

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM06245

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
MISTY 35 FEDERAL COM 4H2. Name of Operator
OXY USA WTP LPContact: JENNIFER A DUARTE
E-Mail: JENNIFER_DUARTE@OXY.COM9. API Well No.
30-015-41413-00-X1

3a. Address

HOUSTON, TX 77210

3b. Phone No. (include area code)
Ph: 713-513-664010. Field and Pool, or Exploratory
LEO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 35 T18S R30E NESE 1650FSL 120FEL

11. County or Parish, and State

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

1. Current Well Status:

- a. The well depth is currently 8964? which is the bottom of our 7-7/8? curve section
b. We attempted to log the well with a quad combo to 8235? where the logging tool string became stuck
 We attempted to cut and thread over the wireline form surface to 5671? ? at that point the cable parted
1. This left the 69? tool string (attached) and approximately 2000? of wireline in the hole ? the tool string contains two radioactive sources
c. Oxy has performed the following fishing operations:
 TIH with wireline spear to 6338? and recovered approximately 200? of wireline, left 4-1/2? of spear in the hole
 TIH with second spear run to 5451? and recovered 40? of wireline, left 2? of second spear

Accepted for record
ED NMCD 1/5/15
NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 30 2014
RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #286149 verified by the BLM Well Information System

For OXY USA WTP LP, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 12/22/2014 (15CRW0034SE)

Name (Printed/Typed) JENNIFER A DUARTE

Title REGULATORY SPECIALIST

Signature

(Electronic Submission)

Date 12/22/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 12/22/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #286149 that would not fit on the form

32. Additional remarks, continued

in the hole

 TIH with third spear run to 5450? ? recovered only pieces of wire

 TIH with wash pipe and attempted to push wire to bottom ? unsuccessful

1. Top of Fish at 5450?

 TIH with fourth spear run recover only strings

 TIH with fifth spear run and push top of fish from 5450-5465?

1. TOOH (spear missing 8? and 7 hooks, no wireline)

 TIH with junk mill, bit sub, XO, jar, DCs, and DP ? push fish to 7002?

 TOOH and pick up second mill, bit sub, XO, jar, DCs, HWDP, and DP and mill to 7006?

2. Request to approve forward plan:

a. Oxy requests permission to cease fishing operations and abandon the wireline, logging tool string, and sources in the hole

1. We will TIH with a Smith OH Cemented Whipstock + 400? of 2-7/8? tubing to 7000?

2. The whipstock will have 400? of 2-7/8? tubing below it and we will pump the following below the whip stock:

Abandonment Slurry

Interval Amount sx Ft of Fill Type Gal/Sk PPG Ft3/sk 24 Hr Comp.

Lead:

6300? ? 6650?

(30 % Excess) 165 350 Premium Cement, 0.75% CFR-3, 0.40% SCR-100 3.46 17.5 .947 5000

Tail:

6650? ? 7000?

(30 % Excess) 160 350 Premium Cement, 0.75% CFR-3, 0.40% SCR-100, Iron Oxide 3.79 17.5 1.006 5000

? Note, only the last 350? will be dyed red

 This will serve as the abandonment slurry above the tool string and sources.

 Note, approximately 350? of cement will be above the base of the whipstock

 We will then attempt to sidetrack off of the cement plug and if unsuccessful, the whipstock.

3. SUMMARY OF CHANGES:

Oxy USA respectfully requests approval for the changes proposed above and summarized below:

1. Abandon current 7-7/8? hole below whipstock.

2. Change in directional plan

3. Remove logs from operations

4. Re-drill new 7-7/8? OH per attached directional plan and run casing and cement per COA with Smart Toe Initiator as previously sundried.

OXY

Eddy County, NM (NAD 27 NME)

Misty 35 Fed 4H

M35 F 4H

Sidetrack #1

Plan: ST1 Plan #5

Standard Planning Report

22 December, 2014



Scientific Drilling

www.scientificdrilling.com



To convert Magnetic North to Grid, Add 7.32°
 To convert True North to Grid, Subtract 0.22°

Azimuths to Grid North
 True North: -0.21°
 Magnetic North: 7.32°
 Magnetic Field
 Strength: 48461.9nT
 Dip Angle: 60.47°
 Date: 12/18/2014
 Model: BGGM2014

