



Weatherford

Evaluation, Drilling & Intervention
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Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: October 16, 2014

Attention: Lindsay Earle

Re: Occidental Permian Ltd
Well: Federal 26 #12H
Eddy County, New Mexico

3001541573

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:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Justin Nguyen MWD Supervisor	12H	987' MD 13672' MD	9/16/2014 10/7/2014	Measurement While Drilling

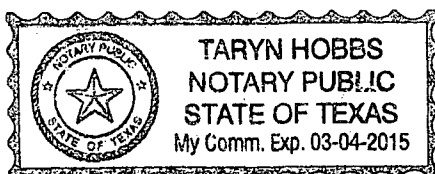
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 1st day of November, 2014, 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



NM OIL CONSERVATION
ARTESIA DISTRICT

APR 06 2015

5D Survey Report

RECEIVED

OXY USA

Field Name: *Eddy Co. (NAD27 NME)*

Site Name: *Federal 26 Fed #12H*

Well Name: *Federal 26 Fed #12H*

Survey: *Definitive Survey*

04 November 2014



Weatherford®

Federal 26 Fed #12H

Field Name Eddy Co (NAD27 NME)	Map Units : US ft		Company Name : OXY USA	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD27 / New Mexico East			
	Comment :			
Site Name Federal 26 Fed #12H	Units : US ft	North Reference : Grid	Convergence Angle : 0.32	
	Position	Northing : 499733.60 US ft	Latitude : 32° 22' 20.97"	
		Easting : 682783.70 US ft	Longitude : -103° 44' 28.67"	
	Elevation above Mean Sea Level: 3569.80 US ft		Comment :	
Slot Name Federal 26 Fed #12H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 499733.60 US ft	Latitude : 32°22'20.97"	
	+E / -W : 0.00 US ft	Easting : 682783.70 US ft	Longitude : -103°44'28.67"	
	Slot TVD Reference : Ground Elevation			
Well Name Federal 26 Fed #12H	Type : Main well		UWI :	
	Rig Height Drill Floor : 25.00 US ft		Comment :	
	Relative to Mean Sea Level: 3594.80 US ft			
	Closure Distance : 6003.34 US ft		Closure Azimuth : 180.5°	
Vertical Section (Position of Origin Relative to Site)				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 180.78°				

Target Set

Name : Federal 26 #12H **Number of Targets :** 3

Comment :

Target Name: Vertical Target Shape: Cuboid	Position (Relative to Site centre)			
	+N / -S : -338.10 US ft	Northing : 499395.50 US ft	Latitude : 32°22'17.65"	
	+E / -W : -484.78 US ft	Easting : 682298.92 US ft	Longitude : -103°44'34.34"	
	TVD (Drill Floor) : 7628.98 US ft			
Target Name: Top Pen Shape: Cuboid	Position (Relative to Site centre)			
	+N / -S : -1386.70 US ft	Northing : 498346.90 US ft	Latitude : 32°22'7.27"	
	+E / -W : -412.20 US ft	Easting : 682371.50 US ft	Longitude : -103°44'33.56"	
	TVD (Drill Floor) : 8264.80 US ft			
Orientation Azimuth : 0.00°		Inclination : 0.00°		
Dimensions Length : 0.00 US ft		Breadth : 0.00 US ft		Height : 0.00 US ft

5D Survey Report

Target Name:	Position (Relative to Site centre)		
PSHL	+N / -S : -6141.30US ft	Northing : 493592.30 US ft	Latitude : 32°21'20.21"
Shape:	+E / -W : -83.10 US ft	Easting : 682700.60US ft	Longitude : -103°44'30.03"
Cuboid	TVD (Drill Floor) : 8304.80 US ft		
	Orientation Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions Length : 0.00 US ft	Breadth : 0.00 US ft	Height : 0.00 US ft

Survey Name: Definitive Survey**Date :** 14/Aug/2014**Survey Tool :****Comment :****Company :****Magnetic Model****Model Name:** BGGM**Date:** 05/Sep/2014**Field Strength:**
48372.5 nT**Declination:** 7.47°**Dip:** 60.20°**Survey Tool Ranges**

Name	Start MD (US ft)	End MD (US ft)	Source Survey
NSG Cont	0.00	800.00	Gyro
MWD	800.00	13730.00	MWD

