

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: November 26, 2013

Attention: Brian Braun

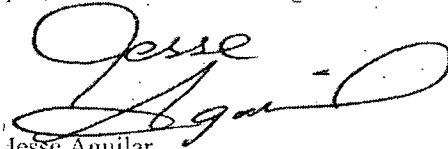
30 015 41136

Re: BOPCO, LP
Well: Poker Lake Unit 409H
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
Zack Snyder	409H	7479 MD	11/7/2013	Measurement
MWD Supervisor		14100 MD	11/25/2013	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.

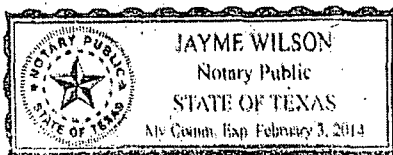


Jesse Aguilar
MWD Ops Coordinator

On this, the 27th day of November 2013, 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 409H
Eddy Co, NM



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7400.00	0.93	210.92	7399.35	-35.80	-24.80	0.00	0.00	7.89	
2	7555.01	0.93	210.92	7554.34	-37.96	-26.09	0.00	0.00	8.51	
3	8252.83	70.00	134.68	8090.51	-307.53	237.55	10.00	283.43	385.56	
4	8452.83	70.00	134.68	8158.91	-439.68	371.18	0.00	0.00	573.49	
5	8650.12	89.73	134.68	8193.46	-575.56	508.60	10.00	-0.01	766.74	
6	14168.11	89.73	134.68	8219.50	-4455.29	4432.27	0.00	0.00	6284.48	PBHL

