

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: January 29, 2014

30-015-40791

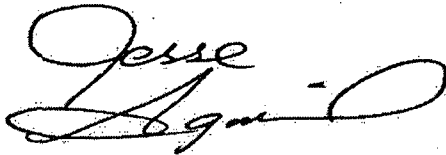
Attention: Jeremy Braden

Re: BOPCO, LP
Well: Poker Lake Unit 322H
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
David Geerdes MWD Supervisor	322H	6831 MD 16413 MD	1/7/2014 1/27/2014	Measurement While Drilling

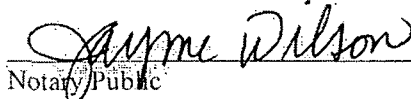
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

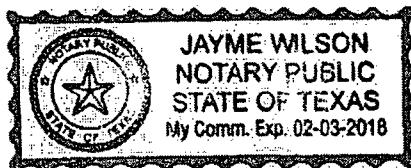


Jesse Aguilar
MWD Ops Coordinator

On this, the 3rd day of February 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

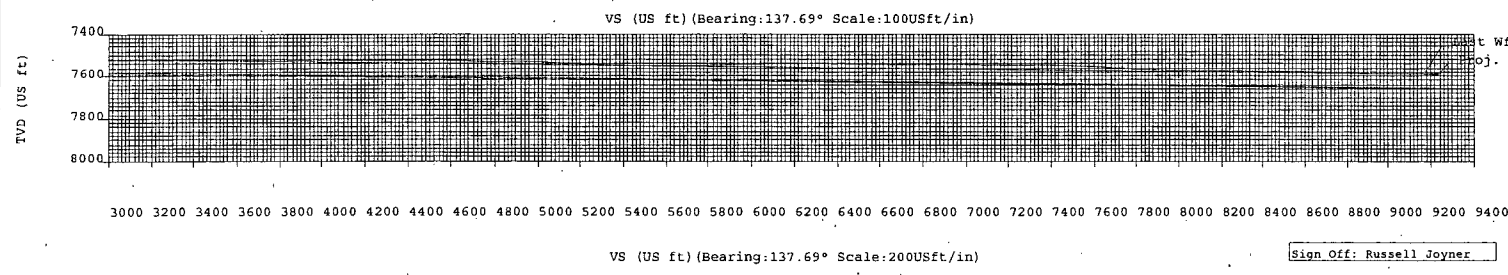
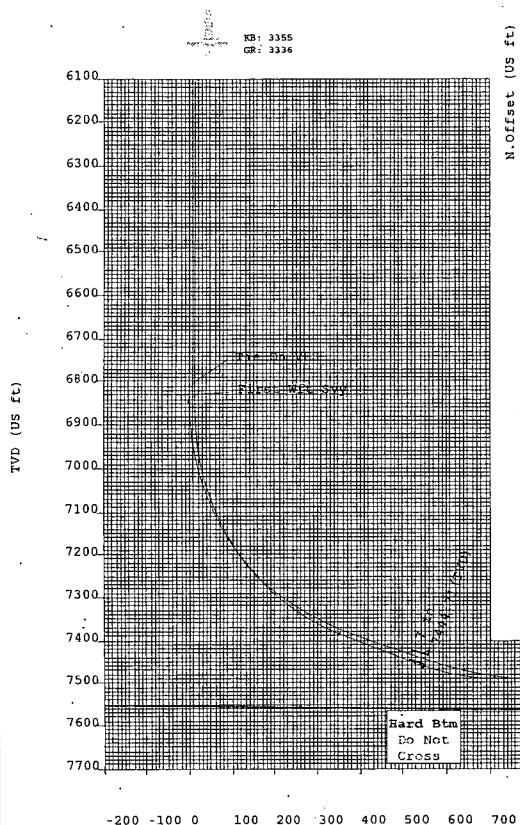
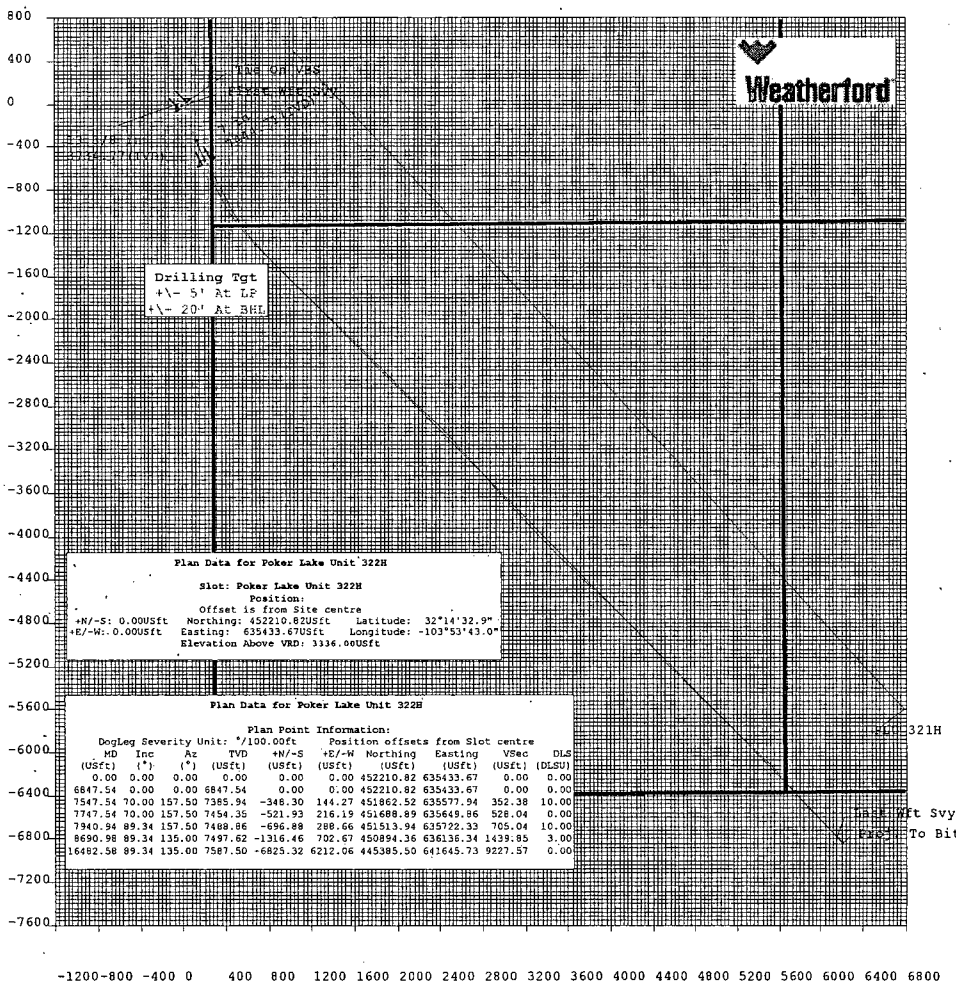


