

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. Fust St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
October 13, 2009

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-39856
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Cedar Canyon 16
8. Well Number 1H
9. OGRID Number 16696
10. Pool name or Wildcat Carral Draw Bone Springs

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator OXY USA Inc.	
3. Address of Operator P.O. Box 50250 Midland, TX 79710	
4. Well Location Unit Letter <u>D</u> : <u>380</u> feet from the <u>North</u> line and <u>660</u> feet from the <u>West</u> line Section <u>16</u> Township <u>24S</u> Range <u>29E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>2927 GR</u>	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

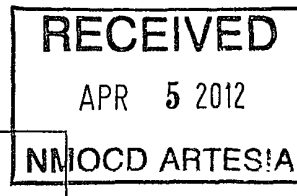
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7:14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

OXY USA Inc. respectfully requests to amend the APD for the Cedar Canyon 16 #1H, API No. 30-015-39856 with the following changes.

1. Due to surface conditions, the surface location and proposed bottom-hole located were changed. The original surface location is now the proposed bottom-hole location and the original proposed bottom-hole location is now the surface location.
2. Amend the proposed TD's. 7658'-TVD 11482'-TMD
3. See attached for the amended proposed directional drilling plan.



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David Stewart TITLE Regulatory Advisor DATE 4/4/12

Type or print name David Stewart E-mail address: david_stewart@oxy.com PHONE: 432-685-5717

For State Use Only

APPROVED BY: J. P. Shepard TITLE Geologist DATE 4/9/2012

Conditions of Approval (if any):

UPDATE Form C-103

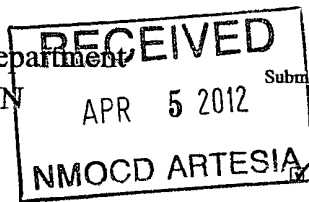
DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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



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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39856	Pool Code 96238	Pool Name Cornal Draw Bone Spring
Property Code 39045	Property Name CEDAR CANYON 16	Well Number 1H
OGRID No. 16696	Operator Name OXY U.S.A. INC.	Elevation 2927'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	24-S	29-E		380	NORTH	660	WEST	EDDY

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
M	16	24-S	29-E		808	SOUTH	660	WEST	EDDY

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

CORNER COORDINATES TABLE

Ⓐ - Y=445636.4 N, X=603837.2 E
 Ⓑ - Y=445644.1 N, X=605160.0 E
 Ⓒ - Y=442982.3 N, X=603852.3 E
 Ⓓ - Y=440328.1 N, X=603868.4 E
 Ⓔ - Y=440335.2 N, X=605192.3 E

**GEODETIC COORDINATES
NAD 27 NME**

SURFACE LOCATION
 Y=445260.4 N
 X=604499.4 E
 LAT.=32.223686° N
 LONG.=103.995411° W

BOTTOM HOLE LOCATION
 Y=441139.4 N
 X=604523.6 E

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[Signature] 4/4/12
 Signature Date
 David Stewart Res. Ado.
 Printed Name
 david_stewart@oxy.com
 E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 21, 2012

Date of Survey
 Signature & Seal of Professional Surveyor:

 Ronald E. Eidson 3/28/2012
 Certificate Number Gary Eidson 12641
 Professional Name Ronald E. Eidson 3239
 AF JWSC W.O.: 12.11.0614

Amended APD - API No. 30-015-39856

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Cedar Canyon 16 #1H	39045
Pool Name/Number:	Corral Draw Bone Spring	96238
Surface Location:	380 FNL 660 FWL D Sec 16 T24S R29E	
Bottom Hole Location:	808 FSL 660 FWL M Sec 16 T24S R29E	

C-102 Plats: 3/21/12 3/28/12 4/4/12 Elevation: 2927' GL

Proposed TD: 7658' TVD 11482' TMD
 SL - Lat:32.223686 Long:103.995411 X=445260.4 Y=604499.4 NAD - 1927
 BH - Lat: Long: X=441139.4 Y=604523.6 NAD - 1927

