



Weatherford

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

BOPCO, LP
PO Box 2760
Midland, TX 79702

Date: October 16, 2014

Attention: Kevin Burns

30-015-42651

Re: BOPCO, LP
Well: Poker Lake Unit 450Y
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:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Jermy Orona MWD Supervisor	450Y	1138 MD 16408 MD	9/16/2014 10/7/2014	Measurement While Drilling

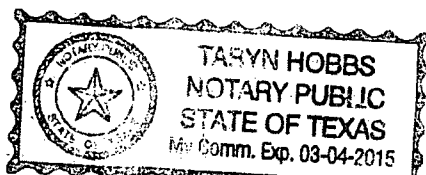
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Ops Coordinator

On this, the 4th day of November, 2014, before me a notary public, the undersigned officer, personally appeared Jesse 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.

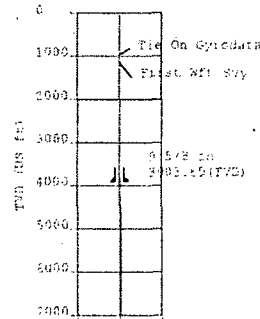
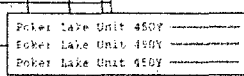
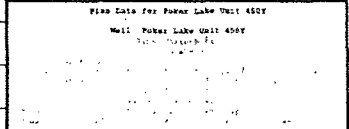
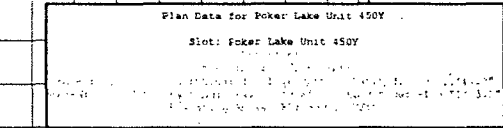
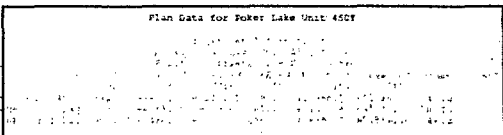
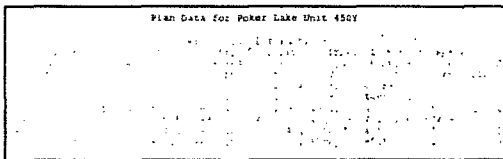
In witness hereof, I hereunto set my hand and official seal.

Notary Public

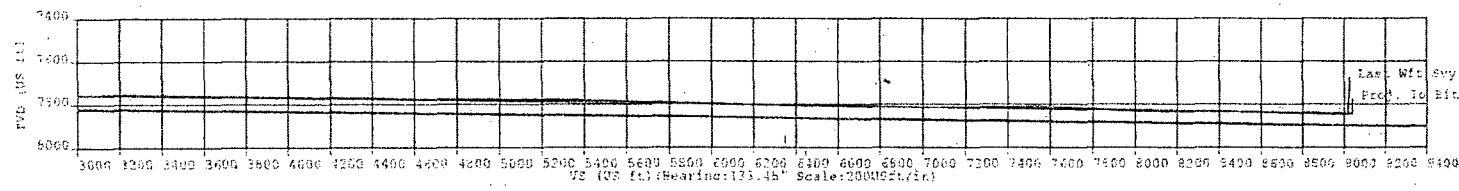
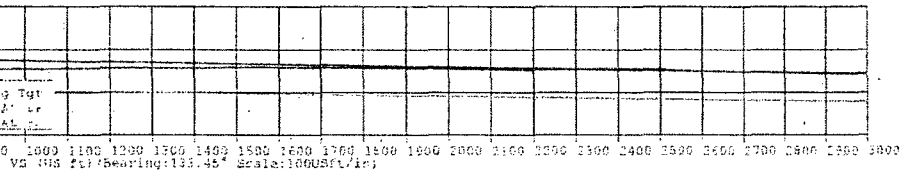
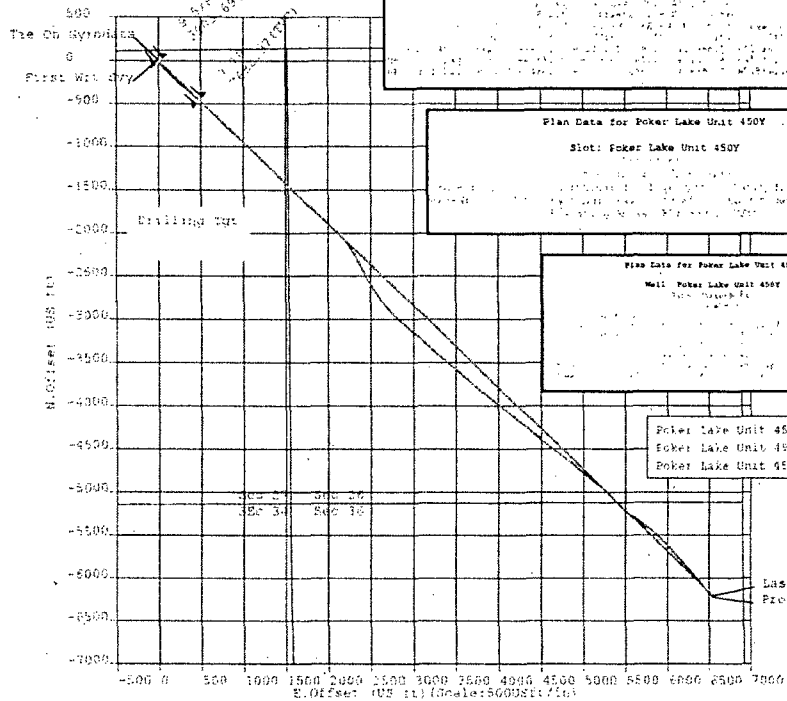
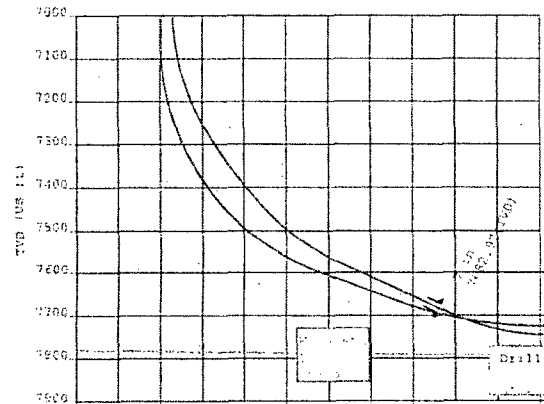