BOPCO, L.P.
Poker Lake Unit 322H
Eddy Co, NM

Plan Data for Poker Lake Unit 322H

Target Set Information:
 Name: Poker Lake Unit 322H
 Position offsets from Slot centre

Name	TVD Elevation (USft)	+N/-S (USft)	+E/-W Northing (USft)	Easting (USft)	Shape Comment
PNL 1 for Dwg	7587.50	-4232.50	-6825.32	6212.06	445385.50 641645.73 Cuboid
PNL 2 for Dwg	7555.00	-4200.00	0.00	0.00	452210.82 635433.67 Cuboid



5D Survey Report

BOPCO, L.P.**Field Name:** *Eddy Co, NM Nad27 NMEZ***Site Name:** *Poker Lake Unit 322H***Well Name:** *Poker Lake Unit 322H***Survey:** *Wft Svy*

27 January 2014

**Weatherford®**

Poker Lake Unit 322H

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 322H	Units : US ft	North Reference : Grid	Convergence Angle : 0.23	
	Position	Northing : 452210.82 US ft	Latitude : 32° 14' 32.95"	
		Easting : 635433.67 US ft	Longitude : -103° 53' 43.04"	
	Elevation above Mean Sea Level:3336.00 US ft			
Comment :				
Slot Name Poker Lake Unit 322H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing :452210.82 US ft	Latitude : 32°14'32.95"	
	+E / -W : 0.00 US ft	Easting :635433.67 US ft	Longitude : -103°53'43.04"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3336.00 US ft				
Comment :				
Well Name Poker Lake Unit 322H	Type : Main well		UWI :	
	Rig Height <i>Drill Floor</i> : 19.00 US ft		Comment :	
	Relative to Mean Sea Level: 3355.00 US ft			
	Closure Distance : 9248.01 US ft		Closure Azimuth : 137.737°	
Vertical Section (Position of Origin Relative to Slot) :				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az :137.69°				

Target Set

Name : Poker Lake Unit **Number of Targets :** 3
322H

Comment :

Target Name: PBHL	Position (Relative to Slot centre)			
	+N / -S : -6825.32US ft		Northing : 445385.50 US ft	Latitude : 32° 13' 25.15"
	+E / -W : 6212.06 US ft		Easting : 641645.73US ft	Longitude : -103° 52' 31.05"
	Shape: TVD (Drill Floor) : 7587.50 US ft			
Target Name: HB 1 for Dwg	Position (Relative to Slot centre)			
	+N / -S : -6825.32US ft		Northing : 445385.50 US ft	Latitude : 32° 13' 25.15"
	+E / -W : 6212.06 US ft		Easting : 641645.73US ft	Longitude : -103° 52' 31.05"
	Shape: TVD (Drill Floor) : 7660.00 US ft			
Target Name: 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: Cuboid	Orientation Azimuth : 135.00° Inclination : -0.66°			
	Dimensions Length : 17468.00 US ft		Breadth : 0.00 US ft	Height : 2.00 US ft

