

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.***SUBMIT IN TRIPLICATE - Other instructions on reverse**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM69377
2. Name of Operator OXY USA INCORPORATED		6. If Indian, Allottee or Tribe Name
3a. Address HOUSTON, TX 77210-4294		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432.685.5717 Fx: 432.685.5742		8. Well Name and No. RED TANK 28 FEDERAL 5H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T2S R32E NENE 295FNL 880FEL		9. API Well No. 30-025-41189-00-X1
		10. Field and Pool, or Exploratory RED TANK
		11. County or Parish, and State LEA 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 recompleat 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 recompleat 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.)

OXY USA Inc. respectfully requests approval for the following changes to the drilling plan:

1. Extend the BHL approximately 150' past the south hardline to allow for our shoe track, see attached for amended C-102 plat and amended directional drilling plan.

Proposed TD - 13274'M 8419'V

2. Adjust production casing and cementing to amended TMD.
Production Casing

5-1/2" 17# L-80 BT&C new csg @ 0-13274'M, 7-7/8" hole w/ 9.2# mud

Excess cement = 11% additional volume may be required.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #263584 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 09/30/2014 (14CRW0215SE)	
Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature (Electronic Submission)	Date 09/15/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHRISTOPHER WALLS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>09/30/2014</u>
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 Hobbs

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 ****

OCT 03 2014

Additional data for EC transaction #263584 that would not fit on the form

32. Additional remarks, continued

Coll Rating (psi)-6290 Burst Rating (psi)-7740
SF Coll-1.56 SF Burst-1.25 SF Ten-1.78

Production Cement - Circulate cement w/ 660sx Tuned Light cmt w/ .125#/sx Poly-E-Flake + .65%
SCR-100 + 3#/sx Kol-Seal, 9.86ppg (10.2 downhole) 3.662 yield 788# 24hr CS 100% Excess followed by
820sx Super H cmt w/ .3% CFR-3 + .5% Halad-344 + 2#/sx Kol-Seal + 3#/sx Salt, 13.2ppg 1.652 yield
1462# 24hr CS 40% Excess,

Description of Cement Additives: Salt (Accelerator); CFR-3 (Dispersant); Kol-Seal, Poly-E-Flake
(Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); SCR-100 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

District I
1521 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
111 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Grande Road, Alamogordo, NM 88310
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87501
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-41189	Pool Code 51689	Pool Name Red Tank Delaware, West
Property Code 304934	Property Name RED TANK "28" FEDERAL	Well Number 5H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3623.7'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	22 SOUTH	32 EAST, N.M.P.M.		295'	NORTH	880'	EAST	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
P	28	22 SOUTH	32 EAST, N.M.P.M.		180'	SOUTH	913'	EAST	LEA

Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No.
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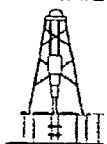
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=4985772.4 X=703730.5 LAT.: N 32.3688640° LONG.: W 103.6734771°	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>David Stewart</u> Date: <u>9/15/14</u> Printed Name: <u>David Stewart Sr. Right</u> E-mail Address: <u>David_Stewart@oxy.com</u>	
	FIRST PERF. NEW MEXICO EAST NAD 1927 Y=4985772.4 X=703730.5 LAT.: N 32.3673423° LONG.: W 103.6734890°		SURVEYOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>David Stewart</u> Date: <u>9/15/14</u> Printed Name: <u>David Stewart Sr. Right</u> E-mail Address: <u>David_Stewart@oxy.com</u>
	LAST PERF. NEW MEXICO EAST NAD 1927 Y=4985772.4 X=703730.5 LAT.: N 32.3561909° LONG.: W 103.6735703°		DATE OF SURVEY <u>15079</u> <u>15079</u> <u>15079</u>
	BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 Y=4985772.4 X=703730.5 LAT.: N 32.3557511° LONG.: W 103.6735735°		DATE OF SURVEY <u>15079</u> <u>15079</u> <u>15079</u>



Red Tank 28 Federal 5H #5H
Lea County, New Mexico
Northing: (Y) 498572.40
Easting: (X) 703730.50

Plan #2



KB = 25 @ 3648 Feet (H&P 621)
Ground Level 3623.7

WELL DETAILS:

