

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: December 27, 2013

Attention: Brian Braun

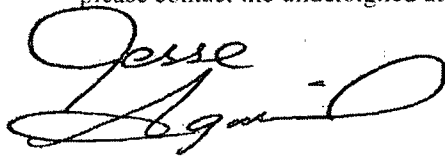
30-015-40771

Re: BOPCO, LP
Well: Poker Lake Unit 321H
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>
David Geerdes	321H	6916 MD	12/11/2013	Measurement
MWD Supervisor		16051 MD	12/27/2013	While Drilling

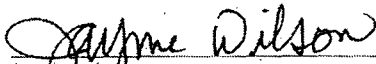
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

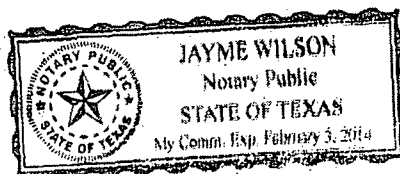


Jesse Aguilar
MWD Ops Coordinator

On this, the 3rd day of January, 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.

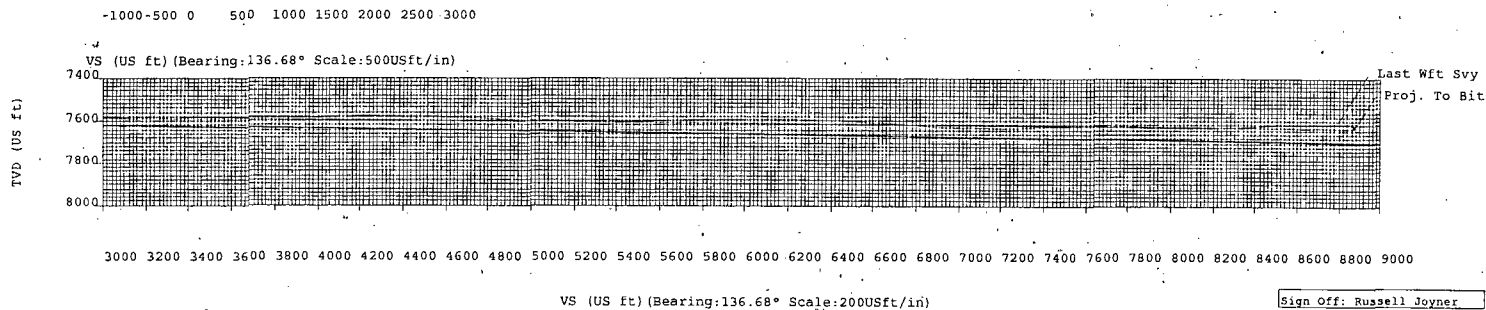
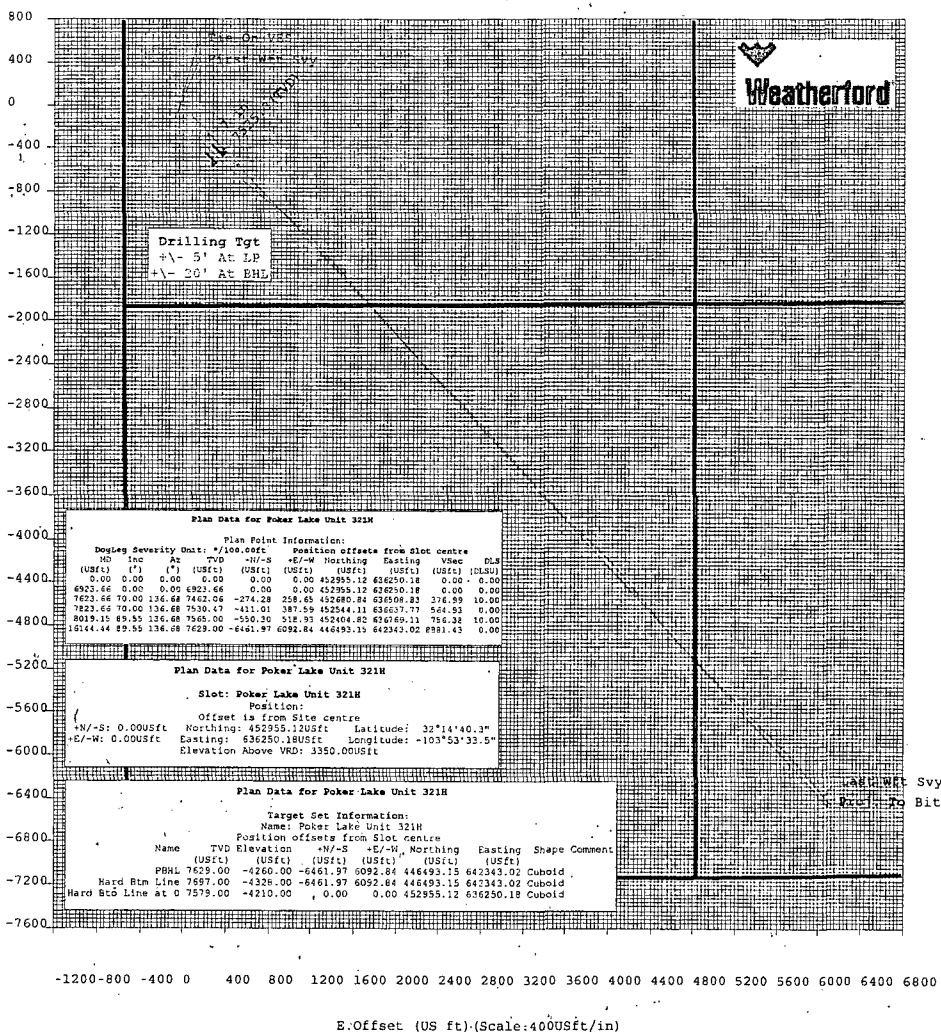
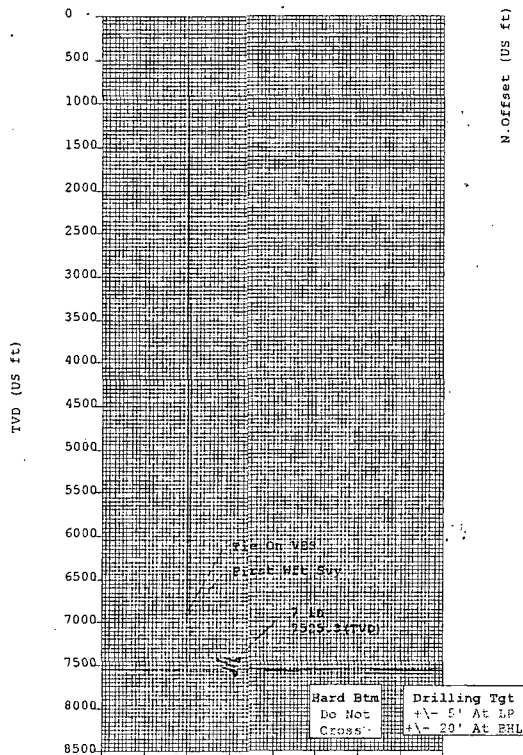

