

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

BOPCO, LP
PO Box 2760
Midland, TX 79702

Date: July 2, 2014

Attention: Kevin Burns

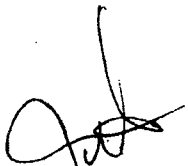
476-42374

Re: BOPCO, LP
Well: Poker Lake Unit 430H
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>
Ben Hernandez MWD Supervisor	430H	7118 MD 15133 MD	6/12/2014 7/1/2014	Measurement While Drilling

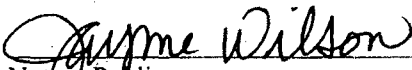
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

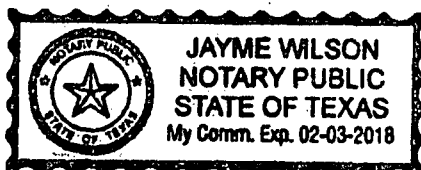


Jesse Aguilar
MWD Ops Coordinator

On this, the 3rd day of July, 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.

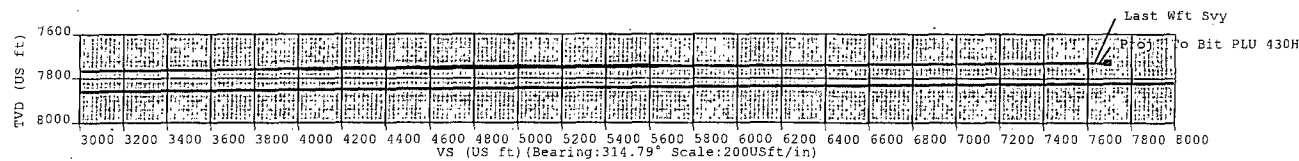
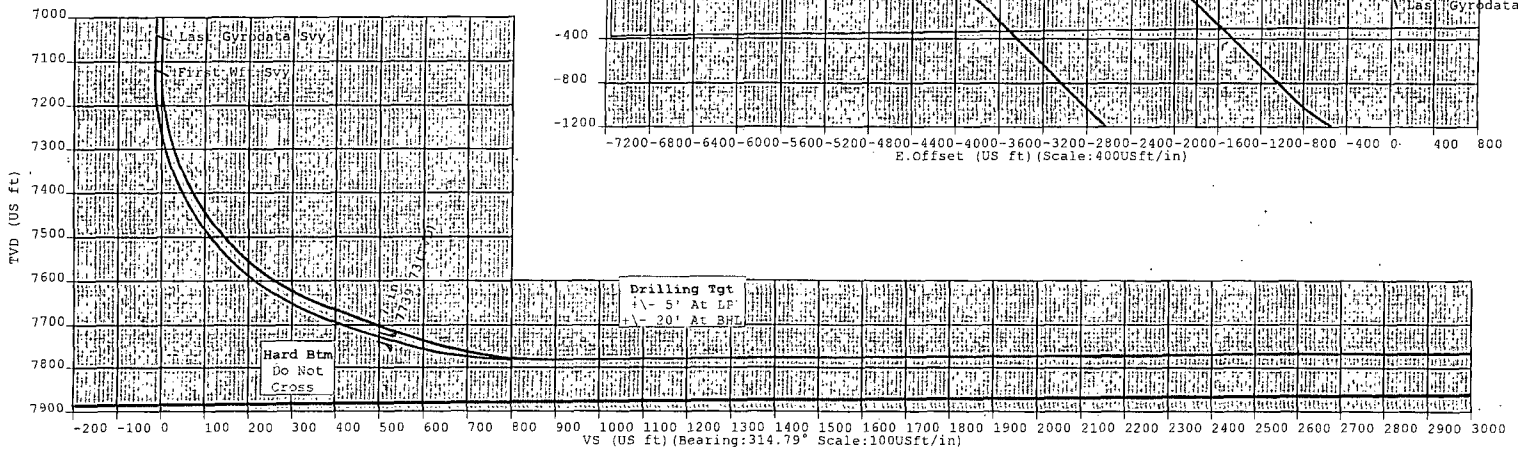
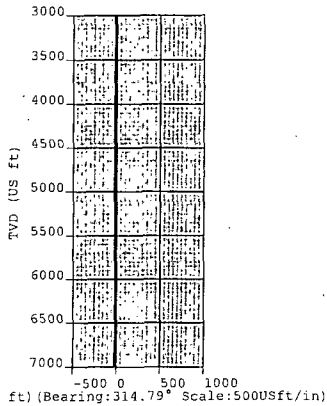