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"	328'	13-3/8"	48	ST&C	H-40	New	1.98	4.62	2.38
				Hole filled with 8.4# Mud			770#	1730#	
12-1/4"	2970'	9-5/8"	40	LT&C	J-55	New	1.16	1.21	2.12
				Hole filled with 10.0# Mud			2570#	3950#	
8-3/4"	11482'	5-1/2"	17	LT&C	N-80	New	1.6	2.69	1.89
				Hole filled with 9.2# Mud			6280#	7740#	

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program:

- a. 13-3/8" Surface Circulate cement to surface w/ 400sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 2500# 24hr CS 150% Excess
- b. 9-5/8" Intermediate Circulate cement to surface w/ 930sx HES light PP cmt w/ 5% Salt + 3#/sx Kol-Seal + .5% Halad-344 + 1% CaCl₂ + .125#/sx Poly-E-Flake, 12.9ppg 1.88 yield 840# 24hr CS 125% Excess followed by 200sx PP cmt w/ .5% WellLife-734, 14.8ppg 1.33 yield 1343# 24hr CS 125% Excess
- c. 5-1/2" Production Cement w/ 845sx IFH cmt w/ 3#/sx Kol-Seal + .5% Halad R-322 + .3% HR-601, 11.9ppg 2.47 yield 416# 24hr CS 70% Excess followed by 970sx Super H cmt w/ 0.5 Halad 344 + 0.4% CFR 3 + 3#/sx Kol Seal + .3% HR-601 + 1#/sx Salt, 13.2ppg 1.63 yield 1817# 24hr CS 50% Excess. Calc TOC 2500'

Proposed Mud Circulation System:

<u>Depth</u>	<u>Mud Wt. ppg</u>	<u>Visc sec</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 - 328'	8.4-8.9	32-34	NC	Fresh Water/Spud Mud
328 - 2970'	9.8-10.0	28-29	NC	Brine Water
2970 - TD	9.0-9.2	50-50	8-15	LSND

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.

BOP Program:

Surface None
 Intermediate/Production 13-5/8" 10M two ram stack w/ 5M annular preventer, 10M Choke Manifold

Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>	<u>Source</u>
a. Rustler	324'	Formation	Drilling
b. Bottom Salt	2744'	Formation	Drilling
c. Delaware-Bell Canyon	2979'	Oil/Gas	Drilling
d. Delaware-Cherry Canyon	3839'	Oil/Gas	Drilling
e. Delaware-Brushy Canyon	5064'	Oil/Gas	Drilling
f. Bone Spring	6654'	Oil/Gas	Drilling
g. 1st Bone Spring	7658'	Oil/Gas	Drilling