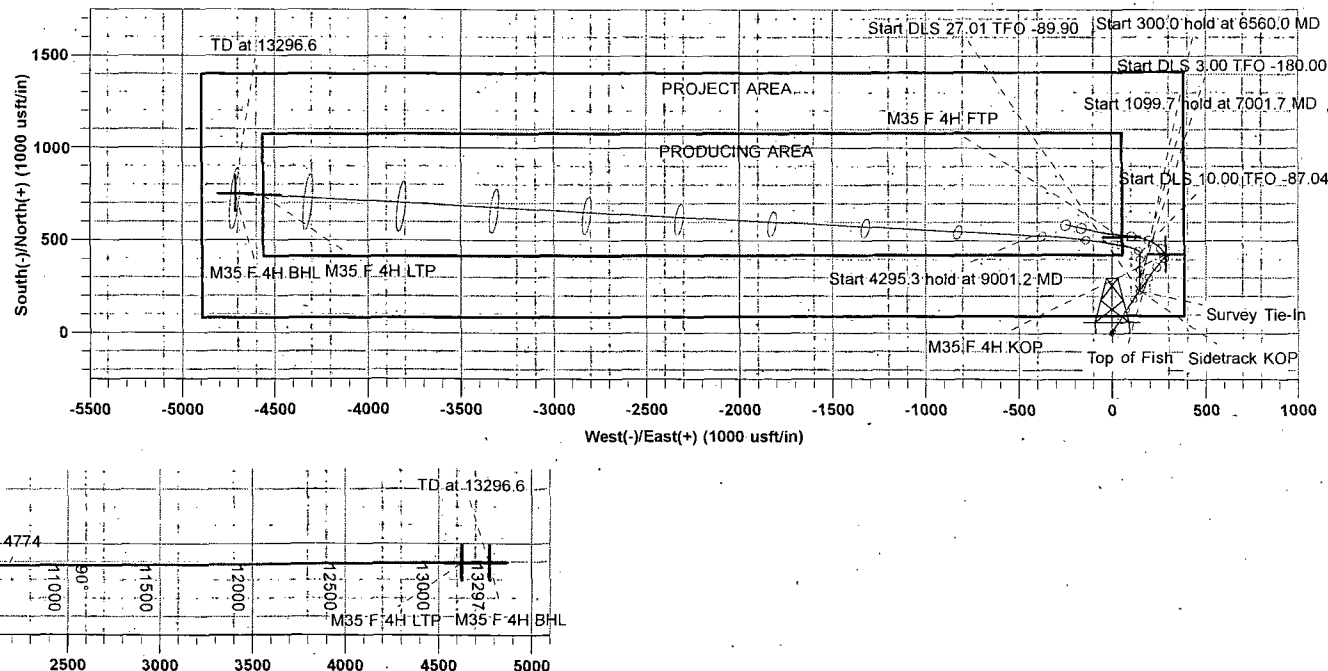
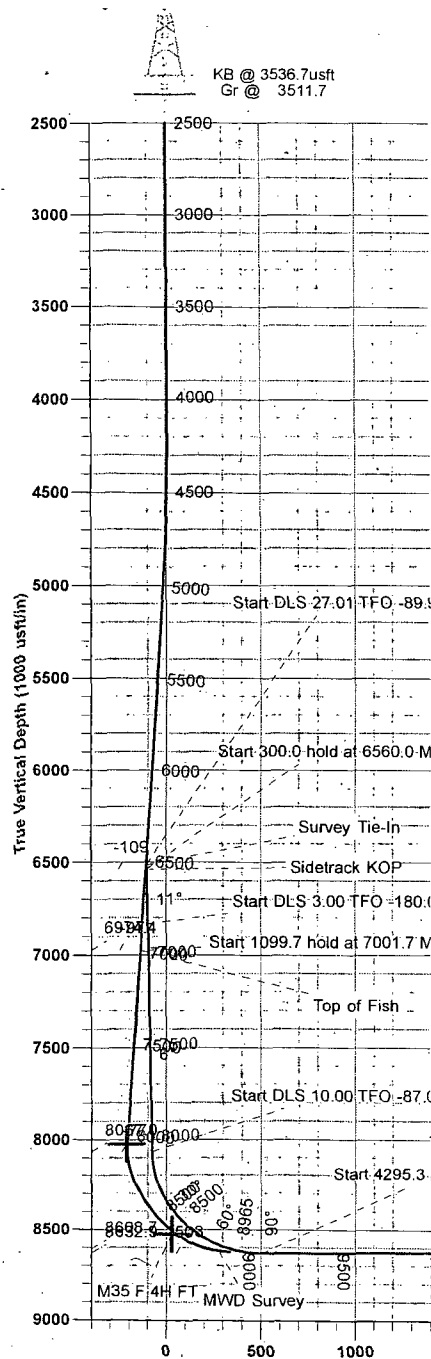
WELL DETAILS M35 F 4H						
Ground Level: 3511.7						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	618565.90	622589.80	32° 41' 59.649 N	103° 56' 5.353 W	