Well path created using minimum curvature

Survey Points (Relative to Site centre, TVD relative to Drill Floor)											
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	499733.60	682783.70	MWD	
100.00	0.94	34.66	100.00	0.67	0.47	-0.68	0.94	499734.27	682784.17	NSG Cont (Gyro)	
200.00	0.07	107.54	199.99	1.33	0.99	-1.34	0.92	499734.93	682784.69	NSG Cont (Gyro)	
300.00	0.31	233.97	299.99	1.15	0.83	-1.16	0.36	499734.75	682784.53	NSG Cont (Gyro)	
500.00	0.37	232.09	499.99	0.44	-0.12	-0.44	0.03	499734.04	682783.58	NSG Cont (Gyro)	
600.00	0.46	237.33	599.98	0.02	-0.71	-0.01	0.10	499733.62	682782.99	NSG Cont (Gyro)	
700.00	0.60	236.96	699.98	-0.48	-1.49	0.50	0.14	499733.12	682782.21	NSG Cont (Gyro)	
800.00	0.60	248.70	799.97	-0.95	-2.41	0.99	0.12	499732.65	682781.29	NSG Cont (Gyro)	
987.00	0.45	248.49	986.97	-1.58	-4.01	1.63	0.08	499732.02	682779.69	MWD (MWD)	First WFT MWD
1143.00	0.50	249.13	1142.96	-2.05	-5.21	2.12	0.03	499731.55	682778.49	MWD (MWD)	
1332.00	0.22	233.37	1331.96	-2.56	-6.28	2.64	0.16	499731.04	682777.42	MWD (MWD)	
1519.00	0.21	211.78	1518.96	-3.06	-6.74	3.15	0.04	499730.54	682776.96	MWD (MWD)	
1708.00	0.45	240.07	1707.95	-3.73	-7.57	3.83	0.15	499729.87	682776.13	MWD (MWD)	
1897.00	0.50	228.29	1896.95	-4.65	-8.83	4.77	0.06	499728.95	682774.87	MWD (MWD)	
2086.00	0.76	215.79	2085.93	-6.21	-10.18	6.35	0.15	499727.39	682773.52	MWD (MWD)	
2274.00	0.63	212.47	2273.92	-8.09	-11.46	8.25	0.07	499725.51	682772.24	MWD (MWD)	
2462.00	0.64	210.39	2461.91	-9.87	-12.55	10.04	0.01	499723.73	682771.15	MWD (MWD)	
2651.00	0.45	195.15	2650.90	-11.50	-13.28	11.68	0.13	499722.10	682770.42	MWD (MWD)	
2840.00	0.16	175.08	2839.90	-12.48	-13.45	12.66	0.16	499721.12	682770.25	MWD (MWD)	
3029.00	0.25	104.78	3028.90	-12.85	-13.03	13.02	0.13	499720.75	682770.67	MWD (MWD)	
3217.00	0.07	76.24	3216.90	-12.92	-12.52	13.09	0.10	499720.68	682771.18	MWD (MWD)	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
3405.00	0.43	193.44	3405.89	-13.59	-12.57	13.76	0.25	499720.01	682771.13	MWD	(MWD)
3594.00	1.42	140.29	3593.87	-16.06	-11.25	16.22	0.64	499717.54	682772.45	MWD	(MWD)
3689.00	2.66	131.29	3688.81	-18.43	-8.84	18.54	1.34	499715.17	682774.86	MWD	(MWD)
3783.00	2.38	141.82	3782.72	-21.40	-5.99	21.48	0.57	499712.20	682777.71	MWD	(MWD)
3877.00	1.05	159.01	3876.67	-23.74	-4.48	23.80	1.50	499709.86	682779.22	MWD	(MWD)
3970.00	1.62	152.12	3969.65	-25.69	-3.56	25.74	0.64	499707.91	682780.14	MWD	(MWD)