BOPCO, L.P.

Poker Lake Unit 450Y
Eddy Co, NM



VS (US ft) (Bearing: 135.45° Scale: 1000USft/1in)



Sign Off: Russell Joyner

5D Survey Report

BOPCO, L.P.

Field Name: *Eddy Co, NM Nad27 NMEZ*

Site Name: *Poker Lake Unit 450Y*

Well Name: *Poker Lake Unit 450Y*

Survey: *Wft MWD Svy*

07 October 2014



Weatherford®

Poker Lake Unit 450Y

Field Name	Map Units : US ft			Company Name : BOPCO, L.P.		
Eddy Co. NM Nad27-NMEZ	Vertical Reference Datum (VRD) : Mean Sea Level					
	Projected Coordinate System : NAD27 / New Mexico East					
	Comment :					
Site Name	Units : US ft	North Reference : Grid	Convergence Angle : 0.25			
	Position	Northing : 435213.60 US ft	Latitude : 32° 11' 44.34"			
		Easting : 644953.33 US ft	Longitude : -103° 51' 53.06"			
Poker Lake Unit 450Y	Elevation above Mean Sea Level: 3395.00 US ft					
Comment :						
Slot Name	Position (Offsets relative to Site Centre)					
	+N / -S : 0.00 US ft		Northing : 435213.60 US ft	Latitude : 32° 11' 44.34"		
	+E / -W : 0.00 US ft		Easting : 644953.33 US ft	Longitude : -103° 51' 53.06"		
Poker Lake Unit 450Y	Slot TVD Reference : Ground Elevation					
Elevation above Mean Sea Level : 3395.00 US ft						
Comment :						
Well Name	Type : Main well		UWI :			
	Rig Height Kelly Bushing : 19.00 US ft		Comment :			
	Relative to Mean Sea Level: 3414.00 US ft					
Poker Lake Unit 450Y	Closure Distance : 9040.58 US ft		Closure Azimuth : 133.509°			
Vertical Section (Position of Origin Relative to Slot)						
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 133.45°						

Target Set	
Name : Poker Lake Unit 450Y	Number of Targets : 3
Target	

Comment :