SECTION DETAILS									
MD	Inch	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
6537.0	8.78	35.46	6516.9	228.5	145.8	0.00	0.00	-108.2	
6560.0	10.75	0.00	6539.6	232.1	146.8	27.01	-89.90	-108.6	
6860.0	10.75	0.00	6834.3	288.0	146.8	0.00	0.00	-99.8	
7001.7	6.50	0.00	6974.4	309.3	146.8	3.00	-180.00	-96.5	
8101.4	6.50	0.00	8067.0	433.7	146.8	0.00	0.00	-77.0	
9001.2	90.32	272.94	8632.9	528.0	-425.3	10.00	-87.04	502.8	
13296.6	90.32	272.94	8608.7	748.2	-4714.9	0.00	0.00	4773.9	M35 F 4H BHL

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	
M35 F 4H KOP	8026.2	427.2	284.5	618993.10	622874.30	
M35 F 4H FTP	8528.1	519.4	54.0	619085.30	622643.80	
M35 F 4H BHL	8608.7	748.2	-4714.9	619314.10	617874.90	
M35 F 4H LTP	8609.5	741.6	-4565.0	619307.50	618024.80	

SITE DETAILS:	
Misty 35 Fed 4H	
Site Centre Northing: 618565.90	
Easting: 622589.80	
Positional Uncertainty: 0.0	
Convergence: 0.22	
Local North: Grid	

PROJECT DETAILS:	
Eddy County, NM (NAD 27 NME)	
Geodetic System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone: New Mexico East 3001	
System Datum: Mean Sea Level	



Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F 4H
Company:	OXY	TVD Reference:	KB @ 3536.7usft
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	KB @ 3536.7usft
Site:	Misty 35 Fed 4H	North Reference:	Grid
Well:	M35 F 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack #1		
Design:	ST1 Plan #5		

Project:	Eddy County, NM (NAD 27 NME) New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Misty 35 Fed 4H		
Site Position:	From: Map	Northing:	618,565.90 usft
		Easting:	622,589.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 59.649 N
		Longitude:	103° 56' 5.353 W
		Grid Convergence:	0.22 °

Well:	M35 F 4H					
Well Position	+N/-S	0.0 usft	Northing:	618,565.90 usft	Latitude:	32° 41' 59.649 N
	+E/-W	0.0 usft	Easting:	622,589.80 usft	Longitude:	103° 56' 5.353 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,511.7 usft

Wellbore	Sidetrack #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	12/18/2014	7.53	60.47	48,462

Design:	ST1 Plan #5				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	6,537.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	279.02	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
6,537.0	8.78	35.46	6,516.9	228.5	145.8	0.00	0.00	0.00	0.00	
6,560.0	10.75	0.00	6,539.6	232.1	146.8	27.01	8.57	-154.17	-89.90	
6,860.0	10.75	0.00	6,834.3	288.0	146.8	0.00	0.00	0.00	0.00	
7,001.7	6.50	0.00	6,974.4	309.3	146.8	3.00	-3.00	0.00	-180.00	
8,101.4	6.50	0.00	8,067.0	433.7	146.8	0.00	0.00	0.00	0.00	
9,001.2	90.32	272.94	8,632.9	528.0	-425.3	10.00	9.31	-9.67	-87.04	
13,296.6	90.32	272.94	8,608.7	748.2	-4,714.9	0.00	0.00	0.00	0.00	M35 F 4H BHL

