

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOCD Hobbs
HOBBS OCDFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS** JUL 11 2013
*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 side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMMN110840
2. Name of Operator OXY USA INC.		6. If Indian, Allottee or Tribe Name
Contact: DAVID STEWART E-Mail: david_stewart@oxy.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address P.O. BOX 50250 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-685-5717 Fx: 432-685-5742	8. Well Name and No. MADERA 35 FEDERAL 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T26S R34E NWNW 400FNL 329FWL 32.005925 N Lat, 103.447729 W Lon		9. API Well No. 30-025-41083
		10. Field and Pool, or Exploratory JABALINA DELAWARE, SW WILDCAT 5-26 5263412K, BONE 96672
		11. County or Parish, and State LEA COUNTY, NM 4/12/10

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	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 to amend the approved drilling permit with the following proposed changes. After drilling the pilot hole, OXY proposes to drill the horizontal lateral in the 3rd Bone Spring @ 12530' TVD, 16838'TMD. Please see below for the amended casing and cementing program and attached for the amended directional plan.

1. Production Casing
5-1/2" 20# P-110 BT&C new csg @ 0-16838'M, 7-7/8" hole w/ 9.0# mud

Coll Rating (psi)	Burst Rating (psi)	SF Coll	SF Burst	SF Ten
11103	12635	1.88	1.35	2.03

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #211202 verified by the BLM Well Information System For OXY USA INC., sent to the Hobbs Committed to AFMSS for processing by KURT SIMMONS on 07/08/2013 ()	
Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature (Electronic Submission)	Date 06/20/2013
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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 _____	
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.	

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

JUL 17 2013

Additional data for EC transaction #211202 that would not fit on the form

32. Additional remarks, continued

design assumptions

2. Production - Cement w/ 1150sx Tuned Light cmt w/ 14.8#/sx Silicalite 50/50 Blend + 15#/sx Scotchlite HGS-6000 w/ 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + .3#/sx HR-800, 10.5ppg 2.20 yield 978# 24hr CS 100% Excess followed by 770sx Super H cmt w/ 1#/sx salt + .4% CFR-3 + .5% Halad-344 + .3% HR-800, 13.2ppg 1.61 yield 1361# 24hr CS 40% Excess. Calc TOC 4350'

Contingency 2nd Stage- DVT @ 5600' If returns are not lost during primary cement job, A DVT cancellation plug will be run and the 2nd stage cancelled.

The contingency 2nd stage if needed will be pumped as follows: Cement w/ 290sx PP cmt, 14.8ppg 1.33 yield 1849# 24hs CS 50% Excess. Calc TOC 4350'.

Description of Cement Additives: Salt (Accelerator); Silicalite (Additive Material); CFR-3 (Dispersant); Schotchlite HGS-6000 (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-800 (Retarder)
The above cement volumes could be revised pending the caliper measurement.

3. Mud Program

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
11820-16838'	9.0-9.1	32-50	<15	Duo/Vis/Salt gel/PAC

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.



Scientific Drilling

OXY

Lea County, New Mexico

Madera 35 Fed 1H

Madera 35 1H

Original Wellbore

Plan: Design #2

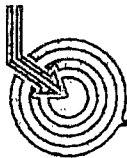
Standard Planning Report

12 June, 2013

HOBBS OCD

JUL 11 2013

RECEIVED



Scientific Drilling



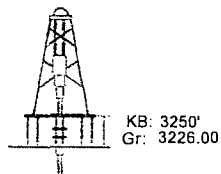
Madera 35 1H
Lea County, New Mexico
Northing: 367007.20
Easting: 774519.80
Design #2



To convert a Magnetic Direction to a Grid Direction, Add 6.82°
 To convert a True Direction to a Grid Direction, Subtract 0.47°

Azimuths to Grid North
 True North: -0.47°
 Magnetic North: 6.82°

Magnetic Field
 Strength: 48315.3snT
 Dip Angle: 59.96°
 Date: 4/18/2013
 Model: IGRF2010