5D Survey Report

Target Name: HB 2 For Dwg Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S : 0.00 US ft	Northing : 452210.82 US ft	Latitude : 32°14'32.95"
	+E / -W : 0.00 US ft	Easting : 635433.67 US ft	Longitude : -103°53'43.04"
TVD (Drill Floor) : 7555.00 US ft			
Orientation Azimuth : 135.00° Inclination : -0.66°			
Dimensions Length : 17468.00 US ft Breadth : 0.00 US ft Height : 2.00 US ft			

Survey Name : Wft Svy

Date : 15/Jan/2014

Survey Tool : MWD

Comment :

Company : Wft

Magnetic Model

Model Name: BGGM

Date: 30/Jan/2014

Field Strength:

Declination: 7.53°

Dip: 60.07°

48333.0 nT

Tie Point

MD: 6805

Inclination: 1.25 Azimuth: 216.53

TVD: 6804.48

North Offset: -27.92

East Offset: -13.4121

Casing Points (Relative to Slot centre, TVD relative to Drill Floor.)

MD (US.ft)	Inc (°)	Az (°)	TVD (US.ft)	N Offset (US.ft)	E Offset (US.ft)	Northing (US.ft)	Easting (US.ft)	Name
7747.00	72.19	151.49	7444.71	-534.29	232.43	451676.53	635666.10	7 in

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Drill Floor.)

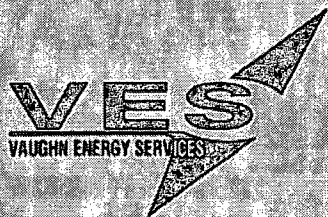
MD (US.ft)	Inc (°)	Az (°)	TVD (US.ft)	N Offset (US.ft)	E Offset (US.ft)	VS (US.ft)	DLS (°/100 US.ft)	Northing (US.ft)	Easting (US.ft)	Comment
6805.00	1.25	216.53	6804.48	-27.92	-13.41	11.62	0.00	452182.90	635420.26	Tie On VES
6831.00	1.39	207.61	6830.47	-28.43	-13.73	11.78	0.95	452182.39	635419.94	First Wft Svy
6860.00	2.80	188.98	6859.45	-29.44	-14.00	12.35	5.34	452181.38	635419.67	
6891.00	3.84	184.67	6890.40	-31.22	-14.20	13.53	3.45	452179.60	635419.47	
6922.00	5.63	170.63	6921.29	-33.76	-14.04	15.51	6.84	452177.06	635419.63	
6954.00	8.28	161.53	6953.06	-37.49	-13.05	18.94	8.94	452173.33	635420.62	
6985.00	11.48	156.37	6983.59	-42.44	-11.11	23.90	10.70	452168.38	635422.56	
7017.00	14.80	152.98	7014.75	-49.00	-7.98	30.86	10.65	452161.82	635425.69	
7048.00	18.07	152.76	7044.48	-56.80	-3.98	39.33	10.55	452154.02	635429.69	
7080.00	21.25	152.42	7074.61	-66.36	0.98	49.73	9.94	452144.46	635434.65	
7111.00	24.81	152.40	7103.14	-77.10	6.60	61.46	11.48	452133.72	635440.27	
7142.00	27.85	153.76	7130.92	-89.36	12.81	74.71	10.00	452121.46	635446.48	
7172.00	31.13	155.07	7157.03	-102.68	19.18	88.85	11.14	452108.14	635452.85	
7203.00	34.73	156.29	7183.04	-118.04	26.11	104.87	11.81	452092.78	635459.78	
7235.00	38.68	156.86	7208.69	-135.59	33.71	122.96	12.39	452075.23	635467.38	
7266.00	42.77	156.86	7232.18	-154.18	41.66	142.06	13.19	452056.64	635475.33	
7297.00	46.98	157.15	7254.14	-174.31	50.20	162.70	13.60	452036.51	635483.87	
7329.00	51.52	157.23	7275.03	-196.66	59.59	185.54	14.19	452014.16	635493.26	
7361.00	55.41	156.05	7294.07	-220.25	69.79	209.86	12.51	451990.57	635503.46	
7392.00	58.03	155.43	7311.08	-243.88	80.44	234.50	8.62	451966.94	635514.11	
7424.00	60.70	154.58	7327.39	-268.83	92.08	260.78	8.65	451941.99	635525.75	
7455.00	62.60	153.61	7342.11	-293.37	104.00	286.95	6.72	451917.45	635537.67	
7486.00	64.72	152.51	7355.86	-318.13	116.59	313.74	7.54	451892.69	635550.26	
7517.00	66.61	151.67	7368.64	-343.09	129.81	341.10	6.58	451867.73	635563.48	
7549.00	69.72	151.61	7380.54	-369.22	143.92	369.92	9.72	451841.60	635577.59	
7580.00	70.74	151.88	7391.02	-394.92	157.73	398.22	3.39	451815.90	635591.40	
7612.00	70.90	151.78	7401.54	-421.56	171.99	427.53	0.58	451789.26	635605.66	
7643.00	71.12	151.74	7411.62	-447.39	185.86	455.96	0.72	451763.43	635619.53	
7675.00	71.04	152.06	7422.00	-474.09	200.12	485.31	0.98	451736.73	635633.79	
7747.00	72.19	151.49	7444.71	-534.29	232.43	551.58	1.77	451676.53	635666.10	7 in
7773.00	72.61	151.29	7452.57	-556.05	244.30	575.65	1.77	451654.77	635677.97	
7803.00	74.72	151.06	7461.00	-581.27	258.18	603.65	7.07	451629.55	635691.85	