Notary Public



BOPCO, L.P.
Poker Lake Unit 321H
Eddy Co, NM



KE: 3369
 GR: 3350



5D Survey Report

BOPCO, L.P.

Field Name: *Eddy Co, NM Nad27 NMEZ*

Site Name: *Poker Lake Unit 321H*

Well Name: *Poker Lake Unit 321H*

Survey: *Wft Svy*

27 December 2013



Weatherford®



Weatherford[®]

Poker Lake Unit 321H

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 321H	Units : US ft	North Reference : Grid	Convergence Angle : 0.24	
	Position	Northing : 452955.12 US ft	Latitude : 32° 14' 40.28"	
		Easting : 636250.18 US ft	Longitude : -103° 53' 33.49"	
	Elevation above Mean Sea Level: 3350.00 US ft			
Comment :				
Slot Name Poker Lake Unit 321H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 452955.12 US ft	Latitude : 32° 14' 40.28"	
	+E / -W : 0.00 US ft	Easting : 636250.18 US ft	Longitude : -103° 53' 33.49"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3350.00 US ft				
Comment :				
Well Name Poker Lake Unit 321H	Type : Main well		UWI :	
	Rig Height / Drill Floor : 19.00 US ft		Comment :	
	Relative to Mean Sea Level: 3369.00 US ft			
	Closure Distance : 8894.22 US ft		Closure Azimuth : 136.513°	
Vertical Section (Position of Origin Relative to Slot)				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 136.68°				

Target Set	
Name : Poker Lake Unit	Number of Targets : 3
321H	

Comment :

Target Name: PBHL Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : -6461.97 US ft	Northing : 446493.15 US ft	Latitude : 32° 13' 36.08"	
	+E / -W : 6092.84 US ft	Easting : 642343.02 US ft	Longitude : -103° 52' 22.87"	
	TVD (Drill Floor) : 7629.00 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

SD Survey Report

Target Name: Hard Btm Line Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S: 6461.97 US ft	Northing: 446493.15 US ft	Latitude: 32°13'36.08"
	+E / -W: 6092.84 US ft	Easting: 642343.02 US ft	Longitude: -103°52'22.87"
	TVD (Drill Floor): 7697.00 US ft		
Target Name: Hard Btm Line at 0 Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S: 0.00 US ft	Northing: 452955.12 US ft	Latitude: 32°14'40.28"
	+E / -W: 0.00 US ft	Easting: 636250.18 US ft	Longitude: -103°53'33.49"
	TVD (Drill Floor): 7579.00 US ft		
Orientation	Azimuth: 136.68°	Inclination: -0.76°	
	Dimensions Length: 17762.00 US ft	Breadth: 0.00 US ft	Height: 1.00 US ft