4064.00	2.17	137.69	4063.60	-28.19	-1.74	28.21	0.77	499705.41	682781.96	MWD	(MWD)
4158.00	1.65	133.72	4157.54	-30.44	0.44	30.43	0.57	499703.16	682784.14	MWD	(MWD)
4253.00	0.82	110.51	4252.52	-31.62	2.06	31.59	1.00	499701.98	682785.76	MWD	(MWD)
4347.00	0.56	87.15	4346.52	-31.83	3.15	31.79	0.40	499701.77	682786.85	MWD	(MWD)
4428.00	0.51	84.21	4427.51	-31.78	3.91	31.72	0.07	499701.82	682787.61	MWD	(MWD)
4621.00	0.60	61.60	4620.50	-31.21	5.65	31.13	0.12	499702.39	682789.35	MWD	(MWD)
4716.00	0.87	155.32	4715.50	-31.63	6.39	31.54	1.15	499701.97	682790.09	MWD	(MWD)
4810.00	2.34	187.77	4809.46	-34.18	6.43	34.09	1.78	499699.42	682790.13	MWD	(MWD)
4904.00	2.79	187.37	4903.37	-38.35	5.87	38.27	0.48	499695.25	682789.57	MWD	(MWD)
4999.00	3.50	196.57	4998.22	-43.42	4.75	43.35	0.91	499690.18	682788.45	MWD	(MWD)
5093.00	4.86	207.87	5091.97	-49.69	2.07	49.66	1.68	499683.91	682785.77	MWD	(MWD)
5187.00	7.30	215.15	5185.44	-58.10	-3.23	58.13	2.72	499675.50	682780.47	MWD	(MWD)
5281.00	8.86	226.55	5278.51	-67.96	-11.92	68.11	2.37	499665.64	682771.78	MWD	(MWD)
5376.00	10.70	238.07	5372.13	-77.66	-24.72	77.99	2.82	499655.94	682758.98	MWD	(MWD)
5469.00	10.57	238.83	5463.53	-86.64	-39.35	87.16	0.21	499646.96	682744.35	MWD	(MWD)
5564.00	10.42	238.07	5556.95	-95.69	-54.09	96.42	0.21	499637.91	682729.61	MWD	(MWD)
5657.00	10.71	237.21	5648.37	-104.82	-68.50	105.74	0.35	499628.78	682715.20	MWD	(MWD)
5751.00	10.53	238.13	5740.76	-114.08	-83.13	115.20	0.26	499619.52	682700.57	MWD	(MWD)
5846.00	10.64	238.38	5834.14	-123.27	-97.97	124.59	0.13	499610.33	682685.73	MWD	(MWD)
5940.00	10.61	241.59	5926.53	-131.93	-112.98	133.46	0.63	499601.67	682670.72	MWD	(MWD)
6034.00	10.83	242.86	6018.89	-140.08	-128.45	141.81	0.34	499593.52	682655.25	MWD	(MWD)
6223.00	9.84	242.71	6204.82	-155.58	-158.60	157.73	0.52	499578.02	682625.10	MWD	(MWD)
6412.00	9.63	242.89	6391.10	-170.19	-187.02	172.72	0.11	499563.41	682596.68	MWD	(MWD)
6601.00	9.20	244.74	6577.55	-183.84	-214.76	186.75	0.28	499549.76	682568.94	MWD	(MWD)
6790.00	9.04	244.07	6764.17	-196.78	-241.78	200.06	0.10	499536.82	682541.92	MWD	(MWD)
6979.00	8.67	244.03	6950.91	-209.51	-267.94	213.14	0.20	499524.09	682515.76	MWD	(MWD)
7168.00	7.93	234.52	7137.94	-223.32	-291.36	227.27	0.82	499510.28	682492.34	MWD	(MWD)
7263.00	8.52	232.40	7231.96	-231.42	-302.27	235.51	0.70	499502.18	682481.43	MWD	(MWD)
7356.00	10.01	229.22	7323.75	-240.90	-313.85	245.15	1.69	499492.70	682469.85	MWD	(MWD)