5D Survey Report

Survey Points (Relative to Slot 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)	Comment
7833.00	76.88	151.23	7468.36	-606.74	272.21	631.93	7.22	451604.08	635705.88	
7864.00	79.02	151.49	7474.83	-633.35	286.74	661.39	6.95	451577.47	635720.41	
7895.00	80.80	151.18	7480.26	-660.12	301.38	691.05	5.83	451550.70	635735.05	
7925.00	82.50	151.05	7484.62	-686.11	315.72	719.92	5.68	451524.71	635749.39	
7956.00	84.40	151.50	7488.16	-713.12	330.52	749.85	6.30	451497.70	635764.19	
7987.00	86.22	151.38	7490.69	-740.25	345.29	779.86	5.88	451470.57	635778.96	
8018.00	89.51	152.38	7491.85	-767.57	359.89	809.89	11.09	451443.25	635793.56	
8048.00	90.98	152.88	7491.72	-794.21	373.68	838.87	5.18	451416.61	635807.35	
8079.00	90.56	152.63	7491.30	-821.77	387.87	868.80	1.58	451389.05	635821.54	
8170.00	90.49	152.54	7490.47	-902.55	429.77	956.74	0.13	451308.27	635863.44	
8261.00	90.56	151.03	7489.63	-982.73	472.79	1045.00	1.66	451228.09	635906.46	
8353.00	90.42	148.00	7488.85	-1062.00	519.46	1135.03	3.30	451148.82	635953.13	
8442.00	89.37	145.44	7489.01	-1136.40	568.29	1222.92	3.11	451074.42	636001.96	
8533.00	89.02	141.83	7490.29	-1209.66	622.23	1313.41	3.99	451001.16	636055.90	
8625.00	87.62	138.47	7492.99	-1280.24	681.15	1405.27	3.95	450930.58	636114.82	
8718.00	87.97	137.91	7496.57	-1349.51	743.10	1498.19	0.71	450861.31	636176.77	
8809.00	87.20	138.01	7500.40	-1417.03	803.98	1589.11	0.85	450793.79	636237.65	
8901.00	87.13	136.11	7504.95	-1484.30	866.58	1680.99	2.06	450726.52	636300.25	
8996.00	87.90	134.85	7509.07	-1551.97	933.12	1775.83	1.55	450658.85	636366.79	
9091.00	89.58	134.44	7511.16	-1618.71	1000.69	1870.66	1.82	450592.11	636434.36	
9185.00	89.51	133.90	7511.90	-1684.20	1068.12	1964.48	0.58	450526.62	636501.79	
9280.00	91.54	134.62	7511.03	-1750.50	1136.15	2059.30	2.27	450460.32	636569.82	
9375.00	91.05	134.42	7508.89	-1817.09	1203.86	2154.13	0.56	450393.73	636637.53	
9470.00	90.70	133.91	7507.44	-1883.27	1272.00	2248.94	0.65	450327.55	636705.67	
9565.00	89.72	132.37	7507.09	-1948.23	1341.32	2343.64	1.92	450262.59	636774.99	
9660.00	89.65	132.38	7507.61	-2012.26	1411.50	2438.23	0.07	450198.56	636845.17	
9755.00	89.72	135.44	7508.13	-2078.13	1479.93	2533.01	3.22	450132.69	636913.60	
9849.00	88.60	133.19	7509.51	-2143.79	1547.18	2626.83	2.67	450067.03	636980.85	
9944.00	90.35	135.96	7510.38	-2210.45	1614.84	2721.67	3.45	450000.37	637048.51	