Casing Points (Relative to Slot centre, TVD relative to Drill Floor)								
Easting (US ft)	Northing (US ft)	E Offset (US ft)	N Offset (US ft)	TVD (US ft)	Inc (°)	Az (°)	MD (US ft)	Name
636593.63	452458.81	343.45	-496.31	7526.17	73.03	134.53	7826.00	7 in

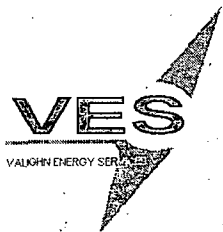
Well path created using minimum curvature

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)	Northing (US ft)	Easting (US ft)	DLS (°/100 US ft)	VS (US ft)	Comment
6883.00	1.85	204.16	6881.76	-80.71	-49.95	452874.41	636200.23	0.00	24.45	Tie On VES
6916.00	2.21	180.23	6914.74	-81.83	-50.17	452873.29	636200.01	2.76	25.12	First Wft Svy
6946.00	4.68	157.12	6944.68	-83.54	-49.70	452871.58	636200.48	9.29	26.68	
6977.00	7.26	150.79	6975.51	-86.41	-48.25	452868.71	636201.93	8.58	29.77	
7009.00	9.93	147.22	7007.15	-90.50	-45.77	452864.62	636204.41	8.50	34.44	
7041.00	12.78	146.31	7038.52	-95.77	-42.31	452859.35	636207.87	8.92	40.64	
7072.00	15.07	143.50	7068.61	-101.86	-38.01	452853.26	636212.17	7.70	48.03	
7103.00	17.53	139.97	7098.36	-108.67	-32.61	452846.45	636217.57	8.55	56.69	
7135.00	20.15	137.18	7128.64	-116.41	-25.76	452838.71	636224.42	8.66	67.02	
7167.00	23.62	136.80	7158.33	-125.13	-17.63	452829.99	636232.55	10.85	78.94	
7199.00	27.48	135.47	7187.20	-135.07	-8.06	452820.05	636242.12	12.19	92.74	
7230.00	30.88	135.54	7214.26	-145.85	2.54	452809.27	636252.72	10.97	107.85	
7262.00	34.29	135.66	7241.22	-158.16	14.59	452796.96	636264.77	10.66	125.08	
7293.00	37.02	136.51	7266.41	-171.18	27.12	452783.94	636277.30	8.95	143.14	
7325.00	39.73	137.26	7291.49	-185.68	40.69	452769.44	636290.87	8.59	163.01	
7357.00	42.62	137.98	7315.58	-201.24	54.89	452753.88	636305.07	9.15	184.07	
7388.00	45.69	137.54	7337.81	-217.23	69.41	452737.89	636319.59	9.95	205.66	
7419.00	49.67	136.99	7358.68	-234.06	84.96	452721.06	636335.14	12.91	228.57	
7450.00	53.87	136.12	7377.86	-251.73	101.70	452703.39	636351.88	13.73	252.92	
7481.00	57.83	135.53	7395.26	-270.12	119.58	452685.00	636369.76	12.87	278.56	
7511.00	60.21	135.60	7410.70	-288.49	137.59	452666.63	636387.77	7.94	304.28	
7542.00	62.70	135.62	7425.51	-307.95	156.63	452647.17	636406.81	8.03	331.50	
7574.00	65.94	135.72	7439.38	-328.57	176.78	452626.55	636426.96	10.13	360.33	
7605.00	68.07	135.86	7451.49	-349.03	196.68	452606.09	636446.86	6.88	388.87	
7636.00	68.82	135.64	7462.88	-369.68	216.80	452585.44	636466.98	2.51	417.69	
7668.00	69.29	135.25	7474.32	-390.97	237.77	452564.15	636487.95	1.86	447.57	
7699.00	69.81	135.20	7485.15	-411.59	258.22	452543.53	636508.40	1.68	476.61	
7730.00	70.15	134.99	7495.76	-432.22	278.79	452522.90	636528.97	1.27	505.72	
7742.00	70.38	134.90	7499.81	-440.20	286.78	452514.92	636536.96	2.04	517.01	