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
7451.00	9.71	228.64	7417.34	-251.59	-326.12	256.00	0.33	499482.01	682457.58	MWD (MWD)	
7573.00	10.16	226.45	7537.51	-265.80	-341.64	270.43	0.48	499467.80	682442.06	MWD (MWD)	
7667.00	9.14	219.30	7630.19	-277.29	-352.38	282.06	1.67	499456.31	682431.32	MWD (MWD)	
7698.00	9.61	203.78	7660.78	-281.56	-354.98	286.37	8.27	499452.04	682428.72	MWD (MWD)	
7730.00	11.34	184.37	7692.25	-287.15	-356.30	291.97	12.20	499446.45	682427.40	MWD (MWD)	
7761.00	14.03	176.56	7722.50	-293.94	-356.31	298.76	10.27	499439.66	682427.39	MWD (MWD)	
7792.00	18.03	178.03	7752.28	-302.49	-355.92	307.30	12.97	499431.11	682427.78	MWD (MWD)	
7823.00	20.03	174.99	7781.59	-312.57	-355.29	317.38	7.20	499421.03	682428.41	MWD (MWD)	
7856.00	20.83	174.07	7812.51	-324.04	-354.19	328.83	2.61	499409.56	682429.51	MWD (MWD)	
7886.00	23.70	169.19	7840.28	-335.27	-352.50	340.04	11.37	499398.33	682431.20	MWD (MWD)	
7918.00	25.95	163.46	7869.32	-348.30	-349.30	353.02	10.29	499385.30	682434.40	MWD (MWD)	
7949.00	29.81	160.73	7896.72	-362.08	-344.83	366.74	13.11	499371.52	682438.87	MWD (MWD)	
7981.00	32.61	162.28	7924.09	-377.81	-339.58	382.40	9.10	499355.79	682444.12	MWD (MWD)	
8012.00	36.35	166.39	7949.64	-394.70	-334.87	399.22	14.20	499338.90	682448.83	MWD (MWD)	
8044.00	38.85	170.31	7974.99	-413.82	-330.95	418.29	10.81	499319.78	682452.75	MWD (MWD)	
8075.00	41.68	174.60	7998.65	-433.67	-328.34	438.10	12.78	499299.93	682455.36	MWD (MWD)	
8107.00	45.13	177.46	8021.90	-455.60	-326.84	460.01	12.41	499278.00	682456.86	MWD (MWD)	
8138.00	48.20	179.42	8043.17	-478.14	-326.23	482.53	10.92	499255.46	682457.47	MWD (MWD)	
8170.00	50.94	181.15	8063.92	-502.49	-326.36	506.89	9.50	499231.11	682457.34	MWD (MWD)	
8201.00	53.36	182.15	8082.94	-526.96	-327.07	531.36	8.21	499206.64	682456.63	MWD (MWD)	
8233.00	55.83	183.18	8101.48	-553.01	-328.29	557.43	8.15	499180.59	682455.41	MWD (MWD)	
8264.00	58.09	184.35	8118.38	-578.94	-330.00	583.37	7.95	499154.66	682453.70	MWD (MWD)	
8296.00	61.09	184.72	8134.58	-606.44	-332.18	610.91	9.43	499127.16	682451.52	MWD (MWD)	
8327.00	62.93	183.99	8149.13	-633.74	-334.26	638.23	6.29	499099.86	682449.44	MWD (MWD)	
8359.00	65.56	183.81	8163.03	-662.49	-336.22	667.00	8.23	499071.11	682447.48	MWD (MWD)	
8390.00	68.30	183.84	8175.18	-690.94	-338.12	695.48	8.84	499042.66	682445.58	MWD (MWD)	
8421.00	69.72	184.98	8186.28	-719.80	-340.35	724.37	5.72	499013.80	682443.35	MWD (MWD)	
8453.00	70.53	185.39	8197.16	-749.77	-343.07	754.37	2.80	498983.83	682440.63	MWD (MWD)	
8484.00	72.59	184.84	8206.97	-779.06	-345.69	783.69	6.85	498954.54	682438.01	MWD (MWD)	
8515.00	74.79	184.06	8215.67	-808.72	-347.99	813.38	7.50	498924.88	682435.71	MWD (MWD)	
8546.00	76.67	183.77	8223.31	-838.69	-350.04	843.38	6.13	498894.91	682433.66	MWD (MWD)	
8578.00	78.09	183.74	8230.30	-869.85	-352.09	874.56	4.44	498863.75	682431.61	MWD (MWD)	
8609.00	79.95	183.18	8236.21	-900.23	-353.93	904.96	6.26	498833.37	682429.77	MWD (MWD)	
8644.00	81.92	182.57	8241.72	-934.74	-355.66	939.50	5.89	498798.86	682428.04	MWD (MWD)	
8676.00	82.99	182.20	8245.92	-966.44	-356.98	971.21	3.53	498767.16	682426.72	MWD (MWD)	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