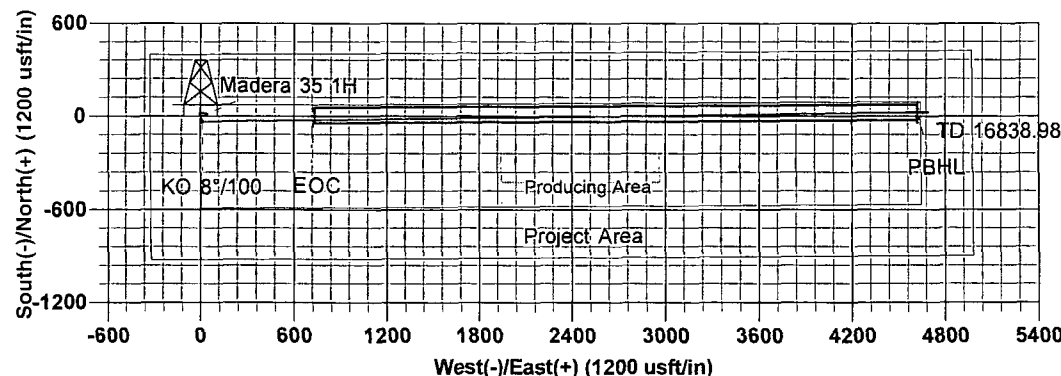
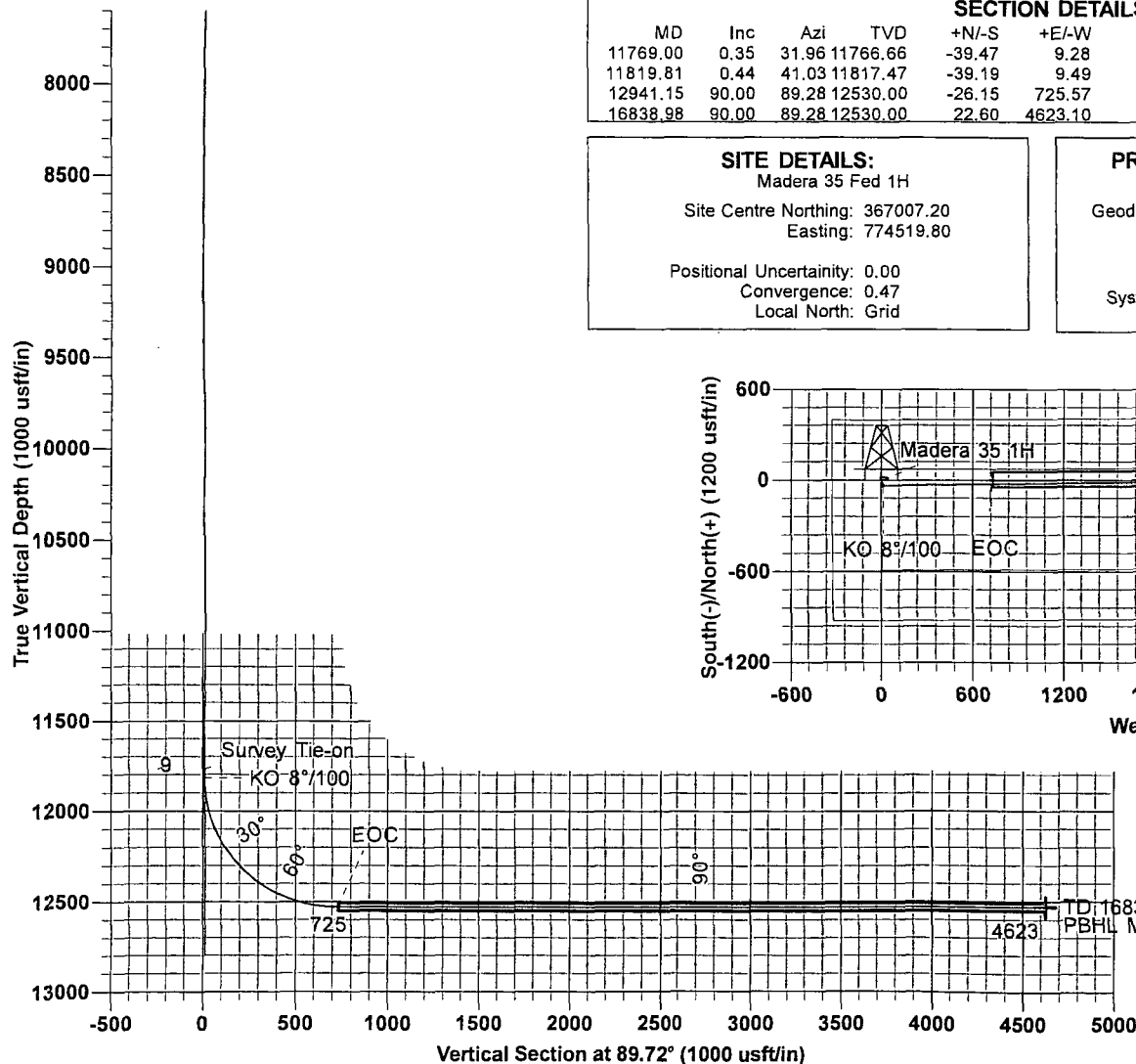