Target Name:	Position (Relative to Slot centre)					
	+N / -S : 6217.50 US ft		Northing : 428996.10 US ft	Latitude : 32° 10' 42.53"		
	+E / -W : 6562.77 US ft		Easting : 651516.10 US ft	Longitude : -103° 50' 37.01"		
Shape:	TVD (Kelly Bushing) : 7844.00 US ft					
Cuboid	Orientation Azimuth : 0.00°		Inclination : 0.00°			
	Dimensions Length : 0.00 US ft		Breadth : 0.00 US ft		Height : 0.00 US ft	
Target Name:	Position (Relative to Slot centre)					
	+N / -S : 589.77 US ft		Northing : 434623.83 US ft	Latitude : 32° 11' 38.48"		
	+E / -W : 659.41 US ft		Easting : 645612.74 US ft	Longitude : -103° 51' 45.41"		
HB 1 For Dwg	TVD (Kelly Bushing) : 7795.00 US ft					
Shape:	Orientation Azimuth : 133.63°		Inclination : -0.73°			
Cuboid	Dimensions Length : 6000.00 US ft		Breadth : 0.00 US ft		Height : 1.00 US ft	

4. Survey Report

Target Name:	Position (Relative to Slot centre)		
HB 2 For Dwg	+N/-S : -6217.50 US ft	Northing : 428996.10 US ft	Latitude : 32°10'42.53"
Shape:	+E/-W : 6562.77 US ft	Easting : 651516.10 US ft	Longitude : 103°50'37.01"
Cuboid	TVD (Kelly Bushing) : 7900.00 US ft		
	Orientation Azimuth : 133.63°	Inclination : -0.73°	
	Dimensions Length : 18000.00 US ft	Breadth : 0.00 US ft	Height : 1.00 US ft

Survey Name: Wft MWD Svy

Date : 18/Sep/2014 **Survey Tool :** MWD **Comment :** **Company :** Wft

Magnetic Model

Model Name: BGGM **Date:** 30/Sep/2014 **Field Strength:** 48219.8 nT **Declination:** 7.48° **Dip:** 60.02°

Tie Point

MD: 987 **Inclination:** 0.47 **Azimuth:** 15.02 **TVD:** 986.951 **North Offset:** 6.26171 **East Offset:** 4.86659

Casing Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	As (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
3904.00	0.40	140.64	3903.69	-2.68	5.60	435210.92	644958.93	9 5/8 in
7991.00	64.72	129.42	7682.97	-457.84	477.81	434755.76	645431.14	7 in

