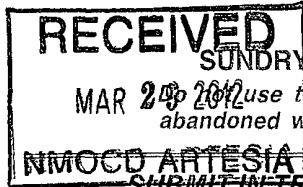


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
NMOCD-ARTESIAFORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

## SUNDRY NOTICES AND REPORTS ON WELLS

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

2. Name of Operator OXY USA Inc. 16696

3a. Address  
P.O. Box 50250 Midland, TX 797103b. Phone No. (include area code)  
432-685-5717

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

S-660 FSL 1980 FEL SWSE(0) Sec 13 T23S R28E  
B-330 FNL 1650 FEL WNWNE(B) " " "

5. Lease Serial No

NMMNM 106689

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Bank 13 Federal Com. #1H

9. API Well No.

30-015-39456

10. Field and Pool, or Exploratory Area

Loving Drush Canyon, East

11. County or Parish, State

Eddy NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Amend APD
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 APD for the Bank 13 Federal #1H, API No. 30-015-39456 with the following changes.

1. Amend the proposed TD's. 6025'-TVD 9987'-TMD
2. See attached for the amended intermediate & production casing programs.
3. See attached for the amended cementing programs.
4. See attached for the amended proposed directional drilling plan.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

David Stewart

Title Regulatory Advisor

Signature

Date

3/15/12

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

(Instructions on page 2)

Accepted for record  
NMOCD TEG 3/24/2012

OXY USA Inc. – Amend APD

Bank 13 Federal Com. #1H

SL - 660 FSL 1980 FEL SWSE(O) Sec 13 T23S R28E

BHL - 330 FNL 1650 FEL NWNE( B) Sec 13 T23S R28E

Eddy County, NM

OXY USA Inc. respectfully requests to amend the approved APD. OXY has received updated formation tops and a different directional plan which decreased our build rate to 6°/100' from 10°/100' and changed our PBHL TVD depth. Because of these changes we have increased the setting depth of the Intermediate casing from 2700' to 2900' and the new PBHL will be 9987' MD / 6025' TVD. The changes in both the Intermediate and Production sections have altered the cement volumes too. Also, due to the shallow Surface casing depth, the surface cement job will be a single stage instead of the typical dual stage.

TMD-9987' TVD-6025'

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**Casing Program:**

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
17-1/2"	250'	13-3/8"	48#	ST&C	H-40	New	6.43	11.89	3.89
				Hole filled with 8.4# Mud			770#	1730#	
12-1/4"	2900'	9-5/8"	40	LT&C	J-55	New	3.06	1.4	2.62
				Hole filled with 10.0# Mud			2570#	3950#	
8-1/2"	9957'	5-1/2"	17	LT&C	L-80	New	2.22	1.23	1.8
DVT @ 5000' - POST @ 2950'				Hole filled with 9.2# Mud			6290#	7740#	

Collapse and burst loads calculated using Stress Check with anticipated loads

**Cement Program**

13-3/8"	Surface	Circulate cement to surface w/ 370sx PP cmt w/ 2% CaCl <sub>2</sub> + .125#/sx Poly-E-Flake, 14.8ppg 1.35 yield 1608# 24hr CS 165% Excess
9-5/8"	Intermediate	Circulate cement to surface w/ 770sx HES light PP cmt w/ 5% Salt + .125#/sx Poly-E-Flake + 3#/sx Kol-Seal, 12.9ppg 1.87 yield 625# 24hr CS 105% Excess followed by 300sx PP cmt w/ 1% CaCl <sub>2</sub> , 14.8ppg 1.34 yield 2125# 24hr CS 105% Excess
5-1/2"	Production	Cement 1st stage w/ 1450sx Super H w/ .5% Halad-344 + .25% HR-601 + .4% CFR-3 + 3#/sx Kol-Seal + .125#/sx Poly-E-Flake, 13.2ppg 1.61 yield 1477# 24hr CS 85% Excess, Calc TOC-4950' Cement 2nd stage w/ 500sx HES light PP w/ 3#/sx salt + 3#/sx Kol-Seal + 0.1% HR-601, 12.4ppg 2.07 yield 431# 24hr CS 125% Excess, followed by 100sx PP cmt w/ 1% CaCl <sub>2</sub> , 14.8ppg 1.34 yield 1907# 24hr CS 125% Excess, Calc TOC-2900' Cement 3rd stage w/ 370sx HES Light PP cmt w/ 3#/sx Salt, 12.4ppg 1.98 yield 511# 24hr CS 10% Excess followed by 100sx PP cmt w/ 2% CaCl <sub>2</sub> , 14.8ppg 1.35 yield 2100# 24hr CS 125% Excess, Circ Surface

