

RECEIVED
AUG 27 2012
NMOCD AP

30-015-39856

OCCIDENTAL PERMIAN LTD.

Corral Draw
Eddy County, NM
Cedar Canyon 16 #1H
VH - Job #32K0612715

Survey: Gyro

SDI Standard Survey Report

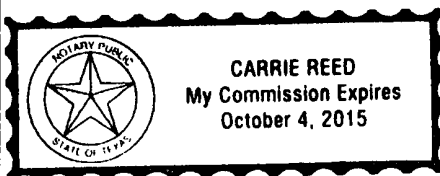
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 18th of July, 2012.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Cedar Canyon 16 #1H
Project:	Corral Draw	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	Cedar Canyon 16 #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0612715	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0612715	Database:	EDM-Regulatory

Project	Corral Draw		
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	Eddy County, NM		
Site Position:		Northing:	436,202 96 usft
From:	Lat/Long	Easting:	604,237 30 usft
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 11' 55.644 N
		Longitude:	103° 59' 46 860 W
		Grid Convergence:	0 18 °

Well	Cedar Canyon 16 #1H, Directional (Weatherford)		
Well Position	+N/-S	0 00 usft	Northing: 445,260.32 usft
	+E/-W	0 00 usft	Easting: 604,499 29 usft
Position Uncertainty	0 00 usft	Wellhead Elevation:	usft
		Latitude:	32° 13' 25 270 N
		Longitude:	103° 59' 43 480 W
		Ground Level:	0 00 usft

Wellbore	VH - Job #32K0612715				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	06/13/12	7 66	60 09	48,495

Design	VH - Job #32K0612715			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0 00	0 00	0 00	179 66

Survey Program	Date 07/22/12			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100 00	315 00	Gyro (VH - Job #32K0612715)	Keeper	Keeper Surface Readout

Survey							
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)
0.00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
100 00	0 56	281 30	100 00	0 10	-0 48	281 30	0 49
200 00	0 65	264 25	199 99	0 13	-1 52	275 05	1 53
300 00	0 70	260 73	299 99	-0 02	-2 69	269 56	2 69
315 00	0 86	256 97	314 98	-0 06	-2 89	268 80	2 89