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	As (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	OLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
1138.00	0.70	23.13	1137.94	7.71	-4.34	-8.45	0.00	435221.31	644948.99	First Wft Svy
1327.00	0.20	18.13	1326.94	9.08	-3.79	-9.00	0.27	435222.68	644949.54	
1517.00	0.07	20.82	1516.94	9.51	-3.64	-9.18	0.07	435223.11	644949.69	
1707.00	0.64	200.42	1706.93	8.62	-3.97	-8.81	0.37	435222.22	644949.36	
1897.00	0.44	239.16	1896.92	7.25	-4.97	-8.59	0.21	435220.85	644948.36	
2087.00	0.63	280.68	2086.92	7.07	-6.62	-9.67	0.22	435220.67	644946.71	
2277.00	0.16	281.31	2276.91	7.32	-7.91	-10.77	0.25	435220.92	644945.42	
2466.00	0.07	26.10	2465.91	7.47	-8.12	-11.03	0.10	435221.07	644945.21	
2656.00	0.07	117.73	2655.91	7.52	-7.96	-10.95	0.05	435221.12	644945.37	
2846.00	0.10	178.79	2845.91	7.30	-7.86	-10.73	0.05	435220.90	644945.47	
3036.00	0.16	103.36	3035.91	7.08	-7.59	-10.38	0.09	435220.68	644945.74	
3226.00	0.50	84.71	3225.91	7.09	-6.51	-9.60	0.19	435220.69	644946.82	
3416.00	1.41	122.68	3415.88	5.91	-3.72	-6.76	0.56	435219.51	644949.61	
3606.00	2.27	133.24	3605.78	2.07	0.99	-0.70	0.48	435215.67	644954.32	
3794.00	0.99	138.79	3793.70	-1.71	4.77	4.64	0.69	435211.89	644958.10	
3897.00	0.38	141.66	3896.69	-2.64	5.57	5.86	0.59	435210.96	644958.90	
3904.00	0.40	140.64	3903.69	-2.68	5.60	5.91	0.36	435210.92	644958.93	9 5/8 in
4070.00	0.99	131.29	4069.68	-4.08	7.05	7.92	0.36	435209.52	644960.38	
4257.00	1.31	135.37	4256.64	-6.67	9.77	11.68	0.18	435206.93	644963.10	
4445.00	0.99	139.80	4444.60	-9.44	12.32	15.44	0.18	435204.16	644965.65	
4630.00	0.84	144.58	4629.58	-11.76	14.14	18.36	0.09	435201.84	644967.47	
4818.00	0.78	148.00	4817.56	-13.97	15.62	20.95	0.04	435199.63	644968.95	
5004.00	0.64	155.77	5003.55	-15.99	16.72	23.13	0.09	435197.61	644970.05	
5190.00	0.66	160.73	5189.54	-17.95	17.50	25.05	0.03	435195.65	644970.83	
5376.00	0.58	166.99	5375.52	-19.88	18.06	26.78	0.06	435193.72	644971.39	
5563.00	0.56	190.52	5562.52	-21.70	18.11	28.07	0.12	435191.90	644971.44	
5752.00	0.58	210.22	5751.51	-23.43	17.46	28.79	0.10	435190.17	644970.79	
5940.00	0.63	218.76	5939.50	-25.06	16.33	29.09	0.05	435188.54	644969.66	
6127.00	0.66	222.07	6126.48	-26.66	14.97	29.20	0.03	435186.94	644968.30	
6314.00	0.64	230.02	6313.47	-28.13	13.44	29.11	0.05	435185.47	644966.77	
6501.00	0.69	241.44	6500.46	-29.34	11.65	28.64	0.08	435184.26	644964.98	