Ground Level: 3623.7
+N-S +E-W Northing Easting Latitude Longitude
0.0 0.0 498572.40 703730.50 32° 22' 8.271 N 103° 40' 24.518 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5800.0	0.00	0.00	5800.0	0.0	0.0	0.00	0.00	0.0	
5955.8	8.57	0.00	5955.3	11.6	0.0	5.50	0.00	-11.8	
7579.8	8.57	0.00	7581.1	-253.7	0.0	0.00	0.00	-253.7	
7865.5	0.00	0.00	7845.7	275.0	0.0	3.00	180.00	-275.0	
8765.5	90.00	180.00	8418.7	-298.0	0.0	10.00	180.00	298.0	
13274.4	90.00	180.00	8418.7	-4806.9	-0.1	0.00	0.00	4806.9	PBHL (RT 28F 5H)

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting
First Perf (RT 28F 5H)	8418.7	-590.0	0.0	497882.40	703730.50
Last Perf (RT 28F 5H)	8418.7	-4648.9	-0.1	493925.50	703730.40
PBHL (RT 28F 5H)	8418.7	-4806.9	-0.1	493765.50	703730.40

SITE DETAILS: Red Tank 28 Federal 5H
Site Centre Northing: 498572.40
Easting: 703730.50

Positional Uncertainty: 0.0
Convergence: 0.35
Local North: Grid

PROJECT DETAILS: Lea County, New Mexico
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

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Local Origin: Well #5H, Grid North

Latitude: 32° 22' 8.271 N
Longitude: 103° 40' 24.518 W

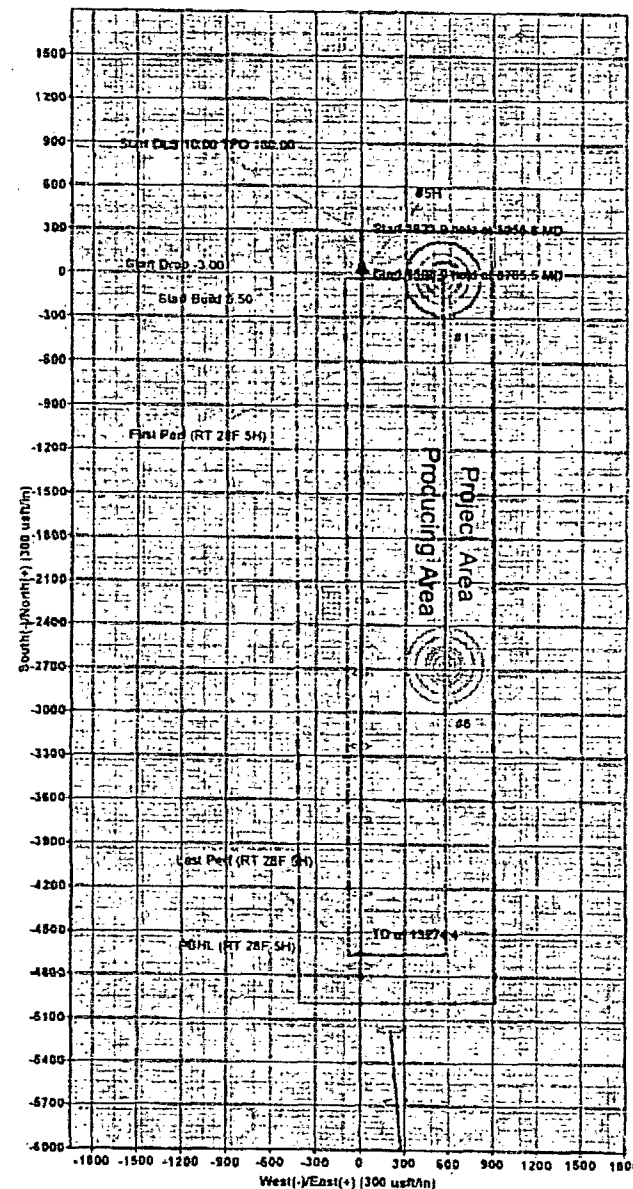
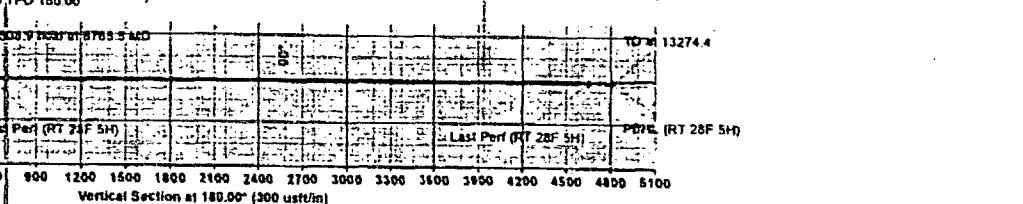
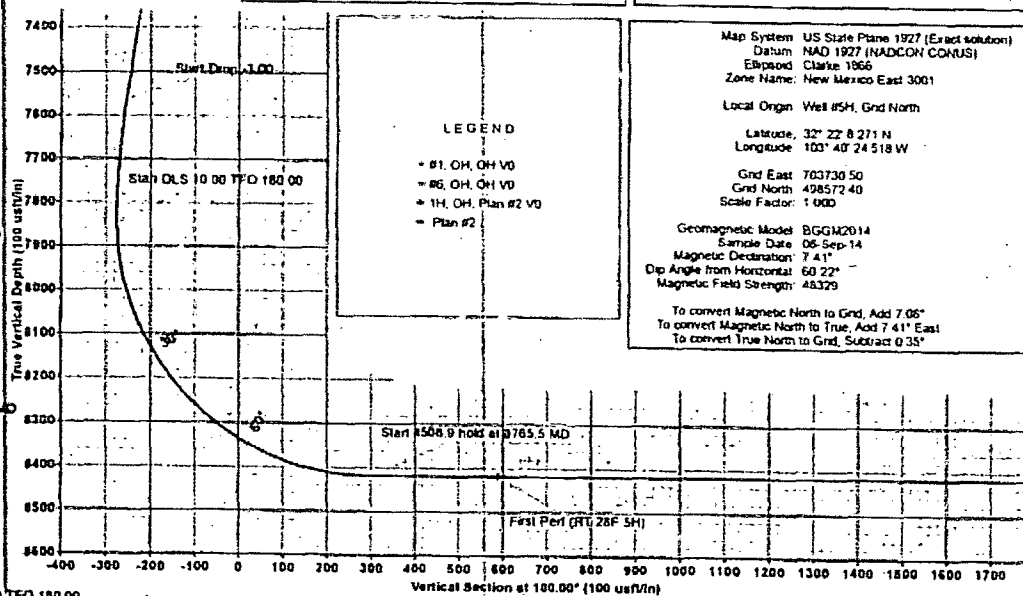
Grid East: 703730.50
Grid North: 498572.40
Scale Factor: 1.000