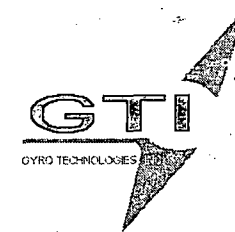
Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (ft/100 US ft)	VS (US ft)	Comment
7826.00	73.03	134.53	7526.17	-496.31	343.45	452458.81	636593.63	3.19	596.71	7 in
7867.00	74.33	134.35	7537.69	-523.86	371.55	452431.26	636621.73	3.19	636.03	
7898.00	76.38	133.33	7545.53	-544.63	393.18	452410.49	636643.36	7.34	665.99	
7929.00	78.45	132.45	7552.29	-565.22	415.35	452389.90	636665.53	7.23	696.17	
7960.00	79.58	132.83	7558.19	-585.83	437.73	452369.29	636687.91	3.84	726.53	
7991.00	81.36	131.75	7563.33	-606.40	460.35	452348.72	636710.53	6.69	757.01	
8022.00	83.61	131.08	7567.38	-626.73	483.39	452328.39	636733.57	7.57	787.61	
8052.00	85.38	130.05	7570.26	-646.15	506.08	452308.97	636756.26	6.82	817.30	
8082.00	87.90	129.04	7572.02	-665.22	529.17	452289.90	636779.35	9.05	847.02	
8112.00	90.28	129.25	7572.49	-684.15	552.43	452270.97	636802.61	7.96	876.75	
8143.00	88.74	128.59	7572.76	-703.62	576.55	452251.50	636826.73	5.40	907.46	
8235.00	89.37	128.65	7574.27	-761.04	648.42	452194.08	636898.60	0.69	998.54	
8326.00	89.23	128.54	7575.39	-817.80	719.54	452137.32	636969.72	0.20	1088.63	
8416.00	87.69	127.81	7577.80	-873.40	790.26	452081.72	637040.44	1.89	1177.61	
8507.00	91.19	128.19	7578.69	-929.42	861.95	452025.70	637112.13	3.87	1267.55	
8598.00	92.73	129.94	7575.58	-986.73	932.56	451968.39	637182.74	2.56	1357.68	
8690.00	91.68	130.05	7572.04	-1045.81	1002.99	451909.31	637253.17	1.15	1448.99	
8782.00	92.87	132.27	7568.39	-1106.31	1072.20	451848.81	637322.38	2.74	1540.48	
8874.00	93.08	134.28	7563.61	-1169.29	1139.09	451785.83	637389.27	2.19	1632.19	
8935.00	93.29	134.64	7560.22	-1211.95	1182.56	451743.17	637432.74	0.68	1693.05	
9032.00	92.38	137.64	7555.43	-1281.80	1249.68	451673.32	637499.86	3.23	1789.92	
9127.00	90.00	137.77	7553.45	-1352.05	1313.59	451603.07	637563.77	2.51	1884.87	
9222.00	90.00	138.13	7553.45	-1422.59	1377.22	451532.53	637627.40	0.38	1979.85	
9317.00	87.62	138.86	7555.43	-1493.71	1440.15	451461.41	637690.33	2.62	2074.78	
9412.00	85.38	138.11	7561.23	-1564.71	1503.00	451390.41	637753.18	2.49	2169.54	
9507.00	87.41	137.34	7567.20	-1634.86	1566.77	451320.26	637816.95	2.28	2264.34	
9601.00	90.63	138.60	7568.81	-1704.66	1629.69	451250.46	637879.87	3.68	2358.28	
9696.00	88.60	138.24	7569.44	-1775.72	1692.73	451179.40	637942.91	2.17	2453.23	
9791.00	90.49	137.09	7570.20	-1845.94	1756.71	451109.18	638006.89	2.33	2548.21	
