

30-015-41600



Weatherford

Evaluation, Drilling & Intervention
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Tel. (432) 561-8892 Fax (432) 561-8895

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

Date: September 9, 2014

Attention: Karina Yustiz

Re: Occidental Permian Ltd
Well: Federal 26 #13H
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:

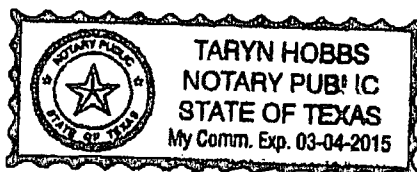
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jesus lopez	13H	948' MD	8-20-2014	Measurement
MWD Supervisor		12689' MD	9-05-2014	While Drilling

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 Aguiar
MWD Coordinator

On this, the 1st day of October, 2014, before me a notary public, the undersigned officer, personally appeared Jesus Aguiar, 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

5D Survey Report

OXY USA

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

Site Name: *Federal 26 #13H*

Well Name: *Federal 26 #13H*

Survey: *Definitive Survey*

08 September 2014



Weatherford

Federal 26 #13H

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 #13H	Units : US ft	North Reference : Grid	Convergence Angle : 0.31
	Position	Northing : 498339.60 US ft	Latitude : 32° 22' 7.28"
		Easting : 680942.60 US ft	Longitude : 103° 44' 50.23"
	Elevation above Mean Sea Level: 3574.30 US ft		
Comment :			
Slot Name Federal 26 #13H	Position (Offsets relative to Site Centre)		
	+N/-S : 0.00 US ft	Northing : 498339.60 US ft	Latitude : 32° 22' 7.28"
	+E/-W : 0.00 US ft	Easting : 680942.60 US ft	Longitude : 103° 44' 50.23"
	Slot TVD Reference : Ground Elevation		
Elevation above Mean Sea Level : 3574.30 US ft			
Comment :			
Well Name Federal 26 #13H	Type : Main well	UWI :	
	Rig Height Kelly Bushing : 25.00 US ft	Comment :	
	Relative to Mean Sea Level: 3599.30 US ft		
	Closure Distance : 4740.07 US ft	Closure Azimuth : 177.556°	
Vertical Section (Position of Origin Relative to Site)			
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 178.18°			

Target Set

Name : Federal 26 #13H Number of Targets : 1

Comment :

Target Name: CPHL Shape: Cuboid	Position (Relative to Site centre)		
	+N/-S : -4587.00 US ft	Northing : 493752.60 US ft	Latitude : 32° 21' 21.88"
	+E/-W : 145.90 US ft	Easting : 681088.50 US ft	Longitude : 103° 44' 48.82"
	TVD (Kelly Bushing) : 8299.30 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 : 01/Aug/2014 Survey Tool : Comment : Company :

Magnetic Model

Model Name: BGGM Date: 05/Jun/2014 Field Strength: 48378.5 nT Declination: 7.47° Dip: 60.21°

Survey Tool Ranges

Name	Start MD (us ft)	End MD (us ft)	Source Survey
INSg Cont	0.00	882.00	Gyro Svy
MWD	882.00	12747.00	MWD Svy