10039.00	88.88	133.74	7511.02	-2277.44	1682.18	2816.54	2.80	449933.38	637115.85	
10134.00	87.90	133.43	7513.69	-2342.91	1750.96	2911.26	1.08	449867.91	637184.63	
10229.00	88.67	134.07	7516.53	-2408.58	1819.56	3005.99	1.05	449802.24	637253.23	
10324.00	90.70	136.39	7517.05	-2476.01	1886.45	3100.89	3.24	449734.81	637320.12	
10419.00	89.23	135.79	7517.11	-2544.45	1952.34	3195.85	1.67	449666.37	637386.01	
10514.00	90.63	135.39	7517.23	-2612.31	2018.81	3290.79	1.53	449598.51	637452.48	
10609.00	90.42	135.28	7516.36	-2679.88	2085.59	3385.70	0.25	449530.94	637519.26	
10704.00	90.07	134.73	7515.95	-2747.06	2152.76	3480.60	0.69	449463.76	637586.43	
10799.00	88.67	133.40	7517.00	-2813.12	2221.02	3575.40	2.03	449397.70	637654.69	
10894.00	90.70	132.98	7517.52	-2878.13	2290.27	3670.10	2.18	449332.69	637723.94	
10989.00	90.00	133.82	7516.94	-2943.40	2359.30	3764.83	1.15	449267.42	637792.97	
11084.00	88.32	133.43	7518.33	-3008.94	2428.05	3859.58	1.82	449201.88	637861.72	
11179.00	90.91	136.52	7518.97	-3076.07	2495.24	3954.45	4.24	449134.75	637928.91	
11274.00	88.88	137.56	7519.14	-3145.59	2559.98	4049.43	2.40	449065.23	637993.65	
11368.00	89.93	138.33	7520.12	-3215.38	2622.94	4143.43	1.39	448995.44	638056.61	
11464.00	90.42	138.05	7519.83	-3286.93	2686.94	4239.42	0.59	448923.89	638120.61	
11559.00	90.21	138.36	7519.30	-3357.76	2750.25	4334.42	0.39	448853.06	638183.92	
11654.00	89.72	138.34	7519.36	-3428.74	2813.39	4429.41	0.52	448782.08	638247.06	
11748.00	90.49	139.93	7519.19	-3499.83	2874.89	4523.38	1.88	448710.99	638308.56	
11843.00	88.39	136.56	7520.12	-3570.68	2938.14	4618.35	4.18	448640.14	638371.81	
11937.00	87.27	134.22	7523.68	-3637.55	3004.10	4712.20	2.76	448573.27	638437.77	
12032.00	90.14	137.77	7525.83	-3705.84	3070.06	4807.11	4.80	448504.98	638503.73	
12128.00	91.19	138.48	7524.71	-3777.32	3134.13	4903.09	1.32	448433.50	638567.80	
12222.00	87.27	136.50	7525.98	-3846.59	3197.63	4997.06	4.67	448364.23	638631.30	
12317.00	87.20	135.92	7530.56	-3915.09	3263.29	5091.92	0.61	448295.73	638696.96	
12412.00	87.90	135.36	7534.62	-3982.95	3329.65	5186.77	0.94	448227.87	638763.32	
12507.00	88.11	135.51	7537.93	-4050.59	3396.28	5281.64	0.27	448160.23	638829.95	
12602.00	87.62	134.76	7541.47	-4117.87	3463.25	5376.48	0.94	448092.95	638896.92	
12696.00	89.79	135.27	7543.59	-4184.34	3529.68	5470.35	2.37	448026.48	638963.35	
12791.00	90.00	132.88	7543.76	-4250.42	3597.92	5565.15	2.53	447960.40	639031.59	