Notary Public



BOPCO, L.P.
Poker Lake Unit 430H
Eddy Co, NM



NE: 2451
 GR: 1432



Sign Off: Russell Joyner

Plan Data for Poker Lake Unit 430H

Plan Point Information:									
Position offsets from Slot centre									
MD	Inc	AC	TVD	N-S	E-W	North	East	VS	DLS
(USft)	(")	(")	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	44028.30	64257.90	0.00	0.00
7115.81	0.00	0.00	7115.81	0.00	0.00	44028.30	64257.90	0.00	0.00
7616.81	70.00	314.79	7657.22	365.60	-267.55	441192.00	647990.35	376.99	10.00
8018.81	70.00	314.79	7725.62	396.00	-480.93	441326.70	647856.97	564.93	0.00
8359.48	80.44	314.79	7783.15	635.25	-637.92	441561.56	647618.98	892.87	6.00
15154.39	90.44	314.79	7731.00	5420.20	-6450.10	446348.50	642797.60	7692.89	0.00

Plan Data for Poker Lake Unit 430H

Target Set Information:									
Name: Poker Lake Unit 430H									
Position offsets from Slot centre									
Name	TVD	Elevation	N-S	E-W	North	East	Shape	Comment	
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)			
PEHL 7731.00	-4290.00	5420.20	-5400.10	446348.50	642797.60	Cuboid			
Tgt Pos HBL 7866.00	-4235.00	0.00	0.00	446348.50	64257.90	Cuboid			
Tgt Pos ML 7926.00	-4175.00	5420.20	-5400.10	446348.50	642797.60	Cuboid			

Plan Data for Poker Lake Unit 430H

Slot: Poker Lake Unit 430H									
Position:									
Offset 12 from Slot centre									
N-S	E-W	North	East	Latitude	Longitude	Elevation	VRD		
-N-S: 0.00USft	Northings: 44028.30USft	Latitude: 35°12'40.6"							
-E-W: 0.00USft	Eastings: 64257.90USft	Longitude: -103°11'14.3"							
		Elevation Above VRD: 3432.00USft							

- Poker Lake Unit 430H
- Poker Lake Unit 321H
- Poker Lake Unit 322H
- Poker Lake Unit 431H
- Poker Lake Unit 324H
- Poker Lake Unit 430H

Drilling Tgt

11- 5' At LP

11- 20' At BHL

5D Survey Report

BOPCO, L.P.

Field Name: *Eddy Co, NM Nad27 NMEZ*

Site Name: *Poker Lake Unit 430H*

Well Name: *Poker Lake Unit 430H*

Survey: *Wft MWD Svy*

01 July 2014



Weatherford®

Poker Lake Unit 430H

Field Name Eddy Co, NM Nad27 NMEZ	Map Units : US ft		Company Name : BOPCO, L.P.	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD27 / New Mexico East			
	Comment :			
Site Name Poker Lake Unit 430H	Units : US ft	North Reference : Grid	Convergence Angle : 0.26	
	Position	Northing : 440928.30 US ft	Latitude : 32° 12' 40.75"	
		Easting : 648257.90 US ft	Longitude : -103° 51' 14.31"	
	Elevation above Mean Sea Level: 3432.00 US ft			
Comment :				
Slot Name Poker Lake Unit 430H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 440928.30 US ft	Latitude : 32° 12' 40.75"	
	+E / -W : 0.00 US ft	Easting : 648257.90 US ft	Longitude : -103° 51' 14.31"	
	Elevation above Mean Sea Level : 3432.00 US ft			
Comment :				
Well Name Poker Lake Unit 430H	Type : Main well		UWI :	
	Rig Height Well TVD Reference : 19.00 US ft		Comment :	
	Relative to Mean Sea Level: 3451.00 US ft			
	Closure Distance : 7653.39 US ft		Closure Azimuth : 314.721°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft Az : 314.79°	

Target Set	
Name : Poker Lake Unit 430H	Number of Targets : 3

Comment :