Well path created using minimum curvature

Survey Points (Relative to Site Centre, WD relative to Kelly Bushing)										
BP (USM)	BS (°)	AS (°)	WD (USM)	Depth (USM)	Depth (USM)	VS (USM)	DIS (1/1000 ft)	Northing (USM)	Easting (USM)	Survey tool Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	498339.60	680942.60	NSG Cont (Gyro Svy)
82.00	0.23	246.55	82.00	-0.07	-0.15	0.06	0.28	498339.53	680942.45	NSG Cont (Gyro Svy)
182.00	0.35	234.88	182.00	-0.32	-0.58	0.30	0.13	498339.28	680942.02	NSG Cont (Gyro Svy)
282.00	0.40	230.24	282.00	-0.72	-1.10	0.68	0.06	498338.88	680941.50	NSG Cont (Gyro Svy)
382.00	0.46	202.84	381.99	-1.31	-1.53	1.26	0.21	498338.29	680941.07	NSG Cont (Gyro Svy)
482.00	0.49	202.21	481.99	-2.08	-1.84	2.02	0.03	498337.52	680940.76	NSG Cont (Gyro Svy)
582.00	0.59	193.76	581.99	-2.98	-2.13	2.91	0.13	498336.62	680940.47	NSG Cont (Gyro Svy)
682.00	0.69	201.83	681.98	-4.03	-2.48	3.95	0.13	498335.57	680940.12	NSG Cont (Gyro Svy)
782.00	0.82	200.21	781.97	-5.26	-2.95	5.17	0.13	498334.34	680939.65	NSG Cont (Gyro Svy)
882.00	0.60	193.41	881.96	-6.45	-3.31	6.34	0.24	498333.15	680939.29	NSG Cont (Gyro Svy)
948.00	0.84	193.55	947.96	-7.25	-3.51	7.14	0.36	498332.35	680939.09	MWD (MWD Svy)
1322.00	0.89	171.07	1321.92	-12.79	-3.70	12.66	0.09	498326.81	680938.90	MWD (MWD Svy)
1700.00	0.51	146.40	1699.89	-17.09	-2.31	17.01	0.13	498322.51	680940.29	MWD (MWD Svy)
2077.00	0.29	145.70	2076.88	-19.27	-0.85	19.24	0.06	498320.33	680941.75	MWD (MWD Svy)
2455.00	0.28	131.83	2454.87	-20.68	0.38	20.68	0.02	498318.92	680942.98	MWD (MWD Svy)
2831.00	0.36	43.80	2830.87	-20.44	1.88	20.49	0.12	498319.16	680944.48	MWD (MWD Svy)
3208.00	0.63	21.01	3207.86	-17.65	3.45	17.75	0.09	498321.95	680946.05	MWD (MWD Svy)
3398.00	0.30	14.87	3397.85	-16.19	3.95	16.31	0.18	498323.41	680946.55	MWD (MWD Svy)
3586.00	0.70	89.90	3585.84	-15.72	5.22	15.87	0.37	498323.88	680947.82	MWD (MWD Svy)
3774.00	1.69	94.82	3773.80	-15.95	9.13	16.23	0.53	498323.65	680951.73	MWD (MWD Svy)
3962.00	2.30	102.60	3961.69	-17.00	15.58	17.49	0.35	498322.60	680958.18	MWD (MWD Svy)
4149.00	1.73	148.67	4148.58	-20.23	20.71	20.88	0.89	498319.37	680963.31	MWD (MWD Svy)
4338.00	1.57	147.00	4337.50	-24.84	23.60	25.58	0.09	498314.76	680966.20	MWD (MWD Svy)
4466.00	1.60	136.50	4465.45	-27.61	25.79	28.41	0.23	498311.99	680968.39	MWD (MWD Svy)
4614.00	1.11	136.55	4613.41	-30.15	28.19	31.03	0.33	498309.45	680970.79	MWD (MWD Svy)
4803.00	1.13	129.65	4802.38	-32.67	30.89	33.63	0.07	498306.93	680973.49	MWD (MWD Svy)
4990.00	0.95	132.52	4989.35	-34.89	33.45	35.94	0.10	498304.71	680976.05	MWD (MWD Svy)
5179.00	1.05	142.46	5178.32	-37.32	35.66	38.44	0.11	498302.28	680978.26	MWD (MWD Svy)
5367.00	0.84	338.80	5366.31	-37.40	36.21	38.53	1.00	498302.20	680978.81	MWD (MWD Svy)
5555.00	1.05	320.16	5554.28	-34.80	34.61	35.88	0.20	498304.80	680977.21	MWD (MWD Svy)
5745.00	1.11	312.50	5744.25	-32.22	32.14	33.22	0.08	498307.38	680974.74	MWD (MWD Svy)
5934.00	1.09	313.64	5933.21	-29.74	29.49	30.66	0.02	498309.86	680972.09	MWD (MWD Svy)
6123.00	1.01	323.69	6122.18	-27.16	27.20	28.01	0.11	498312.44	680969.80	MWD (MWD Svy)
6312.00	1.09	312.01	6311.15	-24.61	24.88	25.39	0.12	498314.99	680967.48	MWD (MWD Svy)