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F 4H
Company:	OXY	TVD Reference:	KB @ 3536.7usft
Project:	Eddy County NM (NAD 27 NME)	MD Reference:	KB @ 3536.7usft
Site:	Misty 35 Fed 4H	North Reference:	Grid
Well:	M35 F 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack #1		
Design:	ST1 Plan #5		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
138.0	0.96	308.85	138.0	0.7	-0.9	1.0	0.70	0.70	0.00
230.0	0.98	312.63	230.0	1.7	-2.1	2.3	0.07	0.02	4.11
322.0	0.92	313.34	322.0	2.8	-3.2	3.6	0.07	-0.07	0.77
414.0	1.06	320.36	414.0	3.9	-4.3	4.8	0.20	0.15	7.63
506.0	1.12	319.24	505.9	5.3	-5.4	6.2	0.07	0.07	-1.22
598.0	1.44	310.70	597.9	6.7	-6.9	7.8	0.40	0.35	-9.28
690.0	0.11	5.51	689.9	7.6	-7.7	8.8	1.50	-1.45	59.58
782.0	0.09	230.54	781.9	7.6	-7.8	8.9	0.20	-0.02	-146.71
875.0	0.53	213.02	874.9	7.2	-8.1	9.1	0.48	0.47	-18.84
967.0	0.34	206.31	966.9	6.6	-8.4	9.4	0.21	-0.21	-7.29
1,061.0	0.23	190.06	1,060.9	6.2	-8.6	9.4	0.14	-0.12	-17.29
1,156.0	0.08	353.72	1,155.9	6.0	-8.6	9.5	0.32	-0.16	172.27
1,250.0	0.43	334.53	1,249.9	6.4	-8.8	9.7	0.38	0.37	-20.41
1,345.0	0.09	140.01	1,344.9	6.7	-8.9	9.8	0.54	-0.36	174.19
1,439.0	0.51	75.28	1,438.9	6.7	-8.4	9.4	0.51	0.45	-68.86
1,534.0	0.60	84.86	1,533.9	6.9	-7.5	8.5	0.14	0.09	10.08
1,628.0	0.41	40.56	1,627.9	7.2	-6.8	7.9	0.45	-0.20	-47.13
1,723.0	0.68	95.27	1,722.9	7.4	-6.0	7.1	0.58	0.28	57.59
1,817.0	0.68	59.32	1,816.9	7.6	-5.0	6.1	0.45	0.00	-38.24
1,912.0	0.98	71.48	1,911.9	8.2	-3.8	5.0	0.36	0.32	12.80
2,006.0	0.66	63.64	2,005.9	8.7	-2.5	3.8	0.36	-0.34	-8.34
2,101.0	0.66	51.96	2,100.9	9.2	-1.6	3.0	0.14	0.00	-12.29
2,195.0	0.64	19.31	2,194.8	10.1	-1.0	2.5	0.39	-0.02	-34.73
2,290.0	1.02	356.75	2,289.8	11.4	-0.9	2.6	0.52	0.40	-23.75
2,384.0	0.53	53.95	2,383.8	12.5	-0.6	2.5	0.91	-0.52	60.85
2,479.0	0.61	71.29	2,478.8	12.9	0.3	1.7	0.20	0.08	18.25
2,573.0	0.14	206.91	2,572.8	13.0	0.7	1.3	0.76	-0.50	144.28
2,668.0	0.43	182.16	2,667.8	12.5	0.6	1.3	0.32	0.31	-26.05
2,762.0	0.54	186.09	2,761.8	11.7	0.6	1.3	0.12	0.12	4.18
2,856.0	0.39	229.30	2,855.8	11.1	0.3	1.5	0.39	-0.16	45.97
2,951.0	0.41	201.62	2,950.8	10.6	-0.1	1.7	0.20	0.02	-29.14
3,045.0	0.33	201.80	3,044.8	10.0	-0.3	1.9	0.09	-0.09	0.19
3,140.0	0.48	215.61	3,139.8	9.4	-0.6	2.1	0.19	0.16	14.54
3,234.0	0.45	225.78	3,233.8	8.8	-1.1	2.5	0.09	-0.03	10.82
3,329.0	0.50	199.00	3,328.8	8.2	-1.5	2.8	0.24	0.05	-28.19
3,423.0	0.47	232.52	3,422.8	7.6	-2.0	3.1	0.30	-0.03	35.66
3,518.0	0.59	213.79	3,517.8	6.9	-2.6	3.6	0.22	0.13	-19.72
3,613.0	0.30	230.15	3,612.8	6.4	-3.0	4.0	0.33	-0.31	17.22
3,670.0	0.42	202.04	3,669.8	6.1	-3.2	4.1	0.37	0.21	-49.32
3,798.0	0.50	214.01	3,797.8	5.2	-3.7	4.5	0.10	0.06	9.35
3,892.0	0.53	214.47	3,891.8	4.5	-4.2	4.8	0.03	0.03	0.49
3,987.0	0.57	207.91	3,986.8	3.7	-4.6	5.2	0.08	0.04	-6.91
4,081.0	1.28	179.30	4,080.8	2.2	-4.9	5.1	0.88	0.76	-30.44
4,176.0	1.51	178.71	4,175.7	-0.1	-4.8	4.7	0.24	0.24	-0.62
4,270.0	1.23	134.94	4,269.7	-2.0	-4.1	3.7	1.12	-0.30	-46.56
4,365.0	1.10	116.22	4,364.7	-3.2	-2.5	2.0	0.42	-0.14	-19.71
4,459.0	0.40	216.04	4,458.7	-3.8	-1.9	1.3	1.31	-0.74	106.19
4,554.0	1.57	17.26	4,553.7	-2.8	-1.7	1.3	2.06	1.23	169.71
4,648.0	4.29	23.80	4,647.5	1.6	0.1	0.2	2.91	2.89	6.96
4,742.0	6.96	23.51	4,741.1	10.0	3.8	-2.2	2.84	2.84	-0.31
4,837.0	8.21	27.84	4,835.3	21.3	9.2	-5.8	1.45	1.32	4.56
4,931.0	8.45	42.10	4,928.3	32.4	17.0	-11.7	2.21	0.26	15.17
5,026.0	7.52	41.59	5,022.3	42.2	25.8	-18.9	0.98	-0.98	-0.54