KB ELEV: 3533
GL ELEV: 3514

WELL DETAILS

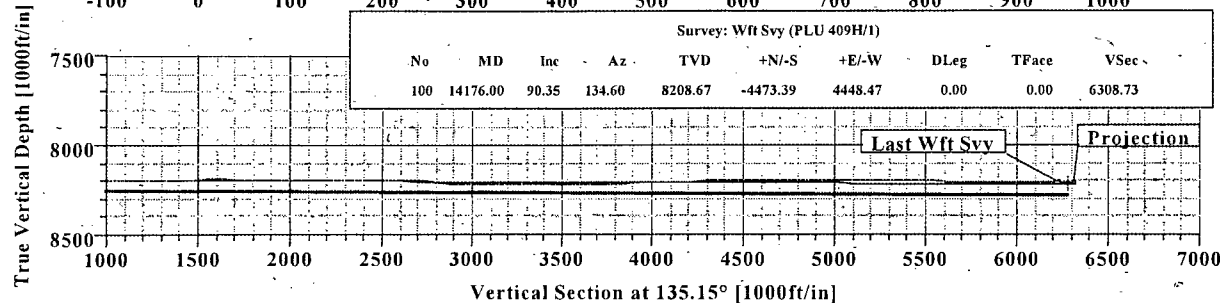
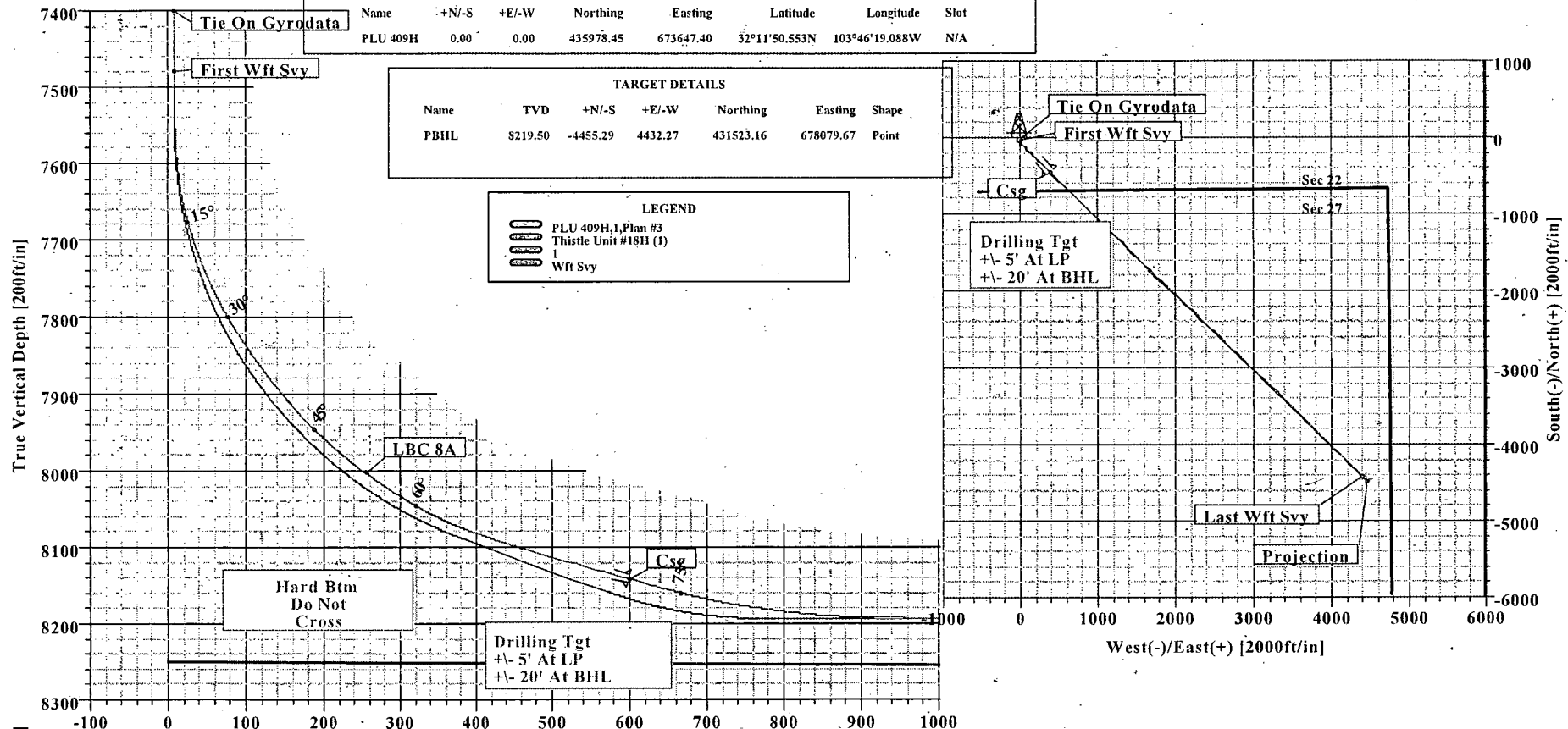
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PLU 409H	0.00	0.00	435978.45	673647.40	32°11'50.553N	103°46'19.088W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8219.50	-4455.29	4432.27	431523.16	678079.67	Point

LEGEND

- PLU 409H, 1, Plan #3
- Thistle Unit #18H (1)
- 1
- Wft Svy



Survey: Wft Svy (PLU 409H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
100	14176.00	90.35	134.60	8208.67	-4473.39	4448.47	0.00	0.00	6308.73

SITE DETAILS

Poker Lake Unit 409H
Site Centre Northing: 435978.45
Easting: 673647.40
Ground Level: 3514.00
Positional Uncertainty: 0.00
Convergence: 0.30

Survey: Wft Svy (PLU 409H/1)
Created By: Patrick Rudolph Date: 11/25/2013

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 409H Well: PLU 409H Wellpath: 1	Date: 11/25/2013 Time: 07:21:56 Page: 1 Co-ordinate(NE) Reference: Well: PLU 409H, Grid North Vertical (TVD) Reference: SITE 3533.0 Section (VS) Reference: Well (0.00N,0.00E,135.15Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
---	--