D. Survey Results

Survey Points (Relative to Site Centre, TD relative to Kelly Bushing)											
ND (US10)	IE (%)	AS (%)	PD (US10)	PD10 (US10)	PD100 (US10)	US (US10)	DIS (P/100 US 10)	W1000 (US10)	W1000 (US10)	Survey Tool	Comment
6499.00	1.03	325.62	6498.12	-22.03	22.61	22.74	0.14	498317.57	680965.21	MWD (MWD Svy)	
6686.00	1.07	309.47	6685.09	-19.54	20.31	20.17	0.16	498320.06	680962.91	MWD (MWD Svy)	
6874.00	0.93	305.00	6873.06	-17.54	17.70	18.10	0.09	498322.06	680960.30	MWD (MWD Svy)	
7062.00	0.89	302.39	7061.04	-15.89	15.22	16.36	0.03	498323.71	680957.82	MWD (MWD Svy)	
7251.00	0.88	295.09	7250.01	-14.49	12.67	14.88	0.06	498325.11	680955.27	MWD (MWD Svy)	
7440.00	0.35	126.77	7439.01	-14.22	11.82	14.58	0.65	498325.38	680954.42	MWD (MWD Svy)	
7567.00	1.75	131.95	7565.98	-15.74	13.57	16.17	1.10	498323.86	680956.17	MWD (MWD Svy)	
7598.00	3.39	135.28	7596.95	-16.71	14.57	17.17	5.31	498322.89	680957.17	MWD (MWD Svy)	
7629.00	5.75	138.46	7627.85	-18.53	16.24	19.03	7.65	498321.07	680958.84	MWD (MWD Svy)	
7661.00	8.24	139.87	7659.61	-21.48	18.78	22.07	7.80	498318.12	680961.38	MWD (MWD Svy)	
7692.00	9.52	145.68	7690.24	-25.30	21.66	25.97	5.04	498314.30	680964.26	MWD (MWD Svy)	
7723.00	11.58	149.13	7720.71	-30.08	24.70	30.85	6.95	498309.52	680967.30	MWD (MWD Svy)	
7755.00	13.67	147.46	7751.94	-36.03	28.38	36.91	6.63	498303.57	680970.98	MWD (MWD Svy)	
7786.00	15.07	145.27	7781.97	-42.43	32.65	43.45	4.84	498297.17	680975.25	MWD (MWD Svy)	
7818.00	17.43	145.27	7812.69	-49.79	37.75	50.96	7.37	498289.81	680980.35	MWD (MWD Svy)	
7849.00	19.37	145.99	7842.10	-57.87	43.27	59.21	6.30	498281.73	680985.87	MWD (MWD Svy)	
7881.00	21.06	147.01	7872.13	-67.09	49.37	68.62	5.39	498272.51	680991.97	MWD (MWD Svy)	
7912.00	24.07	148.29	7900.75	-77.14	55.73	78.87	9.84	498262.46	680998.33	MWD (MWD Svy)	
7944.00	26.80	148.62	7929.65	-88.85	62.92	90.81	8.54	498250.75	681005.52	MWD (MWD Svy)	
7975.00	29.77	150.18	7956.94	-101.50	70.39	103.68	9.87	498238.10	681012.99	MWD (MWD Svy)	
8007.00	32.36	153.63	7984.35	-116.07	78.14	118.49	9.82	498223.53	681020.74	MWD (MWD Svy)	
8038.00	35.34	155.09	8010.10	-131.64	85.60	134.29	9.96	498207.96	681028.20	MWD (MWD Svy)	
8070.00	38.58	156.34	8035.66	-149.17	93.51	152.07	10.39	498190.43	681036.11	MWD (MWD Svy)	
8101.00	41.13	158.60	8059.46	-167.52	101.11	170.65	9.46	498172.08	681043.71	MWD (MWD Svy)	
8132.00	44.22	160.40	8082.25	-187.21	108.46	190.56	10.72	498152.39	681051.06	MWD (MWD Svy)	
8164.00	47.69	161.52	8104.49	-208.95	115.95	212.52	11.13	498130.65	681058.55	MWD (MWD Svy)	
8195.00	50.63	163.46	8124.77	-231.31	123.00	235.10	10.60	498108.29	681065.60	MWD (MWD Svy)	
8227.00	53.31	165.20	8144.48	-255.58	129.80	259.57	9.41	498084.02	681072.40	MWD (MWD Svy)	
8259.00	56.08	168.68	8162.97	-281.01	135.69	285.18	12.40	498058.59	681078.29	MWD (MWD Svy)	
8290.00	58.37	170.66	8179.76	-306.65	140.35	310.95	9.13	498032.95	681082.95	MWD (MWD Svy)	
8321.00	60.59	173.30	8195.50	-333.09	144.07	337.50	10.25	498006.51	681086.67	MWD (MWD Svy)	
8353.00	62.70	174.58	8210.70	-361.09	147.04	365.58	7.47	497978.51	681089.64	MWD (MWD Svy)	
8384.00	65.08	173.31	8224.34	-388.77	149.98	393.34	8.51	497950.83	681092.58	MWD (MWD Svy)	
8416.00	66.58	174.21	8237.44	-417.79	153.15	422.44	5.34	497921.81	681095.75	MWD (MWD Svy)	
8447.00	69.39	174.11	8249.06	-446.38	156.08	451.11	9.07	497893.22	681098.68	MWD (MWD Svy)	