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F 4H
Company:	OXY	TVD Reference:	KB @ 3536.7usft
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	KB @ 3536.7usft
Site:	Misty 35 Fed 4H	North Reference:	Grid
Well:	M35 F 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack #1		
Design:	ST1 Plan #5		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,120.0	8.12	30.05	5,115.5	52.6	33.2	-24.6	1.78	0.64	-12.28
5,215.0	9.28	30.68	5,209.4	64.9	40.5	-29.8	1.23	1.22	0.66
5,309.0	8.20	29.63	5,302.3	77.3	47.7	-35.0	1.16	-1.15	-1.12
5,404.0	7.75	29.70	5,396.4	88.7	54.2	-39.6	0.47	-0.47	0.07
5,498.0	9.47	33.38	5,489.3	100.7	61.6	-45.0	1.92	1.83	3.91
5,593.0	9.28	34.04	5,583.0	113.6	70.2	-51.5	0.23	-0.20	0.69
5,687.0	8.75	34.04	5,675.9	125.8	78.4	-57.7	0.56	-0.56	0.00
5,782.0	8.61	32.53	5,769.8	137.8	86.3	-63.6	0.28	-0.15	-1.59
5,877.0	8.10	32.77	5,863.8	149.4	93.7	-69.2	0.54	-0.54	0.25
5,971.0	7.57	29.24	5,956.9	160.4	100.3	-74.0	0.76	-0.56	-3.76
6,065.0	8.75	36.02	6,050.0	171.6	107.6	-79.4	1.62	1.26	7.21
6,160.0	8.16	35.84	6,143.9	182.9	115.8	-85.7	0.62	-0.62	-0.19
6,254.0	7.28	34.02	6,237.1	193.2	123.0	-91.2	0.97	-0.94	-1.94
6,349.0	8.27	29.76	6,331.2	204.1	129.8	-96.2	1.21	1.04	-4.48
6,443.0	9.32	33.88	6,424.1	216.3	137.4	-101.8	1.30	1.12	4.38
6,537.0	8.78	35.46	6,516.9	228.5	145.8	-108.2	0.63	-0.57	1.68
Start DLS 27.01 TFO -89.90									
6,540.0	8.82	30.17	6,519.9	228.9	146.0	-108.3	27.01	1.28	-176.43
6,560.0	10.75	0.00	6,539.6	232.1	146.8	-108.6	27.01	9.66	-150.84
Start 300.0 hold at 6560.0 MD									
6,600.0	10.75	0.00	6,578.9	239.5	146.8	-107.4	0.00	0.00	0.00
6,700.0	10.75	0.00	6,677.1	258.2	146.8	-104.5	0.00	0.00	0.00
6,800.0	10.75	0.00	6,775.4	276.8	146.8	-101.6	0.00	0.00	0.00
6,860.0	10.75	0.00	6,834.3	288.0	146.8	-99.8	0.00	0.00	0.00
Start DLS 3.00 TFO -180.00									
6,900.0	9.55	0.00	6,873.7	295.1	146.8	-98.7	3.00	-3.00	0.00
7,001.7	6.50	0.00	6,974.4	309.3	146.8	-96.5	3.00	-3.00	0.00
Start 1099.7 hold at 7001.7 MD									
7,100.0	6.50	0.00	7,072.1	320.4	146.8	-94.8	0.00	0.00	0.00
7,200.0	6.50	0.00	7,171.4	331.7	146.8	-93.0	0.00	0.00	0.00
7,300.0	6.50	0.00	7,270.8	343.0	146.8	-91.2	0.00	0.00	0.00
7,400.0	6.50	0.00	7,370.1	354.3	146.8	-89.4	0.00	0.00	0.00
7,500.0	6.50	0.00	7,469.5	365.7	146.8	-87.7	0.00	0.00	0.00
7,600.0	6.50	0.00	7,568.9	377.0	146.8	-85.9	0.00	0.00	0.00
7,700.0	6.50	0.00	7,668.2	388.3	146.8	-84.1	0.00	0.00	0.00
7,800.0	6.50	0.00	7,767.6	399.6	146.8	-82.3	0.00	0.00	0.00
7,900.0	6.50	0.00	7,866.9	410.9	146.8	-80.6	0.00	0.00	0.00
8,000.0	6.50	0.00	7,966.3	422.3	146.8	-78.8	0.00	0.00	0.00
8,101.4	6.50	0.00	8,067.0	433.7	146.8	-77.0	0.00	0.00	0.00
Start DLS 10.00 TFO -87.04									
8,150.0	8.31	324.14	8,115.3	439.3	144.7	-74.1	10.00	3.72	-73.73
8,200.0	12.07	305.12	8,164.5	445.3	138.3	-66.8	10.00	7.52	-38.04
8,250.0	16.50	295.57	8,212.9	451.4	127.6	-55.3	10.00	8.85	-19.10
8,300.0	21.18	290.06	8,260.2	457.5	112.7	-39.7	10.00	9.36	-11.02
8,350.0	25.97	286.48	8,306.0	463.7	93.8	-19.9	10.00	9.59	-7.14
8,400.0	30.83	283.97	8,350.0	469.9	70.8	3.7	10.00	9.71	-5.03
8,450.0	35.72	282.08	8,391.8	476.1	44.1	31.1	10.00	9.78	-3.77
8,500.0	40.63	280.60	8,431.1	482.1	13.8	61.9	10.00	9.83	-2.97
8,550.0	45.56	279.38	8,467.6	488.1	-19.8	96.1	10.00	9.86	-2.43
8,600.0	50.51	278.36	8,501.0	493.8	-56.6	133.2	10.00	9.88	-2.05
8,650.0	55.46	277.47	8,531.1	499.3	-96.1	173.1	10.00	9.90	-1.78
8,700.0	60.41	276.68	8,557.7	504.5	-138.1	215.5	10.00	9.91	-1.58
8,750.0	65.37	275.97	8,580.4	509.4	-182.4	259.9	10.00	9.92	-1.43