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



Occidental Permian Ltd.  
Bank 13 Fed #1H  
Eddy Co, NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	
2	5070.07	0.00	4.44	5070.07	0.00	0.00	0.00	0.00	0.00	
3	6570.07	90.00	4.44	6025.00	952.06	73.93	6.00	4.44	954.93	
4	9956.57	90.00	4.44	6025.00	4328.40	336.10	0.00	0.00	4341.43	PBHL

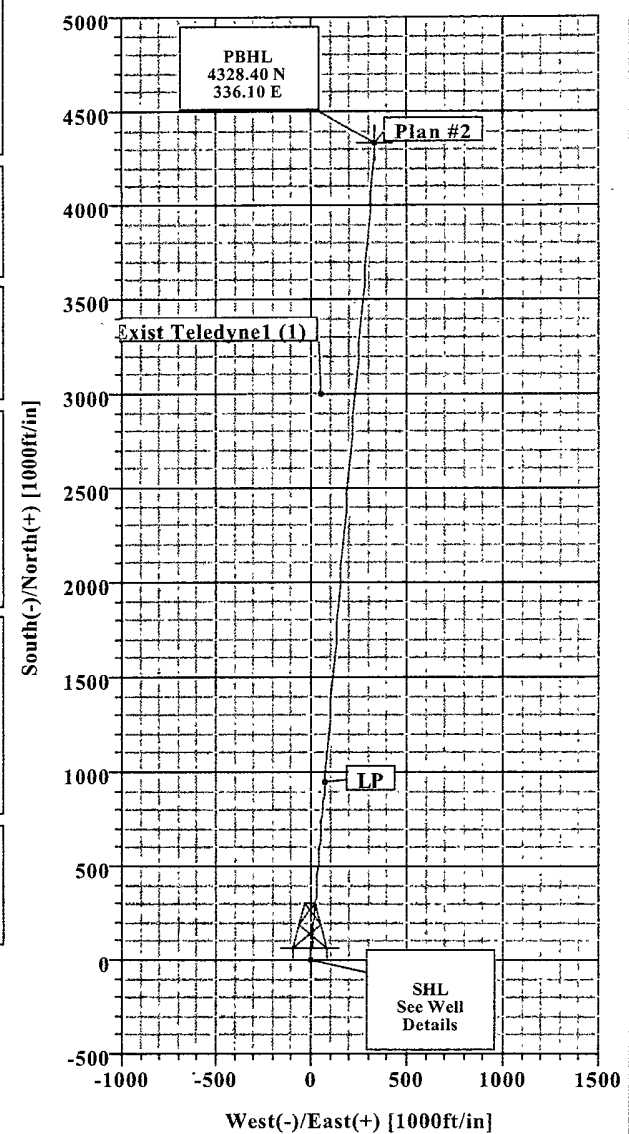
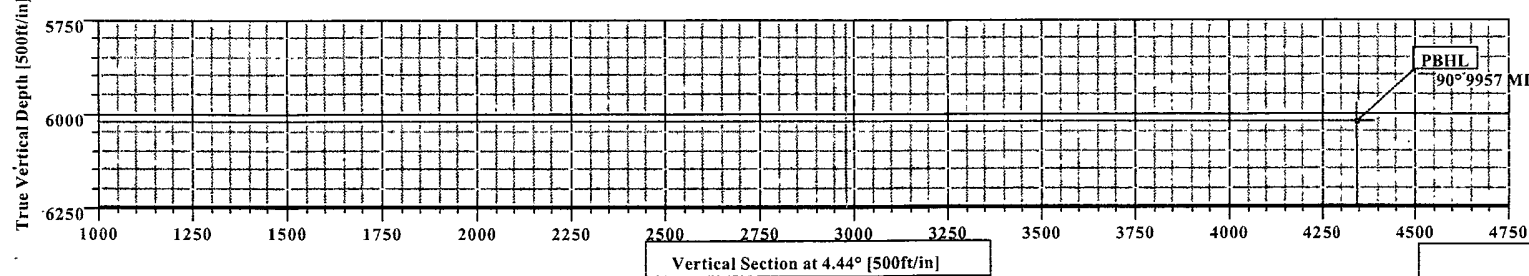
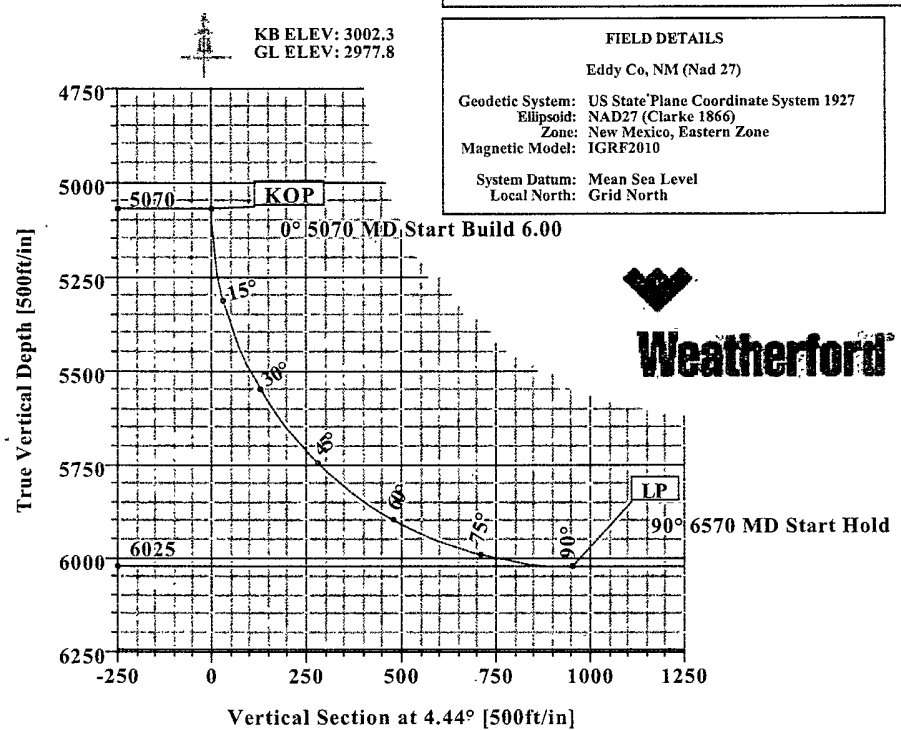
WELL DETAILS							
Name+N/-S		+E/-W	Northing	Easting	Latitude	Longitude	Slot
1H	0.00	0.00	472953.50	591241.10	32°17'59.713N	104°02'16.935W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	6025.00	4328.40	336.10	477281.90	591577.20	Point