WELL DETAILS Madera 35 1H						
3226.00						
Ground Level:						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	367007.20	774519.80	32.006	-103.448	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
11769.00	0.35	31.96	11766.66	-39.47	9.28	0.00	0.00	9.09	
11819.81	0.44	41.03	11817.47	-39.19	9.49	0.22	39.38	9.30	
12941.15	90.00	89.28	12530.00	-26.15	725.57	8.00	48.25	725.43	
16838.98	90.00	89.28	12530.00	22.60	4623.10	0.00	0.00	4623.16	PBHL

SITE DETAILS:	
Madera 35 Fed 1H	
Site Centre Northing:	367007.20
Easting:	774519.80
Positional Uncertainty:	0.00
Convergence:	0.47
Local North:	Grid

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



Jody Barclay
 7:29, June 12 2013

Scientific Drilling
 2740 N. Highway 287
 Decatur, TX 76234

Database:	CompassC	Local Co-ordinate Reference:	Well Madera 35 1H
Company:	OXY	TVD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Project:	Lea County, New Mexico	MD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Site:	Madera 35 Fed 1H	North Reference:	Grid
Well:	Madera 35 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #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	Madera 35 Fed 1H		
Site Position:		Northing:	367,007.20 usft
From:	Map	Easting:	774,519.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.006
		Longitude:	-103.448
		Grid Convergence:	0.47 °

Well	Madera 35 1H		
Well Position	+N-S	0.00 usft	Northing: 367,007.20 usft
	+E-W	0.00 usft	Easting: 774,519.80 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.006
			Longitude: -103.448
			Ground Level: 3,226.00 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	4/18/2013	7.29	59.96	48,315

Design	Design #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	11,769.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	89.72

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
11,769.00	0.35	31.96	11,766.67	-39.47	9.28	0.00	0.00	0.00	0.00	
11,819.81	0.44	41.03	11,817.47	-39.19	9.49	0.22	0.18	17.85	39.38	
12,941.15	90.00	89.28	12,530.00	-26.15	725.57	8.00	7.99	4.30	48.25	
16,838.98	90.00	89.28	12,530.00	22.60	4,623.10	0.00	0.00	0.00	0.00	PBHL M35Fed1H