NO Survey Points

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
ID (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)	Comment
6690.00	0.49	213.97	6689.45	-30.56	10.20	28.42	0.18	435183.04	644963.53	
6879.00	0.40	209.46	6878.44	-31.80	9.43	28.72	0.05	435181.80	644962.76	
6941.00	0.42	196.28	6940.44	-32.21	9.26	28.87	0.16	435181.39	644962.59	
7001.00	1.21	158.18	7000.44	-33.01	9.43	29.55	1.53	435180.59	644962.76	
7033.00	5.20	141.89	7032.38	-34.46	10.45	31.29	12.66	435179.14	644963.78	
7064.00	8.78	136.02	7063.15	-37.27	12.96	35.04	11.76	435176.33	644966.29	
7096.00	12.15	132.31	7094.61	-41.30	17.15	40.85	10.73	435172.30	644970.48	
7127.00	15.36	131.67	7124.72	-46.23	22.63	48.22	10.37	435167.37	644975.96	
7160.00	18.26	132.41	7156.30	-52.62	29.71	57.76	8.81	435160.98	644983.04	
7190.00	20.95	133.61	7184.56	-59.49	37.07	67.82	9.07	435154.11	644990.40	
7221.00	24.72	135.27	7213.13	-67.92	45.65	79.85	12.34	435145.68	644998.98	
7253.00	27.76	135.20	7241.83	-77.96	55.61	93.99	9.50	435135.64	645008.94	
7283.00	30.71	134.70	7268.00	-88.31	65.98	108.63	9.87	435125.29	645019.31	
7315.00	33.07	133.31	7295.17	-100.05	78.14	125.54	7.72	435113.55	645031.47	
7346.00	34.69	132.91	7320.91	-111.86	90.76	142.82	5.28	435101.74	645044.09	
7378.00	36.50	132.15	7346.93	-124.45	104.49	161.44	5.82	435089.15	645057.82	
7409.00	38.69	131.05	7371.49	-137.00	118.63	180.34	7.39	435076.60	645071.96	
7441.00	40.78	131.79	7396.09	-150.53	133.97	200.78	6.70	435063.07	645087.30	
7472.00	41.00	132.61	7419.53	-164.16	149.00	221.07	1.87	435049.44	645102.33	
7504.00	43.54	134.78	7443.21	-179.04	164.55	242.59	9.15	435034.56	645117.88	
7535.00	46.66	134.67	7465.09	-194.49	180.15	264.54	10.07	435019.11	645133.48	
7567.00	49.53	134.97	7486.46	-211.27	197.04	288.34	9.00	435002.33	645150.37	
7598.00	52.17	133.66	7506.03	-228.06	214.24	312.38	9.12	434985.54	645167.57	
7629.00	54.40	133.69	7524.56	-245.22	232.22	337.23	7.19	434968.38	645185.55	
7659.00	57.43	132.82	7541.37	-262.24	250.31	362.07	10.38	434951.36	645203.64	
7690.00	61.33	131.95	7557.16	-280.22	270.02	388.74	12.81	434933.38	645223.35	
7753.00	65.76	130.53	7585.22	-317.38	312.42	445.08	7.32	434896.22	645265.75	
7847.00	66.46	130.47	7623.29	-373.20	377.78	530.91	0.75	434840.40	645331.11	
7919.00	65.55	130.70	7652.57	-415.99	427.73	596.61	1.30	434797.61	645381.06	
7986.00	64.55	129.16	7680.83	-454.98	474.31	657.24	2.56	434758.62	645427.64	
7991.00	64.72	129.42	7682.97	-457.84	477.81	661.74	5.84	434755.76	645431.14	7 in
8018.00	65.67	130.81	7694.30	-473.63	496.55	686.21	5.84	434739.97	645449.88	
8049.00	69.65	132.12	7706.08	-492.62	518.03	714.86	13.42	434720.98	645471.36	
8079.00	72.59	133.30	7715.79	-511.87	538.88	743.24	10.48	434701.73	645492.21	
8110.00	73.29	133.72	7724.88	-532.28	560.37	772.88	2.60	434681.32	645513.70	
8141.00	77.37	134.65	7732.73	-553.18	581.87	802.86	13.48	434660.42	645535.20	
8173.00	81.21	135.41	7738.67	-575.42	604.09	834.28	12.22	434638.18	645557.42	
8204.00	84.13	135.77	7742.63	-597.38	625.60	865.00	9.49	434616.22	645578.93	
8235.00	88.46	136.60	7744.63	-619.70	647.02	895.90	14.22	434593.90	645600.35	
8297.00	90.49	135.95	7745.20	-664.50	689.87	957.81	3.44	434549.10	645643.20	
8392.00	90.25	134.06	7744.59	-731.67	757.03	1052.77	2.01	434481.93	645710.36	
8485.00	90.80	131.74	7743.73	-794.97	825.15	1145.76	2.56	434418.63	645778.48	
8578.00	90.62	130.83	7742.58	-856.33	895.03	1238.68	1.00	434357.27	645848.36	
8639.00	89.44	131.07	7742.55	-896.31	941.10	1299.62	1.97	434317.29	645894.43	
8670.00	89.32	131.50	7742.89	-916.76	964.39	1330.60	1.44	434296.84	645917.72	
8764.00	91.23	132.71	7742.43	-979.78	1034.13	1424.57	2.41	434233.82	645987.46	
8858.00	90.80	133.41	7740.77	-1043.95	1102.79	1518.55	0.87	434169.65	646056.12	
8951.00	88.89	133.00	7741.02	-1107.62	1170.58	1611.54	2.10	434105.98	646123.91	
9044.00	89.81	134.24	7742.08	-1171.77	1237.90	1704.53	1.66	434041.83	646191.23	
9138.00	89.81	132.50	7742.39	-1236.32	1306.23	1798.53	1.85	433977.28	646259.56	
9325.00	89.07	134.58	7744.22	-1365.12	1441.77	1985.51	1.18	433848.48	646395.10	
9512.00	89.57	134.12	7746.43	-1495.83	1575.48	2172.47	0.36	433717.77	646528.81	
9660.00	91.67	135.15	7744.83	-1599.80	1680.78	2320.42	1.58	433613.80	646634.11	
9847.00	87.53	131.21	7746.14	-1727.71	1817.08	2507.34	3.06	433485.89	646770.41	
10035.00	88.95	133.57	7751.91	-1854.38	1955.85	2695.20	1.46	433359.22	646909.18	
10220.00	88.77	130.51	7755.60	-1978.23	2093.21	2880.08	1.66	433235.37	647046.54	
10406.00	91.17	143.86	7755.69	-2114.35	2219.32	3065.26	7.29	433099.25	647172.65	
10595.00	89.44	150.62	7754.69	-2273.19	2321.53	3248.69	3.69	432940.41	647274.86	
10783.00	89.32	152.99	7756.72	-2438.86	2410.34	3427.10	1.26	432774.74	647363.67	