**FIELD DETAILS**  
Eddy Co, NM (Nad 27)  
Geodetic System: US State Plane Coordinate System 1927  
Ellipsoid: NAD27 (Clarke 1866)  
Zone: New Mexico, Eastern Zone  
Magnetic Model: IGRF2010  
System Datum: Mean Sea Level  
Local North: Grid North

**SITE DETAILS**  
Bank 13 Fed. #1H  
Site Centre Northing: 472953.50  
Easting: 591241.10  
Ground Level: 2977.80  
Positional Uncertainty: 0.00  
Convergence: 0.16

**LEGEND**  
Exist Teledyne1 (1)  
1  
Plan #2



Created By: Keith Noack  
Date: 2/23/2012



# Weatherford International Ltd.

## WFT Plan Report - X & Y's

**Weatherford**

Company:	Occidental Permian Ltd.	Date:	2/23/2012	Time:	06:55:24	Page:	1
Field:	Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: 1H- Grid North				
Site:	Bank 13 Fed. #1H	Vertical (TVD) Reference:	SITE 3002.3				
Well:	1H	Section (YS) Reference:	Well (0.00N,0.00E,4.44Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Plan:	Plan #2	Date Composed:	4/15/2011
Principal:	Yes	Version:	1
		Tied-to:	From Surface

Field:	Eddy Co, NM (Nad 27)		
Map System:	US State Plane Coordinate System 1927	Map Zone:	New Mexico, Eastern Zone
Geo Datum:	NAD27 (Clarke 1866)	Coordinate System:	Well Centre
Sys Datum:	Mean Sea Level	Geomagnetic Model:	IGRF2010

Site:	Bank 13 Fed. #1H									
Site Position:	Northing:		472953.50 ft		Latitude:		32 17 59.713 N			
From: Map	Easting:		591241.10 ft		Longitude:		104 2 16.935 W			
Position Uncertainty:	0.00 ft				North Reference:		Grid			
Ground Level:	2977.80 ft				Grid Convergence:		0.16 deg			