Database:	CompassC	Local Co-ordinate Reference:	Well Madera 35 1H
Company:	OXY	TVD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Project:	Lea County, New Mexico	MD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Site:	Madera 35 Fed 1H	North Reference:	Grid
Well:	Madera 35 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #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)
882.00	0.63	299.58	881.95	3.07	-2.48	-2.46	0.00	0.00	0.00
977.00	0.33	11.36	976.94	3.60	-2.88	-2.86	0.65	-0.32	75.56
1,037.00	0.31	47.82	1,036.94	3.68	-2.73	-2.71	0.34	-0.03	60.77
1,132.00	0.31	341.11	1,131.94	4.29	-2.62	-2.60	0.36	0.00	-70.22
1,604.00	0.88	327.14	1,603.91	8.55	-5.00	-4.96	0.12	0.12	-2.96
1,698.00	1.01	326.52	1,697.90	9.84	-5.85	-5.80	0.14	0.14	-0.66
1,886.00	1.36	342.43	1,885.86	13.35	-7.43	-7.37	0.25	0.19	8.46
1,981.00	0.70	346.03	1,980.85	14.99	-7.91	-7.84	0.70	-0.69	3.79
2,075.00	0.70	358.82	2,074.84	16.12	-8.06	-7.99	0.17	0.00	13.61
2,169.00	0.70	24.90	2,168.83	17.22	-7.84	-7.75	0.34	0.00	27.74
2,264.00	0.62	222.46	2,263.83	17.36	-7.94	-7.85	1.37	-0.08	-170.99
2,358.00	0.79	68.03	2,357.83	17.23	-7.68	-7.60	1.46	0.18	-164.29
2,452.00	1.19	84.43	2,451.81	17.57	-6.11	-6.02	0.52	0.43	17.45
2,546.00	1.49	93.52	2,545.79	17.59	-3.92	-3.83	0.39	0.32	9.67
2,640.00	2.02	91.24	2,639.74	17.48	-1.04	-0.95	0.57	0.56	-2.43
2,735.00	2.29	95.94	2,734.68	17.24	2.52	2.61	0.34	0.28	4.95
2,829.00	2.90	93.61	2,828.58	16.90	6.76	6.85	0.66	0.65	-2.48
2,923.00	3.30	96.13	2,922.44	16.46	11.83	11.91	0.45	0.43	2.68
3,014.00	3.25	100.42	3,013.29	15.72	16.97	17.04	0.27	-0.05	4.71
3,108.00	2.37	94.62	3,107.18	15.08	21.53	21.60	0.98	-0.94	-6.17
3,203.00	1.32	111.32	3,202.13	14.52	24.50	24.57	1.23	-1.11	17.58
3,297.00	0.62	115.10	3,296.12	13.91	25.97	26.04	0.75	-0.74	4.02
3,391.00	0.79	264.08	3,390.11	13.63	25.79	25.85	1.45	0.18	158.49
3,485.00	0.70	251.42	3,484.10	13.38	24.60	24.66	0.20	-0.10	-13.47
3,580.00	0.26	170.38	3,579.10	12.98	24.08	24.15	0.74	-0.46	-85.31
3,674.00	0.86	186.64	3,673.10	12.07	24.04	24.10	0.65	0.64	17.30
3,768.00	0.97	171.88	3,767.08	10.58	24.07	24.12	0.28	0.12	-15.70
3,863.00	0.79	152.45	3,862.07	9.21	24.49	24.53	0.36	-0.19	-20.45
3,957.00	1.14	97.17	3,956.06	8.51	25.71	25.75	1.01	0.37	-58.81
4,051.00	1.41	108.33	4,050.04	8.03	27.74	27.78	0.39	0.29	11.87
4,146.00	0.62	96.12	4,145.02	7.61	29.36	29.40	0.86	-0.83	-12.85
4,240.00	1.23	54.19	4,239.01	8.15	30.68	30.72	0.93	0.65	-44.61
4,334.00	1.58	72.47	4,332.98	9.13	32.74	32.78	0.60	0.37	19.45
4,428.00	0.35	328.85	4,426.97	9.76	33.82	33.87	1.81	-1.31	-110.23
4,523.00	0.35	280.95	4,521.97	10.07	33.39	33.44	0.30	0.00	-50.42
4,617.00	0.62	268.29	4,615.97	10.11	32.60	32.65	0.31	0.29	-13.47
4,712.00	0.35	269.26	4,710.96	10.09	31.80	31.84	0.28	-0.28	1.02
4,806.00	0.62	94.89	4,804.96	10.04	32.02	32.06	1.03	0.29	-185.50
4,900.00	1.32	77.31	4,898.95	10.24	33.58	33.63	0.80	0.74	-18.70
4,995.00	1.67	101.57	4,993.92	10.20	36.00	36.05	0.75	0.37	25.54
5,089.00	2.02	88.73	5,087.87	9.96	39.00	39.05	0.57	0.37	-13.66
5,183.00	0.26	122.13	5,181.85	9.88	40.84	40.89	1.92	-1.87	35.53
5,277.00	0.79	62.19	5,275.84	10.07	41.59	41.64	0.74	0.56	-63.77
5,320.00	0.26	86.27	5,318.84	10.22	41.95	42.00	1.31	-1.23	56.00
5,447.00	0.70	44.53	5,445.84	10.79	42.78	42.83	0.42	0.35	-32.87
5,541.00	0.79	41.10	5,539.83	11.69	43.61	43.67	0.11	0.10	-3.65
5,636.00	0.53	304.59	5,634.82	12.43	43.68	43.74	1.05	-0.27	-101.59
5,730.00	0.79	296.60	5,728.82	12.97	42.74	42.81	0.29	0.28	-8.50
5,824.00	0.88	301.52	5,822.81	13.63	41.55	41.61	0.12	0.10	5.23
5,919.00	0.88	288.42	5,917.80	14.25	40.23	40.30	0.21	0.00	-13.79
6,013.00	0.88	286.40	6,011.79	14.68	38.86	38.93	0.03	0.00	-2.15
6,108.00	0.88	271.90	6,106.77	14.91	37.43	37.50	0.23	0.00	-15.26
6,202.00	0.88	281.74	6,200.76	15.08	36.00	36.07	0.16	0.00	10.47
6,296.00	0.79	272.69	6,294.75	15.26	34.65	34.72	0.17	-0.10	-9.63