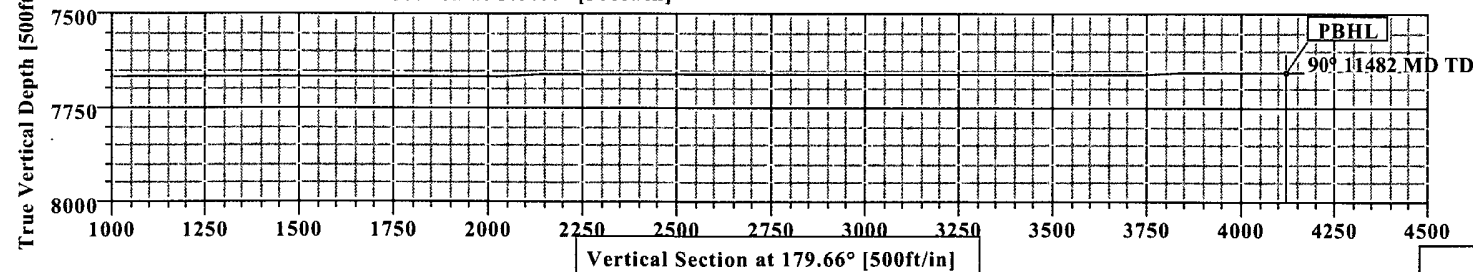
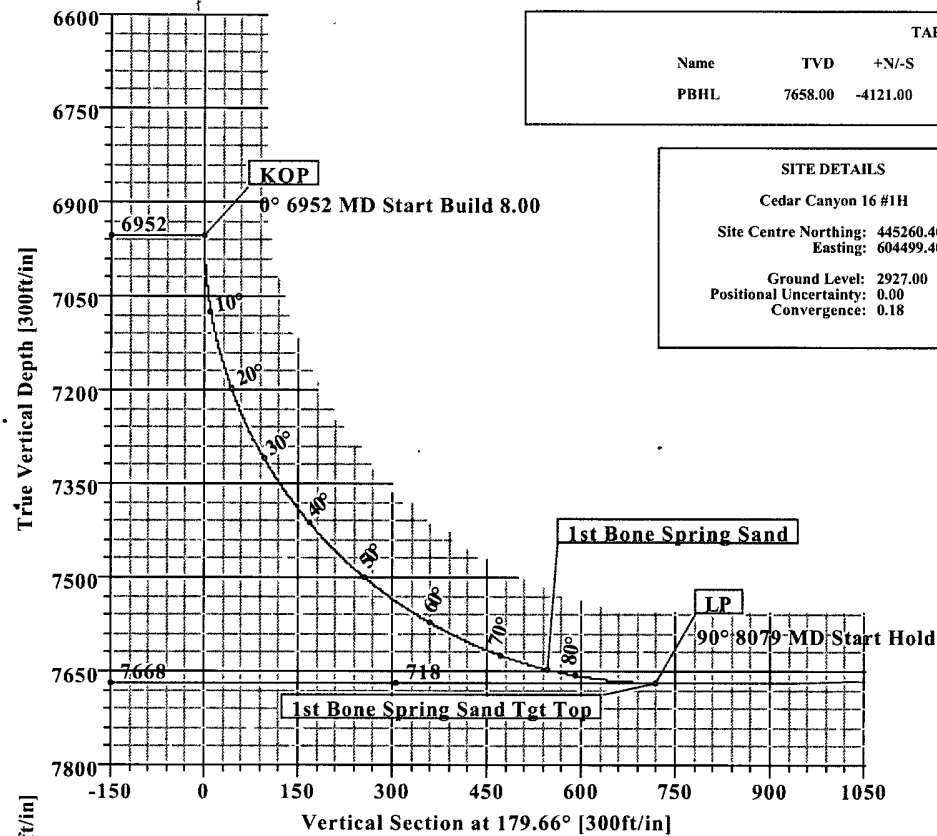


Occidental Permian Ltd.

Cedar Canyon 16 #1H
Eddy Co, New Mexico



KB ELEV: 2952
GL ELEV: 2927



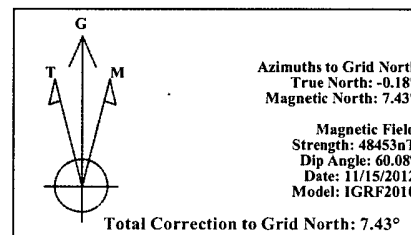
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.66	0.00	0.00	0.00	0.00	0.00	0.00	
2	6951.81	0.00	179.66	6951.81	0.00	0.00	0.00	0.00	0.00	
3	8078.91	90.17	179.66	7668.00	-718.29	4.22	8.00	179.66	718.30	
4	11481.70	90.17	179.66	7658.00	-4121.00	24.20	0.00	0.00	4121.07	PBHL

WELL DETAILS							
Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
1H	0.00	0.00	445260.40	604499.40	32°13'25.270N	103°59'43.478W	N/A

