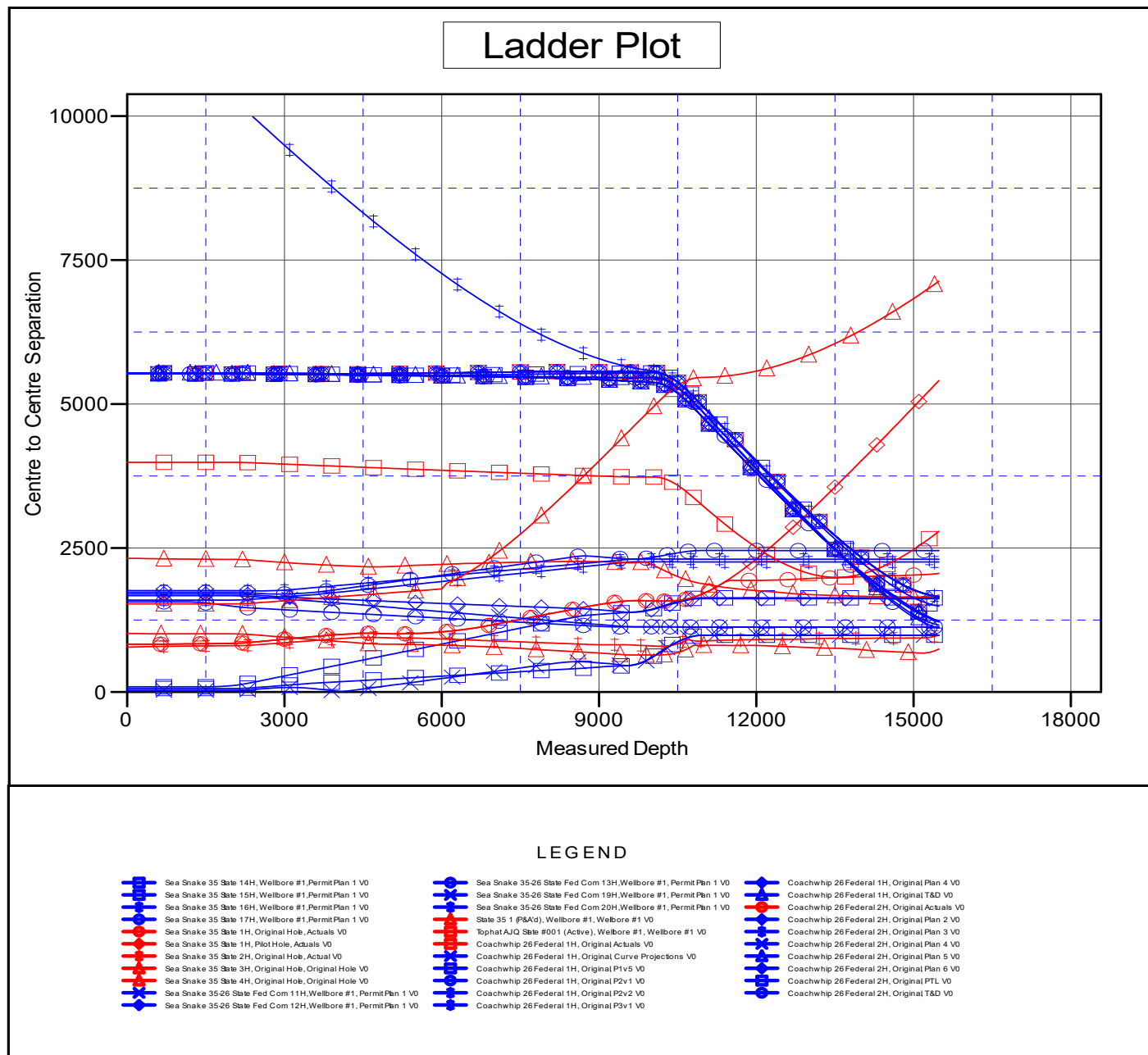
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 18H

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 18H
Project:	Lea County (NAD83 New Mexico East)	TVD Reference:	RKB @ 3689.00ft
Reference Site:	Sec 35-23S-33E	MD Reference:	RKB @ 3689.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Sea Snake 35 State 18H	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 @ 3689.00ft