Database:	CompassC	Local Co-ordinate Reference:	Well Madera 35 1H
Company:	OXY	TVD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Project:	Lea County, New Mexico	MD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Site:	Madera 35 Fed-1H	North Reference:	Grid
Well:	Madera 35 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #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)	
6,391.00	0.79	280.86	6,389.74	15.41	33.35	33.42	0.12	0.00	8.60	
6,485.00	0.88	281.39	6,483.73	15.67	32.00	32.08	0.10	0.10	0.56	
6,579.00	0.79	275.50	6,577.72	15.88	30.65	30.73	0.13	-0.10	-8.27	
6,674.00	0.79	276.64	6,672.72	16.02	29.35	29.43	0.02	0.00	1.20	
6,768.00	0.97	282.27	6,766.70	16.26	27.93	28.01	0.21	0.19	5.99	
6,863.00	0.97	283.24	6,861.69	16.62	26.36	26.44	0.02	0.00	1.02	
6,957.00	0.88	283.94	6,955.68	16.97	24.88	24.97	0.10	-0.10	0.74	
7,051.00	0.88	294.84	7,049.67	17.45	23.53	23.61	0.18	0.00	11.60	
7,146.00	0.79	288.74	7,144.66	17.97	22.25	22.33	0.13	-0.09	-6.42	
7,240.00	1.06	283.06	7,238.65	18.37	20.79	20.87	0.30	0.29	-6.04	
7,334.00	0.97	273.74	7,332.63	18.62	19.14	19.24	0.20	-0.10	-9.91	
7,429.00	0.88	273.74	7,427.62	18.72	17.61	17.71	0.09	-0.09	0.00	
7,523.00	1.14	271.11	7,521.60	18.79	15.96	16.05	0.28	0.28	-2.80	
7,618.00	0.97	259.68	7,616.59	18.66	14.22	14.31	0.28	-0.18	-12.03	
7,712.00	0.88	244.12	7,710.58	18.20	12.79	12.88	0.28	-0.10	-16.55	
7,806.00	1.06	235.25	7,804.56	17.39	11.43	11.51	0.25	0.19	-9.44	
7,900.00	1.06	242.02	7,898.55	16.49	9.94	10.02	0.13	0.00	7.20	
7,995.00	1.14	216.00	7,993.53	15.31	8.61	8.69	0.53	0.08	-27.39	
8,089.00	1.14	224.53	8,087.51	13.89	7.41	7.48	0.18	0.00	9.07	
8,184.00	1.06	227.69	8,182.49	12.62	6.09	6.16	0.11	-0.08	3.33	
8,278.00	1.14	215.21	8,276.48	11.27	4.91	4.97	0.27	0.09	-13.28	
8,372.00	1.14	203.17	8,370.46	9.65	4.01	4.05	0.25	0.00	-12.81	
8,467.00	1.32	196.40	8,465.44	7.73	3.33	3.36	0.24	0.19	-7.13	
8,561.00	1.23	183.74	8,559.41	5.69	2.95	2.98	0.31	-0.10	-13.47	
8,656.00	1.14	181.81	8,654.39	3.72	2.86	2.88	0.10	-0.09	-2.03	
8,750.00	1.41	194.82	8,748.37	1.67	2.53	2.54	0.42	0.29	13.84	
8,845.00	1.41	202.55	8,843.34	-0.54	1.78	1.78	0.20	0.00	8.14	
8,939.00	1.32	193.68	8,937.31	-2.66	1.09	1.07	0.24	-0.10	-9.44	
9,033.00	1.14	174.47	9,031.29	-4.64	0.92	0.90	0.48	-0.19	-20.44	
9,128.00	1.14	177.59	9,126.27	-6.53	1.05	1.02	0.07	0.00	3.28	
9,222.00	1.23	172.76	9,220.25	-8.46	1.22	1.17	0.14	0.10	-5.14	
9,317.00	1.32	177.06	9,315.23	-10.57	1.40	1.35	0.14	0.09	4.53	
9,411.00	1.41	175.92	9,409.20	-12.80	1.54	1.48	0.10	0.10	-1.21	
9,505.00	1.23	153.07	9,503.18	-14.85	2.08	2.01	0.59	-0.19	-24.31	
9,600.00	1.14	113.34	9,598.16	-16.14	3.41	3.33	0.85	-0.09	-41.82	
9,694.00	1.32	115.10	9,692.14	-16.97	5.25	5.16	0.20	0.19	1.87	
9,788.00	1.58	115.10	9,786.11	-17.98	7.40	7.31	0.28	0.28	0.00	
9,883.00	0.88	101.30	9,881.09	-18.67	9.30	9.21	0.79	-0.74	-14.53	
9,977.00	0.70	138.39	9,975.08	-19.24	10.39	10.30	0.56	-0.19	39.46	
10,072.00	0.88	221.45	10,070.07	-20.23	10.29	10.19	1.11	0.19	87.43	
10,166.00	1.85	229.89	10,164.04	-21.74	8.66	8.55	1.05	1.03	8.98	
10,260.00	1.14	181.02	10,258.01	-23.66	7.48	7.36	1.48	-0.76	-51.99	
10,355.00	0.79	130.22	10,353.00	-25.02	7.96	7.84	0.93	-0.37	-53.47	
10,449.00	1.41	139.01	10,446.98	-26.32	9.21	9.09	0.68	0.66	9.35	
10,543.00	2.02	142.44	10,540.94	-28.50	10.98	10.84	0.66	0.65	3.65	
10,637.00	1.06	144.54	10,634.91	-30.52	12.50	12.35	1.02	-1.02	2.23	
10,732.00	1.14	139.27	10,729.89	-31.96	13.62	13.47	0.14	0.08	-5.55	
10,826.00	1.67	174.34	10,823.86	-34.03	14.37	14.20	1.05	0.56	37.31	
10,920.00	1.85	168.63	10,917.82	-36.88	14.80	14.62	0.27	0.19	-6.07	
11,014.00	1.23	191.57	11,011.78	-39.35	14.90	14.71	0.92	-0.66	24.40	
11,108.00	1.23	202.55	11,105.76	-41.27	14.31	14.11	0.25	0.00	11.68	
11,203.00	1.58	215.38	11,200.73	-43.28	13.16	12.95	0.49	0.37	13.51	
11,297.00	0.79	240.52	11,294.71	-44.66	11.85	11.63	0.99	-0.84	26.74	
11,392.00	1.06	311.89	11,389.70	-44.39	10.62	10.41	1.16	0.28	75.13	