Target Name: PBHL	Position (Relative to Slot centre)			
	+N / -S : 5420.20 US ft	Northing : 446348.50 US ft	Latitude : 32° 13' 34.63"	
	+E / -W : 5460.10 US ft	Easting : 642797.80 US ft	Longitude : -103° 52' 17.59"	
	TVD (Well TVD Reference) : 7731.00 US ft			
Shape: Cuboid	Orientation Azimuth : 0.00°		Inclination : 0.00°	
	Dimensions Length : 20.00 US ft		Breadth : 20.00 US ft Height : 20.00 US ft	
Target Name: Tgt For HBI	Position (Relative to Slot centre)			
	+N / -S : 0.00 US ft	Northing : 440928.30 US ft	Latitude : 32° 12' 40.75"	
	+E / -W : 0.00 US ft	Easting : 648257.90 US ft	Longitude : -103° 51' 14.31"	
	TVD (Well TVD Reference) : 7886.00 US ft			
Shape: Cuboid	Orientation Azimuth : 314.79°		Inclination : 0.44°	
	Dimensions Length : 6000.00 US ft		Breadth : 0.00 US ft Height : 2.00 US ft	

5D Survey Report

Target Name:	Position (Relative to Slot centre)		
Tgt For HL 2	+N / -S : 5420.20 US ft	Northing : 446348.50 US ft	Latitude : 32°13'34.63"
Shape:	+E / -W : 5460.10 US ft	Easting : 642797.80 US ft	Longitude : -103°52'17.59"
Cuboid	TVD (Well TVD Reference) : 7826.00 US ft		
	Orientation Azimuth : 314.79°	Inclination : 0.44°	
	Dimensions Length : 15392.00 US ft	Breadth : 0.00 US ft	Height : 2.00 US ft

Survey Name : Wft MWD Svy

Date : 20/Jun/2014 **Survey Tool :** MWD **Comment :** **Company :**

Magnetic Model

Model Name: BGGM **Date:** 30/May/2014 **Field Strength:** 48281.1 nT **Declination:** 7.47° **Dip:** 60.04°

Tie Point

MD: 7042.78 **Inclination:** 0.78 **Azimuth:** 155.01 **TVD:** 7042.54 **North Offset:** -5.92 **East Offset:** 14.2187

Casing Points (Relative to Slot centre, TVD relative to Well TVD Reference)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Name	
8023.00	72.44	316.20	7739.73	405.92	-347.08	441334.22	647910.82	7 in	

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
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)	Comment
7118.00	0.10	226.00	7117.76	-6.43	14.39	-14.74	0.00	440921.87	648272.29	First Wft Svy
7150.00	1.91	314.05	7149.75	-6.08	13.98	-14.21	5.97	440922.22	648271.88	
7182.00	4.70	315.13	7181.70	-4.78	12.68	-12.36	8.72	440923.52	648270.58	
7212.00	7.10	314.35	7211.53	-2.61	10.48	-9.28	8.00	440925.69	648268.38	
7244.00	10.32	315.73	7243.16	0.83	7.07	-4.43	10.08	440929.13	648264.97	
7275.00	13.31	314.74	7273.50	5.33	2.59	1.91	9.67	440933.63	648260.49	
7307.00	16.66	314.45	7304.41	11.13	-3.30	10.19	10.47	440939.43	648254.60	
7337.00	19.79	313.99	7332.90	17.67	-10.03	19.57	10.44	440945.97	648247.87	
7368.00	22.83	313.48	7361.78	25.46	-18.17	30.83	9.82	440953.76	648239.73	
7400.00	26.29	314.51	7390.88	34.70	-27.73	44.13	10.89	440963.00	648230.17	
7430.00	28.84	315.27	7417.47	44.50	-37.56	58.01	8.58	440972.80	648220.34	
7462.00	31.57	315.53	7445.12	55.96	-48.86	74.10	8.54	440984.26	648209.04	
7493.00	34.49	316.37	7471.11	68.11	-60.60	90.99	9.53	440996.41	648197.30	
7524.00	37.49	317.19	7496.19	81.39	-73.07	109.20	9.80	441009.69	648184.83	
7554.00	40.85	317.76	7519.44	95.35	-85.88	128.12	11.26	441023.65	648172.02	
7585.00	44.25	318.81	7542.28	111.00	-99.82	149.04	11.20	441039.30	648158.08	
7616.00	47.71	320.26	7563.82	127.96	-114.28	171.25	11.66	441056.26	648143.62	
7648.00	50.78	321.35	7584.71	146.75	-129.59	195.36	9.93	441075.05	648128.31	
7679.00	54.14	320.97	7603.59	165.89	-145.01	219.78	10.88	441094.19	648112.89	
7711.00	57.48	320.99	7621.57	186.45	-161.67	246.09	10.44	441114.75	648096.23	
7742.00	60.09	322.20	7637.64	207.23	-178.13	272.42	9.06	441135.53	648079.77	
7773.00	62.36	322.95	7652.56	228.81	-194.64	299.33	7.62	441157.11	648063.26	
7805.00	65.70	324.41	7666.57	251.99	-211.68	327.75	11.21	441180.29	648046.22	
7837.00	68.21	322.72	7679.10	275.67	-229.17	356.85	9.23	441203.97	648028.73	
7869.00	70.60	320.93	7690.35	299.21	-247.68	386.58	9.12	441227.51	648010.22	
7900.00	70.81	317.45	7700.60	321.36	-266.80	415.74	10.62	441249.66	647991.10	
7932.00	71.05	316.44	7711.05	343.45	-287.45	445.97	3.08	441271.75	647970.45	
7956.00	71.19	316.40	7718.82	359.90	-303.10	468.67	0.60	441288.20	647954.80	
8023.00	72.44	316.20	7739.73	405.92	-347.08	532.30	1.89	441334.22	647910.82	7 in
8052.00	72.98	316.12	7748.35	425.90	-366.25	559.98	1.89	441354.20	647891.65	
8084.00	76.30	315.19	7756.83	447.96	-387.82	590.83	10.75	441376.26	647870.08	
8115.00	78.54	314.85	7763.58	469.36	-409.21	621.08	7.30	441397.66	647848.69	
8146.00	80.65	314.83	7769.17	490.86	-430.82	651.57	6.81	441419.16	647827.08	