Survey: Wft Svy Company: Weatherford Tool: MWD;MWD - Standard	Start Date: 11/15/2013 Engineer: Russell W. Joyner Tied-to: User Defined
--	---

Site: Poker Lake Unit 409H

Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3514.00 ft	Northing: 435978.45 ft Easting: 673647.40 ft	Latitude: 32 11 50.553 N Longitude: 103 46 19.088 W North Reference: Grid Grid Convergence: 0.30 deg
--	---	---

Well: PLU 409H Well Position: +N-S 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Well Position: +E-W 0.00 ft Position Uncertainty: 0.00 ft
---	---

Wellpath: 1 Current Datum: SITE Magnetic Data: 11/30/2013 Field Strength: 48358 nT Vertical Section: Depth From (TVD) ft	Height 3533.00 ft +N-S ft +E-W ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.38 deg Mag Dip Angle: 60.07 deg +E-W ft Direction deg
---	--	--

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7400.00	0.93	210.92	7399.35	-35.80	-24.80	0.00	7.89	435942.65	673622.60	Tie On Gyrodata
7479.00	1.01	192.29	7478.34	-37.03	-25.28	0.41	8.43	435941.42	673622.12	First Wft Svy.
7500.00	0.85	190.94	7499.33	-37.36	-25.35	0.77	8.61	435941.09	673622.05	
7531.00	1.05	186.94	7530.33	-37.87	-25.42	0.68	8.92	435940.58	673621.98	
7562.00	1.97	142.42	7561.32	-38.58	-25.13	4.60	9.62	435939.87	673622.27	
7593.00	4.81	127.78	7592.26	-39.79	-23.78	9.50	11.44	435938.66	673623.62	
7624.00	8.28	127.12	7623.05	-41.94	-20.97	11.20	14.94	435936.51	673626.43	
7655.00	12.04	128.36	7653.56	-45.29	-16.66	12.15	20.36	435933.16	673630.74	
7686.00	15.83	129.72	7683.65	-50.00	-10.87	12.27	27.79	435928.45	673636.53	
7717.00	19.43	131.17	7713.18	-56.10	-3.73	11.70	37.14	435922.35	673643.67	
7749.00	22.91	131.72	7743.02	-63.75	4.93	10.89	48.67	435914.70	673652.33	
7780.00	26.42	132.48	7771.19	-72.43	14.5211	37	61.59	435906.02	673661.92	
7812.00	29.85	133.60	7799.40	-82.73	25.5410	84	76.67	435895.72	673672.94	
7843.00	32.83	134.50	7825.88	-93.94	37.12	9.73	92.78	435884.51	673684.52	
7874.00	34.95	134.67	7851.61	-106.08	49.43	6.85	110.07	435872.37	673696.83	
7906.00	37.07	134.71	7877.49	-119.31	62.81	6.63	128.88	435859.14	673710.21	
7937.00	39.36	134.40	7901.85	-132.76	76.47	7.41	148.06	435845.69	673723.87	
7969.00	41.92	134.47	7926.13	-147.35	91.35	8.00	168.89	435831.10	673738.75	
7999.00	45.28	134.61	7947.85	-161.86	106.10	11.20	189.58	435816.59	673753.50	
8031.00	48.95	134.85	7969.62	-178.36	122.75	11.48	213.02	435800.09	673770.15	
8062.00	52.28	135.37	7989.29	-195.33	139.66	10.82	236.98	435783.12	673787.06	
8093.00	54.41	136.23	8007.80	-213.16	156.99	7.22	261.84	435765.29	673804.39	
8124.00	56.66	136.09	8025.34	-231.60	174.69	7.27	287.40	435746.85	673822.09	
8156.00	59.15	136.16	8042.34	-251.14	193.48	7.78	314.50	435727.31	673840.88	
8187.00	63.03	136.75	8057.32	-270.81	212.17	12.63	341.62	435707.64	673859.57	
8218.00	67.00	137.35	8070.41	-291.37	231.31	12.93	369.70	435687.08	673878.71	
8250.00	70.98	137.40	8081.89	-313.35	251.54	12.44	399.55	435665.10	673898.94	
8282.00	72.44	137.51	8091.93	-335.73	272.08	4.57	429.90	435642.72	673919.48	
8313.00	73.19	137.58	8101.09	-357.58	292.07	2.43	459.49	435620.87	673939.47	
8344.00	73.60	137.38	8109.95	-379.48	312.15	1.46	489.18	435598.97	673959.55	