8707.00	83.49	181.39	8249.57	-997.21	-357.94	1001.99	3.06	498736.39	682425.76	MWD (MWD)	
8738.00	83.62	181.28	8253.05	-1028.00	-358.66	1032.79	0.55	498705.60	682425.04	MWD (MWD)	
8769.00	83.76	181.18	8256.46	-1058.81	-359.32	1063.60	0.55	498674.79	682424.38	MWD (MWD)	
8800.00	84.74	180.49	8259.56	-1089.65	-359.77	1094.45	3.86	498643.95	682423.93	MWD (MWD)	
8863.00	86.78	178.82	8264.22	-1152.47	-359.39	1157.26	4.18	498581.13	682424.31	MWD (MWD)	
8958.00	88.81	179.86	8267.88	-1247.39	-358.30	1252.15	2.40	498486.21	682425.40	MWD (MWD)	
8990.00	89.02	180.28	8268.48	-1279.38	-358.34	1284.14	1.47	498454.22	682425.36	MWD (MWD)	
9020.00	89.09	180.79	8268.98	-1309.38	-358.62	1314.14	1.72	498424.22	682425.08	MWD (MWD)	
9052.00	88.60	180.38	8269.62	-1341.37	-358.94	1346.13	2.00	498392.23	682424.76	MWD (MWD)	
9084.00	88.04	180.36	8270.56	-1373.35	-359.15	1378.11	1.75	498360.25	682424.55	MWD (MWD)	
9115.00	87.48	180.31	8271.77	-1404.33	-359.33	1409.09	1.81	498329.27	682424.37	MWD (MWD)	
9147.00	87.34	180.67	8273.22	-1436.29	-359.61	1441.06	1.21	498297.31	682424.09	MWD (MWD)	
9178.00	86.99	180.76	8274.75	-1467.25	-359.99	1472.02	1.17	498266.35	682423.71	MWD (MWD)	
9209.00	87.48	180.37	8276.25	-1498.22	-360.30	1502.98	2.02	498235.38	682423.40	MWD (MWD)	
9240.00	88.81	180.45	8277.25	-1529.20	-360.52	1533.96	4.30	498204.40	682423.18	MWD (MWD)	
9272.00	89.02	180.93	8277.86	-1561.19	-360.90	1565.96	1.64	498172.41	682422.80	MWD (MWD)	
9303.00	89.58	180.57	8278.24	-1592.19	-361.31	1596.96	2.15	498141.41	682422.39	MWD (MWD)	
9335.00	90.56	180.51	8278.20	-1624.18	-361.61	1628.96	3.07	498109.42	682422.09	MWD (MWD)	
9429.00	90.07	180.43	8277.68	-1718.18	-362.38	1722.95	0.53	498015.42	682421.32	MWD (MWD)	
9461.00	89.86	180.59	8277.70	-1750.18	-362.67	1754.95	0.83	497983.42	682421.03	MWD (MWD)	
9492.00	89.86	181.01	8277.78	-1781.17	-363.10	1785.95	1.35	497952.43	682420.60	MWD (MWD)	
9524.00	90.42	180.83	8277.70	-1813.17	-363.61	1817.95	1.84	497920.43	682420.09	MWD (MWD)	
9555.00	90.77	180.15	8277.38	-1844.17	-363.88	1848.95	2.47	497889.43	682419.82	MWD (MWD)	
9587.00	90.07	179.60	8277.14	-1876.17	-363.81	1880.94	2.78	497857.43	682419.89	MWD (MWD)	
9618.00	89.37	179.57	8277.29	-1907.16	-363.58	1911.94	2.26	497826.44	682420.12	MWD (MWD)	
9649.00	89.09	179.39	8277.71	-1938.16	-363.30	1942.93	1.07	497795.44	682420.40	MWD (MWD)	
9681.00	88.53	179.38	8278.37	-1970.15	-362.96	1974.91	1.75	497763.45	682420.74	MWD (MWD)	
9712.00	88.67	179.03	8279.13	-2001.14	-362.53	2005.89	1.22	497732.46	682421.17	MWD (MWD)	
9744.00	90.07	178.08	8279.48	-2033.13	-361.72	2037.86	5.29	497700.47	682421.98	MWD (MWD)	
9807.00	91.47	178.59	8278.64	-2096.09	-359.89	2100.80	2.37	497637.51	682423.81	MWD (MWD)	
9901.00	89.86	178.65	8277.55	-2190.05	-357.63	2194.72	1.71	497543.55	682426.07	MWD (MWD)	
9996.00	88.81	176.16	8278.65	-2284.94	-353.33	2289.54	2.84	497448.66	682430.37	MWD (MWD)	
10089.00	88.39	176.47	8280.92	-2377.72	-347.35	2382.23	0.56	497355.88	682436.35	MWD (MWD)	
10184.00	87.41	177.16	8284.40	-2472.51	-342.08	2476.94	1.26	497261.09	682441.62	MWD (MWD)	
10278.00	90.63	177.55	8286.01	-2566.38	-337.74	2570.74	3.45	497167.22	682445.96	MWD (MWD)	