Planning Report

Database:	Midland District	Local/Co-ordinate Reference:	Well M35 F 4H
Company:	OXY	TVD Reference:	KB @ 3536.7usft
Project:	Eddy County, NM (NAD 27-NME)	MD Reference:	KB @ 3536.7usft
Site:	Misty 35 Fed 4H	North Reference:	Grid
Well:	M35 F 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack #1		
Design:	ST1 Plan #5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.0	70.33	275.31	8,599.3	513.9	-228.4	306.1	10.00	9.93	-1.32
8,850.0	75.30	274.69	8,614.1	518.1	-276.0	353.8	10.00	9.93	-1.24
8,900.0	80.26	274.09	8,624.6	521.8	-324.7	402.5	10.00	9.93	-1.18
8,950.0	85.23	273.52	8,630.9	525.1	-374.2	451.8	10.00	9.93	-1.15
9,001.2	90.32	272.94	8,632.9	528.0	-425.3	502.8	10.00	9.94	-1.13
Start 4295.3 hold at 9001.2 MD									
9,100.0	90.32	272.94	8,632.4	533.0	-523.9	601.0	0.00	0.00	0.00
9,200.0	90.32	272.94	8,631.8	538.2	-623.8	700.4	0.00	0.00	0.00
9,300.0	90.32	272.94	8,631.2	543.3	-723.6	799.8	0.00	0.00	0.00
9,400.0	90.32	272.94	8,630.7	548.4	-823.5	899.3	0.00	0.00	0.00
9,500.0	90.32	272.94	8,630.1	553.5	-923.4	998.7	0.00	0.00	0.00
9,600.0	90.32	272.94	8,629.6	558.7	-1,023.2	1,098.2	0.00	0.00	0.00
9,700.0	90.32	272.94	8,629.0	563.8	-1,123.1	1,197.6	0.00	0.00	0.00
9,800.0	90.32	272.94	8,628.4	568.9	-1,223.0	1,297.0	0.00	0.00	0.00
9,900.0	90.32	272.94	8,627.9	574.0	-1,322.8	1,396.5	0.00	0.00	0.00
10,000.0	90.32	272.94	8,627.3	579.2	-1,422.7	1,495.9	0.00	0.00	0.00
10,100.0	90.32	272.94	8,626.7	584.3	-1,522.6	1,595.3	0.00	0.00	0.00
10,200.0	90.32	272.94	8,626.2	589.4	-1,622.4	1,694.8	0.00	0.00	0.00
10,300.0	90.32	272.94	8,625.6	594.6	-1,722.3	1,794.2	0.00	0.00	0.00
10,400.0	90.32	272.94	8,625.0	599.7	-1,822.2	1,893.6	0.00	0.00	0.00
10,500.0	90.32	272.94	8,624.5	604.8	-1,922.1	1,993.1	0.00	0.00	0.00
10,600.0	90.32	272.94	8,623.9	609.9	-2,021.9	2,092.5	0.00	0.00	0.00
10,700.0	90.32	272.94	8,623.3	615.1	-2,121.8	2,192.0	0.00	0.00	0.00
10,800.0	90.32	272.94	8,622.8	620.2	-2,221.7	2,291.4	0.00	0.00	0.00
10,900.0	90.32	272.94	8,622.2	625.3	-2,321.5	2,390.8	0.00	0.00	0.00
11,000.0	90.32	272.94	8,621.7	630.4	-2,421.4	2,490.3	0.00	0.00	0.00
11,100.0	90.32	272.94	8,621.1	635.6	-2,521.3	2,589.7	0.00	0.00	0.00
11,200.0	90.32	272.94	8,620.5	640.7	-2,621.1	2,689.1	0.00	0.00	0.00
11,300.0	90.32	272.94	8,620.0	645.8	-2,721.0	2,788.6	0.00	0.00	0.00
11,400.0	90.32	272.94	8,619.4	651.0	-2,820.9	2,888.0	0.00	0.00	0.00
11,500.0	90.32	272.94	8,618.8	656.1	-2,920.7	2,987.4	0.00	0.00	0.00
11,600.0	90.32	272.94	8,618.3	661.2	-3,020.6	3,086.9	0.00	0.00	0.00
11,700.0	90.32	272.94	8,617.7	666.3	-3,120.5	3,186.3	0.00	0.00	0.00
11,800.0	90.32	272.94	8,617.1	671.5	-3,220.3	3,285.8	0.00	0.00	0.00
11,900.0	90.32	272.94	8,616.6	676.6	-3,320.2	3,385.2	0.00	0.00	0.00
12,000.0	90.32	272.94	8,616.0	681.7	-3,420.1	3,484.6	0.00	0.00	0.00
12,100.0	90.32	272.94	8,615.4	686.8	-3,519.9	3,584.1	0.00	0.00	0.00
12,200.0	90.32	272.94	8,614.9	692.0	-3,619.8	3,683.5	0.00	0.00	0.00
12,300.0	90.32	272.94	8,614.3	697.1	-3,719.7	3,782.9	0.00	0.00	0.00
12,400.0	90.32	272.94	8,613.8	702.2	-3,819.5	3,882.4	0.00	0.00	0.00
12,500.0	90.32	272.94	8,613.2	707.4	-3,919.4	3,981.8	0.00	0.00	0.00
12,600.0	90.32	272.94	8,612.6	712.5	-4,019.3	4,081.2	0.00	0.00	0.00
12,700.0	90.32	272.94	8,612.1	717.6	-4,119.1	4,180.7	0.00	0.00	0.00
12,800.0	90.32	272.94	8,611.5	722.7	-4,219.0	4,280.1	0.00	0.00	0.00
12,900.0	90.32	272.94	8,610.9	727.9	-4,318.9	4,379.6	0.00	0.00	0.00
13,000.0	90.32	272.94	8,610.4	733.0	-4,418.7	4,479.0	0.00	0.00	0.00
13,100.0	90.32	272.94	8,609.8	738.1	-4,518.6	4,578.4	0.00	0.00	0.00
13,200.0	90.32	272.94	8,609.2	743.2	-4,618.5	4,677.9	0.00	0.00	0.00
13,296.6	90.32	272.94	8,608.7	748.2	-4,714.9	4,773.9	0.00	0.00	0.00