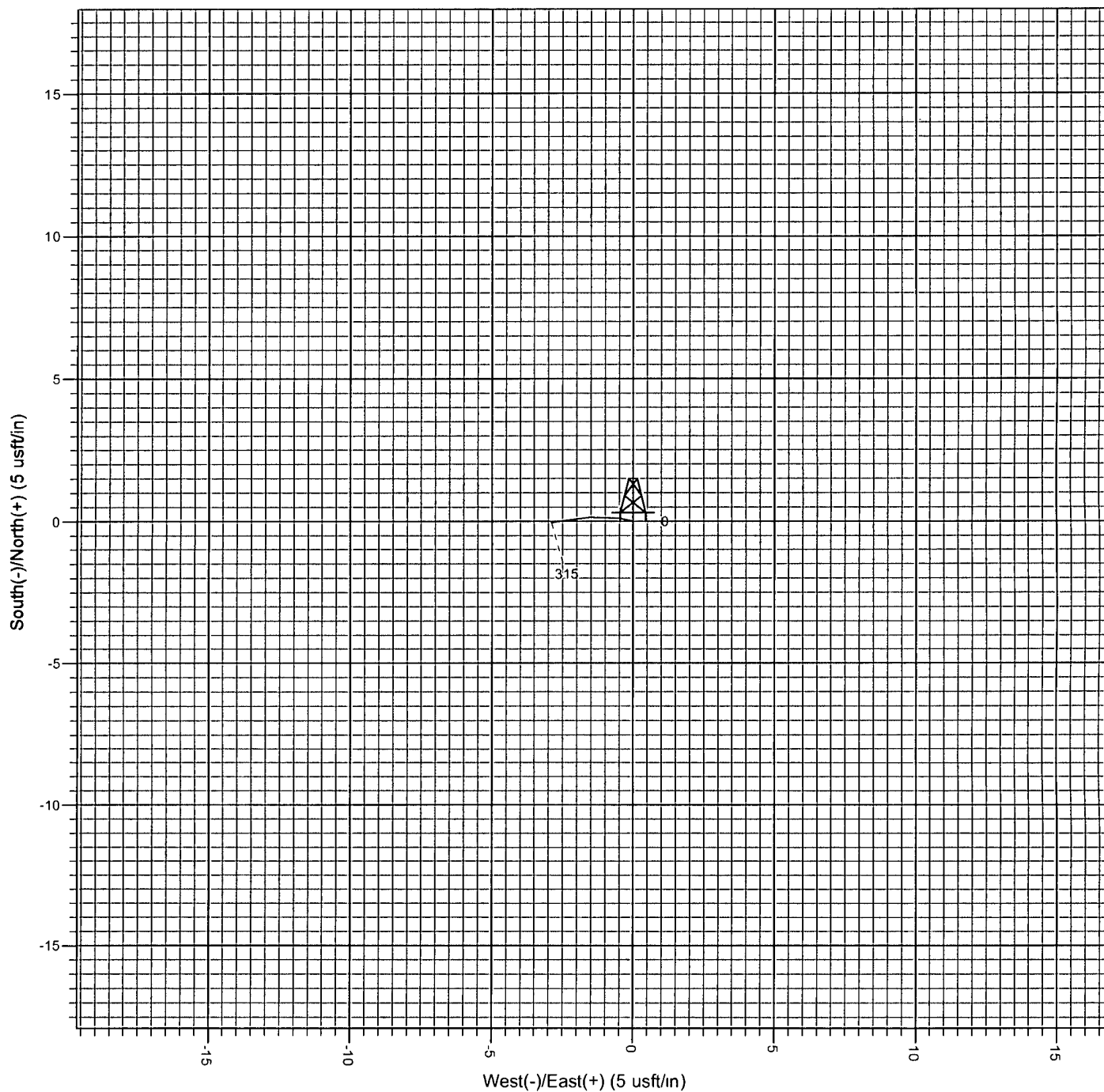
Scientific Drilling

Project: Corral Draw
Eddy County, NM
Well: Cedar Canyon 16 #1H
Wellbore: VH - Job #32K0612715
Design: VH - Job #32K0612715

WELL DETAILS: Cedar Canyon 16 #1H
WELL @ 0.00usft (Original Well Elev)

Ground Level: 0 00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	445260.32	604499.29	32° 13' 25.270 N	103° 59' 43.480 W	



PROJECT DETAILS: Corral Draw	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 11' 55.644 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 103° 59' 46.860 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.18
System Datum: Mean Sea Level	Local North: Grid



Weatherford®

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: July 9, 2012

Attention: Bradley Brown

Re: Occidental Permian Ltd
Well: Cedar Canyon 16 #1H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

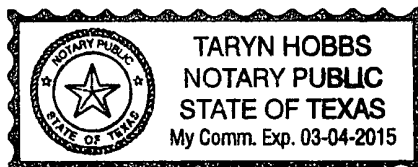
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Joe Rivera MWD Supervisor	1	424' MD 11441' MD	6-12-2012 7-05-2012	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 10th day of JULY, 2012, before me a notary public, the undersigned officer, personally appeared JESUS AGUILAR, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



Weatherford International Ltd.

WFT Survey 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: 7/5/2012 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	Time: 07:10 15 Page: 1																								
Survey: MWD Svy Start Date: 6/15/2012																										
Company: Weatherford International Ltd Engineer: Patrick Rudolph Tool: MWD,MWD - Standard Tied-to: User Defined																										
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																										
<table style="width:100%; border: none;"> <tr> <td style="width:33%;">Site Position:</td> <td style="width:33%;">Northing: 445260.40 ft</td> <td style="width:33%;">Latitude: 32 13 25 270 N</td> </tr> <tr> <td>From: Map</td> <td>Easting: 604499.40 ft</td> <td>Longitude: 103 59 43.478 W</td> </tr> <tr> <td>Position Uncertainty: 0 00 ft</td> <td></td> <td>North Reference: Grid</td> </tr> <tr> <td>Ground Level: 2927.00 ft</td> <td></td> <td>Grid Convergence: 0 18 deg</td> </tr> </table>			Site Position:	Northing: 445260.40 ft	Latitude: 32 13 25 270 N	From: Map	Easting: 604499.40 ft	Longitude: 103 59 43.478 W	Position Uncertainty: 0 00 ft		North Reference: Grid	Ground Level: 2927.00 ft		Grid Convergence: 0 18 deg												