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Survey Points (Relative to Site centre TPO relative to Kelly Bushing)										
MP (US10)	NG (ft)	EG (ft)	TPO (US10)	Height (US10)	Point (US10)	VS (US10)	DIS (ft) (US10)	Height (US10)	Point (US10)	Survey/Tool Comment
8478.00	71.37	175.38	8259.47	-475.45	158.75	480.26	7.46	497864.15	681101.35	MWD (MWD Svy)
8510.00	73.08	176.86	8269.24	-505.86	160.81	510.71	6.92	497833.74	681103.41	MWD (MWD Svy)
8541.00	74.41	178.21	8277.92	-535.59	162.09	540.46	5.99	497804.01	681104.69	MWD (MWD Svy)
8573.00	76.11	178.68	8286.06	-566.52	162.93	571.41	5.50	497773.08	681105.53	MWD (MWD Svy)
8604.00	78.41	180.17	8292.89	-596.75	163.23	601.64	8.78	497742.85	681105.83	MWD (MWD Svy)
8636.00	81.06	179.65	8298.60	-628.24	163.28	633.11	8.43	497711.36	681105.88	MWD (MWD Svy)
8667.00	83.08	180.57	8302.87	-658.94	163.22	663.79	7.15	497680.66	681105.82	MWD (MWD Svy)
8699.00	85.59	180.61	8306.03	-690.78	162.89	695.60	7.84	497648.82	681105.49	MWD (MWD Svy)
8730.00	87.75	180.19	8307.83	-721.72	162.68	726.53	7.10	497617.88	681105.28	MWD (MWD Svy)
8762.00	89.02	179.42	8308.73	-753.71	162.78	758.50	4.64	497585.89	681105.38	MWD (MWD Svy)
8793.00	89.58	179.29	8309.11	-784.71	163.13	789.49	1.85	497554.89	681105.73	MWD (MWD Svy)
8825.00	89.72	179.57	8309.31	-816.70	163.45	821.48	0.98	497522.90	681106.05	MWD (MWD Svy)
8888.00	90.07	181.34	8309.42	-879.70	162.95	884.43	2.86	497459.90	681105.55	MWD (MWD Svy)
8982.00	90.00	179.83	8309.37	-973.69	161.99	978.35	1.61	497365.91	681104.59	MWD (MWD Svy)
9067.00	91.54	181.06	8308.22	-1058.68	161.33	1063.27	2.32	497280.92	681103.93	MWD (MWD Svy)
9136.00	90.56	182.22	8306.96	-1127.64	159.36	1132.13	2.20	497211.96	681101.96	MWD (MWD Svy)
9231.00	89.86	183.56	8306.61	-1222.51	154.57	1226.80	1.59	497117.09	681097.17	MWD (MWD Svy)
9325.00	90.49	183.60	8306.32	-1316.33	148.70	1320.39	0.67	497023.27	681091.30	MWD (MWD Svy)
9419.00	91.18	183.51	8304.95	-1410.14	142.87	1413.96	0.74	496929.46	681085.47	MWD (MWD Svy)
9513.00	90.00	183.30	8303.99	-1503.96	137.29	1507.56	1.28	496835.64	681079.89	MWD (MWD Svy)
9607.00	88.46	182.22	8305.25	-1597.84	132.76	1601.25	2.00	496741.76	681075.36	MWD (MWD Svy)
9702.00	87.89	179.82	8308.28	-1692.77	131.07	1696.08	2.60	496646.83	681073.67	MWD (MWD Svy)
9795.00	88.32	180.17	8311.35	-1785.72	131.08	1788.98	0.60	496553.88	681073.68	MWD (MWD Svy)
9890.00	91.05	179.81	8311.87	-1880.71	131.10	1883.92	2.90	496458.89	681073.70	MWD (MWD Svy)
9984.00	90.28	180.41	8310.78	-1974.70	130.92	1977.86	1.04	496364.90	681073.52	MWD (MWD Svy)
10078.00	91.26	180.88	8309.52	-2068.69	129.86	2071.77	1.16	496270.91	681072.46	MWD (MWD Svy)
10172.00	89.86	180.05	8308.60	-2162.67	129.09	2165.68	1.73	496176.93	681071.69	MWD (MWD Svy)
10266.00	90.14	179.58	8308.60	-2256.67	129.40	2259.64	0.58	496082.93	681072.00	MWD (MWD Svy)
10361.00	91.40	178.61	8307.32	-2351.65	130.90	2354.62	1.67	495987.95	681073.50	MWD (MWD Svy)
10455.00	89.58	179.07	8306.52	-2445.62	132.80	2448.61	2.00	495893.98	681075.40	MWD (MWD Svy)
10549.00	89.02	177.89	8307.67	-2539.58	135.29	2542.60	1.39	495800.02	681077.89	MWD (MWD Svy)
10643.00	88.88	176.32	8309.39	-2633.44	140.04	2636.56	1.68	495706.16	681082.64	MWD (MWD Svy)
10738.00	91.05	177.29	8309.45	-2728.29	145.34	2731.53	2.50	495611.31	681087.94	MWD (MWD Svy)
10832.00	92.10	176.17	8306.87	-2822.10	150.69	2825.46	1.63	495517.50	681093.29	MWD (MWD Svy)
10927.00	89.37	177.25	8305.65	-2916.92	156.15	2920.41	1.09	495422.68	681098.75	MWD (MWD Svy)