TD at 13296.6

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F 4H
Company:	OXY	TVD Reference:	KB @ 3536.7usft
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	KB @ 3536.7usft
Site:	Misty 35 Fed 4H	North Reference:	Grid
Well:	M35 F 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack #1		
Design:	ST1 Plan #5		

Design Targets									
Target Name	Hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
M35 F 4H KOP		0.00	0.00	8,026.2	427.2	284.5	618,993.10	622,874.30	32° 42' 3.866 N 103° 56' 2.004 W
	- plan misses target center by 137.7usft at 8060.1usft MD (8026.0 TVD, 429.1 N, 146.8 E)								
	- Point								
M35 F 4H FTP		0.00	0.00	8,528.1	519.4	54.0	619,085.30	622,643.80	32° 42' 4.787 N 103° 56' 4.698 W
	- plan misses target center by 100.4usft at 8548.2usft MD (8466.3 TVD, 487.8 N, -18.6 E)								
	- Point								
M35 F 4H BHL		0.00	0.00	8,608.7	748.2	-4,714.9	619,314.10	617,874.90	32° 42' 7.225 N 103° 57' 0.497 W
	- plan hits target center								
	- Point								
M35 F 4H LTP		0.00	0.00	8,609.5	741.6	-4,565.0	619,307.50	618,024.80	32° 42' 7.154 N 103° 56' 58.744 W
	- plan misses target center by 1.1usft at 13146.5usft MD (8609.5 TVD, 740.5 N, -4565.1 E)								
	- Point								