5D Survey Report

Survey Points (Relative to Slot centre, TWD relative to Well TWD Reference)										
ID (US ft)	Inc (°)	Az (°)	TWD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Eastings (US ft)	Comment
8178.00	82.58	314.65	7773.84	513.14	-453.31	683.22	6.06	441441.44	647804.59	
8209.00	84.81	314.32	7777.25	534.73	-475.29	714.03	7.27	441463.03	647782.61	
8240.00	86.47	313.44	7779.60	556.15	-497.57	744.94	6.06	441484.45	647760.33	
8272.00	87.41	312.95	7781.31	578.03	-520.87	776.88	3.31	441506.33	647737.03	
8303.00	88.15	313.08	7782.51	599.16	-543.52	807.84	2.42	441527.46	647714.38	
8334.00	88.89	313.05	7783.31	620.32	-566.16	838.82	2.39	441548.62	647691.74	
8365.00	89.94	313.21	7783.63	641.51	-588.78	869.80	3.43	441569.81	647669.12	
8458.00	90.62	312.84	7783.17	704.96	-656.77	962.76	0.83	441633.26	647601.13	
8552.00	90.49	312.00	7782.26	768.37	-726.15	1056.67	0.90	441696.67	647531.75	
8645.00	90.49	314.26	7781.47	831.94	-794.02	1149.62	2.43	441760.24	647463.88	
8738.00	90.86	313.84	7780.37	896.60	-860.86	1242.61	0.60	441824.90	647397.04	
8833.00	90.62	312.00	7779.15	961.28	-930.42	1337.55	1.95	441889.58	647327.48	
8926.00	90.37	311.17	7778.34	1023.01	-999.97	1430.40	0.93	441951.31	647257.93	
9020.00	89.88	313.17	7778.14	1086.11	-1069.64	1524.29	2.19	442014.41	647188.26	
9113.00	90.25	313.26	7778.03	1149.79	-1137.42	1617.26	0.41	442078.09	647120.48	
9206.00	90.49	312.11	7777.43	1212.84	-1205.78	1710.19	1.26	442141.14	647052.12	
9300.00	90.12	314.33	7776.93	1277.21	-1274.27	1804.15	2.39	442205.51	646983.63	
9393.00	90.62	311.64	7776.33	1340.61	-1342.30	1897.09	2.94	442268.91	646915.60	
9486.00	90.62	314.04	7775.32	1403.83	-1410.48	1990.02	2.58	442332.13	646847.42	
9580.00	89.08	311.24	7775.57	1467.50	-1479.62	2083.95	3.40	442395.80	646778.28	
9673.00	90.12	308.66	7776.22	1527.21	-1550.91	2176.60	2.99	442455.51	646706.99	
9767.00	91.60	309.72	7774.81	1586.60	-1623.75	2270.14	1.94	442514.90	646634.15	
9863.00	91.36	311.52	7772.33	1649.07	-1696.59	2365.85	1.89	442577.37	646561.31	
9957.00	90.93	313.56	7770.45	1712.61	-1765.83	2459.75	2.22	442640.91	646492.07	
10050.00	90.25	313.17	7769.49	1776.47	-1833.44	2552.72	0.84	442704.77	646424.46	
10142.00	89.88	314.36	7769.39	1840.10	-1899.88	2644.70	1.35	442768.40	646358.02	
10236.00	89.51	317.09	7769.89	1907.40	-1965.49	2738.68	2.93	442835.70	646292.41	
10329.00	89.94	316.34	7770.33	1975.10	-2029.26	2831.62	0.93	442903.40	646228.64	
10423.00	90.68	315.09	7769.83	2042.39	-2094.89	2925.61	1.55	442970.69	646163.01	