9886.00	88.32	137.77	7571.19	-1915.89	1820.97	451039.23	638071.15	2.39	2643.19	
9981.00	89.93	137.25	7572.64	-1985.93	1885.12	450969.19	638135.30	1.78	2738.17	
10076.00	89.72	137.94	7572.93	-2056.08	1949.19	450899.04	638199.37	0.76	2833.15	
10171.00	89.09	137.59	7573.91	-2126.41	2013.04	450828.71	638263.22	0.76	2928.13	
10266.00	89.44	137.30	7575.13	-2196.39	2077.28	450758.73	638327.46	0.48	3023.11	
10361.00	88.46	136.85	7576.87	-2265.94	2141.97	450689.18	638392.15	1.14	3118.09	
10455.00	91.54	137.97	7576.87	-2335.13	2205.58	450619.99	638455.76	3.49	3212.07	
10550.00	89.02	136.13	7576.41	-2404.66	2270.30	450550.46	638520.48	3.28	3307.06	
10646.00	89.16	135.92	7577.93	-2473.74	2336.95	450481.38	638587.13	0.26	3403.04	
10741.00	89.58	133.92	7578.98	-2540.81	2404.21	450414.31	638654.39	2.15	3497.98	
10835.00	90.00	133.35	7579.32	-2605.68	2472.24	450349.44	638722.42	0.75	3591.85	
10930.00	88.81	134.87	7580.31	-2671.79	2540.44	450283.33	638790.62	2.03	3686.74	
11025.00	91.47	136.39	7580.08	-2739.69	2606.87	450215.43	638857.05	3.22	3781.72	
11120.00	87.55	134.94	7580.89	-2807.63	2673.24	450147.49	638923.42	4.40	3876.68	
11215.00	92.38	137.04	7580.95	-2875.93	2739.22	450079.19	638989.40	5.54	3971.64	
11309.00	91.26	136.41	7577.96	-2944.33	2803.62	450010.79	639053.80	1.37	4065.59	
11404.00	92.38	137.08	7574.94	-3013.48	2868.69	449941.64	639118.87	1.37	4160.54	
11499.00	88.67	135.92	7574.07	-3082.38	2934.07	449872.74	639184.25	4.09	4255.52	
11594.00	89.72	137.05	7575.41	-3151.26	2999.47	449803.86	639249.65	1.62	4350.50	
11689.00	89.09	137.11	7576.40	-3220.83	3064.16	449734.29	639314.34	0.67	4445.49	
11783.00	88.53	137.56	7578.35	-3289.93	3127.85	449665.19	639378.03	0.76	4539.47	
11878.00	88.11	137.26	7581.13	-3359.84	3192.11	449595.28	639442.29	0.54	4634.42	
11973.00	89.58	138.92	7583.05	-3430.52	3255.55	449524.60	639505.73	2.33	4729.36	
12068.00	85.44	136.97	7587.17	-3500.98	3319.11	449454.14	639569.29	4.82	4824.23	
12161.00	87.62	136.76	7592.80	-3568.72	3382.57	449386.41	639632.75	2.35	4917.05	
12256.00	89.58	136.31	7595.12	-3637.64	3447.90	449317.48	639698.08	2.12	5012.02	
12351.00	88.67	135.62	7596.57	-3705.93	3513.93	449249.19	639764.11	1.20	5107.00	
12446.00	90.42	135.55	7597.33	-3773.78	3580.41	449181.34	639830.59	1.84	5201.97	
12541.00	87.83	133.75	7598.78	-3840.53	3647.98	449114.59	639898.16	3.32	5296.89	
12635.00	89.93	133.66	7600.62	-3905.46	3715.91	449049.66	639966.09	2.24	5390.74	