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 11/25/2013	Time: 07:21:56	Page: 2
Field: Eddy County, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: PLU 409H, Grid North	
Site: Poker Lake Unit 409H	Vertical (TVD) Reference:	SITE 3533.0	
Well: PLU 409H	Section (VS) Reference:	Well (0.00N,0.00E,135.15Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8374.00	73.98	137.38	8118.32	-400.68	331.65	1.27	517.96	435577.77	673979.05	Csg
8460.00	74.63	137.31	8141.58	-461.56	387.76	0.76	600.69	435516.89	674035.16	
8489.00	74.85	137.28	8149.22	-482.12	406.73	0.76	628.65	435496.33	674054.13	
8519.00	74.35	137.23	8157.18	-503.36	426.36	1.67	657.55	435475.09	674073.76	
8550.00	76.37	136.38	8165.02	-525.23	446.89	7.04	687.53	435453.22	674094.29	
8580.00	78.81	135.35	8171.47	-546.25	467.29	8.80	716.83	435432.20	674114.69	
8611.00	81.14	134.84	8176.86	-567.87	488.84	7.69	747.35	435410.58	674136.24	
8641.00	82.49	133.85	8181.13	-588.63	510.08	5.56	777.04	435389.82	674157.48	
8671.00	83.20	133.51	8184.87	-609.18	531.61	2.62	806.80	435369.27	674179.01	
8702.00	84.46	133.83	8188.20	-630.46	553.90	4.19	837.61	435347.99	674201.30	
8732.00	87.06	133.82	8190.42	-651.18	575.48	8.67	867.52	435327.27	674222.88	
8763.00	89.16	133.19	8191.44	-672.51	597.95	7.07	898.48	435305.94	674245.35	
8793.00	88.67	132.82	8192.01	-692.96	619.89	2.05	928.46	435285.49	674267.29	
8824.00	88.32	132.58	8192.82	-713.98	642.66	1.37	959.42	435264.47	674290.06	
8854.00	87.83	132.46	8193.83	-734.24	664.76	1.68	989.37	435244.21	674312.16	
8945.00	91.40	135.30	8194.44	-797.30	730.33	5.01	1080.32	435181.15	674377.73	
9039.00	89.93	134.07	8193.35	-863.40	797.16	2.04	1174.31	435115.05	674444.56	
9134.00	87.41	133.35	8195.56	-929.02	865.80	2.76	1269.24	435049.43	674513.20	
9229.00	92.03	136.58	8196.02	-996.13	932.99	5.93	1364.20	434982.32	674580.39	
9324.00	91.68	136.47	8192.95	-1065.03	998.32	0.39	1459.13	434913.42	674645.72	
9419.00	90.14	135.76	8191.44	-1133.49	1064.17	1.78	1554.10	434844.96	674711.57	
9514.00	88.95	135.19	8192.19	-1201.21	1130.78	1.39	1649.09	434777.24	674778.18	
9609.00	88.74	134.44	8194.11	-1268.16	1198.15	0.82	1744.07	434710.29	674845.55	
9704.00	90.14	135.27	8195.03	-1335.16	1265.49	1.71	1839.06	434643.29	674912.89	
9799.00	89.79	135.58	8195.09	-1402.83	1332.17	0.49	1934.06	434575.62	674979.57	
9894.00	89.44	135.20	8195.73	-1470.46	1398.88	0.54	2029.06	434507.99	675046.28	
9989.00	89.65	135.42	8196.49	-1537.99	1465.69	0.32	2124.05	434440.46	675113.09	
10084.00	90.28	136.80	8196.54	-1606.45	1531.55	1.60	2219.04	434372.00	675178.95	
10179.00	90.14	135.93	8196.20	-1675.21	1597.11	0.93	2314.01	434303.24	675244.51	
10274.00	88.53	133.67	8197.30	-1742.14	1664.50	2.92	2409.00	434236.31	675311.90	
10369.00	88.60	134.61	8199.68	-1808.28	1732.66	0.99	2503.95	434170.17	675380.06	
10464.00	87.55	132.40	8202.87	-1873.64	1801.52	2.57	2598.85	434104.81	675448.92	
10559.00	87.27	132.59	8207.16	-1937.74	1871.49	0.36	2693.65	434040.71	675518.89	
10654.00	88.39	132.65	8210.76	-2002.03	1941.35	1.18	2788.49	433976.42	675588.75	
10749.00	87.62	132.25	8214.07	-2066.11	2011.40	0.91	2883.33	433912.34	675658.80	
10844.00	90.21	132.23	8215.86	-2129.95	2081.72	2.73	2978.18	433848.50	675729.12	
10939.00	90.00	131.54	8215.69	-2193.38	2152.44	0.76	3073.02	433785.07	675799.84	
11034.00	88.95	133.13	8216.56	-2257.35	2222.66	2.01	3167.90	433721.10	675870.06	
11129.00	88.46	133.57	8218.71	-2322.55	2291.73	0.69	3262.83	433655.90	675939.13	
11224.00	89.09	135.13	8220.74	-2388.94	2359.64	1.77	3357.79	433589.51	676007.04	
11318.00	91.68	135.52	8220.11	-2455.77	2425.72	2.79	3451.78	433522.68	676073.12	
11413.00	90.70	134.11	8218.13	-2522.71	2493.10	1.81	3546.76	433455.74	676140.50	
11508.00	90.14	134.17	8217.44	-2588.87	2561.27	0.59	3641.74	433389.58	676208.67	
11603.00	90.35	134.51	8217.03	-2655.27	2629.22	0.42	3736.73	433323.18	676276.62	
11698.00	91.96	136.42	8215.12	-2722.97	2695.82	2.63	3831.70	433255.48	676343.22	
11793.00	91.33	135.44	8212.39	-2791.19	2761.87	1.23	3926.65	433187.26	676409.27	
11887.00	90.98	134.90	8210.49	-2857.85	2828.13	0.68	4020.63	433120.60	676475.53	
11982.00	91.68	134.66	8208.29	-2924.74	2895.54	0.78	4115.60	433053.71	676542.94	
12077.00	92.31	135.67	8204.98	-2992.07	2962.48	1.25	4210.54	432986.38	676609.88	
12171.00	92.87	135.05	8200.73	-3058.88	3028.46	0.89	4304.45	432919.57	676675.86	
12266.00	91.89	134.42	8196.79	-3125.69	3095.89	1.23	4399.36	432852.76	676743.29	
12361.00	87.62	132.77	8197.20	-3191.18	3164.67	4.82	4494.30	432787.27	676812.07	