10517.00	90.86	317.04	7768.56	2110.07	-2160.10	3019.57	2.08	443038.37	646097.80	
10612.00	90.68	315.40	7767.29	2178.65	-2225.82	3114.53	1.74	443106.95	646032.08	
10707.00	90.00	315.60	7766.72	2246.41	-2292.40	3209.52	0.75	443174.71	645965.50	
10800.00	90.56	314.45	7766.27	2312.19	-2358.13	3302.52	1.38	443240.49	645899.77	
10894.00	90.19	315.63	7765.65	2378.71	-2424.55	3396.51	1.32	443307.01	645833.35	
10987.00	89.94	316.98	7765.55	2445.95	-2488.80	3489.48	1.48	443374.25	645769.10	
11081.00	90.37	316.21	7765.29	2514.24	-2553.39	3583.43	0.94	443442.54	645704.51	
11175.00	91.48	313.82	7763.77	2580.71	-2619.83	3677.41	2.80	443509.01	645638.07	
11268.00	91.67	315.62	7761.22	2646.12	-2685.88	3770.37	1.95	443574.42	645572.02	
11361.00	90.80	314.47	7759.21	2711.91	-2751.57	3863.34	1.55	443640.21	645506.33	
11455.00	91.36	313.42	7757.44	2777.14	-2819.24	3957.32	1.27	443705.44	645438.66	
11549.00	91.61	316.15	7755.01	2843.32	-2885.93	4051.28	2.92	443771.62	645371.97	
11644.00	89.88	315.22	7753.77	2911.29	-2952.29	4146.25	2.07	443839.59	645305.61	
11737.00	90.68	318.75	7753.32	2979.28	-3015.72	4239.17	3.89	443907.58	645242.18	
11832.00	90.19	318.06	7752.59	3050.32	-3078.78	4333.97	0.89	443978.62	645179.12	
11926.00	90.00	314.56	7752.44	3118.28	-3143.70	4427.93	3.73	444046.58	645114.20	
12020.00	90.56	317.22	7751.98	3185.76	-3209.12	4521.90	2.89	444114.06	645048.78	
12113.00	91.54	320.81	7750.27	3255.94	-3270.10	4614.61	4.00	444184.24	644987.80	
12207.00	90.93	318.92	7748.25	3327.79	-3330.67	4708.22	2.11	444256.09	644927.23	
12301.00	90.43	315.34	7747.13	3396.67	-3394.61	4802.12	3.85	444324.97	644863.29	
12394.00	90.49	313.59	7746.39	3461.80	-3460.98	4895.11	1.88	444390.10	644796.92	
12487.00	90.06	313.33	7745.94	3525.77	-3528.48	4988.08	0.54	444454.07	644729.42	
12580.00	90.00	314.91	7745.89	3590.51	-3595.24	5081.07	1.70	444518.81	644662.66	
12673.00	89.51	311.51	7746.29	3654.18	-3663.01	5174.02	3.69	444582.48	644594.89	
12767.00	91.17	315.92	7745.73	3719.12	-3730.94	5267.98	5.01	444647.42	644526.96	
12861.00	90.49	316.19	7744.37	3786.79	-3796.16	5361.95	0.78	444715.09	644461.74	
12954.00	90.93	314.14	7743.22	3852.73	-3861.72	5454.93	2.25	444781.03	644396.18	
13047.00	90.62	314.76	7741.96	3917.86	-3928.11	5547.92	0.75	444846.16	644329.79	
13140.00	88.89	308.66	7742.36	3979.70	-3997.50	5640.74	6.82	444908.00	644260.40	
13234.00	88.70	310.72	7744.33	4039.72	-4069.81	5734.34	2.20	444968.02	644188.09	