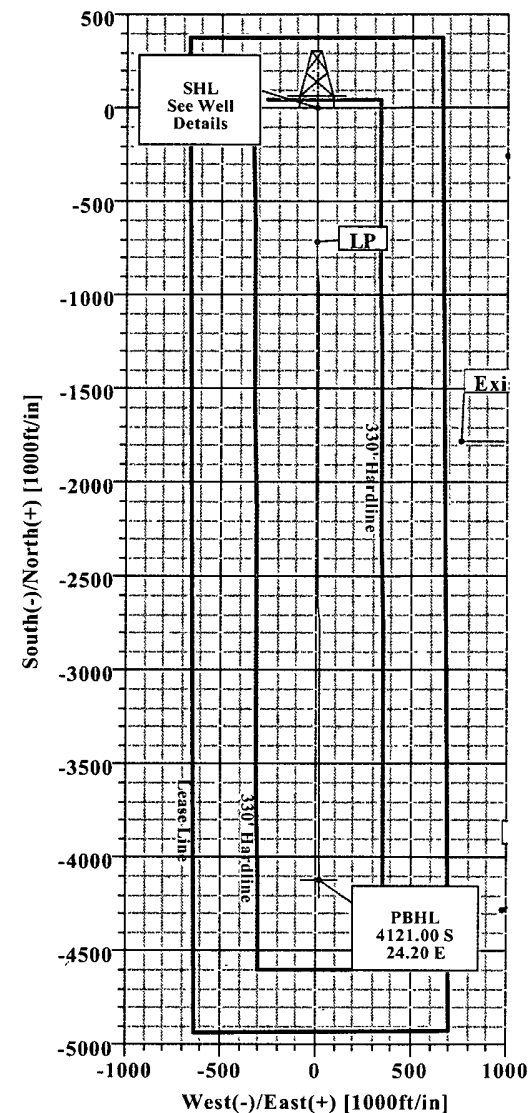
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7658.00	-4121.00	24.20	441139.40	604523.60	Point

SITE DETAILS	
Cedar Canyon 16 #1H	
Site Centre Northing:	445260.40
Easting:	604499.40
Ground Level:	2927.00
Positional Uncertainty:	0.00
Convergence:	0.18

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



LEGEND	
Exist. H Buck Sate 10 (1)	
Exist. H Buck Sate 4H (1)	
Exist. H Buck Sate 5 (1)	
Exist. H Buck Sate 3H (1)	
9 #3H (Lateral)	
9 #3H (Pilot)	
1	
Plan #3	



Weatherford

Plan: Plan #3 (1H/1)

Created By: Patrick Rudolph

Date: 3/30/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 3/30/2012	Time: 15:16:50	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: 1H, Grid North		
Site: Cedar Canyon 16 #1H	Vertical (TVD) Reference: SITE 2952.0		
Well: 1H	Section (VS) Reference: Well (0.00N, 0.00E, 179.66Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #3	Date Composed: 3/30/2012
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: Cedar Canyon 16 #1H	
Site Position:	Northing: 445260.40 ft
From: Map	Easting: 604499.40 ft
Position Uncertainty: 0.00 ft	Latitude: 32 13 25.270 N
Ground Level: 2927.00 ft	Longitude: 103 59 43.478 W
	North Reference: Grid
	Grid Convergence: 0.18 deg

Well: 1H	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 445260.40 ft
+E/-W 0.00 ft	Easting: 604499.40 ft
Position Uncertainty: 0.00 ft	Latitude: 32 13 25.270 N
	Longitude: 103 59 43.478 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 11/15/2012	Above System Datum: Mean Sea Level
Field Strength: 48453 nT	Declination: 7.61 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.08 deg
ft	+N/-S
	ft
0.00	0.00
	+E/-W
	ft
	0.00
	Direction
	deg
	179.66

Plan Section Information

MD ft	Incl deg	Azim deg	FVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	179.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6951.81	0.00	179.66	6951.81	0.00	0.00	0.00	0.00	0.00	0.00	
8078.91	90.17	179.66	7668.00	-718.29	4.22	8.00	8.00	0.00	179.66	
11481.70	90.17	179.66	7658.00	-4121.00	24.20	0.00	0.00	0.00	0.00	PBHL