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 11/25/2013	Time: 07:21:56	Page: 3
Field: Eddy County, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: PLU 409H, Grid North	
Site: Poker Lake Unit 409H	Vertical (TVD) Reference:	SITE 3533.0	
Well: PLU 409H	Section (VS) Reference:	Well (0.00N,0.00E,135:15Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
12456.00	89.23	133.55	8199.81	-3256.14	3233.94	1.88	4589.20	432722.31	676881.34	
12551.00	89.58	134.01	8200.79	-3321.86	3302.53	0.61	4684.17	432656.59	676949.93	
12646.00	91.40	134.23	8199.98	-3387.99	3370.72	1.93	4779.15	432590.46	677018.12	
12740.00	91.75	134.07	8197.40	-3453.44	3438.14	0.41	4873.10	432525.01	677085.54	
12835.00	89.37	135.48	8196.47	-3520.34	3505.57	2.91	4968.08	432458.11	677152.97	
12930.00	90.77	137.15	8196.35	-3589.04	3571.18	2.29	5063.06	432389.41	677218.58	
13025.00	89.51	135.89	8196.12	-3657.97	3636.55	1.88	5158.02	432320.48	677283.95	
13120.00	89.93	138.10	8196.59	-3727.44	3701.34	2.37	5252.97	432251.01	677348.74	
13215.00	89.02	134.91	8197.46	-3796.34	3766.72	3.49	5347.92	432182.11	677414.12	
13310.00	89.72	135.14	8198.50	-3863.54	3833.86	0.78	5442.92	432114.91	677481.26	
13404.00	87.34	133.63	8200.91	-3929.26	3901.00	3.00	5536.87	432049.19	677548.40	
13499.00	88.67	135.17	8204.22	-3995.69	3968.83	2.14	5631.80	431982.76	677616.23	
13594.00	88.74	135.12	8206.37	-4063.02	4035.82	0.09	5726.77	431915.43	677683.22	
13689.00	89.37	134.99	8207.93	-4130.25	4102.92	0.68	5821.76	431848.20	677750.32	
13784.00	90.14	135.77	8208.34	-4197.86	4169.65	1.15	5916.76	431780.59	677817.05	
13878.00	89.79	134.69	8208.40	-4264.60	4235.85	1.21	6010.76	431713.85	677883.25	
13973.00	89.51	134.24	8208.98	-4331.14	4303.65	0.56	6105.75	431647.31	677951.05	
14100.00	90.35	134.60	8209.13	-4420.03	4394.35	0.72	6232.74	431558.42	678041.75	Last Wft Svy
14176.00	90.35	134.60	8208.67	-4473.39	4448.47	0.00	6308.73	431505.06	678095.87	Projection