SD Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor.)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool Comment
10372.00	89.37	177.24	8286.01	-2660.28	-333.47	2664.58	1.38	497073.32	682450.23	MWD (MWD)
10467.00	89.23	176.49	8287.17	-2755.13	-328.27	2759.35	0.80	496978.47	682455.43	MWD (MWD)
10561.00	88.46	176.95	8289.06	-2848.96	-322.90	2853.09	0.95	496884.64	682460.80	MWD (MWD)
10655.00	88.60	175.78	8291.48	-2942.74	-316.94	2946.78	1.25	496790.86	682466.76	MWD (MWD)
10748.00	88.88	174.27	8293.52	-3035.36	-308.88	3039.29	1.65	496698.24	682474.82	MWD (MWD)
10843.00	91.75	173.99	8293.00	-3129.85	-299.16	3133.64	3.04	496603.75	682484.54	MWD (MWD)
10937.00	90.28	173.21	8291.33	-3223.25	-288.69	3226.88	1.77	496510.35	682495.01	MWD (MWD)
11031.00	89.16	173.18	8291.79	-3316.59	-277.55	3320.06	1.19	496417.01	682506.15	MWD (MWD)
11126.00	88.60	173.90	8293.65	-3410.96	-266.86	3414.28	0.96	496322.64	682516.84	MWD (MWD)
11220.00	89.86	174.14	8294.91	-3504.44	-257.07	3507.62	1.36	496229.16	682526.63	MWD (MWD)
11314.00	89.72	173.36	8295.26	-3597.88	-246.84	3600.91	0.84	496135.72	682536.86	MWD (MWD)
11408.00	89.37	173.17	8296.00	-3691.23	-235.81	3694.10	0.42	496042.37	682547.89	MWD (MWD)
11501.00	91.40	173.88	8295.38	-3783.63	-225.33	3786.35	2.31	495949.97	682558.37	MWD (MWD)
11595.00	91.75	175.25	8292.80	-3877.17	-216.43	3879.75	1.50	495856.43	682567.27	MWD (MWD)
11690.00	92.31	174.99	8289.43	-3971.76	-208.35	3974.23	0.65	495761.84	682575.35	MWD (MWD)
11784.00	92.31	175.22	8285.64	-4065.34	-200.34	4067.70	0.24	495668.26	682583.36	MWD (MWD)
11879.00	92.03	174.26	8282.04	-4159.88	-191.63	4162.10	1.05	495573.72	682592.07	MWD (MWD)
11973.00	91.54	173.71	8279.12	-4253.31	-181.79	4255.39	0.78	495480.29	682601.91	MWD (MWD)
12067.00	91.96	174.11	8276.25	-4346.74	-171.82	4348.67	0.62	495386.46	682611.88	MWD (MWD)
12161.00	91.61	174.70	8273.32	-4440.24	-162.66	4442.05	0.73	495293.36	682621.04	MWD (MWD)
12256.00	91.61	175.31	8270.65	-4534.85	-154.39	4536.53	0.64	495198.75	682629.31	MWD (MWD)
12350.00	92.59	175.32	8267.20	-4628.47	-146.72	4630.04	1.04	495105.13	682636.98	MWD (MWD)
12444.00	90.91	175.64	8264.33	-4722.13	-139.31	4723.59	1.82	495011.47	682644.39	MWD (MWD)
12537.00	88.67	175.99	8264.67	-4814.87	-132.53	4816.23	2.44	494918.73	682651.17	MWD (MWD)
12632.00	89.44	176.52	8266.24	-4909.66	-126.32	4910.92	0.98	494823.94	682657.38	MWD (MWD)
12726.00	88.04	176.00	8268.31	-5003.43	-120.19	5004.60	1.59	494730.17	682663.51	MWD (MWD)
12820.00	88.11	176.08	8271.47	-5097.15	-113.71	5098.23	0.11	494636.45	682669.99	MWD (MWD)
12915.00	88.53	175.38	8274.25	-5191.85	-106.64	5192.82	0.86	494541.75	682677.06	MWD (MWD)
13009.00	90.35	176.39	8275.17	-5285.60	-99.89	5286.47	2.21	494448.00	682683.81	MWD (MWD)
13104.00	91.12	176.82	8273.95	-5380.42	-94.27	5381.21	0.93	494353.18	682689.43	MWD (MWD)
13198.00	91.54	176.97	8271.77	-5474.26	-89.18	5474.96	0.47	494259.34	682694.52	MWD (MWD)
13292.00	92.73	176.57	8268.27	-5568.04	-83.88	5568.67	1.34	494165.56	682699.82	MWD (MWD)
13386.00	93.78	176.74	8262.93	-5661.73	-78.41	5662.27	1.13	494071.87	682705.29	MWD (MWD)
13480.00	94.63	175.98	8256.04	-5755.28	-72.46	5755.74	1.21	493978.32	682711.24	MWD (MWD)
13575.00	95.54	175.65	8247.62	-5849.66	-65.55	5850.01	1.02	493883.94	682718.15	MWD (MWD)