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Wellpath: 1	Drilled From: Surface																									
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ft	+N/-S	Direction																								
	ft	deg																								
0.00	0.00	179.66																								
Survey																										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment																
315.00	0.86	256.97	314.98	-0.06	-2.89	0.00	0.04	445260.34	604496.51	Tie on Gyro																
385.00	0.60	261.50	384.98	-0.23	-3.77	0.38	0.21	445260.17	604495.63	Csg 1																
424.00	0.46	266.21	423.98	-0.27	-4.12	0.38	0.25	445260.13	604495.28	First Wft Svy																
518.00	0.50	282.84	517.97	-0.21	-4.90	0.15	0.18	445260.19	604494.50																	
612.00	0.40	255.66	611.97	-0.20	-5.62	0.25	0.16	445260.20	604493.78																	
706.00	0.49	257.61	705.97	-0.37	-6.33	0.10	0.33	445260.03	604493.07																	
799.00	0.42	251.93	798.97	-0.56	-7.04	0.09	0.51	445259.84	604492.36																	
893.00	0.47	255.55	892.96	-0.76	-7.74	0.06	0.71	445259.64	604491.66																	
987.00	0.60	244.18	986.96	-1.07	-8.56	0.18	1.02	445259.33	604490.84																	
1079.00	0.40	229.45	1078.95	-1.49	-9.24	0.26	1.43	445258.91	604490.16																	
1172.00	0.11	102.61	1171.95	-1.72	-9.40	0.51	1.66	445258.68	604490.00																	
1266.00	0.35	45.64	1265.95	-1.54	-9.10	0.32	1.48	445258.86	604490.30																	
1360.00	0.20	48.11	1359.95	-1.23	-8.77	0.16	1.18	445259.17	604490.63																	
1453.00	0.11	88.52	1452.95	-1.12	-8.56	0.15	1.07	445259.28	604490.84																	
1547.00	0.18	85.40	1546.95	-1.10	-8.33	0.07	1.05	445259.30	604491.07																	
1641.00	0.20	84.86	1640.95	-1.08	-8.02	0.02	1.03	445259.32	604491.38																	
1735.00	0.30	81.23	1734.95	-1.02	-7.61	0.11	0.98	445259.38	604491.79																	
1827.00	0.55	72.67	1826.95	-0.86	-6.95	0.28	0.81	445259.54	604492.45																	
1922.00	0.67	74.26	1921.94	-0.57	-5.98	0.13	0.53	445259.83	604493.42																	
2016.00	0.75	65.15	2015.94	-0.16	-4.89	0.15	0.13	445260.24	604494.51																	
2111.00	0.99	74.10	2110.92	0.32	-3.54	0.29	-0.35	445260.72	604495.86																	
2205.00	1.33	93.45	2204.91	0.48	-1.67	0.55	-0.49	445260.88	604497.73																	
2300.00	1.14	97.47	2299.88	0.29	0.37	0.22	-0.29	445260.69	604499.77																	
2395.00	0.52	84.42	2394.87	0.21	1.73	0.68	-0.20	445260.61	604501.13																	