Offset Depths are relative to Offset Datum

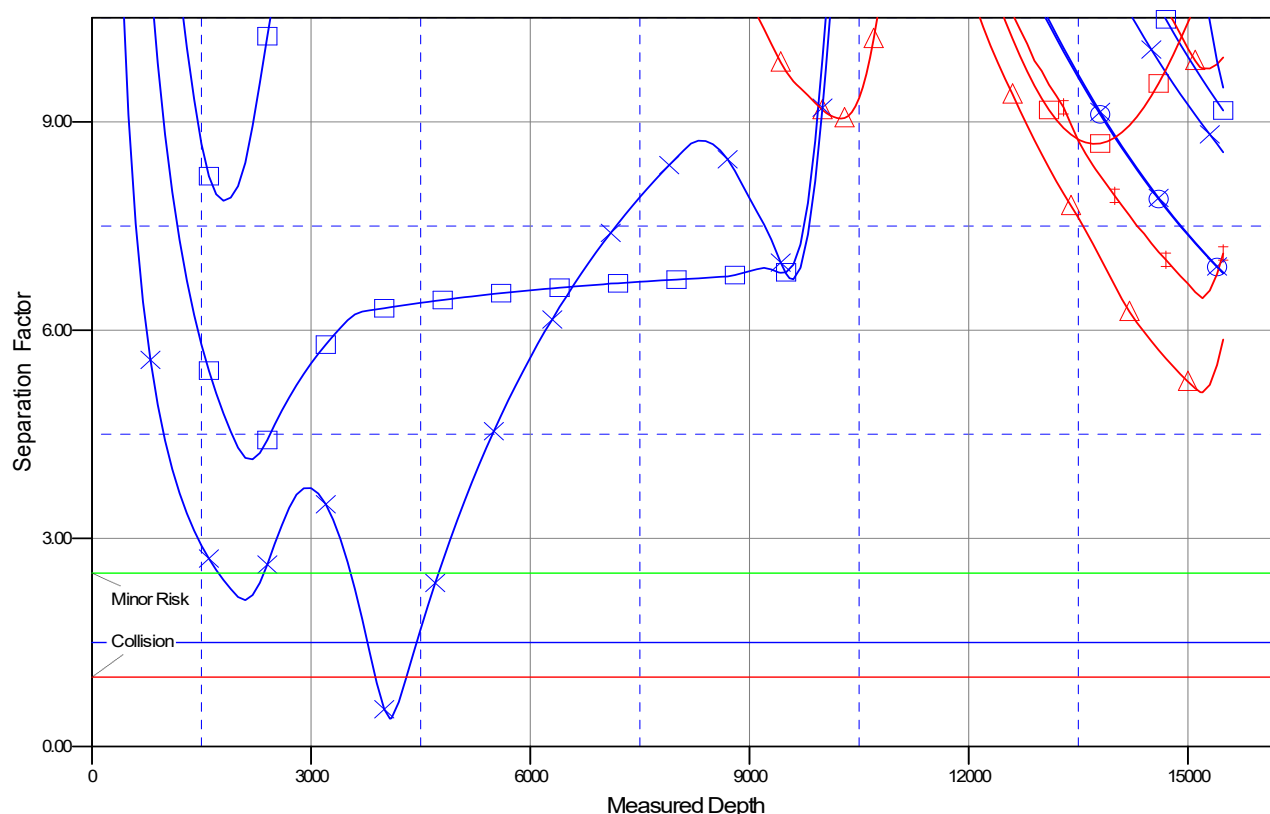
Central Meridian is -104.333334

Coordinates are relative to: Sea Snake 35 State 18H

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 35-26 State Fed Com 13H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original Plan 4 V0
Sea Snake 35 State 15H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 19H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original T&D V0
Sea Snake 35 State 16H, Wellbore #1, Permit Plan 1 V0	Sea Snake 35-26 State Fed Com 20H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 2H, Original Actuals V0
Sea Snake 35 State 17H, Wellbore #1, Permit Plan 1 V0	State 35 1 (P&A), Wellbore #1, Wellbore #1 V0	Coachwhip 26 Federal 2H, Original Plan 2 V0
Sea Snake 35 State 1H, Original Hob, Actuals V0	Tophat AJO State #001 (Active), Wellbore #1, Wellbore #1 V0	Coachwhip 26 Federal 2H, Original Plan 3 V0
Sea Snake 35 State 1H, Plot Hole, Actuals V0	Coachwhip 26 Federal 1H, Original Actuals V0	Coachwhip 26 Federal 2H, Original Plan 4 V0
Sea Snake 35 State 2H, Original Hob, Actual V0	Coachwhip 26 Federal 1H, Original Curve Projections V0	Coachwhip 26 Federal 2H, Original Plan 5 V0
Sea Snake 35 State 3H, Original Hob, Original Hole V0	Coachwhip 26 Federal 1H, Original P1v5 V0	Coachwhip 26 Federal 2H, Original Plan 6 V0
Sea Snake 35 State 4H, Original Hob, Original Hole V0	Coachwhip 26 Federal 1H, Original P2v1 V0	Coachwhip 26 Federal 2H, Original PTL V0
Sea Snake 35-26 State Fed Com 11H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original P2v2 V0	Coachwhip 26 Federal 2H, Original T&D V0
Sea Snake 35-26 State Fed Com 12H, Wellbore #1, Permit Plan 1 V0	Coachwhip 26 Federal 1H, Original P3v1 V0	

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