MWD Survey Report

Survey Points (Relative to Site centre, MWD relative Kelly Boring)											
Point (US ft)	NS (ft)	EW (ft)	Top (US ft)	Bottom (US ft)	Depth (US ft)	YS (US ft)	DIS (ft)	Bottom (US ft)	String (US ft)	Survey No.	Comment
11021.00	89.09	177.24	8306.91	-3010.80	160.66	3014.39	0.30	495328.80	681103.26	MWD (MWD Svy)	
11116.00	88.46	176.09	8308.94	-3105.62	166.19	3109.33	1.38	495233.98	681108.79	MWD (MWD Svy)	
11210.00	90.49	176.16	8309.80	-3199.40	172.54	3203.26	2.16	495140.20	681115.14	MWD (MWD Svy)	
11305.00	91.68	177.02	8308.00	-3294.21	178.19	3298.21	1.55	495045.39	681120.79	MWD (MWD Svy)	
11399.00	90.35	178.38	8306.34	-3388.11	181.96	3392.18	2.02	494951.49	681124.56	MWD (MWD Svy)	
11493.00	90.77	176.97	8305.42	-3482.03	185.77	3486.17	1.57	494857.57	681128.37	MWD (MWD Svy)	
11587.00	89.72	177.62	8305.02	-3575.92	190.21	3580.16	1.31	494763.68	681132.81	MWD (MWD Svy)	
11682.00	89.37	179.58	8305.77	-3670.89	192.53	3675.15	2.10	494668.71	681135.13	MWD (MWD Svy)	
11776.00	89.51	179.32	8306.69	-3764.88	193.43	3769.12	0.31	494574.72	681136.03	MWD (MWD Svy)	
11870.00	90.21	179.14	8306.92	-3858.87	194.70	3863.10	0.77	494480.73	681137.30	MWD (MWD Svy)	
11965.00	89.23	178.95	8307.38	-3953.85	196.28	3958.09	1.05	494385.75	681138.88	MWD (MWD Svy)	
12059.00	90.63	178.42	8307.50	-4047.82	198.44	4052.08	1.59	494291.78	681141.04	MWD (MWD Svy)	
12154.00	90.70	178.58	8306.40	-4142.79	200.92	4147.08	0.18	494196.81	681143.52	MWD (MWD Svy)	
12248.00	90.14	179.72	8305.71	-4236.77	202.32	4241.06	1.35	494102.83	681144.92	MWD (MWD Svy)	
12342.00	90.00	180.17	8305.59	-4330.77	202.41	4335.01	0.50	494008.83	681145.01	MWD (MWD Svy)	
12437.00	90.07	180.40	8305.54	-4425.77	201.94	4429.95	0.25	493913.83	681144.54	MWD (MWD Svy)	
12532.00	90.63	179.07	8304.95	-4520.76	202.38	4524.91	1.52	493818.84	681144.98	MWD (MWD Svy)	
12626.00	90.35	180.52	8304.15	-4614.76	202.71	4618.87	1.57	493724.84	681145.31	MWD (MWD Svy)	
12689.00	89.72	180.17	8304.11	-4677.76	202.33	4681.82	1.14	493661.84	681144.93	MWD (MWD Svy)	Last MWD Svy
12747.00	89.72	180.17	8304.40	-4735.75	202.16	4739.79	0.00	493603.85	681144.76	MWD (MWD Svy)	Proj To Bit