Weatherford International Ltd.

WFT Survey 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: 7/5/2012 Time: 07 10 15 Page: 2
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 Dh: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2489.00	1.04	115.08	2488.86	-0.11	2.93	0.69	0.13	445260.29	604502.33	
2584.00	1.36	134.35	2583.84	-1.26	4.52	0.54	1.29	445259.14	604503.92	
2679.00	1.23	144.07	2678.82	-2.88	5.92	0.27	2.91	445257.52	604505.32	
2774.00	1.06	143.46	2773.80	-4.41	7.04	0.18	4.45	445255.99	604506.44	
2801.00	0.99	145.29	2800.80	-4.80	7.33	0.29	4.84	445255.60	604506.73	
2925.00	0.82	145.46	2924.78	-6.41	8.44	0.14	6.46	445253.99	604507.84	
2957.00	0.89	143.08	2956.78	-6.80	8.72	0.25	6.85	445253.60	604508.12	
2970.22	0.89	142.92	2970.00	-6.96	8.84	0.02	7.02	445253.44	604508.24	Csg 2
3052.00	0.90	142.28	3051.77	-7.98	9.62	0.02	8.04	445252.42	604509.02	
3146.00	0.89	132.93	3145.75	-9.06	10.60	0.16	9.12	445251.34	604510.00	
3240.00	0.77	130.86	3239.74	-9.97	11.62	0.13	10.04	445250.43	604511.02	
3335.00	0.64	128.17	3334.74	-10.72	12.52	0.14	10.79	445249.68	604511.92	
3430.00	0.74	126.57	3429.73	-11.41	13.43	0.11	11.49	445248.99	604512.83	
3524.00	0.11	14.56	3523.73	-11.68	13.94	0.84	11.77	445248.72	604513.34	
3619.00	0.27	324.96	3618.73	-11.41	13.83	0.23	11.49	445248.99	604513.23	
3714.00	0.27	349.66	3713.73	-11.01	13.66	0.12	11.09	445249.39	604513.06	
3808.00	0.11	332.72	3807.73	-10.71	13.58	0.18	10.79	445249.69	604512.98	
3903.00	0.20	347.86	3902.72	-10.47	13.50	0.10	10.55	445249.93	604512.90	
3997.00	0.32	343.52	3996.72	-10.06	13.39	0.13	10.14	445250.34	604512.79	
4092.00	0.18	322.63	4091.72	-9.68	13.23	0.17	9.76	445250.72	604512.63	
4187.00	0.18	340.47	4186.72	-9.42	13.09	0.06	9.50	445250.98	604512.49	
4282.00	0.05	29.57	4281.72	-9.25	13.06	0.16	9.32	445251.15	604512.46	
4377.00	0.20	333.93	4376.72	-9.06	13.01	0.19	9.14	445251.34	604512.41	
4471.00	0.18	329.34	4470.72	-8.79	12.86	0.03	8.86	445251.61	604512.26	
4566.00	0.30	359.81	4565.72	-8.41	12.78	0.18	8.49	445251.99	604512.18	
4660.00	0.36	355.39	4659.72	-7.87	12.76	0.07	7.95	445252.53	604512.16	
4755.00	0.40	353.04	4754.72	-7.24	12.69	0.05	7.32	445253.16	604512.09	
4849.00	0.46	351.57	4848.71	-6.54	12.60	0.06	6.62	445253.86	604512.00	
4943.00	0.46	341.28	4942.71	-5.81	12.42	0.09	5.89	445254.59	604511.82	
5038.00	0.25	331.64	5037.71	-5.27	12.20	0.23	5.34	445255.13	604511.60	
5132.00	0.20	298.49	5131.71	-5.01	11.96	0.15	5.08	445255.39	604511.36	
5227.00	0.15	300.36	5226.71	-4.87	11.71	0.05	4.94	445255.53	604511.11	
5322.00	0.27	289.09	5321.71	-4.73	11.39	0.13	4.80	445255.67	604510.79	
5416.00	0.32	290.38	5415.71	-4.57	10.93	0.05	4.63	445255.83	604510.33	
5511.00	0.33	277.07	5510.70	-4.44	10.41	0.08	4.51	445255.96	604509.81	
5606.00	0.33	258.64	5605.70	-4.46	9.87	0.11	4.52	445255.94	604509.27	
5700.00	0.32	278.79	5699.70	-4.48	9.35	0.12	4.53	445255.92	604508.75	
5794.00	0.40	262.27	5793.70	-4.48	8.76	0.14	4.53	445255.92	604508.16	
5888.00	0.53	262.92	5887.70	-4.58	8.01	0.14	4.63	445255.82	604507.41	
5983.00	0.46	251.16	5982.69	-4.76	7.21	0.13	4.80	445255.64	604506.61	
6077.00	0.53	249.80	6076.69	-5.03	6.44	0.08	5.07	445255.37	604505.84	
6172.00	0.54	244.18	6171.69	-5.37	5.63	0.06	5.41	445255.03	604505.03	
6267.00	0.64	252.93	6266.68	-5.73	4.72	0.14	5.75	445254.67	604504.12	
6362.00	0.60	310.40	6361.68	-5.56	3.83	0.63	5.58	445254.84	604503.23	
6450.00	0.40	269.96	6449.67	-5.26	3.17	0.45	5.28	445255.14	604502.57	
6545.00	0.50	267.01	6544.67	-5.28	2.43	0.11	5.30	445255.12	604501.83	
6640.00	0.73	234.73	6639.66	-5.65	1.52	0.43	5.66	445254.75	604500.92	
6735.00	0.74	245.26	6734.66	-6.26	0.47	0.14	6.26	445254.14	604499.87	
6841.00	0.82	265.70	6840.65	-6.60	-0.91	0.27	6.60	445253.80	604498.49	
6861.00	0.81	282.17	6860.65	-6.58	-1.19	1.17	6.58	445253.82	604498.21	
6892.00	0.77	267.02	6891.64	-6.55	-1.61	0.68	6.54	445253.85	604497.79	
6924.00	1.44	221.74	6923.64	-6.86	-2.09	3.29	6.85	445253.54	604497.31	



Weatherford International Ltd.

WFT Survey 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: 7/5/2012 Time: 07:10:15 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