5D Survey Report

Survey Points (Relative to Site Centre, TVD relative to Drill Floor)											
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
13672.00	96.88	174.87	8237.12	-5945.75	-57.58	5945.99	1.60	493787.85	682726.12	MWD (MWD)	Last WFT MWD
13730.00	96.88	174.87	8230.18	-6003.11	-52.44	6003.26	0.00	493730.49	682731.26	MWD (MWD)	Proj to Bit



Federal 26 Fed #12H
Eddy Co., New Mexico

GL:3569.8
KB:3594.4

Plan Data for Federal 26 Fed #12H

Site: Federal 26 Fed #12H
Unit: USFeet
Company Name: OXY USA
Position: Northing: 499733.60USft Latitude: 32.372493°
Easting: 682783.70USft Longitude: -103.741297°
North Reference: Gfid Gfid Convergence: 0.32°
Elevation Above VED: 3569.80USft

Plan Data for Federal 26 Fed #12H

Plan Point Information:

Dogleg Severity Unit: */100.00ft Position offsets from Slot centre

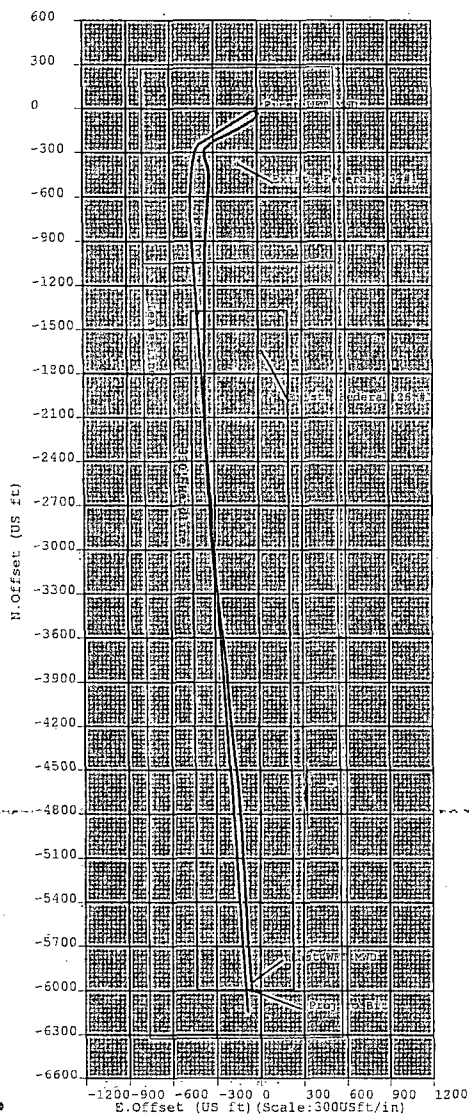
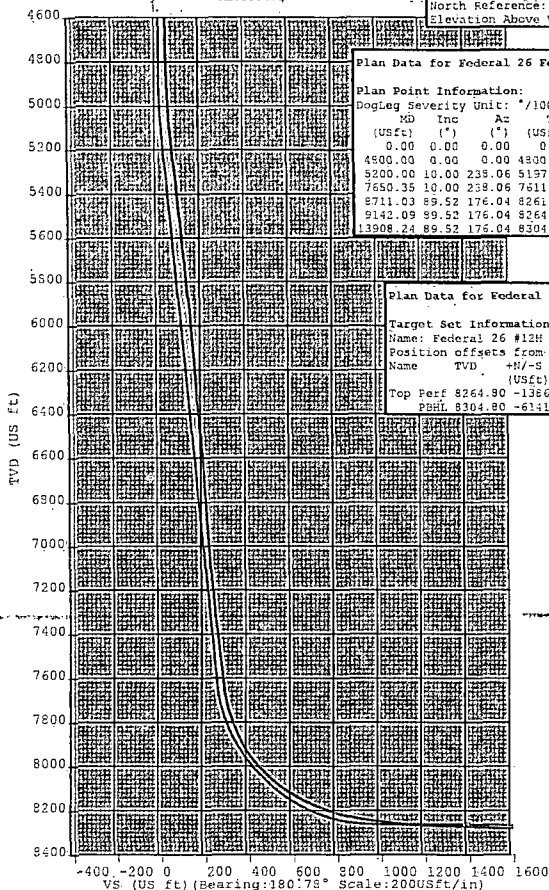