Annotation

MD ft	TVD ft	
7400.00	7399.35	Tie On Gyrodata
7479.00	7478.34	First Wft Svy
14100.00	8209.13	Last Wft Svy
14176.00	8208.67	Projection

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

BOPCO L.P

Lease: POKER LAKE UNIT Well: 409H, 4 1/2" XH DRILLPIPE
Location: MCVAY DRILLING RIG #5, EDDY COUNTY, NEW MEXICO

Job Number: MD1113GVCW672

Run Date: 14 Nov 2013

Report Generated: 18 Nov 2013 11:34

Surveyor: Marlin Willeford, Natalio Pena

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Company Man

Survey Latitude: 32.197375 deg. N Longitude: 103.771060 deg. W

Azimuth Correction:

Gyro: -0.30000 deg to Grid North

Depth Reference: Rotary Table

Air Gap (RKB to Ground / RKB to MSL): 19.50

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 L.P

Lease: POKER LAKE UNIT Well: 409H, 4 1/2" XH DRILLPIPE

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

Job Number: MD1113GVCW672

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 - 7400 FT. RATE GYROSCOPIC VERTICAL CONTINUOUS SURVEY RUN INSIDE 4 1/2" DRILLPIPE

ALL MEASURED DEPTHS AND COORDINATES ARE REFRENCED TO MCVAY DRILLING RIG # 5 AND R.K.B. HEIGHT OF 19.5FT.