Geomagnetic Model: BGGM2014
Sample Date: 06-Sep-14
Magnetic Declination: 7.41°
Dip Angle from Horizontal: 60.22°
Magnetic Field Strength: 48329

To convert Magnetic North to Grid, Add 7.06°
To convert Magnetic North to True, Add 7.41° East
To convert True North to Grid, Subtract 0.35°

LEGEND

- #1, OH, OH V0
- #6, OH, OH V0
- 1H, OH, Plan #2 V0
- Plan #2





Planning Report



Database:	Midland District	Local Co-ordinate Reference:	Well #5H
Company:	OXY	TVD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Project:	Lea County, New Mexico	MD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Site:	Red Tank 28 Federal 5H	North Reference:	Grid
Well:	#5H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project:	Lea County, 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:	Red Tank 28 Federal 5H		
Site Position:	Northings:	498,572.40 usft	Latitude: 32° 22' 8.271 N
From: Map	Easting:	703,730.50 usft	Longitude: 103° 40' 24.518 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.35 "

Well:	#5H		
Well Position	+N/-S	0.0 usft	Northings: 498,572.40 usft
	+E/-W	0.0 usft	Easting: 703,730.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Ground Level:	3,623.7 usft

Wellbore:	OH		
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Magnetics:	Model Name:	Sample Date:	Declination:	Dip Angle:	Field Strength:
	BGGM2014	9/6/2014	(°)	(°)	(nT)
			7.41	60.22	48,329