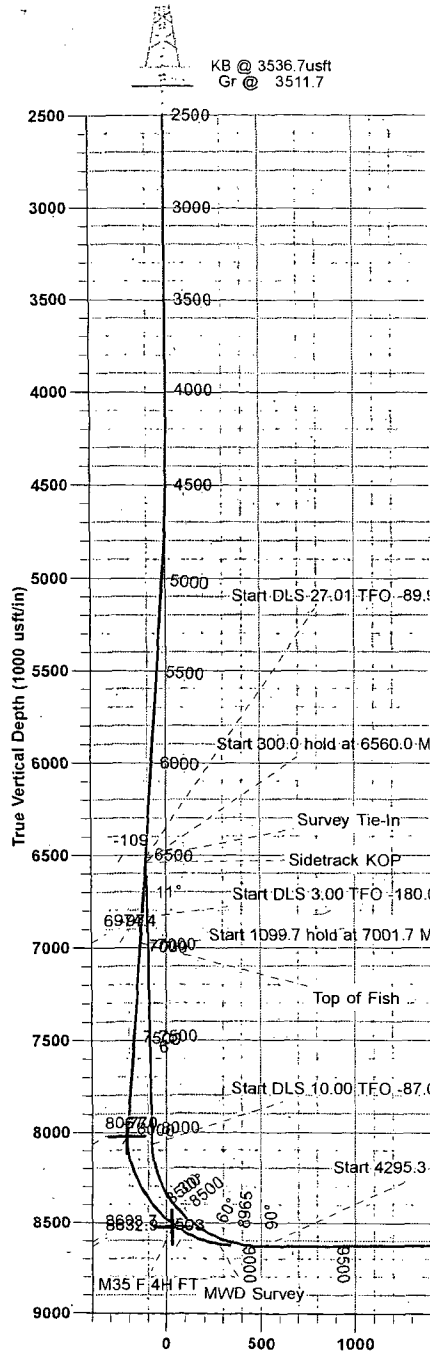
Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
6,537.0	6,516.9	228.5	145.8	Start DLS 27.01 TFO -89.90
6,560.0	6,539.6	232.1	146.8	Start 300.0 hold at 6560.0 MD
6,860.0	6,834.3	288.0	146.8	Start DLS 3.00 TFO -180.00
7,001.7	6,974.4	309.3	146.8	Start 1099.7 hold at 7001.7 MD
8,101.4	8,067.0	433.7	146.8	Start DLS 10.00 TFO -87.04
9,001.2	8,632.9	528.0	-425.3	Start 4295.3 hold at 9001.2 MD
13,296.6	8,608.7	748.2	-4,714.9	TD at 13296.6

M35 F 4H
Eddy County, NM (NAD 27 NME)
Northing: 618565.90
Easting: 622589.80
ST1 Plan #5



To convert Magnetic North to Grid, Add 7.32°
To convert True North to Grid, Subtract 0.22°

Azimuths to Grid North
True North: -0.21°
Magnetic North: 7.32°
Magnetic Field
Strength: 48461.9nT
Dip Angle: 60.47°
Date: 12/18/2014
Model: BGGM2014



WELL DETAILS M35 F 4H						
Ground Level:		3511.7				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	618565.90	622589.80	32° 41' 59.649 N	103° 56' 5.353 W	

SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	
6537.0	8.78	35.46	6516.9	228.5	145.8	0.00	0.00	-108.2		
6560.0	10.75	0.00	6539.6	-232.1	146.8	27.01	-89.90	-108.6		
6860.0	10.75	0.00	6834.3	288.0	146.8	0.00	0.00	-99.8		
7001.7	6.50	0.00	6974.4	309.3	-146.8	3.00	-180.00	-96.5		
8101.4	6.50	0.00	8067.0	433.7	146.8	0.00	0.00	-77.0		
9001.2	90.32	272.94	8632.9	528.0	-425.3	10.00	-87.04	502.8		
13296.6	90.32	272.94	8608.7	748.2	-4714.9	0.00	0.00	4773.9	M35 F 4H BHL	

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	
M35 F 4H KOP	8026.2	427.2	284.5	618993.10	622874.30	
M35 F 4H FTP	8528.1	519.4	54.0	619085.30	622643.80	
M35 F 4H BHL	8608.7	748.2	-4714.9	619314.10	617874.90	
M35 F 4H LTP	8609.5	741.6	-4565.0	619307.50	618024.80	

SITE DETAILS:	
Misty 35 Fed 4H	
Site Centre Northing: 618565.90	
Easting: 622589.80	
Positional Uncertainty: 0.0	
Convergence: 0.22	
Local North: Grid	

PROJECT DETAILS:	
Eddy County, NM (NAD 27 NME)	
Geodetic System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone: New Mexico East 3001	
System Datum: Mean Sea Level	