99.51	0.14	67.71	0.14	99.51	0.1 67.7	0.05 N 0.11 E
199.51	0.41	159.15	0.44	199.51	0.4 124.7	0.24 S 0.35 E
299.51	0.50	156.82	0.09	299.51	1.2 146.4	0.98 S 0.65 E
399.51	0.76	179.84	0.36	399.50	2.2 158.0	2.04 S 0.82 E
499.51	0.68	179.89	0.08	499.49	3.4 165.9	3.29 S 0.82 E
599.51	0.61	195.60	0.19	599.49	4.5 171.2	4.40 S 0.68 E
699.51	0.58	189.02	0.07	699.48	5.4 175.2	5.42 S 0.46 E
799.51	0.23	137.78	0.48	799.48	6.1 175.2	6.07 S 0.51 E
899.51	0.27	158.46	0.10	899.48	6.5 173.5	6.44 S 0.73 E
999.51	0.39	182.83	0.18	999.48	7.1 173.5	7.01 S 0.80 E
1099.51	0.39	171.36	0.08	1099.47	7.7 173.8	7.69 S 0.84 E
1199.51	0.36	176.07	0.04	1199.47	8.4 173.8	8.34 S 0.91 E
1299.51	0.46	185.92	0.12	1299.47	9.1 174.4	9.06 S 0.89 E
1399.51	0.38	208.39	0.18	1399.47	9.8 175.9	9.75 S 0.69 E
1499.51	0.30	201.79	0.09	1499.46	10.3 177.6	10.29 S 0.43 E
1599.51	0.15	204.75	0.15	1599.46	10.7 178.5	10.65 S 0.28 E
1699.51	0.08	199.76	0.06	1699.46	10.8 178.9	10.84 S 0.20 E
1799.51	0.13	165.69	0.08	1799.46	11.0 178.9	11.02 S 0.21 E

A Gyrodata Directional Survey

BOPCO L.P

Lease: POKER LAKE UNIT Well: 409H, 4 1/2" XH DRILLPIPE

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

Job Number: MD1113GVCW672

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1899.51	0.12	152.39	0.03	1899.46	11.2 178.6	11.22 S 0.28 E
1999.51	0.15	170.92	0.06	1999.46	11.4 178.3	11.44 S 0.35 E
2099.51	0.14	177.70	0.02	2099.46	11.7 178.2	11.69 S 0.37 E
2199.51	0.18	168.51	0.05	2199.46	12.0 178.0	11.96 S 0.41 E
2299.51	0.16	173.84	0.02	2299.46	12.3 177.9	12.25 S 0.46 E
2399.51	0.23	189.43	0.08	2399.46	12.6 178.0	12.59 S 0.44 E
2499.51	0.24	175.64	0.06	2499.46	13.0 178.1	12.99 S 0.42 E
2599.51	0.21	177.24	0.02	2599.46	13.4 178.1	13.38 S 0.45 E
2699.51	0.26	190.60	0.07	2699.46	13.8 178.3	13.79 S 0.42 E
2799.51	0.26	190.80	0.00	2799.46	14.2 178.7	14.23 S 0.33 E
2899.51	0.26	175.75	0.07	2899.46	14.7 178.8	14.68 S 0.31 E
2999.51	0.21	163.61	0.07	2999.45	15.1 178.6	15.08 S 0.37 E
3099.51	0.18	152.24	0.04	3099.45	15.4 178.1	15.40 S 0.50 E
3199.51	0.44	140.43	0.26	3199.45	15.9 177.0	15.84 S 0.82 E
3299.51	0.31	129.89	0.15	3299.45	16.4 175.5	16.31 S 1.27 E
3399.51	0.35	128.82	0.04	3399.45	16.8 174.1	16.67 S 1.72 E
3499.51	0.45	126.72	0.10	3499.45	17.3 172.4	17.10 S 2.27 E
3599.51	0.71	126.91	0.26	3599.44	18.0 170.1	17.71 S 3.08 E
3699.51	0.85	125.62	0.14	3699.43	19.0 167.3	18.51 S 4.18 E
3799.51	1.11	129.69	0.27	3799.42	20.3 164.2	19.56 S 5.53 E
3899.51	1.45	125.42	0.36	3899.39	22.2 160.7	20.91 S 7.31 E

A Gyrodata Directional Survey

BOPCO L.P.