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
6900.00	0.00	179.66	6900.00	0.00	0.00	0.00	0.00	445260.40	604499.40	
6951.81	0.00	179.66	6951.81	0.00	0.00	0.00	0.00	445260.40	604499.40	KOP
7000.00	3.86	179.66	6999.96	-1.62	0.01	1.62	8.00	445258.78	604499.41	
7050.00	7.86	179.66	7049.69	-6.72	0.04	6.72	8.00	445253.68	604499.44	
7100.00	11.86	179.66	7098.94	-15.28	0.09	15.28	8.00	445245.12	604499.49	
7150.00	15.86	179.66	7147.48	-27.25	0.16	27.25	8.00	445233.15	604499.56	
7200.00	19.86	179.66	7195.06	-42.58	0.25	42.58	8.00	445217.82	604499.65	
7250.00	23.86	179.66	7241.46	-61.18	0.36	61.19	8.00	445199.22	604499.76	
7300.00	27.86	179.66	7286.44	-82.98	0.49	82.99	8.00	445177.42	604499.89	
7350.00	31.86	179.66	7329.80	-107.87	0.63	107.87	8.00	445152.53	604500.03	
7400.00	35.86	179.66	7371.31	-135.72	0.80	135.72	8.00	445124.68	604500.20	
7450.00	39.86	179.66	7410.78	-166.40	0.98	166.40	8.00	445094.00	604500.38	
7500.00	43.86	179.66	7448.02	-199.75	1.17	199.75	8.00	445060.65	604500.57	
7550.00	47.86	179.66	7482.83	-235.62	1.38	235.63	8.00	445024.78	604500.78	
7600.00	51.86	179.66	7515.06	-273.83	1.61	273.84	8.00	444986.57	604501.01	
7650.00	55.86	179.66	7544.55	-314.20	1.85	314.21	8.00	444946.20	604501.25	
7700.00	59.86	179.66	7571.15	-356.53	2.09	356.53	8.00	444903.87	604501.49	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 3/30/2012	Time: 15:16:50	Page: 2
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: 1H; Grid North		
Site: Cedar Canyon 16 #1H	Vertical (TVD) Reference: SITE 2952.0		
Well: 1H	Section (VS) Reference: Well (0.00N, 0.00E, 179.66Azi)		
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
7750.00	63.86	179.66	7594.73	-400.61	2.35	400.61	8.00	444859.79	604501.75	
7800.00	67.86	179.66	7615.17	-446.22	2.62	446.23	8.00	444814.18	604502.02	
7850.00	71.86	179.66	7632.39	-493.15	2.90	493.16	8.00	444767.25	604502.30	
7900.00	75.86	179.66	7646.29	-541.17	3.18	541.18	8.00	444719.23	604502.58	
7907.14	76.43	179.66	7648.00	-548.10	3.22	548.11	8.00	444712.30	604502.62	1st Bone Spring Sa
7950.00	79.86	179.66	7656.81	-590.04	3.46	590.05	8.00	444670.36	604502.86	
8000.00	83.86	179.66	7663.89	-639.53	3.76	639.54	8.00	444620.87	604503.16	
8050.00	87.86	179.66	7667.50	-689.38	4.05	689.40	8.00	444571.02	604503.45	
8074.33	89.80	179.66	7668.00	-713.71	4.19	713.72	8.00	444546.69	604503.59	1st Bone Spring Sa
8078.91	90.17	179.66	7668.00	-718.29	4.22	718.30	8.00	444542.11	604503.62	LP
8100.00	90.17	179.66	7667.94	-739.38	4.34	739.39	0.00	444521.02	604503.74	
8200.00	90.17	179.66	7667.65	-839.38	4.93	839.39	0.00	444421.02	604504.33	
8300.00	90.17	179.66	7667.35	-939.37	5.52	939.39	0.00	444321.03	604504.92	
8400.00	90.17	179.66	7667.06	-1039.37	6.10	1039.39	0.00	444221.03	604505.50	
8500.00	90.17	179.66	7666.76	-1139.37	6.69	1139.39	0.00	444121.03	604506.09	
8600.00	90.17	179.66	7666.47	-1239.37	7.28	1239.39	0.00	444021.03	604506.68	
8700.00	90.17	179.66	7666.18	-1339.36	7.87	1339.39	0.00	443921.04	604507.27	
8800.00	90.17	179.66	7665.88	-1439.36	8.45	1439.39	0.00	443821.04	604507.85	
8900.00	90.17	179.66	7665.59	-1539.36	9.04	1539.39	0.00	443721.04	604508.44	
9000.00	90.17	179.66	7665.29	-1639.36	9.63	1639.39	0.00	443621.04	604509.03	
9100.00	90.17	179.66	7665.00	-1739.36	10.21	1739.39	0.00	443521.04	604509.61	
9200.00	90.17	179.66	7664.71	-1839.35	10.80	1839.39	0.00	443421.05	604510.20	
9300.00	90.17	179.66	7664.41	-1939.35	11.39	1939.38	0.00	443321.05	604510.79	
9400.00	90.17	179.66	7664.12	-2039.35	11.98	2039.38	0.00	443221.05	604511.38	
9500.00	90.17	179.66	7663.82	-2139.35	12.56	2139.38	0.00	443121.05	604511.96	
9600.00	90.17	179.66	7663.53	-2239.35	13.15	2239.38	0.00	443021.05	604512.55	
9700.00	90.17	179.66	7663.24	-2339.34	13.74	2339.38	0.00	442921.06	604513.14	
9800.00	90.17	179.66	7662.94	-2439.34	14.32	2439.38	0.00	442821.06	604513.72	
9900.00	90.17	179.66	7662.65	-2539.34	14.91	2539.38	0.00	442721.06	604514.31	
10000.00	90.17	179.66	7662.35	-2639.34	15.50	2639.38	0.00	442621.06	604514.90	
10100.00	90.17	179.66	7662.06	-2739.33	16.09	2739.38	0.00	442521.07	604515.49	
10200.00	90.17	179.66	7661.77	-2839.33	16.67	2839.38	0.00	442421.07	604516.07	
10300.00	90.17	179.66	7661.47	-2939.33	17.26	2939.38	0.00	442321.07	604516.66	
10400.00	90.17	179.66	7661.18	-3039.33	17.85	3039.38	0.00	442221.07	604517.25	
10500.00	90.17	179.66	7660.89	-3139.33	18.44	3139.38	0.00	442121.07	604517.84	
10600.00	90.17	179.66	7660.59	-3239.32	19.02	3239.38	0.00	442021.08	604518.42	
10700.00	90.17	179.66	7660.30	-3339.32	19.61	3339.38	0.00	441921.08	604519.01	
10800.00	90.17	179.66	7660.00	-3439.32	20.20	3439.38	0.00	441821.08	604519.60	
10900.00	90.17	179.66	7659.71	-3539.32	20.78	3539.38	0.00	441721.08	604520.18	
11000.00	90.17	179.66	7659.42	-3639.31	21.37	3639.38	0.00	441621.09	604520.77	
11100.00	90.17	179.66	7659.12	-3739.31	21.96	3739.38	0.00	441521.09	604521.36	
11200.00	90.17	179.66	7658.83	-3839.31	22.55	3839.38	0.00	441421.09	604521.95	
11300.00	90.17	179.66	7658.53	-3939.31	23.13	3939.38	0.00	441321.09	604522.53	
11400.00	90.17	179.66	7658.24	-4039.31	23.72	4039.38	0.00	441221.09	604523.12	
11481.70	90.17	179.66	7658.00	-4121.00	24.20	4121.07	0.00	441139.40	604523.60	PBHL