5D Survey Report

Survey Points (Relative to Slot Centre, TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100 US ft)	VS (US ft)	
12730.00	91.96	133.97	7599.05	-3971.22	3784.45	448983.90	640034.63	2.16	5485.60	
12825.00	91.05	133.13	7596.56	-4036.65	3853.28	448918.47	640103.46	1.30	5580.43	
12920.00	91.82	133.58	7594.18	-4101.85	3922.33	448853.27	640172.51	0.94	5675.24	
13015.00	90.42	133.33	7592.32	-4167.17	3991.28	448787.95	640241.46	1.50	5770.07	
13110.00	90.63	137.63	7591.45	-4234.89	4057.87	448720.23	640308.05	4.53	5865.02	
13205.00	90.70	139.08	7590.35	-4305.88	4120.99	448649.24	640371.17	1.53	5959.97	
13299.00	90.21	139.88	7589.60	-4377.33	4182.06	448577.79	640432.24	1.00	6053.85	
13394.00	91.26	141.69	7588.38	-4450.92	4242.12	448504.20	640492.30	2.20	6148.60	
13490.00	87.20	139.81	7589.67	-4525.24	4302.84	448429.88	640553.02	4.66	6244.32	
13584.00	89.02	141.33	7592.77	-4597.80	4362.50	448357.32	640612.68	2.52	6338.05	
13679.00	88.25	140.87	7595.03	-4671.71	4422.14	448283.41	640672.32	0.94	6432.74	
13775.00	86.71	140.46	7599.25	-4745.89	4482.93	448209.23	640733.11	1.66	6528.41	
13869.00	86.99	138.37	7604.42	-4817.17	4543.99	448137.95	640794.17	2.24	6622.15	
13964.00	87.13	137.31	7609.29	-4887.49	4607.67	448067.63	640857.85	1.12	6717.01	
14059.00	85.03	136.39	7615.79	-4956.64	4672.48	447998.48	640922.66	2.41	6811.78	
14154.00	87.06	135.79	7622.34	-5024.91	4738.21	447930.21	640988.39	2.23	6906.54	
14250.00	89.79	135.32	7624.98	-5093.41	4805.40	447861.71	641055.58	2.89	7002.48	
14344.00	88.88	134.18	7626.07	-5159.58	4872.15	447795.54	641122.33	1.55	7096.42	
14439.00	89.16	133.60	7627.69	-5225.44	4940.60	447729.68	641190.78	0.68	7191.29	
14534.00	92.03	134.37	7626.71	-5291.40	5008.95	447663.72	641259.13	3.13	7286.17	
14629.00	92.03	134.64	7623.34	-5357.95	5076.66	447597.17	641326.84	0.28	7381.04	
14723.00	91.26	134.12	7620.64	-5423.67	5143.81	447531.45	641393.99	0.99	7474.92	
14818.00	90.49	133.60	7619.19	-5489.48	5212.30	447465.64	641462.48	0.98	7569.80	
14913.00	89.86	135.38	7618.90	-5556.05	5280.07	447399.07	641530.25	1.99	7664.72	
15007.00	88.60	135.56	7620.17	-5623.06	5345.98	447332.06	641596.16	1.35	7758.69	
15102.00	88.95	134.57	7622.20	-5690.29	5413.06	447264.83	641663.24	1.11	7853.63	
15197.00	87.90	133.55	7624.81	-5756.33	5481.30	447198.79	641731.48	1.54	7948.49	
15293.00	90.21	134.26	7626.39	-5822.89	5550.46	447132.23	641800.64	2.52	8044.36	
15388.00	90.07	133.44	7626.16	-5888.70	5618.97	447066.42	641869.15	0.88	8139.24	
15481.00	90.56	135.77	7625.65	-5954.00	5685.17	447001.12	641935.35	2.56	8232.17	
15576.00	92.45	137.02	7623.15	-6022.76	5750.67	446932.36	642000.85	2.38	8327.13	
15671.00	93.78	139.44	7617.99	-6093.51	5813.85	446861.61	642064.03	2.90	8421.95	
15766.00	92.24	140.07	7613.00	-6165.92	5875.14	446789.20	642125.32	1.75	8516.68	
15861.00	90.70	139.29	7610.56	-6238.32	5936.59	446716.80	642186.77	1.82	8611.51	
15956.00	91.05	139.62	7609.11	-6310.50	5998.33	446644.62	642248.51	0.51	8706.39	
16051.00	90.42	139.21	7607.90	-6382.64	6060.13	446572.48	642310.31	0.79	8801.27	Last Wft Svy
16144.00	90.42	139.21	7607.21	-6453.05	6120.89	446502.07	642371.07	0.00	8894.18	Proj. To Bit