Database:	CompassC	Local Co-ordinate Reference:	Well Madera 35 1H
Company:	OXY	TVD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Project:	Lea County, New Mexico	MD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Site:	Madera 35 Fed 1H	North Reference:	Grid
Well:	Madera 35 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #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)
11,486.00	0.79	351.26	11,483.69	-43.17	9.88	9.67	0.72	-0.29	41.88
11,580.00	1.14	347.84	11,577.68	-41.62	9.58	9.38	0.38	0.37	-3.64
11,674.00	0.62	345.29	11,671.67	-40.21	9.26	9.06	0.55	-0.55	-2.71
11,769.00	0.35	31.96	11,766.67	-39.47	9.28	9.09	0.48	-0.28	49.13
11,800.00	0.40	37.98	11,797.66	-39.30	9.40	9.20	0.22	0.17	19.41
11,819.81	0.44	41.03	11,817.47	-39.19	9.49	9.30	0.22	0.18	15.42
11,850.00	2.73	82.38	11,847.65	-39.01	10.28	10.09	8.00	7.58	136.96
11,900.00	6.72	86.49	11,897.47	-38.67	14.38	14.19	8.00	7.98	8.24
11,950.00	10.71	87.55	11,946.88	-38.29	21.94	21.75	8.00	7.99	2.11
12,000.00	14.71	88.03	11,995.65	-37.88	32.93	32.75	8.00	8.00	0.97
12,050.00	18.71	88.31	12,043.53	-37.42	47.30	47.12	8.00	8.00	0.56
12,100.00	22.71	88.50	12,090.29	-36.93	64.97	64.79	8.00	8.00	0.37
12,150.00	26.71	88.63	12,135.70	-36.41	85.86	85.68	8.00	8.00	0.26
12,200.00	30.71	88.73	12,179.54	-35.86	109.87	109.69	8.00	8.00	0.20
12,250.00	34.71	88.81	12,221.61	-35.28	136.88	136.70	8.00	8.00	0.16
12,300.00	38.71	88.87	12,261.68	-34.68	166.75	166.58	8.00	8.00	0.13
12,350.00	42.71	88.93	12,299.57	-34.05	199.35	199.18	8.00	8.00	0.11
12,400.00	46.71	88.97	12,335.10	-33.41	234.52	234.35	8.00	8.00	0.09
12,450.00	50.71	89.01	12,368.09	-32.75	272.07	271.91	8.00	8.00	0.08
12,500.00	54.71	89.05	12,398.38	-32.08	311.83	311.67	8.00	8.00	0.07
12,550.00	58.71	89.08	12,425.82	-31.40	353.62	353.46	8.00	8.00	0.07
12,600.00	62.71	89.11	12,450.27	-30.72	397.21	397.05	8.00	8.00	0.06
12,650.00	66.71	89.14	12,471.63	-30.03	442.40	442.25	8.00	8.00	0.06
12,700.00	70.71	89.17	12,489.78	-29.34	488.97	488.82	8.00	8.00	0.05
12,750.00	74.71	89.19	12,504.64	-28.66	536.70	536.55	8.00	8.00	0.05