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	N.S. (US ft)	D.S. (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
10970.00	89.01	148.28	7759.45	-2601.77	2502.01	3605.69	2.52	432611.83	647455.34	
11157.00	88.52	144.07	7763.48	-2757.05	2606.05	3788.01	2.27	432456.55	647559.38	
11343.00	89.32	137.96	7766.99	-2901.53	2722.99	3972.27	3.31	432312.07	647676.32	
11530.00	89.51	130.76	7768.90	-3032.18	2856.59	4159.11	3.85	432181.42	647809.92	
11717.00	89.38	129.04	7770.71	-3152.12	3000.04	4345.74	0.92	432061.48	647953.37	
11904.00	88.15	134.72	7774.75	-3276.87	3139.18	4532.54	3.11	431936.73	648092.51	
12091.00	90.49	128.85	7776.97	-3401.41	3278.54	4719.36	3.38	431812.19	648231.87	
12277.00	89.75	127.35	7776.58	-3516.17	3424.90	4904.54	0.90	431697.43	648378.23	
12466.00	89.57	130.67	7777.70	-3635.12	3571.74	5092.94	1.76	431578.48	648525.07	
12652.00	89.26	130.51	7779.60	-3756.13	3712.98	5278.70	0.19	431457.47	648666.31	
12839.00	88.33	126.68	7783.53	-3872.74	3859.07	5464.95	2.11	431340.86	648812.40	
13026.00	88.46	128.34	7788.77	-3986.55	4007.35	5650.87	0.89	431227.05	648960.68	
13214.00	88.77	130.32	7793.31	-4105.66	4152.71	5838.32	1.07	431107.94	649106.04	
13400.00	88.46	127.39	7797.81	-4222.30	4297.50	6023.65	1.58	430991.30	649250.83	
13588.00	89.20	131.54	7801.65	-4341.75	4442.58	6211.11	2.24	430871.85	649395.91	
13774.00	88.95	127.75	7804.66	-4460.38	4585.75	6396.64	2.04	430753.22	649539.08	
13962.00	88.71	125.58	7808.49	-4572.61	4736.51	6583.27	1.16	430640.99	649689.84	
14149.00	89.20	128.08	7811.91	-4684.68	4886.16	6768.98	1.36	430528.92	649839.49	
14336.00	89.32	129.06	7814.32	-4801.26	5032.35	6955.29	0.53	430412.34	649985.68	
14522.00	90.62	126.01	7814.42	-4914.56	5179.82	7140.27	1.78	430299.04	650133.15	
14708.00	90.25	138.55	7813.00	-5039.44	5317.16	7325.85	6.74	430174.16	650270.49	
14894.00	90.74	131.76	7811.39	-5171.24	5448.24	7511.66	3.66	430042.36	650401.57	
15080.00	86.42	124.25	7816.01	-5285.63	5594.61	7696.58	4.66	429927.97	650547.94	
15262.00	86.79	124.37	7826.78	-5388.04	5744.68	7875.96	0.21	429825.56	650698.01	
15444.00	89.38	133.46	7832.88	-5502.18	5886.04	8057.08	5.19	429711.42	650839.37	
15627.00	89.88	136.71	7834.06	-5631.75	6015.23	8239.98	1.80	429581.85	650968.56	
15809.00	89.38	136.33	7835.24	-5763.81	6140.46	8421.71	0.35	429449.79	651093.79	
15991.00	89.20	137.86	7837.49	-5897.11	6264.35	8603.32	0.85	429316.49	651217.68	
16173.00	87.78	139.94	7842.29	-6034.19	6383.94	8784.42	1.38	429179.41	651337.27	
16355.00	89.44	136.93	7846.70	-6170.31	6504.64	8965.66	1.89	429043.29	651457.97	
16408.00	89.20	135.36	7847.33	-6208.52	6541.36	9018.59	3.00	429005.08	651494.69	Last Wft Svy
16430.00	89.20	135.36	7847.64	-6224.17	6556.81	9040.58	0.00	428989.43	651510.14	Proj. To Bit