Well:	1H			Slot Name:			
Well Position:	+N/-S	0.00 ft	Northing:	472953.50 ft	Latitude:	32 17 59.713 N	
	+E/-W	0.00 ft	Easting :	591241.10 ft	Longitude:	104 2 16.935 W	
Position Uncertainty:	0.00 ft						

Wellpath:	1	Drilled From:	Surface
Current Datum:	SITE	Tie-on Depth:	0.00 ft
Magnetic Data:	4/1/2012	Above System Datum:	Mean Sea Level
Field Strength:	48556 nT	Declination:	7.71 deg
Vertical Section:	Depth From (TVD)	Mag Dip Angle:	60.16 deg
	ft	+N/-S	ft
	0.00	ft	deg
		0.00	4.44

### Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5070.07	0.00	4.44	5070.07	0.00	0.00	0.00	0.00	0.00	0.00	
6570.07	90.00	4.44	6025.00	952.06	73.93	6.00	6.00	0.00	4.44	
9956.57	90.00	4.44	6025.00	4328.40	336.10	0.00	0.00	0.00	0.00	PBHL

### Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
5000.00	0.00	4.44	5000.00	0.00	0.00	0.00	0.00	472953.50	591241.10	KOP
5070.07	0.00	4.44	5070.07	0.00	0.00	0.00	0.00	472953.50	591241.10	
5100.00	1.80	4.44	5100.00	0.47	0.04	0.47	6.00	472953.97	591241.14	
5200.00	7.80	4.44	5199.60	8.80	0.68	8.83	6.00	472962.30	591241.78	
5300.00	13.80	4.44	5297.78	27.47	2.13	27.55	6.00	472980.97	591243.23	
5400.00	19.80	4.44	5393.48	56.26	4.37	56.43	6.00	473009.76	591245.47	
5500.00	25.80	4.44	5485.62	94.87	7.37	95.16	6.00	473048.37	591248.47	
5600.00	31.80	4.44	5573.22	142.87	11.09	143.30	6.00	473096.37	591252.19	
5700.00	37.80	4.44	5655.30	199.74	15.51	200.34	6.00	473153.24	591256.61	
5800.00	43.80	4.44	5730.97	264.85	20.57	265.65	6.00	473218.35	591261.67	
5900.00	49.80	4.44	5799.40	337.49	26.21	338.51	6.00	473290.99	591267.31	
6000.00	55.80	4.44	5859.83	416.87	32.37	418.12	6.00	473370.37	591273.47	
6100.00	61.80	4.44	5911.62	502.10	38.99	503.61	6.00	473455.60	591280.09	
6200.00	67.80	4.44	5954.19	592.27	45.99	594.05	6.00	473545.77	591287.09	
6300.00	73.80	4.44	5987.06	686.38	53.30	688.45	6.00	473639.88	591294.40	
6400.00	79.80	4.44	6009.90	783.40	60.83	785.76	6.00	473736.90	591301.93	
6500.00	85.80	4.44	6022.43	882.27	68.51	884.92	6.00	473835.77	591309.61	