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
6956 00	2.94	196 66	6955 61	-7 95	-2.60	5.46	7.93	445252.45	604496 80	
6987 00	5 14	188 23	6986 53	-10.08	-3.02	7 33	10 06	445250.32	604496 38	
7018 00	7 68	187.69	7017 34	-13.51	-3.50	8 20	13 49	445246 89	604495.90	
7050.00	9.78	188.16	7048 97	-18 32	-4.17	6 57	18 29	445242 08	604495 23	
7082 00	12.23	189.31	7080 37	-24 36	-5.11	7.69	24.33	445236.04	604494.29	
7113.00	14.30	189.33	7110 55	-31 37	-6.26	6.68	31.34	445229.03	604493.14	
7145.00	16.45	188.35	7141.40	-39 76	-7 56	6.77	39.71	445220.64	604491.84	
7176.00	18.36	188.39	7170.98	-48 93	-8 91	6.16	48 88	445211.47	604490 49	
7207 00	20 27	188.75	7200.23	-59 07	-10 44	6.17	59 01	445201 33	604488 96	
7238 00	22 16	189 03	7229.13	-70 15	-12 17	6.11	70 08	445190.25	604487 23	
7270.00	23 55	188 76	7258.62	-82 43	-14 09	4 36	82 35	445177.97	604485 31	
7302 00	25 25	188.19	7287.76	-95 51	-16 04	5 36	95 41	445164 89	604483.36	
7333 00	27 12	186 03	7315.58	-109 08	-17 72	6 77	108 97	445151 32	604481 68	
7364.00	29 44	184 39	7342.87	-123 70	-19 05	7 89	123.59	445136.70	604480 35	
7396 00	31.55	182.89	7370 45	-139.91	-20 07	7 01	139.79	445120.49	604479.33	
7428 00	34 10	182 11	7397.34	-157 24	-20.82	8 08	157.11	445103 16	604478.58	
7459 00	37.44	180 84	7422 48	-175.35	-21 28	11.04	175.22	445085.05	604478 12	
7491 00	40 01	180.20	7447.45	-195.36	-21 46	8 13	195.23	445065 04	604477.94	
7519.00	42.61	179 68	7468 48	-213.85	-21.44	9 37	213 71	445046.55	604477 96	
7551 00	45.92	178 88	7491 39	-236 18	-21 15	10 49	236 05	445024.22	604478.25	
7583.00	48 30	177 92	7513 17	-259 61	-20 50	7 76	259 48	445000 79	604478 90	
7614.00	50.63	176 85	7533 31	-283 14	-19.42	7 96	283 02	444977 26	604479.98	
7650 00	53 55	176.39	7555 43	-311 49	-17 74	8 17	311 38	444948 91	604481 66	
7681 00	57 35	175.99	7573.01	-336.96	-16.04	12 30	336.86	444923 44	604483 36	
7713 00	61 73	176 53	7589 23	-364 48	-14 25	13.76	364.39	444895.92	604485.15	
7745 00	66 76	176.67	7603.13	-393 24	-12.54	15.72	393.16	444867.16	604486 86	
7775 00	71 97	177 06	7613.70	-421 27	-11 00	17.41	421 19	444839 13	604488 40	
7806 00	74 97	177 19	7622.52	-450 95	-9 51	9 69	450.88	444809 45	604489 89	
7838.00	75.03	176.93	7630.80	-481 81	-7 93	0 81	481.76	444778 59	604491 47	
7869.00	76.18	177.05	7638.50	-511.80	-6 35	3 73	511.75	444748 60	604493 05	
7901 00	79 12	177.60	7645 35	-543.02	-4 89	9 34	542.98	444717 38	604494.51	
7933 00	81 26	177.83	7650 80	-574.53	-3 64	6 72	574.49	444685 87	604495 76	
7964 00	82 61	177.81	7655 15	-605.20	-2 47	4 36	605.17	444655 20	604496 93	
7996 00	84 29	178 21	7658 80	-636.97	-1 37	5 39	636 95	444623 43	604498.03	
8027 00	86 54	178.75	7661.28	-667 86	-0.55	7 46	667.84	444592 54	604498 85	
8059 00	88 29	179 32	7662 72	-699 82	-0 01	5.75	699 80	444560.58	604499 39	
8091.00	88.15	179.42	7663 71	-731 80	0 34	0.54	731 79	444528.60	604499.74	
8122 00	88 22	179 40	7664.70	-762.78	0 66	0 23	762.77	444497.62	604500.06	
8154.00	88.28	179.41	7665.67	-794.77	0.99	0 19	794 76	444465.63	604500.39	
8248 00	89.62	178 80	7667.40	-888.74	2 46	1.57	888.73	444371 66	604501 86	
8343.00	90 11	178 41	7667 62	-983 71	4 77	0 66	983 72	444276.69	604504 17	
8438 00	90.17	177 90	7667 39	-1078 66	7.83	0 54	1078.68	444181.74	604507.23	
8533.00	90.10	179 29	7667 16	-1173 63	10.16	1 47	1173.67	444086.77	604509.56	
8628 00	90.18	178.72	7666.93	-1268.61	11.81	0 61	1268.66	443991 79	604511.21	
8723.00	90.03	179.13	7666.76	-1363 59	13.59	0 46	1363.65	443896 81	604512 99	
8817 00	90 73	178.92	7666 13	-1457 58	15 19	0 78	1457.64	443802.82	604514.59	
8912 00	90.59	180 51	7665.04	-1552.57	15.67	1.68	1552 63	443707.83	604515 07	
9006.00	89 90	180 84	7664 64	-1646.56	14 56	0 81	1646.62	443613.84	604513.96	
9101 00	90.45	180 47	7664.35	-1741.55	13.47	0 70	1741 60	443518.85	604512.87	
9196 00	90 11	180 86	7663.88	-1836 54	12.37	0 54	1836 59	443423.86	604511.77	
9291.00	88 01	180 39	7665.44	-1931 52	11.33	2.27	1931.55	443328 88	604510.73	
9385 00	87 80	180 03	7668 88	-2025 46	10.99	0 44	2025 49	443234 94	604510 39	
9479 00	88 57	179.84	7671.86	-2119 41	11.10	0 84	2119.44	443140 99	604510 50	



Weatherford International Ltd.