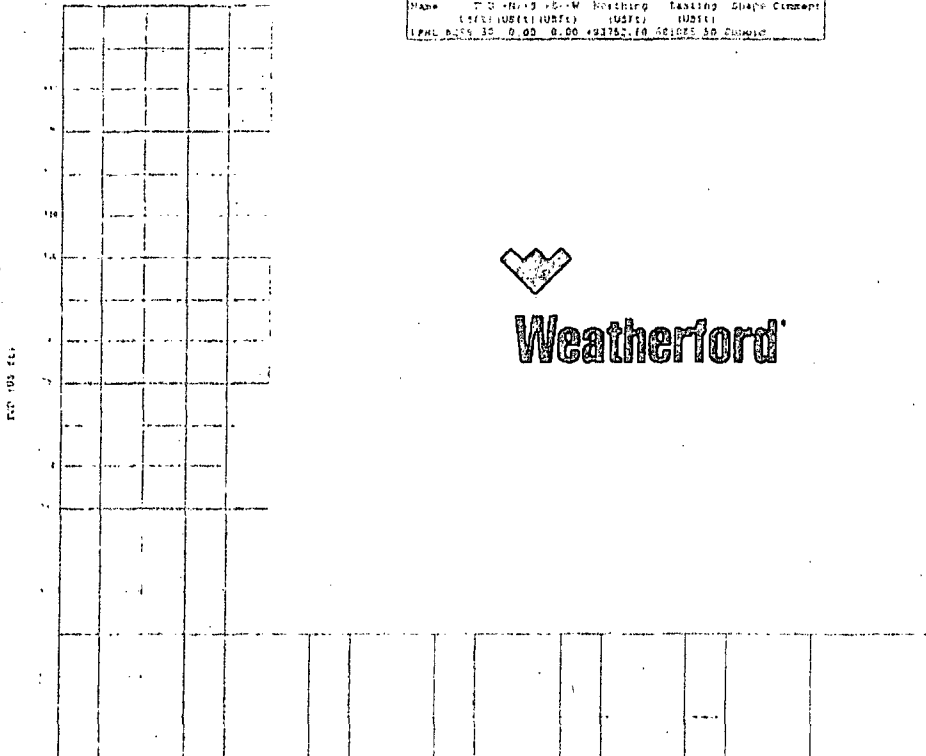
Federal 26 #13H
Eddy Co., New Mexico

Plan Data for Federal 26 #13H
Site: Federal 26 #13H
Unit: USFOT TYP Reference:
Company Name:
Location: Northing: 490329.00USIT Latitude: 37 36'49"
Easting: 480942.00USIT Longitude: -103.74'12.5"
North Reference Grid Grid Convergence: 0.31"
Elevation Above VPD: 3576.30USIT

Plan Data for Federal 26 #13H
Plan Point Information:
Display Accuracy Unit: 100.00USIT Section Offsets from Dist Centre
NO INC AS TYP -N-S 42°-W Let Long VSW RLS
USIT (') (') (USIT) (USIT) (USIT) (') (') (USIT) (USIT)
0.00 0.00 0.00 0.00 0.00 0.00 22.360129 -163.747265 0.00 0.00
1659.77 0.00 0.00 1659.77 0.00 0.00 32.366889 -163.747265 0.00 0.00
7812.33 25.00 -152.70 7812.45 -19.62 30.78 32.366824 -163.747264 49.50 8.00
8720.80 50.00 -279.74 8720.90 -721.45 126.61 32.366700 -163.746268 106.37 8.00
10150.10 90.00 -279.74 10150.30 -4587.00 141.70 32.366570 -163.746424 4509.37 0.00
12706.10 90.00 -279.74 12706.30 -2737.00 127.65 32.366566 -163.746424 4720.27 0.00