5D Survey Report

Survey Points (Relative to Slot 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)	Comment
12886.00	90.63	132.41	7543.24	-4314.77	3667.80	5659.78	0.83	447896.05	639101.47	
12981.00	90.84	132.53	7542.02	-4378.91	3737.87	5754.38	0.25	447831.91	639171.54	
13076.00	91.27	132.38	7540.27	-4443.03	3807.95	5848.97	0.48	447767.79	639241.62	
13171.00	91.47	132.85	7538.00	-4507.33	3877.84	5943.57	0.54	447703.49	639311.51	
13266.00	90.70	132.87	7536.20	-4571.94	3947.46	6038.21	0.81	447638.88	639381.13	
13361.00	90.63	133.83	7535.10	-4637.14	4016.54	6132.93	1.01	447573.68	639450.21	
13456.00	91.26	134.96	7533.53	-4703.60	4084.41	6227.76	1.36	447507.22	639518.08	
13551.00	89.23	133.96	7533.13	-4770.13	4152.21	6322.60	2.38	447440.69	639585.88	
13645.00	88.53	133.85	7534.97	-4835.30	4219.92	6416.38	0.75	447375.52	639653.59	
13740.00	88.81	135.78	7537.17	-4902.24	4287.29	6511.23	2.05	447308.58	639720.96	
13834.00	90.00	136.73	7538.15	-4970.14	4352.28	6605.19	1.62	447240.68	639785.95	
13929.00	89.58	137.75	7538.49	-5039.89	4416.78	6700.19	1.16	447170.93	639850.45	
14024.00	91.05	139.34	7537.97	-5111.09	4479.67	6795.17	2.28	447099.73	639913.34	
14119.00	89.72	135.68	7537.33	-5181.12	4543.82	6890.15	4.10	447029.70	639977.49	
14214.00	89.72	131.75	7537.80	-5246.76	4612.47	6984.90	4.14	446964.06	640046.14	
14309.00	87.41	132.38	7540.18	-5310.38	4682.97	7079.41	2.52	446900.44	640116.64	
14403.00	91.12	136.77	7541.38	-5376.32	4749.90	7173.22	6.11	446834.50	640183.57	
14498.00	89.09	134.08	7541.21	-5443.99	4816.56	7268.13	3.55	446766.83	640250.23	
14593.00	90.42	134.57	7541.62	-5510.36	4884.52	7362.96	1.49	446700.46	640318.19	
14687.00	88.04	133.29	7542.88	-5575.57	4952.21	7456.74	2.87	446635.25	640385.88	
14782.00	88.18	133.38	7546.01	-5640.73	5021.27	7551.42	0.18	446570.09	640454.94	
14877.00	86.22	132.13	7550.65	-5705.14	5090.94	7645.95	2.45	446505.68	640524.61	
14971.00	86.43	132.87	7556.68	-5768.51	5160.10	7739.37	0.82	446442.31	640593.77	
15065.00	86.57	133.14	7562.42	-5832.51	5228.71	7832.88	0.32	446378.31	640662.38	
15160.00	88.18	132.80	7566.77	-5897.19	5298.15	7927.45	1.73	446313.63	640731.82	
15256.00	89.86	134.65	7568.41	-5963.53	5367.51	8023.20	2.60	446247.29	640801.18	
15350.00	89.51	133.69	7568.93	-6029.03	5434.93	8117.02	1.09	446181.79	640868.60	
15445.00	89.65	134.79	7569.62	-6095.30	5502.99	8211.85	1.17	446115.52	640936.66	
15539.00	89.93	137.23	7569.97	-6162.92	5568.27	8305.80	2.61	446047.90	641001.94	
15634.00	89.51	137.55	7570.43	-6232.84	5632.58	8400.80	0.56	445977.98	641066.25	
15728.00	90.21	139.30	7570.66	-6303.16	5694.96	8494.78	2.01	445907.66	641128.63	
15823.00	88.04	137.22	7572.11	-6374.03	5758.19	8589.76	3.16	445836.79	641191.86	
15918.00	87.41	135.50	7575.88	-6442.72	5823.70	8684.65	1.93	445768.10	641257.37	
16014.00	86.92	134.51	7580.63	-6510.53	5891.49	8780.43	1.15	445700.29	641325.16	
16109.00	89.65	135.39	7583.47	-6577.61	5958.68	8875.27	3.02	445633.21	641392.35	
16204.00	90.21	135.86	7583.59	-6645.51	6025.12	8970.21	0.77	445565.31	641458.79	
16299.00	89.79	135.93	7583.59	-6713.73	6091.24	9065.16	0.45	445497.09	641524.91	
16413.00	89.30	135.22	7584.50	-6795.14	6171.03	9179.08	0.76	445415.68	641604.70	Last Wft Svy
16482.00	89.30	135.22	7585.34	-6844.11	6219.63	9248.01	0.00	445366.71	641653.30	Proj. To Bit



A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

February 6, 2014

BOPCO, LP
P O Box 2760
Midland, TX 79702

Attn: Drilling Department

RE: Poker Lake Unit 322H

Please find enclosed a copy of the survey from 0.00' to 6805.00' ran on the above referenced well.

If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations



Company: Bopco
Lease/Well: Poker Lake Unit/322H
Location: 22 mile E dir from Malaga
Rig Name: McVay 5
State/County: New Mexico/Eddy
Latitude: 32.24, Longitude: -103.90
GRID North is 0.23 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 19 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: ...lake unit 322h_gyro survey.ut