5D Survey Report

Survey Points (Relative to Slot centre TVD relative to Well TVD Reference)										
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)	Comment
13328.00	89.07	312.39	7746.16	4102.06	-4140.14	5828.17	1.82	445030.36	644117.76	
13420.00	90.12	315.16	7746.81	4165.70	-4206.56	5920.14	3.22	445094.00	644051.34	
13514.00	90.62	313.03	7746.21	4231.10	-4274.06	6014.13	2.33	445159.40	643983.84	
13607.00	90.68	312.84	7745.15	4294.45	-4342.14	6107.07	0.21	445222.75	643915.76	
13701.00	90.74	313.98	7743.99	4359.04	-4410.42	6201.04	1.21	445287.34	643847.48	
13795.00	90.19	315.97	7743.22	4425.47	-4476.92	6295.03	2.20	445353.77	643780.98	
13888.00	90.99	316.09	7742.26	4492.40	-4541.48	6388.00	0.87	445420.70	643716.42	
13981.00	90.99	314.87	7740.66	4558.70	-4606.68	6480.98	1.31	445487.00	643651.22	
14075.00	90.68	315.44	7739.29	4625.34	-4672.96	6574.97	0.69	445553.64	643584.94	
14169.00	90.62	315.07	7738.22	4692.10	-4739.12	6668.96	0.40	445620.40	643518.78	
14262.00	90.68	317.32	7737.17	4759.21	-4803.49	6761.92	2.42	445687.51	643454.41	
14355.00	90.00	314.62	7736.61	4826.06	-4868.12	6854.89	2.99	445754.36	643389.78	
14448.00	90.43	314.16	7736.27	4891.12	-4934.58	6947.88	0.68	445819.42	643323.32	
14541.00	89.94	311.51	7735.97	4954.34	-5002.77	7040.82	2.90	445882.64	643255.13	
14634.00	90.25	312.09	7735.81	5016.33	-5072.10	7133.69	0.71	445944.63	643185.80	
14727.00	90.68	314.89	7735.06	5080.33	-5139.56	7226.66	3.05	446008.63	643118.34	
14821.00	91.05	317.90	7733.64	5148.38	-5204.38	7320.60	3.23	446076.68	643053.52	
14914.00	90.31	317.22	7732.53	5217.00	-5267.13	7413.48	1.08	446145.30	642990.77	
15007.00	90.56	315.42	7731.83	5284.26	-5331.35	7506.44	1.95	446212.56	642926.55	
15101.00	90.12	312.44	7731.27	5349.46	-5399.04	7600.42	3.20	446277.76	642858.86	
15133.00	89.88	312.73	7731.27	5371.12	-5422.60	7632.40	1.18	446299.42	642835.30	Last Wft Svy
15154.00	89.88	312.73	7731.31	5385.37	-5438.03	7653.38	0.00	446313.67	642819.87	Proj. To Bit PLU 430H

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

BOPCO

Lease: POKER LAKE UNIT Well: 430H, 4 AND 1/2 INCH DRILL PIPE

Location: MCVAY 5, EDDY COUNTY, NEW MEXICO

Job Number: MD0614GDM631

Run Date: 19 Jun 2014

Report Generated: 26 Jun 2014 03:02

Azimuth Correction:

Gyro: -0.26000 deg to Grid North

Depth Reference: Rotary Table

Surveyor: Derek Oster

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

Calculation Method: MINIMUM CURVATURE

Vertical Section Calculated from Well Head Location

Survey surface coordinates obtained from: Well Plan/Plot

Closure Calculated from Well Head Location

Survey Latitude: 32.211319 deg. N Longitude: 103.853972 deg. W

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

BOPCO

Lease: POKER LAKE UNIT Well: 430H, 4 AND 1/2 INCH DRILL PIPE

Location: MCVAY 5, EDDY COUNTY, NEW MEXICO

Job Number: MD0614GDM631

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH 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 - 7042 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 AND 1/2 INCH DRILL PIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY DRILLING RIG #5 R.K.B. HEIGHT OF 17.5 FT.							