Company: Bopco
Lease/Well: Poker Lake Unit/No. 321H
Location: 20 miles East of Malaga
Rig Name: McVay 5
State/County: New Mexico/Eddy
Latitude: 32.24, Longitude: -103.89
GRID North is 0.24 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 19.5 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: ...lake unit 321h_gyro survey.ut

Minimum Curvature Method

Report Date/Time: 1/7/2014 / 14:33

Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Gene Heiss

Poker Lake Unit No. 321H / API 30-015-40771

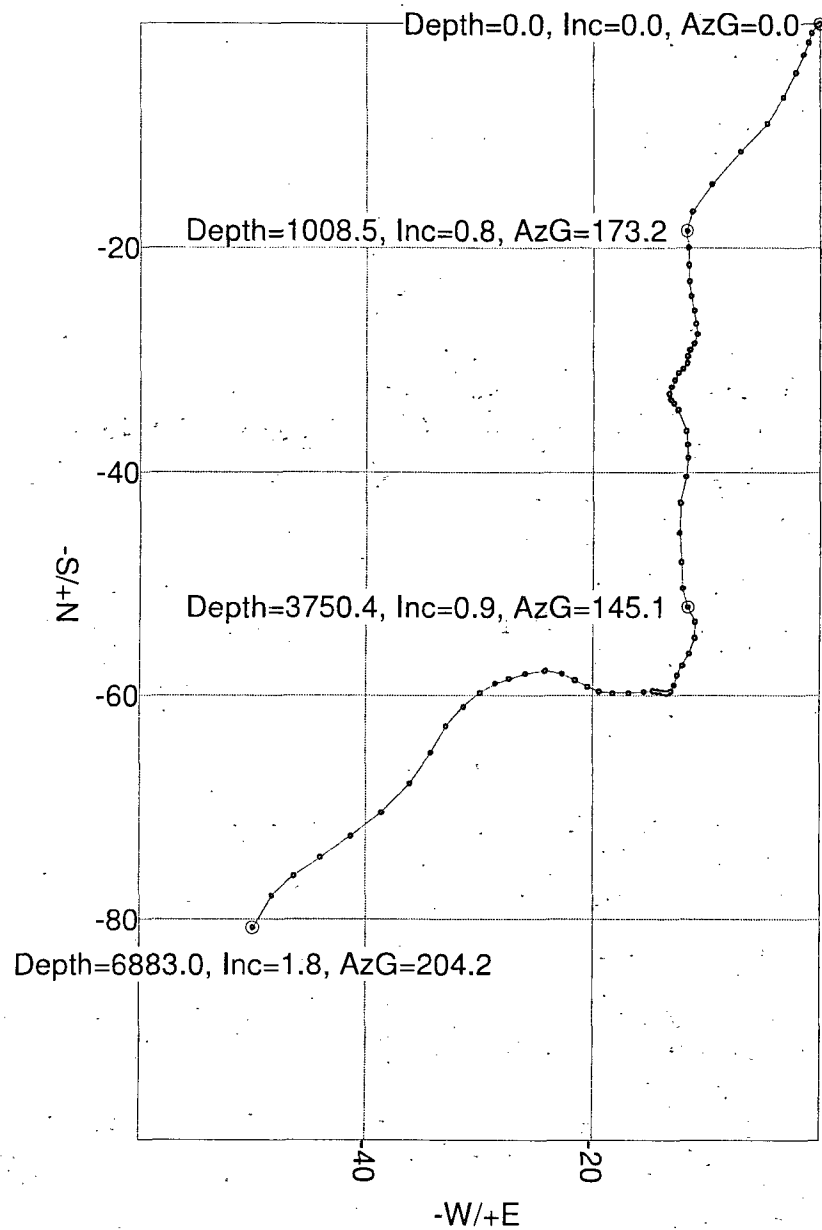
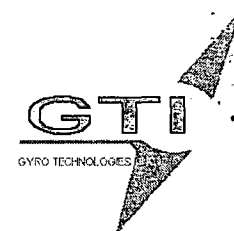
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
62.95	0.55	228.31	62.95	-0.20	-0.23	-0.20	0.30	228.31	0.87
157.50	0.41	202.33	157.50	-0.82	-0.69	-0.82	1.07	220.28	0.27
252.05	0.67	192.86	252.04	-1.67	-0.95	-1.67	1.92	209.53	0.28
346.60	0.80	207.60	346.58	-2.79	-1.37	-2.79	3.11	206.22	0.24
441.15	1.33	204.07	441.12	-4.37	-2.12	-4.37	4.86	205.92	0.57
535.70	1.61	207.13	535.64	-6.56	-3.18	-6.56	7.29	205.86	0.31
630.25	1.74	219.26	630.15	-8.85	-4.69	-8.85	10.02	207.93	0.40
724.80	2.40	224.39	724.63	-11.38	-6.99	-11.38	13.35	211.55	0.73
819.35	2.25	218.41	819.11	-14.25	-9.52	-14.25	17.14	213.76	0.30
913.90	1.42	207.51	913.61	-16.74	-11.22	-16.74	20.15	213.83	0.95
1008.45	0.82	173.25	1008.14	-18.45	-11.68	-18.45	21.83	212.34	0.92
1103.00	0.97	179.19	1102.68	-19.92	-11.59	-19.92	23.04	210.18	0.19
1197.55	0.92	178.85	1197.22	-21.48	-11.56	-21.48	24.39	208.29	0.06
1292.10	0.82	179.02	1291.75	-22.91	-11.53	-22.91	25.65	206.72	0.11
1386.65	0.83	164.72	1386.29	-24.25	-11.34	-24.25	26.77	205.07	0.22
1481.20	0.74	175.36	1480.84	-25.52	-11.11	-25.52	27.83	203.53	0.18
1575.75	0.69	163.55	1575.38	-26.68	-10.90	-26.68	28.82	202.23	0.16
1670.30	0.51	188.88	1669.92	-27.64	-10.80	-27.64	29.68	201.35	0.34
1764.85	0.49	204.35	1764.47	-28.43	-11.04	-28.43	30.49	201.22	0.14
1859.40	0.41	219.84	1859.02	-29.06	-11.42	-29.06	31.22	201.46	0.15