Minimum Curvature Method

Report Date/Time: 2/6/2014 / 10:32

Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Gene Heiss

Poker Lake Unit 322H / API 30-015-40791

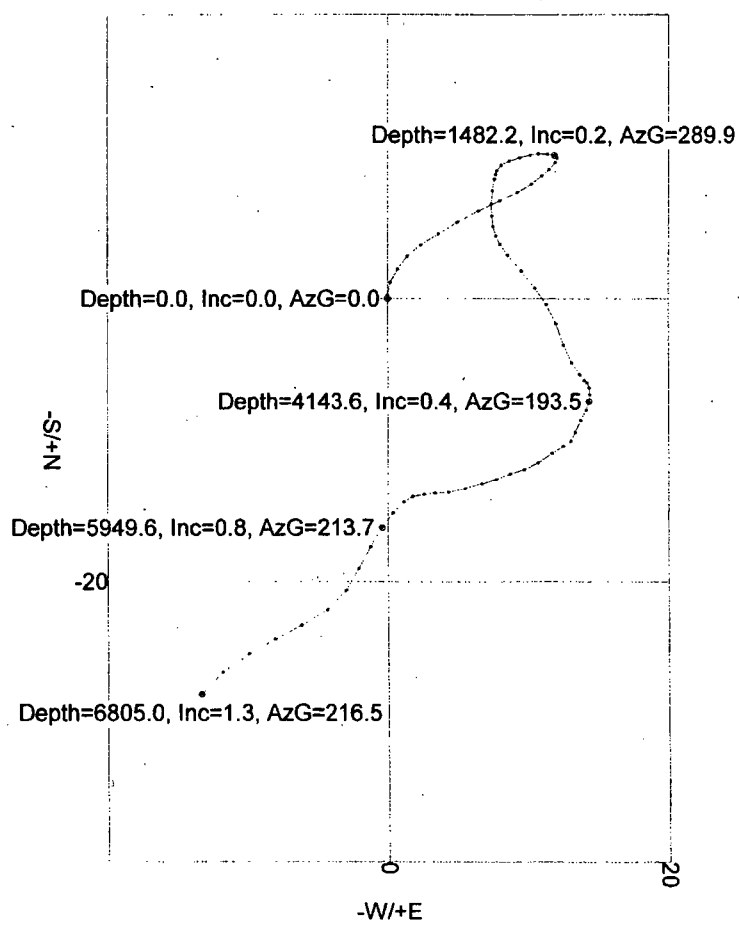
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
56.45	0.53	358.39	56.45	0.26	-0.01	0.26	0.26	358.39	0.94
151.50	0.57	24.03	151.49	1.13	0.17	1.13	1.15	8.74	0.28
246.55	0.70	31.36	246.54	2.06	0.67	2.06	2.17	17.99	0.16
341.60	0.69	44.84	341.58	2.96	1.37	2.96	3.26	24.87	0.17
436.65	0.86	54.24	436.62	3.78	2.35	3.78	4.45	31.87	0.22
532.70	0.88	61.35	532.66	4.55	3.58	4.55	5.79	38.17	0.12
626.75	1.02	55.41	626.70	5.38	4.90	5.38	7.28	42.37	0.18
721.80	1.07	69.12	721.73	6.17	6.43	6.17	8.91	46.17	0.27
816.85	0.93	60.81	816.77	6.86	7.93	6.86	10.49	49.13	0.21
911.90	0.74	69.08	911.81	7.46	9.18	7.46	11.83	50.90	0.24
1006.95	0.70	50.32	1006.85	8.05	10.20	8.05	13.00	51.72	0.25
1102.00	0.42	55.25	1101.90	8.62	10.94	8.62	13.93	51.75	0.30
1197.05	0.39	46.21	1196.94	9.05	11.46	9.05	14.60	51.71	0.07
1292.10	0.39	36.36	1291.99	9.54	11.89	9.54	15.24	51.27	0.07
1387.15	0.13	337.95	1387.04	9.90	12.04	9.90	15.59	50.58	0.36
1482.20	0.21	289.94	1482.09	10.06	11.83	10.06	15.53	49.64	0.17
1577.25	0.41	275.30	1577.14	10.15	11.33	10.15	15.21	48.15	0.22
1672.30	0.34	269.88	1672.19	10.18	10.71	10.18	14.78	46.46	0.09