12,800.00	78.71	89.22	12,516.13	-27.98	585.35	585.20	8.00	8.00	0.05
12,850.00	82.71	89.24	12,524.21	-27.32	634.68	634.53	8.00	8.00	0.05
12,900.00	86.71	89.26	12,528.82	-26.67	684.45	684.31	8.00	8.00	0.05
12,941.15	90.00	89.28	12,530.00	-26.15	725.57	725.43	8.00	8.00	0.05
13,000.00	90.00	89.28	12,530.00	-25.41	784.42	784.28	0.00	0.00	0.00
13,100.00	90.00	89.28	12,530.00	-24.16	884.41	884.28	0.00	0.00	0.00
13,200.00	90.00	89.28	12,530.00	-22.91	984.40	984.28	0.00	0.00	0.00
13,300.00	90.00	89.28	12,530.00	-21.66	1,084.39	1,084.27	0.00	0.00	0.00
13,400.00	90.00	89.28	12,530.00	-20.41	1,184.39	1,184.27	0.00	0.00	0.00
13,500.00	90.00	89.28	12,530.00	-19.16	1,284.38	1,284.27	0.00	0.00	0.00
13,600.00	90.00	89.28	12,530.00	-17.91	1,384.37	1,384.27	0.00	0.00	0.00
13,700.00	90.00	89.28	12,530.00	-16.66	1,484.36	1,484.26	0.00	0.00	0.00
13,800.00	90.00	89.28	12,530.00	-15.41	1,584.35	1,584.26	0.00	0.00	0.00
13,900.00	90.00	89.28	12,530.00	-14.16	1,684.35	1,684.26	0.00	0.00	0.00
14,000.00	90.00	89.28	12,530.00	-12.91	1,784.34	1,784.25	0.00	0.00	0.00
14,100.00	90.00	89.28	12,530.00	-11.66	1,884.33	1,884.25	0.00	0.00	0.00
14,200.00	90.00	89.28	12,530.00	-10.41	1,984.32	1,984.25	0.00	0.00	0.00
14,300.00	90.00	89.28	12,530.00	-9.16	2,084.32	2,084.25	0.00	0.00	0.00
14,400.00	90.00	89.28	12,530.00	-7.90	2,184.31	2,184.24	0.00	0.00	0.00
14,500.00	90.00	89.28	12,530.00	-6.65	2,284.30	2,284.24	0.00	0.00	0.00
14,600.00	90.00	89.28	12,530.00	-5.40	2,384.29	2,384.24	0.00	0.00	0.00
14,700.00	90.00	89.28	12,530.00	-4.15	2,484.28	2,484.23	0.00	0.00	0.00
14,800.00	90.00	89.28	12,530.00	-2.90	2,584.28	2,584.23	0.00	0.00	0.00
14,900.00	90.00	89.28	12,530.00	-1.65	2,684.27	2,684.23	0.00	0.00	0.00
15,000.00	90.00	89.28	12,530.00	-0.40	2,784.26	2,784.23	0.00	0.00	0.00
15,100.00	90.00	89.28	12,530.00	0.85	2,884.25	2,884.22	0.00	0.00	0.00
15,200.00	90.00	89.28	12,530.00	2.10	2,984.25	2,984.22	0.00	0.00	0.00
15,300.00	90.00	89.28	12,530.00	3.35	3,084.24	3,084.22	0.00	0.00	0.00
15,400.00	90.00	89.28	12,530.00	4.60	3,184.23	3,184.21	0.00	0.00	0.00