Design:	Plan #2		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	180.00

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,955.8	8.57	0.00	5,955.3	11.6	0.0	5.50	5.50	0.00	0.00	
7,579.8	8.57	0.00	7,561.1	253.7	0.0	0.00	0.00	0.00	0.00	
7,865.5	0.00	0.00	7,845.7	275.0	0.0	3.00	-3.00	0.00	180.00	
8,765.5	90.00	180.00	8,418.7	-298.0	0.0	10.00	10.00	-20.00	180.00	
13,274.4	90.00	180.00	8,418.7	-4,806.9	-0.1	0.00	0.00	0.00	0.00	PBHL (RT 28F 5H)



Planning Report

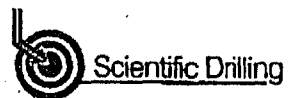


Database:	Midland District	Local Co-ordinate Reference:	Well #5H
Company:	OXY	TVD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Project:	Lea County, New Mexico	MD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Site:	Red Tank 28 Federal 5H	North Reference:	Grid
Well:	#5H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	



Planning Report



Database:	Midland District	Local Co-ordinate Reference:	Well #5H
Company:	OXY	TVD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Project:	Lea County, New Mexico	MD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Site:	Red Tank 28 Federal 5H	North Reference:	Grid
Well:	#5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	5.50	0.00	5,899.8	4.8	0.0	-4.8	5.50	5.50	0.00
5,955.8	8.57	0.00	5,955.3	11.6	0.0	-11.6	5.50	5.50	0.00
6,000.0	8.57	0.00	5,998.9	18.2	0.0	-18.2	0.00	0.00	0.00
6,100.0	8.57	0.00	6,097.8	33.1	0.0	-33.1	0.00	0.00	0.00
6,200.0	8.57	0.00	6,196.7	48.0	0.0	-48.0	0.00	0.00	0.00
6,300.0	8.57	0.00	6,295.6	62.9	0.0	-62.9	0.00	0.00	0.00
6,400.0	8.57	0.00	6,394.5	77.8	0.0	-77.8	0.00	0.00	0.00
6,500.0	8.57	0.00	6,493.3	92.7	0.0	-92.7	0.00	0.00	0.00
6,600.0	8.57	0.00	6,592.2	107.6	0.0	-107.6	0.00	0.00	0.00
6,700.0	8.57	0.00	6,691.1	122.5	0.0	-122.5	0.00	0.00	0.00
6,800.0	8.57	0.00	6,790.0	137.5	0.0	-137.5	0.00	0.00	0.00
6,900.0	8.57	0.00	6,888.9	152.4	0.0	-152.4	0.00	0.00	0.00
7,000.0	8.57	0.00	6,987.8	167.3	0.0	-167.3	0.00	0.00	0.00
7,100.0	8.57	0.00	7,086.6	182.2	0.0	-182.2	0.00	0.00	0.00
7,200.0	8.57	0.00	7,185.5	197.1	0.0	-197.1	0.00	0.00	0.00
7,300.0	8.57	0.00	7,284.4	212.0	0.0	-212.0	0.00	0.00	0.00
7,400.0	8.57	0.00	7,383.3	226.9	0.0	-226.9	0.00	0.00	0.00
7,500.0	8.57	0.00	7,482.2	241.8	0.0	-241.8	0.00	0.00	0.00
7,579.8	8.57	0.00	7,561.1	253.7	0.0	-253.7	0.00	0.00	0.00
7,600.0	7.96	0.00	7,581.1	256.6	0.0	-256.6	3.00	-3.00	0.00
7,700.0	4.96	0.00	7,680.4	267.8	0.0	-267.8	3.00	-3.00	0.00
7,800.0	1.96	0.00	7,780.2	273.9	0.0	-273.9	3.00	-3.00	0.00
7,865.5	0.00	0.00	7,845.7	275.0	0.0	-275.0	3.00	-3.00	0.00
7,900.0	3.45	180.00	7,880.2	274.0	0.0	-274.0	10.00	10.00	0.00
7,950.0	8.45	180.00	7,929.9	268.8	0.0	-268.8	10.00	10.00	0.00
8,000.0	13.45	180.00	7,979.0	259.3	0.0	-259.3	10.00	10.00	0.00
8,050.0	18.45	180.00	8,027.0	245.5	0.0	-245.5	10.00	10.00	0.00
8,100.0	23.45	180.00	8,073.7	227.7	0.0	-227.7	10.00	10.00	0.00
8,150.0	28.45	180.00	8,118.7	205.8	0.0	-205.8	10.00	10.00	0.00
8,200.0	33.45	180.00	8,161.5	180.1	0.0	-180.1	10.00	10.00	0.00
8,250.0	38.45	180.00	8,202.0	150.7	0.0	-150.7	10.00	10.00	0.00
8,300.0	43.45	180.00	8,239.7	118.0	0.0	-118.0	10.00	10.00	0.00
8,350.0	48.45	180.00	8,274.5	82.1	0.0	-82.1	10.00	10.00	0.00
8,400.0	53.45	180.00	8,306.0	43.2	0.0	-43.2	10.00	10.00	0.00
8,450.0	58.45	180.00	8,334.0	1.8	0.0	-1.8	10.00	10.00	0.00
8,500.0	63.45	180.00	8,358.2	-41.9	0.0	41.9	10.00	10.00	0.00
8,550.0	68.45	180.00	8,378.6	-87.5	0.0	87.5	10.00	10.00	0.00
8,600.0	73.45	180.00	8,394.9	-134.8	0.0	134.8	10.00	10.00	0.00
8,650.0	78.45	180.00	8,407.1	-183.3	0.0	183.3	10.00	10.00	0.00
8,700.0	83.45	180.00	8,414.9	-232.6	0.0	232.6	10.00	10.00	0.00
8,750.0	88.45	180.00	8,418.4	-282.5	0.0	282.5	10.00	10.00	0.00
8,765.5	90.00	180.00	8,418.7	-298.0	0.0	298.0	10.00	10.00	0.00
8,800.0	90.00	180.00	8,418.7	-332.5	0.0	332.5	0.00	0.00	0.00
8,900.0	90.00	180.00	8,418.7	-432.5	0.0	432.5	0.00	0.00	0.00
9,000.0	90.00	180.00	8,418.7	-532.5	0.0	532.5	0.00	0.00	0.00
9,100.0	90.00	180.00	8,418.7	-632.5	0.0	632.5	0.00	0.00	0.00
9,200.0	90.00	180.00	8,418.7	-732.5	0.0	732.5	0.00	0.00	0.00
9,300.0	90.00	180.00	8,418.7	-832.5	0.0	832.5	0.00	0.00	0.00
9,400.0	90.00	180.00	8,418.7	-932.5	0.0	932.5	0.00	0.00	0.00