Lease: POKER LAKE UNIT Well: 409H, 4 1/2" XH DRILLPIPE

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

Job Number: MD1113GVCW672

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3999.51	1.63	130.96	0.23	3999.36	24.5 157.4	22.58 S 9.42 E
4099.51	1.93	133.37	0.31	4099.31	27.3 154.6	24.67 S 11.71 E
4199.51	2.02	133.03	0.09	4199.25	30.5 152.2	27.02 S 14.22 E
4299.51	0.88	142.79	1.16	4299.22	33.0 151.0	28.83 S 15.97 E
4399.51	0.72	258.25	1.35	4399.21	33.5 151.9	29.57 S 15.82 E
4499.51	0.70	260.99	0.04	4499.20	33.2 153.9	29.79 S 14.61 E
4599.51	0.73	254.81	0.09	4599.19	32.9 156.0	30.05 S 13.39 E
4699.51	0.65	255.16	0.08	4699.19	32.7 158.1	30.37 S 12.22 E
4799.51	0.62	252.74	0.04	4799.18	32.6 160.0	30.67 S 11.15 E
4899.51	0.90	262.29	0.31	4899.17	32.5 162.3	30.94 S 9.86 E
4999.51	1.10	268.19	0.22	4999.16	32.1 165.4	31.08 S 8.12 E
5099.51	1.10	269.64	0.03	5099.14	31.7 168.7	31.11 S 6.20 E
5199.51	1.23	277.46	0.21	5199.12	31.3 172.3	30.98 S 4.18 E
5299.51	1.33	274.06	0.13	5299.09	30.8 176.4	30.76 S 1.95 E
5399.51	1.39	277.22	0.09	5399.06	30.5 180.8	30.52 S 0.41 W
5499.51	1.42	276.61	0.03	5499.03	30.4 185.4	30.23 S 2.84 W
5599.51	1.27	272.89	0.17	5599.01	30.5 189.8	30.03 S 5.17 W
5699.51	1.19	274.44	0.08	5698.98	30.8 193.8	29.89 S 7.32 W
5799.51	1.22	277.03	0.06	5798.96	31.1 197.6	29.68 S 9.42 W
5899.51	1.09	273.28	0.15	5898.94	31.6 201.2	29.50 S 11.42 W
5999.51	0.65	271.38	0.43	5998.93	32.1 203.7	29.43 S 12.94 W
6099.51	0.38	241.30	0.38	6098.93	32.6 205.0	29.57 S 13.80 W

A Gyrodata Directional Survey

BOPCO L.P

Lease: POKER LAKE UNIT Well: 409H, 4 1/2" XH DRILLPIPE

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

Job Number: MD1113GVCW672

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
6199.51	0.43	231.23	0.09	6198.92	33.2	205.6	29.97 S 14.38 W
6299.51	0.48	231.62	0.05	6298.92	34.0	206.2	30.46 S 15.00 W
6399.51	0.40	249.96	0.16	6398.92	34.6	206.9	30.84 S 15.66 W
6499.51	0.49	255.49	0.10	6498.91	35.1	207.8	31.07 S 16.40 W
6599.51	0.67	267.61	0.22	6598.91	35.7	209.1	31.20 S 17.40 W
6699.51	0.55	265.80	0.12	6698.90	36.3	210.6	31.26 S 18.46 W
6799.51	0.55	254.01	0.11	6798.90	36.9	211.7	31.43 S 19.39 W
6899.51	0.54	238.37	0.15	6898.89	37.7	212.5	31.81 S 20.25 W
6999.51	0.61	242.16	0.08	6998.89	38.6	213.2	32.30 S 21.13 W
7099.51	0.66	226.04	0.18	7098.88	39.6	213.7	32.95 S 22.01 W
7199.51	0.75	213.87	0.18	7198.88	40.8	213.9	33.89 S 22.79 W
7299.51	1.04	214.18	0.29	7298.86	42.4	213.9	35.19 S 23.67 W
7399.51	0.93	210.40	0.13	7398.85	44.1	213.9	36.65 S 24.59 W
7400.01	0.92	211.01	2.17	7399.35	44.1	213.9	36.65 S 24.59 W

Final Station Closure: Distance: 44.14 ft Az: 213.86 deg.