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

Plan Data for Federal 26 Fed #12H

Site: Federal 26 Fed #12H
Unit: USFet
Company Name: OXY USA
Position: Easting: 494733.00USFet Latitude: 12.172463°
North Reference: Grid Grid Convergence: 0.12°
Elevation Above VPD: 1564.80USFet

513359.8
513354.8

Plan Data for Federal 26 Fed #12H

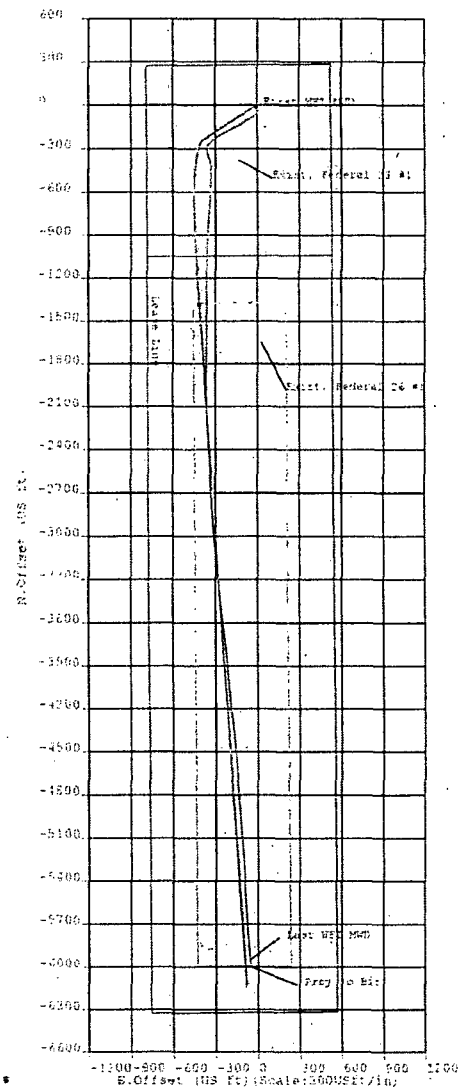
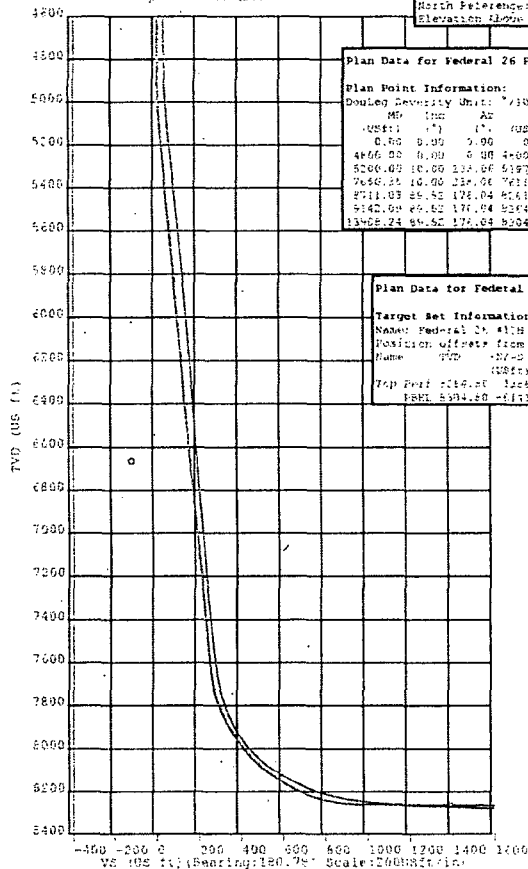
Plan Point Information:

MD	IN	AX	TVD	W/O	W/O	Lat	Long	VS	SL
USFet	USFet	USFet	USFet	USFet	USFet	USFet	USFet	USFet	USFet
0.00	0.00	0.00	0.00	0.00	0.00	12.172463	-101.741277	0.00	0.00
466.00	0.00	0.00	466.00	0.00	0.00	12.172463	-101.741277	0.00	0.00
5266.00	0.00	131.00	5135.00	131.00	131.00	12.172463	-101.741277	131.00	0.00
7656.25	10.00	131.00	7546.25	131.00	131.00	12.172463	-101.741277	131.00	0.00
8711.03	25.52	176.04	8535.51	176.04	176.04	12.172463	-101.741277	176.04	0.00
9142.00	25.52	176.04	8966.48	176.04	176.04	12.172463	-101.741277	176.04	0.00
13468.24	25.52	176.04	13242.72	176.04	176.04	12.172463	-101.741277	176.04	0.00