Database:	Midland District	Local Co-ordinate Reference:	Well #5H
Company:	OXY	TVD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Project:	Lea County, New Mexico	MD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Site:	Red Tank 28 Federal 5H	North Reference:	Grid
Well:	#5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
9,500.0	90.00	180.00	8,418.7	-1,032.5	0.0	1,032.5	0.00	0.00	0.00	
9,600.0	90.00	180.00	8,418.7	-1,132.5	0.0	1,132.5	0.00	0.00	0.00	
9,700.0	90.00	180.00	8,418.7	-1,232.5	0.0	1,232.5	0.00	0.00	0.00	
9,800.0	90.00	180.00	8,418.7	-1,332.5	0.0	1,332.5	0.00	0.00	0.00	
9,900.0	90.00	180.00	8,418.7	-1,432.5	0.0	1,432.5	0.00	0.00	0.00	
10,000.0	90.00	180.00	8,418.7	-1,532.5	0.0	1,532.5	0.00	0.00	0.00	
10,100.0	90.00	180.00	8,418.7	-1,632.5	0.0	1,632.5	0.00	0.00	0.00	
10,200.0	90.00	180.00	8,418.7	-1,732.5	0.0	1,732.5	0.00	0.00	0.00	
10,300.0	90.00	180.00	8,418.7	-1,832.5	0.0	1,832.5	0.00	0.00	0.00	
10,400.0	90.00	180.00	8,418.7	-1,932.5	0.0	1,932.5	0.00	0.00	0.00	
10,500.0	90.00	180.00	8,418.7	-2,032.5	0.0	2,032.5	0.00	0.00	0.00	
10,600.0	90.00	180.00	8,418.7	-2,132.5	0.0	2,132.5	0.00	0.00	0.00	
10,700.0	90.00	180.00	8,418.7	-2,232.5	0.0	2,232.5	0.00	0.00	0.00	
10,800.0	90.00	180.00	8,418.7	-2,332.5	-0.1	2,332.5	0.00	0.00	0.00	
10,900.0	90.00	180.00	8,418.7	-2,432.5	-0.1	2,432.5	0.00	0.00	0.00	
11,000.0	90.00	180.00	8,418.7	-2,532.5	-0.1	2,532.5	0.00	0.00	0.00	
11,100.0	90.00	180.00	8,418.7	-2,632.5	-0.1	2,632.5	0.00	0.00	0.00	
11,200.0	90.00	180.00	8,418.7	-2,732.5	-0.1	2,732.5	0.00	0.00	0.00	
11,300.0	90.00	180.00	8,418.7	-2,832.5	-0.1	2,832.5	0.00	0.00	0.00	
11,400.0	90.00	180.00	8,418.7	-2,932.5	-0.1	2,932.5	0.00	0.00	0.00	
11,500.0	90.00	180.00	8,418.7	-3,032.5	-0.1	3,032.5	0.00	0.00	0.00	
11,600.0	90.00	180.00	8,418.7	-3,132.5	-0.1	3,132.5	0.00	0.00	0.00	
11,700.0	90.00	180.00	8,418.7	-3,232.5	-0.1	3,232.5	0.00	0.00	0.00	
11,800.0	90.00	180.00	8,418.7	-3,332.5	-0.1	3,332.5	0.00	0.00	0.00	
11,900.0	90.00	180.00	8,418.7	-3,432.5	-0.1	3,432.5	0.00	0.00	0.00	
12,000.0	90.00	180.00	8,418.7	-3,532.5	-0.1	3,532.5	0.00	0.00	0.00	
12,100.0	90.00	180.00	8,418.7	-3,632.5	-0.1	3,632.5	0.00	0.00	0.00	
12,200.0	90.00	180.00	8,418.7	-3,732.5	-0.1	3,732.5	0.00	0.00	0.00	
12,300.0	90.00	180.00	8,418.7	-3,832.5	-0.1	3,832.5	0.00	0.00	0.00	
12,400.0	90.00	180.00	8,418.7	-3,932.5	-0.1	3,932.5	0.00	0.00	0.00	
12,500.0	90.00	180.00	8,418.7	-4,032.5	-0.1	4,032.5	0.00	0.00	0.00	
12,600.0	90.00	180.00	8,418.7	-4,132.5	-0.1	4,132.5	0.00	0.00	0.00	
12,700.0	90.00	180.00	8,418.7	-4,232.5	-0.1	4,232.5	0.00	0.00	0.00	
12,800.0	90.00	180.00	8,418.7	-4,332.5	-0.1	4,332.5	0.00	0.00	0.00	
12,900.0	90.00	180.00	8,418.7	-4,432.5	-0.1	4,432.5	0.00	0.00	0.00	
13,000.0	90.00	180.00	8,418.7	-4,532.5	-0.1	4,532.5	0.00	0.00	0.00	
13,100.0	90.00	180.00	8,418.7	-4,632.5	-0.1	4,632.5	0.00	0.00	0.00	
13,200.0	90.00	180.00	8,418.7	-4,732.5	-0.1	4,732.5	0.00	0.00	0.00	
13,274.4	90.00	180.00	8,418.7	-4,806.9	-0.1	4,806.9	0.00	0.00	0.00	



Planning Report



Database:	Midland District	Local Co-ordinate Reference:	Well #5H
Company:	OXY	TVD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Project:	Lea County, New Mexico	MD Reference:	KB= 25 @ 3648.7usft (H&P 621)
Site:	Red Tank 28 Federal 5H	North Reference:	Grid:
Well:	#5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Design Targets									
Target Name	Hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
PBHL (RT 28F 5H)		0.00	0.00	8,418.7	-4,806.9	-0.1	493,765.50	703,730.40	32° 21' 20.704 N 103° 40' 24.865 W
- plan hits target center									
- Point									
Last Perf (RT 28F 5H)		0.00	0.00	8,418.7	-4,846.9	-0.1	493,925.50	703,730.40	32° 21' 22.287 N 103° 40' 24.853 W
- plan hits target center									
- Point									
First Perf (RT 28F 5H)		0.00	0.00	8,418.7	-590.0	0.0	497,982.40	703,730.50	32° 22' 2.432 N 103° 40' 24.560 W
- plan hits target center									
- Point									