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1767.35	0.41	253.81	1767.24	10.08	10.11	10.08	14.28	45.06	0.13
1862.40	0.51	258.32	1862.28	9.90	9.37	9.90	13.63	43.40	0.11
1957.45	0.46	245.96	1957.33	9.66	8.61	9.66	12.94	41.69	0.12
2052.50	0.32	234.30	2052.38	9.35	8.04	9.35	12.34	40.69	0.16
2147.55	0.31	202.45	2147.43	8.96	7.73	8.96	11.83	40.78	0.18
2242.60	0.02	131.83	2242.48	8.71	7.64	8.71	11.59	41.25	0.32
2337.65	0.40	195.23	2337.52	8.39	7.66	8.39	11.29	42.05	0.41
2432.70	0.60	188.80	2432.57	7.58	7.40	7.58	10.59	44.32	0.22
2527.75	0.54	180.87	2527.62	6.64	7.32	6.64	9.89	47.77	0.10
2622.80	0.47	174.14	2622.66	5.81	7.35	5.81	9.37	51.70	0.10
2717.85	0.41	168.35	2717.71	5.09	7.46	5.09	9.03	55.71	0.08
2812.90	0.43	156.71	2812.76	4.43	7.67	4.43	8.86	59.99	0.09
2908.95	0.38	154.12	2908.81	3.82	7.95	3.82	8.82	64.36	0.06
3003.00	0.76	138.26	3002.85	3.07	8.50	3.07	9.04	70.14	0.44
3098.05	1.03	140.50	3097.89	1.94	9.47	1.94	9.66	78.41	0.28
3193.10	0.84	141.02	3192.93	0.74	10.45	0.74	10.47	85.96	0.20
3288.15	0.86	149.59	3287.97	-0.42	11.25	-0.42	11.28	92.16	0.14
3383.20	0.96	155.72	3383.00	-1.77	11.94	-1.77	12.07	98.41	0.14
3478.25	0.94	162.03	3478.04	-3.23	12.51	-3.23	12.92	104.47	0.11
3573.30	0.75	147.86	3573.08	-4.49	13.08	-4.49	13.83	108.96	0.30
3668.35	0.47	144.58	3668.12	-5.34	13.63	-5.34	14.64	111.38	0.29
3763.40	0.15	123.87	3763.17	-5.72	13.96	-5.72	15.09	112.29	0.36
3858.45	0.19	134.52	3858.22	-5.90	14.17	-5.90	15.35	112.60	0.05
3953.50	0.31	171.37	3953.27	-6.26	14.32	-6.26	15.63	113.61	0.20
4048.55	0.27	179.38	4048.32	-6.73	14.36	-6.73	15.86	115.12	0.06
4143.60	0.36	193.51	4143.37	-7.24	14.29	-7.24	16.02	116.87	0.12
4238.65	0.39	200.93	4238.42	-7.83	14.11	-7.83	16.14	119.04	0.06
4333.70	0.62	213.75	4333.46	-8.56	13.71	-8.56	16.16	121.99	0.26
4428.75	0.53	193.88	4428.51	-9.41	13.32	-9.41	16.31	125.26	0.23
4523.80	0.37	221.70	4523.56	-10.07	13.01	-10.07	16.45	127.73	0.28
4618.85	0.43	247.62	4618.60	-10.43	12.48	-10.43	16.26	129.89	0.20
4713.90	0.74	234.98	4713.65	-10.92	11.64	-10.92	15.96	133.16	0.36
4808.95	0.71	236.49	4808.69	-11.60	10.65	-11.60	15.74	137.46	0.04
4904.00	0.65	254.66	4903.73	-12.07	9.64	-12.07	15.44	141.40	0.24
4999.05	0.58	251.02	4998.78	-12.37	8.66	-12.37	15.10	144.99	0.08
5094.10	0.68	245.22	5093.82	-12.76	7.70	-12.76	14.90	148.90	0.12
5189.15	0.67	260.63	5188.87	-13.09	6.84	-13.09	14.67	153.11	0.19
5284.20	0.82	249.01	5283.91	-13.42	5.45	-13.42	14.48	157.89	0.22
5379.25	0.64	268.33	5378.95	-13.68	4.29	-13.68	14.33	162.60	0.31

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5474.30	0.49	265.06	5474.00	-13.73	3.34	-13.73	14.13	166.31	0.16
5559.35	0.57	259.72	5559.04	-13.84	2.56	-13.84	14.07	169.51	0.11
5664.40	0.29	261.22	5664.09	-13.97	1.78	-13.97	14.08	172.74	0.27
5759.45	0.65	230.41	5759.14	-14.35	1.12	-14.35	14.39	175.52	0.45
5854.50	0.71	219.17	5854.18	-15.15	0.34	-15.15	15.15	178.72	0.15
5949.55	0.83	213.70	5949.22	-16.18	-0.42	-16.18	16.18	181.47	0.15
6044.60	1.06	210.74	6044.26	-17.51	-1.25	-17.51	17.56	184.08	0.25
6139.65	1.07	206.29	6139.29	-19.06	-2.09	-19.06	19.18	186.26	0.09
6234.70	1.12	211.78	6234.32	-20.65	-2.97	-20.65	20.86	188.20	0.12
6329.75	1.31	237.50	6329.35	-22.02	-4.37	-22.02	22.45	191.24	0.60
6424.80	1.28	241.46	6424.38	-23.10	-6.22	-23.10	23.93	195.06	0.10
6519.80	1.27	243.76	6519.36	-24.07	-8.09	-24.07	25.40	198.57	0.05
6614.90	1.37	238.78	6614.43	-25.13	-10.00	-25.13	27.05	201.71	0.16
6709.95	1.37	233.10	6709.45	-26.40	-11.88	-26.40	28.95	204.23	0.14
6805.00	1.25	216.53	6804.48	-27.92	-13.41	-27.92	30.97	205.66	0.42



Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Gene Heiss
Poker Lake Unit 322H / API 30-015-40791



VES Survey Date: 01/13/2014