# Weatherford International Ltd.

## WFT Plan Report - X & Y's

**Weatherford**

Company: Occidental Permian Ltd. Date: 2/23/2012 Time: 06:55:24 Page: 2  
Field: Eddy Co. NM (Nad 27) Co-ordinate(NE) Reference: Well: 1H- Grd North  
Site: Bank 13 Fed. #1H Vertical (TVD) Reference: SITE 3002.3  
Well: 1H Section (VS) Reference: Well: (0.00N;0.00E;4.44Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6570.07	90.00	4.44	6025.00	952.06	73.93	954.93	6.00	473905.56	591315.03	LP
6600.00	90.00	4.44	6025.00	981.90	76.24	984.86	0.00	473935.40	591317.34	
6700.00	90.00	4.44	6025.00	1081.60	83.99	1084.86	0.00	474035.10	591325.09	
6800.00	90.00	4.44	6025.00	1181.30	91.73	1184.86	0.00	474134.80	591332.83	
6900.00	90.00	4.44	6025.00	1281.00	99.47	1284.86	0.00	474234.50	591340.57	
7000.00	90.00	4.44	6025.00	1380.70	107.21	1384.86	0.00	474334.20	591348.31	
7100.00	90.00	4.44	6025.00	1480.40	114.95	1484.86	0.00	474433.90	591356.05	
7200.00	90.00	4.44	6025.00	1580.10	122.69	1584.86	0.00	474533.60	591363.79	
7300.00	90.00	4.44	6025.00	1679.80	130.44	1684.86	0.00	474633.30	591371.54	
7400.00	90.00	4.44	6025.00	1779.50	138.18	1784.86	0.00	474733.00	591379.28	
7500.00	90.00	4.44	6025.00	1879.20	145.92	1884.86	0.00	474832.70	591387.02	
7600.00	90.00	4.44	6025.00	1978.90	153.66	1984.86	0.00	474932.40	591394.76	
7700.00	90.00	4.44	6025.00	2078.60	161.40	2084.86	0.00	475032.10	591402.50	
7800.00	90.00	4.44	6025.00	2178.30	169.15	2184.86	0.00	475131.80	591410.25	
7900.00	90.00	4.44	6025.00	2278.00	176.89	2284.86	0.00	475231.50	591417.99	
8000.00	90.00	4.44	6025.00	2377.70	184.63	2384.86	0.00	475331.20	591425.73	
8100.00	90.00	4.44	6025.00	2477.40	192.37	2484.86	0.00	475430.90	591433.47	
8200.00	90.00	4.44	6025.00	2577.10	200.11	2584.86	0.00	475530.60	591441.21	
8300.00	90.00	4.44	6025.00	2676.80	207.85	2684.86	0.00	475630.30	591448.95	
8400.00	90.00	4.44	6025.00	2776.50	215.60	2784.86	0.00	475730.00	591456.70	
8500.00	90.00	4.44	6025.00	2876.20	223.34	2884.86	0.00	475829.70	591464.44	
8600.00	90.00	4.44	6025.00	2975.90	231.08	2984.86	0.00	475929.40	591472.18	
8700.00	90.00	4.44	6025.00	3075.60	238.82	3084.86	0.00	476029.10	591479.92	
8800.00	90.00	4.44	6025.00	3175.30	246.56	3184.86	0.00	476128.80	591487.66	
8900.00	90.00	4.44	6025.00	3275.00	254.30	3284.86	0.00	476228.50	591495.40	
9000.00	90.00	4.44	6025.00	3374.70	262.05	3384.86	0.00	476328.20	591503.15	
9100.00	90.00	4.44	6025.00	3474.40	269.79	3484.86	0.00	476427.90	591510.89	
9200.00	90.00	4.44	6025.00	3574.10	277.53	3584.86	0.00	476527.60	591518.63	
9300.00	90.00	4.44	6025.00	3673.80	285.27	3684.86	0.00	476627.30	591526.37	
9400.00	90.00	4.44	6025.00	3773.50	293.01	3784.86	0.00	476727.00	591534.11	
9500.00	90.00	4.44	6025.00	3873.20	300.75	3884.86	0.00	476826.70	591541.85	
9600.00	90.00	4.44	6025.00	3972.90	308.50	3984.86	0.00	476926.40	591549.60	
9700.00	90.00	4.44	6025.00	4072.60	316.24	4084.86	0.00	477026.10	591557.34	
9800.00	90.00	4.44	6025.00	4172.30	323.98	4184.86	0.00	477125.80	591565.08	
9900.00	90.00	4.44	6025.00	4272.00	331.72	4284.86	0.00	477225.50	591572.82	
9956.57	90.00	4.44	6025.00	4328.40	336.10	4341.43	0.00	477281.90	591577.20	PBHL

### Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL		6025.00	4328.40	336.10	477281.90	591577.20	32 18 42.538 N	104 2 12.880 W

### Casing Points

MD	TVD	Diameter	Hole Size	Name



# Weatherford International Ltd.

## WFT Plan Report - X & Y's



Weatherford

Company:	Occidental Permian Ltd	Date:	2/23/2012	Time:	06:55:24	Page:	3
Field:	Eddy Co, NM (Nad: 27)	Co-ordinate (NE) Reference:	Well: 1H, Grid North				
Site:	Bank 13, Fed. #1H	Vertical (TVD) Reference:	SITE 3002.3				
Well:	1H	Section (VS) Reference:	Well (0.00N, 0.00E, 4.44Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