WFT Survey 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: 7/5/2012
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

Page: 4

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
9574.00	90.80	180.13	7672.38	-2214.40	11.12	2.37	2214.43	443046.00	604510.52	
9669.00	91.50	180.02	7670.47	-2309.38	11.00	0.75	2309.41	442951.02	604510.40	
9764.00	90.94	179.56	7668.45	-2404.36	11.35	0.76	2404.38	442856.04	604510.75	
9859.00	89.06	178.91	7668.45	-2499.34	12.61	2.09	2499.38	442761.06	604512.01	
9953.00	89.90	178.60	7669.30	-2593.32	14.66	0.95	2593.36	442667.08	604514.06	
10047.00	90.38	179.01	7669.07	-2687.30	16.62	0.67	2687.35	442573.10	604516.02	
10142.00	89.27	179.22	7669.36	-2782.28	18.08	1.19	2782.34	442478.12	604517.48	
10237.00	89.69	178.56	7670.22	-2877.26	19.92	0.82	2877.33	442383.14	604519.32	
10331.00	89.48	178.99	7670.90	-2971.24	21.93	0.51	2971.31	442289.16	604521.33	
10426.00	88.78	179.62	7672.35	-3066.22	23.09	0.99	3066.30	442194.18	604522.49	
10521.00	86.82	179.91	7675.99	-3161.14	23.48	2.09	3161.23	442099.26	604522.88	
10614.00	88.35	180.06	7679.91	-3254.06	23.50	1.65	3254.14	442006.34	604522.90	
10709.00	89.26	180.47	7681.89	-3349.03	23.06	1.05	3349.11	441911.37	604522.46	
10803.00	90.11	181.15	7682.41	-3443.02	21.73	1.16	3443.09	441817.38	604521.13	
10898.00	88.70	180.06	7683.40	-3538.01	20.73	1.88	3538.07	441722.39	604520.13	
10993.00	89.96	180.25	7684.51	-3633.00	20.47	1.34	3633.06	441627.40	604519.87	
11088.00	90.87	180.06	7683.82	-3727.99	20.21	0.98	3728.05	441532.41	604519.61	
11183.00	92.28	180.14	7681.21	-3822.96	20.05	1.49	3823.01	441437.44	604519.45	
11277.00	91.78	179.86	7677.88	-3916.90	20.05	0.61	3916.95	441343.50	604519.45	
11372.00	92.00	179.27	7674.75	-4011.84	20.77	0.66	4011.89	441248.56	604520.17	
11441.00	92.41	178.83	7672.09	-4080.78	21.91	0.87	4080.84	441179.62	604521.31	Last Wft Svy
11502.00	92.41	178.83	7669.53	-4141.71	23.16	0.00	4141.78	441118.69	604522.56	Proj. to Bit

Annotation

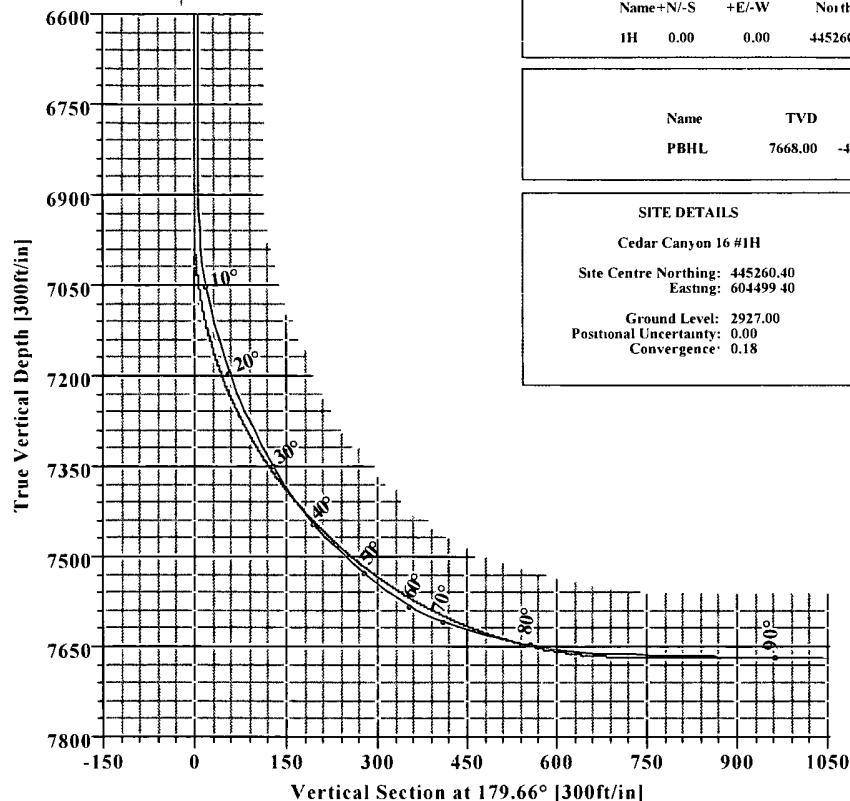
MD ft	TVD ft	
315.00	314.98	Tie on Gyro
424.00	423.98	First Wft Svy
11441.00	7672.09	Last Wft Svy
11502.00	7669.53	Proj. to Bit



Occidental Permian Ltd.