66.92	0.56	149.36	0.84	66.92	0.3	149.4	0.28 S 0.17 E
166.92	0.41	141.58	0.16	166.92	1.2	147.0	0.98 S 0.64 E
266.92	0.26	117.50	0.20	266.91	1.7	142.2	1.37 S 1.06 E
366.92	0.33	67.96	0.26	366.91	2.0	131.7	1.36 S 1.53 E
466.92	0.41	55.19	0.11	466.91	2.3	116.7	1.05 S 2.09 E
566.92	0.42	36.64	0.13	566.91	2.7	102.0	0.55 S 2.60 E
666.92	0.60	35.99	0.18	666.90	3.1	87.0	0.16 N 3.13 E
766.92	1.08	52.39	0.53	766.89	4.3	74.5	1.16 N 4.18 E
866.92	1.55	66.15	0.56	866.87	6.6	69.7	2.29 N 6.17 E
966.92	1.51	65.77	0.04	966.83	9.2	68.6	3.37 N 8.61 E

1066.92	0.68	100.25	1.02	1066.81	11.1	69.9	3.81 N 10.39 E
1166.92	0.60	101.87	0.08	1166.81	12.0	72.6	3.59 N 11.49 E
1266.92	0.55	100.62	0.05	1266.80	12.9	74.8	3.40 N 12.47 E
1366.92	0.41	96.16	0.14	1366.80	13.7	76.2	3.27 N 13.30 E
1466.92	0.35	87.80	0.08	1466.80	14.3	76.9	3.25 N 13.96 E
1566.92	0.27	109.44	0.14	1566.79	14.8	77.6	3.18 N 14.49 E
1666.92	0.07	143.68	0.22	1666.79	15.1	78.3	3.05 N 14.75 E

A Gyrodata Directional Survey

BOPCO

Lease: POKER LAKE UNIT Well: 430H, 4 AND 1/2 INCH DRILL PIPE

Location: MCVAY 5, EDDY COUNTY, NEW MEXICO

Job Number: MD0614GDM631

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLE SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1766.92	0.08	60.91	0.10	1766.79	15.2 78.4	3.04 N 14.84 E
1866.92	0.06	279.28	0.13	1866.79	15.2 78.3	3.08 N 14.85 E
1966.92	0.08	310.39	0.04	1966.79	15.1 78.0	3.13 N 14.75 E
2066.92	0.06	308.80	0.02	2066.79	15.0 77.6	3.21 N 14.65 E
2166.92	0.10	236.68	0.10	2166.79	14.9 77.6	3.19 N 14.54 E
2266.92	0.07	256.97	0.04	2266.79	14.7 77.7	3.13 N 14.41 E
2366.92	0.10	176.21	0.11	2366.79	14.7 78.1	3.03 N 14.35 E
2466.92	0.08	161.63	0.03	2466.79	14.7 78.7	2.88 N 14.38 E
2566.92	0.07	216.52	0.07	2566.79	14.6 79.1	2.76 N 14.37 E
2666.92	0.19	74.41	0.25	2666.79	14.8 79.2	2.76 N 14.49 E
2766.92	0.31	53.69	0.15	2766.79	15.2 78.7	2.96 N 14.87 E
2866.92	0.12	25.98	0.21	2866.79	15.5 78.0	3.22 N 15.13 E
2966.92	0.13	6.19	0.04	2966.79	15.6 77.3	3.42 N 15.19 E
3066.92	0.07	22.13	0.07	3066.79	15.6 76.7	3.59 N 15.23 E
3166.92	0.17	74.78	0.14	3166.79	15.8 76.5	3.69 N 15.39 E
3266.92	0.41	60.38	0.25	3266.79	16.3 76.2	3.91 N 15.85 E
3366.92	0.46	122.27	0.45	3366.79	16.9 76.8	3.87 N 16.50 E
3466.92	0.45	146.60	0.19	3466.78	17.4 79.0	3.33 N 17.05 E
3566.92	0.65	136.49	0.22	3566.78	17.8 81.7	2.59 N 17.66 E
3666.92	0.69	128.80	0.10	3666.77	18.6 84.5	1.80 N 18.52 E
3761.82	0.83	138.99	0.20	3761.66	19.4 87.3	0.92 N 19.41 E
3856.64	0.69	143.35	0.16	3856.48	20.2 90.2	0.06 S 20.21 E