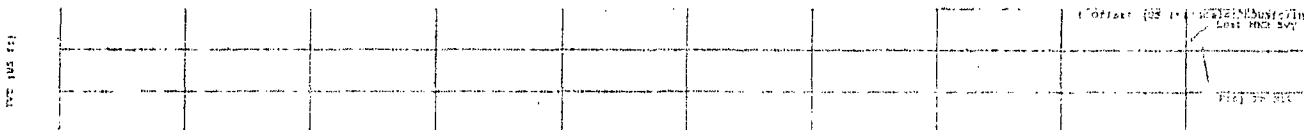
Plan Data for Federal 26 #13H
Target Set Information:
Name: Federal 26 #13H
Section Offsets from Dist Centre
Name: TYP -N-S 42°-W Northing Easting Shape Concept
USIT (USIT) (USIT) (USIT) (USIT)
1984 1614 30 0.00 0.00 -21752.10 40105.50 Summit

VD 3576.3
GI 3590.3



Side View

100 USIT Bearing 178 10° Scale: 1 USIT=10'



Plan View

VD 3576.3 Bearing: 8.31° Scale: 1 USIT=10'

High Cliff: Fatties Position

OXY USA INC.
Federal 26 #13H
API No. 30-015-41600

14-3/4" hole @ 910'
11-3/4" csg @ 900'
w/580sx-TOC-Surf-Circ.

10-5/8" hole @ 4532'
8-5/8" csg @ 4520'
w/ 1455sx-TOC-Surf-Circ.

7-7/8" hole @ 12747'
5-1/2" csg @ 12730'
DVT @ 4603'
w/ 2140sx-TOC-Surf-Circ.

2-7/8" tbg & ESP @ 7521'

Perfs @ 8671-12560'

TD- 12747'M 8304'V



Weatherford®

Surface Logging Systems

P.O. Box 80531
Midland, Texas 79708
432.687.1823 Main
432.687.1689 Fax

Logging Personnel:

THOMAS L. RAWLS

COLE B. PENCE

Unit No.: SLS - 082

Rig: H & P 477

Filename: OXY-FEDERAL-26-13H.mfw

COMPANY: OXY USA, INC.

WELL: FEDERAL 26 #13H

FIELD: LIVINGSTON RIDGE DELAWARE

COUNTY: EDDY STATE: NEW MEXICO

LOCATION: 334' FNL & 2378' FEL, SEC 26, T22S, R31E

Spud Date: 08/16/2014

Started: 08/17/2014 At: 900'

Ended: 09/09/2014 At: 12747'

Api No.: 300154160000000

G.L.: 3574.3'

K.B.: 3599.3'

Geologist: SASWATI CHAKRABORTY

Abbreviations:

NB...New Bit	DST...Drill Stem Test
CO...Circ Out	DS...Directional Survey
NRL...No Returns	CG...Connection gas
TG...Trip Gas	LAT...Logged After Trip
WOB...WT on Bit	PP...Pump Pressure
RPM...Rev/Min	SPM...Strokes/Min
SG...Survey Gas	DTG...Down Time Gas

Mud Data

Lithology Symbols:

	Anhydrite		Salt		Granite
	Siltstone		Chert		Sandstone
	Dolomite		Conglomerate		Limestone
	Coal		Shale		Bentonite
	Carb Shale		Granite Wash		Quartz Wash
	Red Sh		Org Sh		Green Sh
	Cust Sh1		Cust Sh2		Cust Sh3
	Cust Sh4		Cust Sh5		Cust Sh6

Accessories

Gas Chromatograph Analysis:

HW	-----
C1	-----
C2	-----
C3	-----
IC4	-----
NCA	-----
IC5	-----

WEATHERFORD SLS

COMPANY: OXY USA INC.

WELL: FEDERAL 26 #13H

LOCATION: 334' FNL & 2378' FEL SEC 28, T22S, R31E

COUNTY: EDDY STATE: NEW MEXICO

GL: 3574.3' KB: 3599.3'

Start Date 08/17/2014 End Date 09/09/2014

Start Depth 900' End Depth 12747'

API NO: 300154160000000

FILE: OXY-FEDERAL-26-13H.mlw

LOGGERS: THOMAS L. RAWLS, COLE B. PENCE

GEOLOGIST: SASWATI CHAKRABORTY

Sand	Dolo	Lime	Chert	Anhydrite
Shale	Carb Sh	Salt	Granite	Siltstone
Coal	Bentonite	Granite Wash	Quartz Wash	
Carb Wash	Conglomerate	Cement		