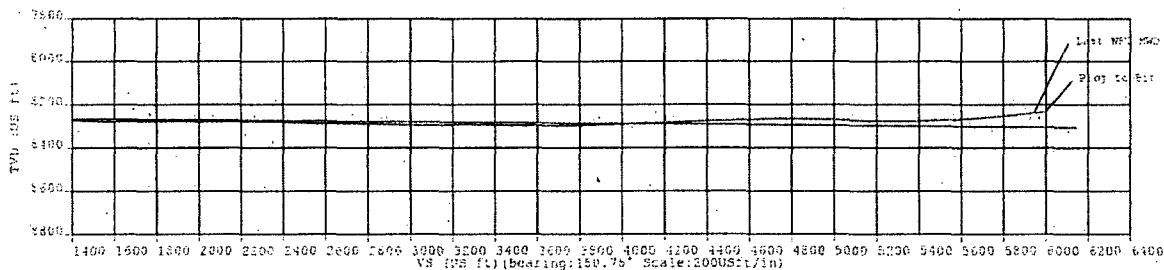
Plan Data for Federal 26 Fed #12H

Target Set Information:

Name: Federal 26 #12H
Position: offset from Slot centre
Name: TVD W/O W/O Borehole Shape Comment:
USFet USFet USFet USFet USFet
Top Port: 1140.00 1266.70 411.40 49240.40 66271.20 100010
Pore: 8394.20 1111.30 12.10 49359.30 663700.00 100010



Weatherford



Sign off: Michael O'Neil

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

BOPCO, LP

Lease: POKER LAKE FIELD Well: #450-Y, 4 1/2 INCH DRILLPIPE
Location: MCVAY DRILLING RIG #5, EDDY COUNTY, NEW MEXICO

Job Number: MD0914GDM883

Run Date: 15 Sep 2014

Report Generated: 22 Sep 2014 12:31

Surveyor: Jase Rister

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot

Survey Latitude: 32.195697 deg. N Longitude: 103.864661 deg. W

Azimuth Correction:

Gyro: -0.25000 deg to Grid North

Depth Reference: Rotary Table

Air Gap (RKB to Ground / RKB to MSL): 17.50

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

BOPCO, LP

Lease: POKER LAKE FIELD Well: #450-Y, 4 1/2 INCH DRILLPIPE

Location: MCVAY DRILLING RIG #5, EDDY COUNTY, NEW MEXICO

Job Number: MD0914GDM883

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E
0 - 987 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 1/2 INCH DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY DRILLING RIG #5 R.K.B. HEIGHT OF 17.5 FT.						
63.19	0.62	302.60	0.98	63.19	0.3 302.6	0.18 N 0.29 W
112.20	0.89	292.92	0.61	112.19	1.0 298.9	0.48 N 0.86 W
199.93	0.57	276.15	0.43	199.92	2.1 292.3	0.79 N 1.92 W
291.02	0.77	295.76	0.33	291.00	3.1 290.6	1.10 N 2.93 W
381.45	0.46	312.40	0.39	381.43	4.1 293.3	1.61 N 3.74 W
471.44	0.47	312.37	0.01	471.41	4.8 296.2	2.10 N 4.28 W
559.28	0.33	303.38	0.17	559.25	5.4 297.6	2.49 N 4.76 W
647.50	0.34	325.17	0.14	647.47	5.9 299.0	2.84 N 5.12 W
734.28	0.61	353.30	0.40	734.25	6.4 303.4	3.51 N 5.32 W
821.75	0.74	13.26	0.30	821.71	6.9 310.8	4.52 N 5.24 W
916.70	0.61	10.67	0.14	916.65	7.5 318.3	5.62 N 5.01 W
987.00	0.47	15.02	0.21	986.95	7.9 322.1	6.26 N 4.87 W

Final Station Closure: Distance: 7.93 ft Az: 322.15 deg.