A Gyrodata Directional Survey

BOPCO

Lease: POKER LAKE UNIT Well: 430H, 4 AND 1/2 INCH DRILL PIPE

Location: MCVAY 5, EDDY COUNTY, NEW MEXICO

Job Number: MD0614GDM631

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3950.04	0.33	148.64	0.39	3949.87	20.7 92.0	0.74 S 20.68 E
4138.59	0.06	51.76	0.18	4138.42	21.1 93.1	1.14 S 21.04 E
4232.52	0.10	96.51	0.08	4232.35	21.2 93.0	1.12 S 21.16 E
4326.10	0.11	60.15	0.07	4325.93	21.3 92.9	1.08 S 21.32 E
4608.91	0.17	44.14	0.03	4608.74	21.9 91.7	0.65 S 21.85 E
4702.97	0.12	5.02	0.11	4702.80	22.0 91.2	0.45 S 21.95 E
4796.01	0.11	353.24	0.03	4795.84	22.0 90.7	0.26 S 21.95 E
4887.79	0.12	332.00	0.05	4887.62	21.9 90.2	0.09 S 21.90 E
5073.48	0.19	293.83	0.07	5073.31	21.5 89.4	0.21 N 21.52 E
5166.31	0.20	313.04	0.07	5166.14	21.3 89.0	0.38 N 21.26 E
5260.75	0.26	296.69	0.09	5260.58	21.0 88.4	0.59 N 20.95 E
5355.47	0.29	301.23	0.04	5355.30	20.6 87.7	0.81 N 20.56 E
5450.17	0.26	332.05	0.16	5449.99	20.3 86.8	1.12 N 20.25 E
5543.29	0.25	301.76	0.14	5543.11	20.0 85.9	1.42 N 19.98 E
5637.47	0.30	306.57	0.06	5637.29	19.7 85.1	1.67 N 19.61 E
5730.04	0.36	286.59	0.14	5729.86	19.2 84.3	1.90 N 19.13 E
5823.14	0.47	277.58	0.14	5822.96	18.6 83.7	2.03 N 18.47 E
5916.71	0.40	271.68	0.09	5916.53	17.9 83.3	2.09 N 17.77 E
6010.83	0.37	268.48	0.04	6010.64	17.3 83.0	2.09 N 17.13 E
6103.98	0.37	245.42	0.16	6103.79	16.7 83.2	1.96 N 16.56 E
6198.00	0.32	245.95	0.05	6197.81	16.1 83.9	1.73 N 16.04 E

A Gyrodata Directional Survey

BOPCO

Lease: POKER LAKE UNIT Well: 430H, 4 AND 1/2 INCH DRILL PIPE

Location: MCVAY 5, EDDY COUNTY, NEW MEXICO

Job Number: MD0614GDM631

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet .deg.	HORIZONTAL COORDINATES feet
6292.13	0.44	239.91	0.13	6291.94	15.6 84.7	1.44 N 15.49 E
6386.57	0.76	231.02	0.35	6386.37	14.7 86.6	0.86 N 14.69 E
6478.88	0.88	224.71	0.16	6478.67	13.7 90.1	0.02 S 13.72 E
6574.17	0.65	203.50	0.38	6573.96	13.0 94.6	1.04 S 12.99 E
6667.83	0.56	175.01	0.33	6667.61	13.0 98.8	1.98 S 12.81 E
6762.62	0.50	163.37	0.13	6762.40	13.3 102.4	2.84 S 12.97 E
6857.03	0.66	159.70	0.17	6856.80	13.8 105.8	3.75 S 13.28 E
6950.43	0.74	156.03	0.10	6950.19	14.5 109.3	4.80 S 13.71 E
7042.78	0.78	155.01	0.05	7042.54	15.4 112.6	5.92 S 14.22 E

Final Station Closure: Distance: 15.40 ft Az: 112.59 deg.