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
1953.95	0.35	177.62	1953.56	-29.61	-11.63	-29.61	31.81	201.44	0.30
2048.50	0.38	195.46	2048.11	-30.20	-11.70	-30.20	32.38	201.18	0.12
2143.05	0.39	230.12	2142.66	-30.70	-12.03	-30.70	32.97	201.39	0.24
2237.60	0.35	227.97	2237.21	-31.10	-12.49	-31.10	33.51	201.88	0.04
2332.15	0.48	196.74	2331.76	-31.68	-12.82	-31.68	34.17	202.03	0.27
2426.70	0.39	209.50	2426.30	-32.34	-13.09	-32.34	34.89	202.04	0.14
2521.25	0.35	181.54	2520.85	-32.91	-13.26	-32.91	35.48	201.95	0.19
2615.80	0.31	151.80	2615.40	-33.42	-13.15	-33.42	35.91	201.47	0.18
2710.35	0.27	134.22	2709.95	-33.80	-12.87	-33.80	36.17	200.84	0.10
2804.90	0.57	152.74	2804.50	-34.38	-12.49	-34.38	36.57	199.97	0.35
2994.00	0.66	165.97	2993.59	-36.26	-11.80	-36.26	38.13	198.02	0.09
3088.55	0.79	179.00	3088.13	-37.44	-11.65	-37.44	39.21	197.29	0.22
3183.10	0.71	174.95	3182.67	-38.67	-11.59	-38.67	40.37	196.69	0.10
3277.65	1.34	191.44	3277.21	-40.34	-11.76	-40.34	42.02	196.25	0.73
3372.20	1.57	193.31	3371.72	-42.68	-12.28	-42.68	44.41	196.05	0.24
3466.75	1.68	172.43	3466.24	-45.31	-12.39	-45.31	46.97	195.30	0.63
3561.30	1.52	178.88	3560.75	-47.93	-12.18	-47.93	49.46	194.26	0.25
3655.85	1.31	176.66	3655.27	-50.27	-12.10	-50.27	51.70	193.53	0.23
3750.40	0.94	145.06	3749.80	-51.99	-11.59	-51.99	53.26	192.57	0.75
3844.95	0.88	166.26	3844.34	-53.33	-10.97	-53.33	54.45	191.62	0.36
3939.50	0.95	197.01	3938.88	-54.78	-11.03	-54.78	55.88	191.38	0.52
4034.05	0.82	198.87	4033.42	-56.17	-11.48	-56.17	57.33	191.55	0.15
4128.60	0.67	220.99	4127.96	-57.23	-12.05	-57.23	58.48	191.89	0.34
4223.15	0.62	193.37	4222.51	-58.14	-12.53	-58.14	59.48	192.17	0.33
4317.70	0.50	200.44	4317.05	-59.03	-12.80	-59.03	60.40	192.23	0.15
4412.25	0.29	215.12	4411.60	-59.61	-13.08	-59.61	61.03	192.38	0.24
4506.80	0.26	281.32	4506.15	-59.77	-13.43	-59.77	61.26	192.66	0.32
4601.35	0.26	278.44	4600.70	-59.70	-13.85	-59.70	61.28	193.06	0.01
4695.90	0.24	284.84	4695.25	-59.61	-14.25	-59.61	61.29	193.44	0.03
4790.45	0.26	274.30	4789.80	-59.55	-14.65	-59.55	61.32	193.83	0.05
4885.00	0.71	261.34	4884.34	-59.62	-15.44	-59.62	61.59	194.52	0.49
4979.55	0.89	269.19	4978.88	-59.72	-16.76	-59.72	62.02	195.67	0.22
5074.10	0.83	268.90	5073.42	-59.74	-18.18	-59.74	62.45	196.92	0.06
5168.65	0.64	286.16	5167.96	-59.61	-19.37	-59.61	62.68	198.00	0.31
5263.20	0.72	299.78	5262.51	-59.17	-20.39	-59.17	62.58	199.01	0.19
5357.75	0.77	296.49	5357.05	-58.59	-21.48	-58.59	62.40	200.13	0.07
5452.30	0.80	296.94	5451.59	-58.00	-22.63	-58.00	62.26	201.32	0.03
5546.85	1.11	269.60	5546.13	-57.71	-24.13	-57.71	62.56	202.69	0.57
5641.40	1.07	250.71	5640.66	-58.01	-25.88	-58.01	63.52	204.05	0.38
5735.95	0.70	257.71	5735.20	-58.43	-27.29	-58.43	64.49	205.03	0.41
5830.50	0.89	242.56	5829.74	-58.89	-28.51	-58.89	65.43	205.83	0.30
5925.05	1.03	234.04	5924.28	-59.73	-29.85	-59.73	66.77	206.55	0.21

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
6019.60	1.28	226.65	6018.81	-60.95	-31.30	-60.95	68.51	207.18	0.30
6114.15	1.53	217.27	6113.33	-62.67	-32.83	-62.67	70.75	207.64	0.36
6208.70	1.87	204.15	6207.84	-65.08	-34.22	-65.08	73.53	207.74	0.54
6303.25	2.18	222.94	6302.33	-67.80	-36.07	-67.80	76.80	208.02	0.77
6397.80	2.16	226.15	6396.81	-70.35	-38.58	-70.35	80.23	208.74	0.13
6492.35	2.10	236.97	6491.30	-72.52	-41.31	-72.52	83.47	209.67	0.43
6586.90	1.84	231.54	6585.79	-74.41	-43.95	-74.41	86.42	210.57	0.33
6681.45	1.61	239.51	6680.30	-76.03	-46.29	-76.03	89.01	211.33	0.35
6776.00	1.72	216.71	6774.81	-77.84	-48.28	-77.84	91.60	211.81	0.71
6883.00	1.85	204.16	6881.76	-80.71	-49.95	-80.71	94.91	211.75	0.38



Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Gene Heiss
Poker Lake Unit No. 321H / API 30-015-40771



VES Survey Date: 12/11/2013