ACCESSORIES

GLAUC'C	PYRITE	FOSSILS	OOLITES	FRACTURES
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HW ----- 1 to 10000

C1 -----

C2 -----

C3 -----

IC4 -----

NC4 -----

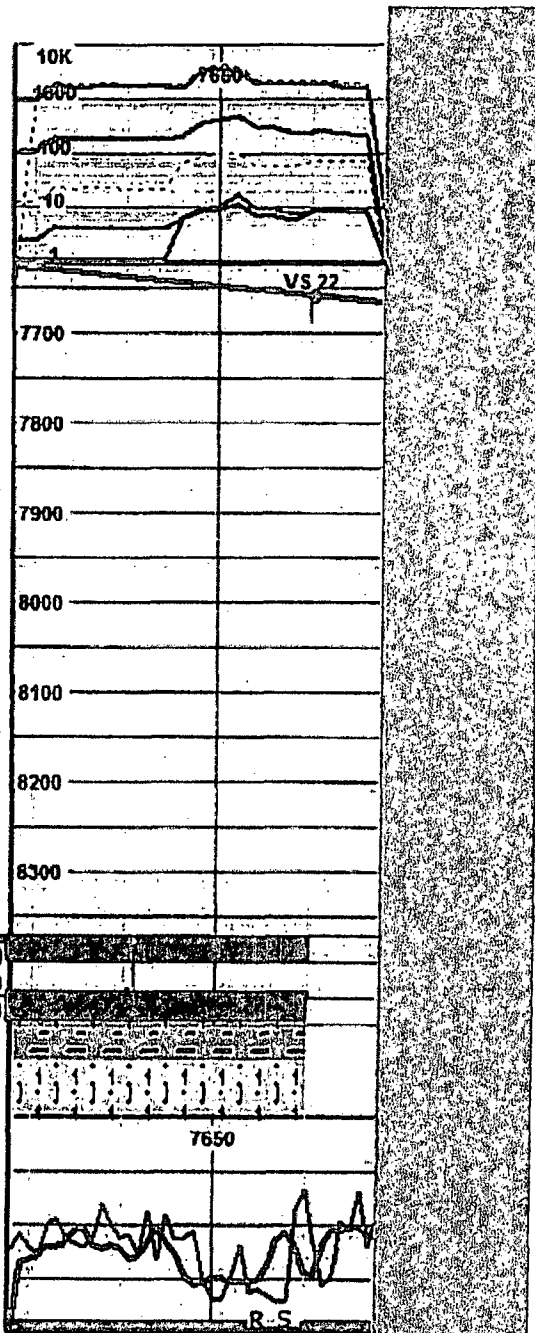
Horz -----

Rop ----- 1 to 2.5

Gamma ----- 1 to 150

CUT (PFG)
FLU 0-100% (PFG)
POR (PFG)

SLIDE



Company OXY USA, INC

Well FEDERAL 26-13H

Field LOST TANK

County EDDY

State NEW MEXICO

Location: API #: 30-015-41600

Other Services

334' FNL & 2378' FEL

NONE

SEC 26 TWP T22S RGE R31E

Elevation

Permanent Datum

Elevation 3574'

Log Measured From

KB 25

Drilling Measured From

KELLY BUSHING

K.B. 3599'

D.F. 3598

G.L 3574'

Company	OXY USA, INC
Well	FEDERAL 26-1
Field	LOST TANK
County	EDDY
State	NEW MEXICO

Date	09-25-14	9/25/2014
Run Number	ONE	TWO
Depth Driller	12747	12747
Depth Logger	8566'	8566'
Bottom Logged Interval	8565'	8565'
Top Log Interval	3000	3000'
Open Hole Size	7.875	7.875
Type Fluid	WATER	WATER
Density / Viscosity	N/A	N/A
Max. Recorded Temp.	145 DEGF	146 DEGF
Estimated Cement Top	4000'	3000'
Time Well Ready	9:00 AM	9:00 AM
Time Logger on Bottom	11:15 AM	1:15 PM
Equipment Number	93	93
Location	ANDREWS, TX	ANDREWS, TX
Recorded By	R. HERNANDEZ	R. HERNANDEZ
Witnessed By	MR. RANDY KENNEDY	MR. RANDY KENNEDY

[illegible]