Database:	CompassC	Local Co-ordinate Reference:	Well Madera 35 1H
Company:	OXY	TVD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Project:	Lea County, New Mexico	MD Reference:	RKB @ 3250.00usft (RKB - M35Fed1H)
Site:	Madera 35 Fed 1H	North Reference:	Grid
Well:	Madera 35 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #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)	
15,500.00	90.00	89.28	12,530.00	5.85	3,284.22	3,284.21	0.00	0.00	0.00	
15,600.00	90.00	89.28	12,530.00	7.10	3,384.21	3,384.21	0.00	0.00	0.00	
15,700.00	90.00	89.28	12,530.00	8.35	3,484.21	3,484.21	0.00	0.00	0.00	
15,800.00	90.00	89.28	12,530.00	9.61	3,584.20	3,584.20	0.00	0.00	0.00	
15,900.00	90.00	89.28	12,530.00	10.86	3,684.19	3,684.20	0.00	0.00	0.00	
16,000.00	90.00	89.28	12,530.00	12.11	3,784.18	3,784.20	0.00	0.00	0.00	
16,100.00	90.00	89.28	12,530.00	13.36	3,884.17	3,884.19	0.00	0.00	0.00	
16,200.00	90.00	89.28	12,530.00	14.61	3,984.17	3,984.19	0.00	0.00	0.00	
16,300.00	90.00	89.28	12,530.00	15.86	4,084.16	4,084.19	0.00	0.00	0.00	
16,400.00	90.00	89.28	12,530.00	17.11	4,184.15	4,184.19	0.00	0.00	0.00	
16,500.00	90.00	89.28	12,530.00	18.36	4,284.14	4,284.18	0.00	0.00	0.00	
16,600.00	90.00	89.28	12,530.00	19.61	4,384.14	4,384.18	0.00	0.00	0.00	
16,700.00	90.00	89.28	12,530.00	20.86	4,484.13	4,484.18	0.00	0.00	0.00	
16,800.00	90.00	89.28	12,530.00	22.11	4,584.12	4,584.17	0.00	0.00	0.00	
16,838.98	90.00	89.28	12,530.00	22.60	4,623.10	4,623.16	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL M35Fed1H	0.00	267.72	12,530.00	22.60	4,623.10	367,029.80	779,142.90	32.006	-103.433	
- plan hits target center										
- Rectangle (sides W100.00 H3,889.83 D40.00)										

**Madera 35 Federal 1H
30-025-41083
OXY USA Inc.
July 9, 2013
Conditions of Approval**

The original COAs still stand with the following changes in addition to the sundry #205464:

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

JAM 070913