### Annotation

MD ft.	TVD ft.	
5070.07	5070.07	KOP
6570.07	6025.00	LP
9956.57	6025.00	PBHL

### Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

## Split Estate


## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No NMNM106689
1b. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA Inc.		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710-0250		8. Lease Name and Well No. Bank 13 Federal Com. #1H
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-015-34562
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 660 FSL 1980 FEL SWSE(O) At proposed prod. zone 330 FNL 1650 FEL NWNE(B)		10. Field and/or Exploratory Undsg, Loving Brushy Canyon, E.
14. Distance in miles and direction from nearest town or post office* 4 miles northeast from Loving, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 13 T23S R28E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 330'	16. No. of Acres in lease 160	12. County or Parish Eddy
17. Spacing Unit dedicated to this well 160	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	13. State NM
19. Proposed Depth 10020'M 5925'V	20. BLM/BIA Bond No. on file ES0136	
21. Elevations (Show whether DF, KDB, RT, GL, etc) 2977.8' GL	22. Approximate date work will start* 6/1/11	23. Estimated duration 45

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |  |  |
|--|--|
| 1. Well plat certified by a registered surveyor  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)     |
| 2. A Drilling Plan   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) David Stewart	Date 4/15/11
Title Sr. Regulatory Analyst		
Approved by (Signautre) Is/ Don Peterson	Name (Printed/Typed)	Date SEP 9 2011
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval 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  
Conditions of approval, if any, are attached

APPROVAL FOR TWO YEARS

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.

\*(Instructions on Reverse)

Carlsbad Controlled Water Basin

RECEIVED

SEP 19 2011

NMOCD ARTESIA

Approval Subject to General Requirements  
& Special Stipulations Attached

Put Surface: Intropid

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005  
Submit to Appropriate District Office  
State Lease- 4 Copies  
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-39456</b>	Pool Code <b>40350</b>	Property Name <b>BANK "13" FED. COM</b>	Well Number <b>1H</b>
Dramatic Code <b>38841</b>	Operator Name <b>OXY USA INC.</b>		Elevation <b>2977.8'</b>
OGRID No. <b>16696</b>			

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>0</b>	<b>13</b>	<b>23 SOUTH</b>	<b>28 EAST, N.M.P.M.</b>		<b>660'</b>	<b>SOUTH</b>	<b>1980'</b>	<b>EAST</b>	<b>EDDY</b>

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
<b>B</b>	<b>13</b>	<b>23 SOUTH</b>	<b>28 EAST, N.M.P.M.</b>		<b>330'</b>	<b>NORTH</b>	<b>1650'</b>	<b>EAST</b>	<b>EDDY</b>
Dedicated Acres <b>160</b>	Joint or Infill <b>N</b>	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.

**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.

*David Stewart* 4/10/11  
Signature Date

**David Stewart**  
Printed Name

**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.

APRIL 14, 2011  
Date of Survey

*Terry J. Paul* 4/16/2011  
Signature and Seal of Professional Surveyor Certificate Number 15079

WD# 110414WL (KA)



## **SUNDRY CONDITIONS OF APPROVAL – 03/26/2012**

OPERATOR'S NAME:	OXY USA Inc
LEASE NO.:	NM106689
WELL NAME & NO.:	Bank 13 Federal Com 1H
LOCATION:	Section 13, T.23S., R.28E., NMPM
COUNTY:	Eddy County, New Mexico

**3001539456**

### **I. DRILLING**

**Original COA still applies with the following changes**

#### **A. CASING**

**Changes to the approved APD/SUNDRY casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.**

**No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.**

**Medium cave/karst.**

**Possible lost circulation in the Delaware formation.**

**Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.**

1. The 13-3/8 inch surface casing shall be set at approximately 250 feet (in a competent bed below potential fresh water zones and above the salt) and cemented to the surface. If the salt occurs at a shallower depth, the casing is to be set a minimum of 25 feet above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Formation below the 13-3/8" 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 and the mud weight for the bottom of the hole. Report results to BLM office.**

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing; **which shall be set at approximately 2700' in the base of the Castile or within the Lamar Limestone, is:**

- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst concerns.**

**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.**

**Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.**

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- a. First stage to DV tool, cement shall:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

**Operator is to Place DV tool 50' below 9-5/8" casing shoe which is approximately 2750'. The Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth**

- b. Second stage above DV tool, cement shall:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with third stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

- c. Third stage above DV tool, cement shall:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement will be required as excess calculates to 21%.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

## **B. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**EGF 032612**