MD	Inc	Az	TVD	+N/-S	+E/-W	Lat	Long	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(°)	(°)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	32.372493	-103.741297	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	32.372493	-103.741297	0.00	0.00
5200.00	10.00	238.06	5197.97	-18.42	-29.58	32.372443	-103.741393	18.82	2.50
7650.35	10.00	238.06	7611.10	-243.52	-390.63	32.371829	-103.742567	242.82	0.00
8711.03	89.52	176.04	8261.21	-956.68	-441.93	32.369876	-103.742745	952.61	8.00
9142.09	89.52	176.04	8264.90	-1386.70	-412.20	32.369897	-103.742657	1382.18	0.00
13908.24	89.52	176.04	8304.65	-6141.31	-83.27	32.355613	-103.741677	6141.88	0.00

Plan Data for Federal 26 Fed #12H

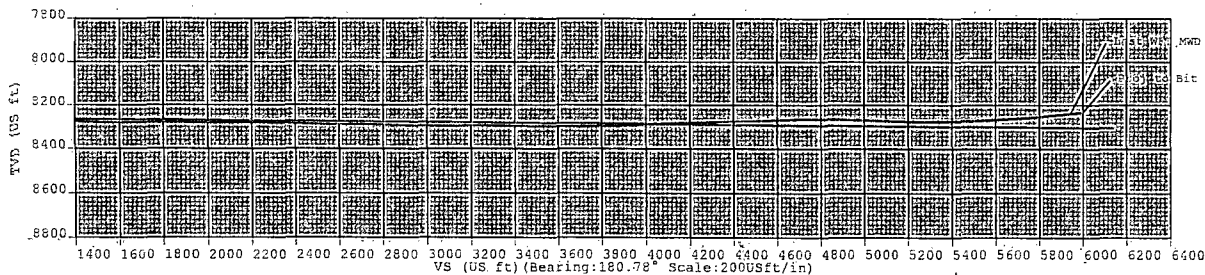
Target Set Information:

Name: Federal 26 #12H
Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
	(USft)	(USft)	(USft)	(USft)	(USft)		
Top Perf	8264.90	-1386.70	-412.20	498346.90	682371.50	Cuboid	
PBHL	8304.60	-6141.30	-83.10	493592.30	682700.60	Cuboid	



Weatherford



Drawn Off: Michael DILL