Targets

Name	Description	TVD	N/S	E/W	Map	Map	Latitude	Longitude
Dip	Dir.	ft	ft	ft	Northing	Easting	Deg. Min. Sec.	Deg. Min. Sec.
PBHL		7658.00	-4121.00	24.20	441139.40	604523.60	32 12 44.487 N	103 59 43.347 W



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad.27)
Site: Cedar Canyon 16 #1H
Well: 1H
Wellpath: 1

Date: 3/30/2012 Time: 15:16:50 Page: 3
Co-ordinate(NE) Reference: Well: 1H, Grid North
Vertical (TVD) Reference: SITE 2952.0
Section (VS) Reference: Well (0.00N,0.00E,179.66Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
375.00	375.00	0.000	0.000	Csg 1
2970.00	2970.00	0.000	0.000	Csg 2

Annotation

MD ft	TVD ft	
6951.81	6951.81	KOP
8078.91	7668.00	LP
11481.69	7658.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2747.00	2747.00	Base Salt		0.00	0.00
2867.00	2867.00	Base Anhydrite		0.00	0.00
2982.00	2982.00	Bell Canyon		0.00	0.00
5009.00	5009.00	Brushy Canyon		0.00	0.00
6594.00	6594.00	Bone Spring		0.00	0.00
7907.14	7648.00	1st Bone Spring Sand		0.00	0.00
8074.33	7668.00	1st Bone Spring Sand Tgt Top		0.00	0.00
	0.00	1st Bone Spring Sand Tgt Bse		0.00	0.00