Cedar Canyon 16 #1H
Eddy Co, New Mexico

KB ELEV: 2952
GL ELEV: 2927



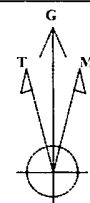
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.00	0.00	179.66	0.00	0.00	0.00	0.00	0.00	0.00
2	6951.80	0.00	179.66	6951.80	0.00	0.00	0.00	0.00	0.00
3	8076.80	90.00	179.66	7668.00	-716.18	4.21	8.00	179.66	716.20
4	11481.68	90.00	179.66	7668.00	-4121.00	24.20	0.00	0.00	4121.07
									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	7668.00	-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

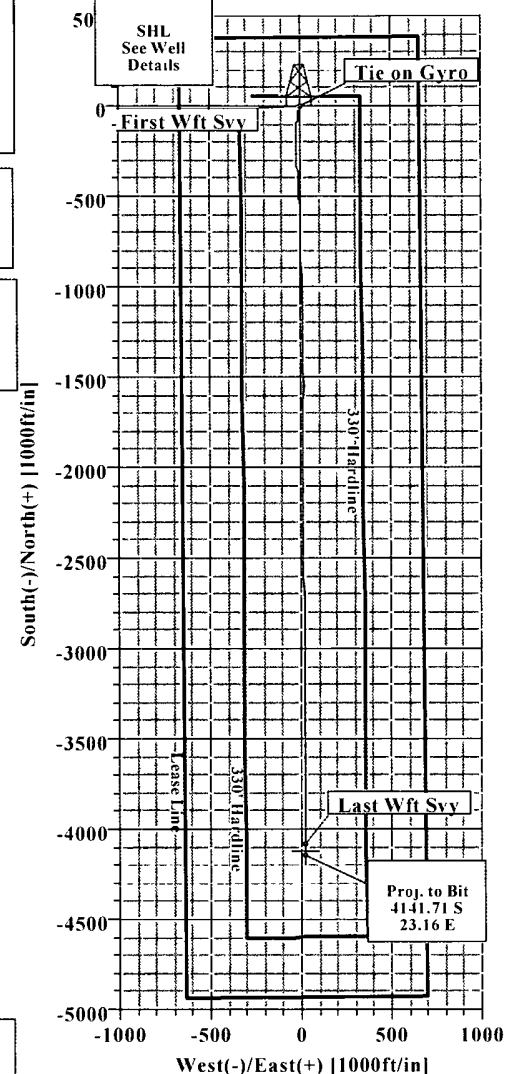
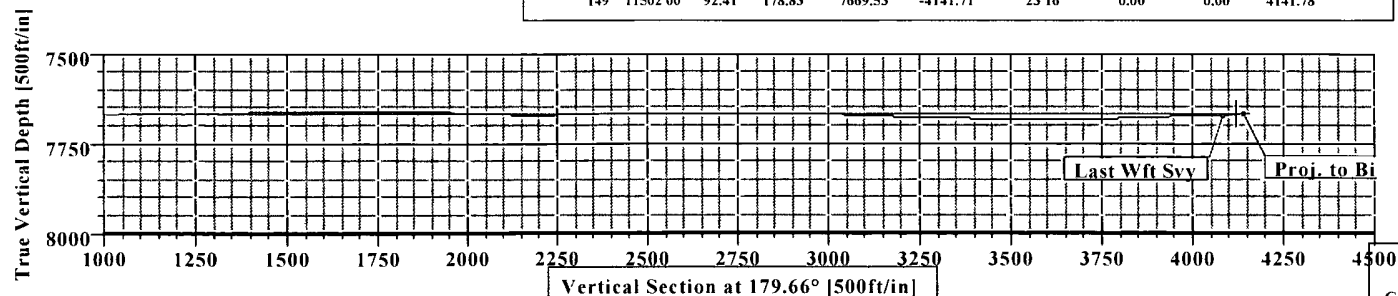


Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.48°
Magnetic Field Strength: 48.496nT
Dip Angle: 60.09°
Date: 6/11/2012
Model: IGRF2010
Total Correction to Grid North: 7.48°



Weatherford

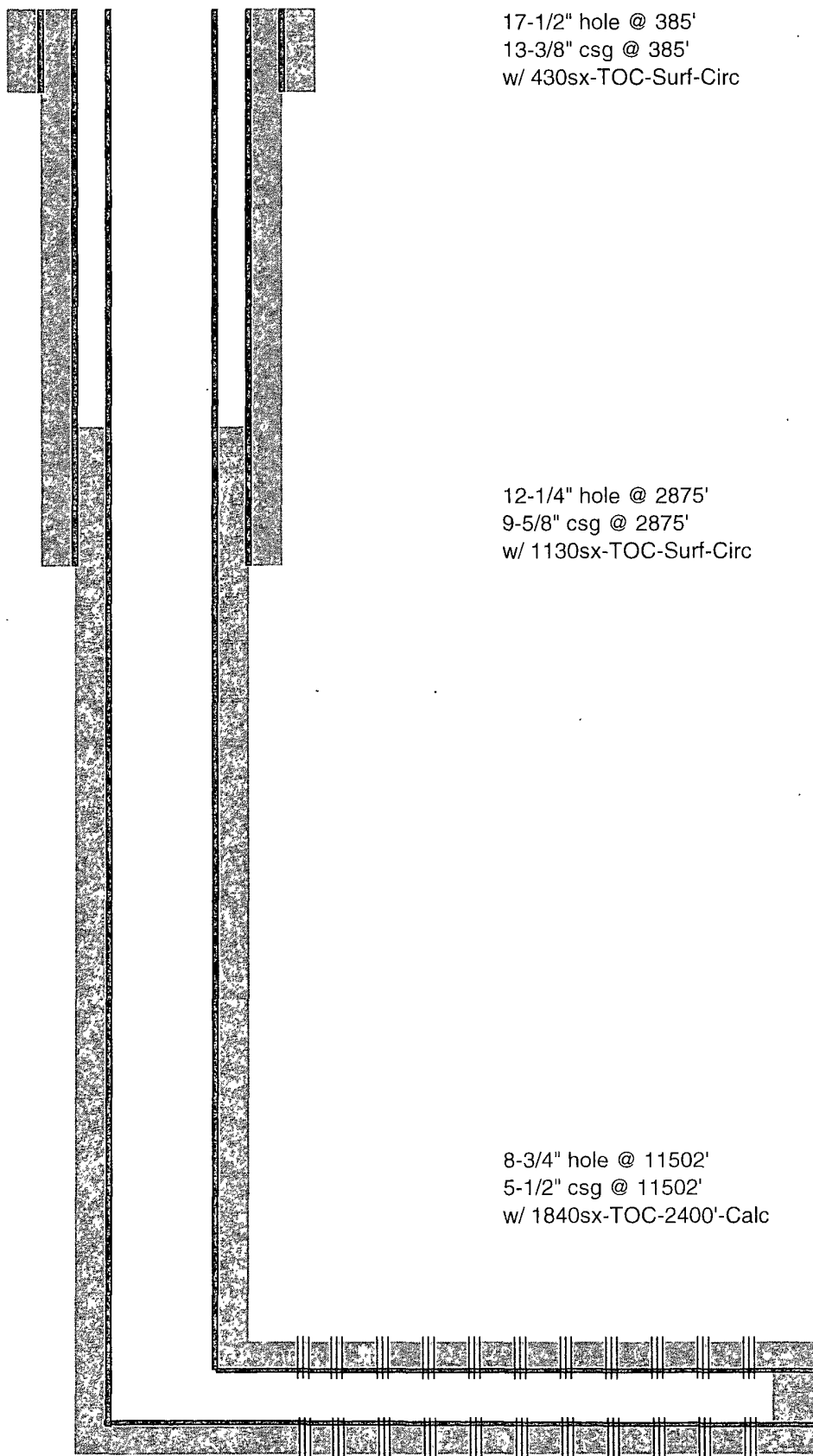
Survey: MWD Svy (1H/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
149	11502.00	92.41	178.83	7669.53	-4141.71	23.16	0.00	0.00	4141.78



LEGEND
1H.1, Plan #3
9 #3H (Lateral)
9 #3H (Pilot)
1
MWD Svy

Survey: MWD Svy (1H/1)
Created By: Patrick Rudolph
Date: 7/5/2012

OXY USA Inc.
Cedar Canyon 16 #1
API No. 30-015-39856



17-1/2" hole @ 385'
13-3/8" csg @ 385'
w/ 430sx-TOC-Surf-Circ

12-1/4" hole @ 2875'
9-5/8" csg @ 2875'
w/ 1130sx-TOC-Surf-Circ

8-3/4" hole @ 11502'
5-1/2" csg @ 11502'
w/ 1840sx-TOC-2400'-Calc

Perfs @ 8620-11201'

TD-11502'M 7685'V