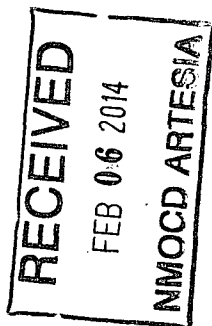


30 015 4/136



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	I N C L 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 - 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	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH 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	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH 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	I N C L 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.

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

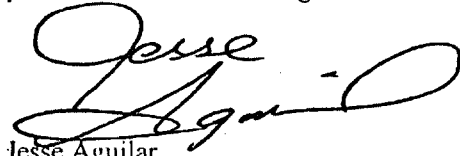
Attention: Brian Braun

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

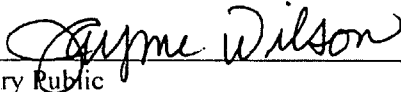
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

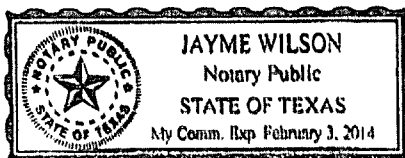


Jesse Aguilar
MWD Ops Coordinator

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



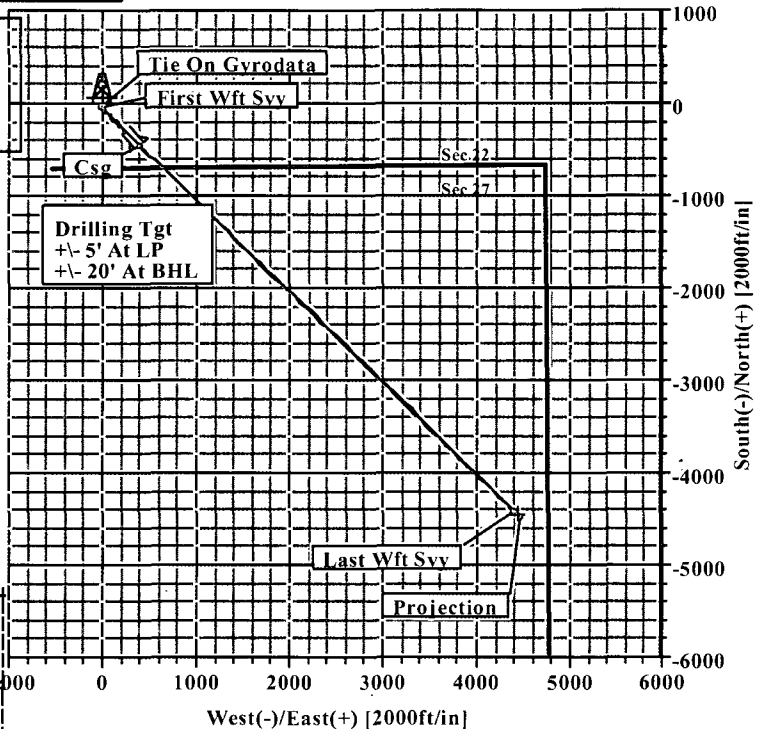
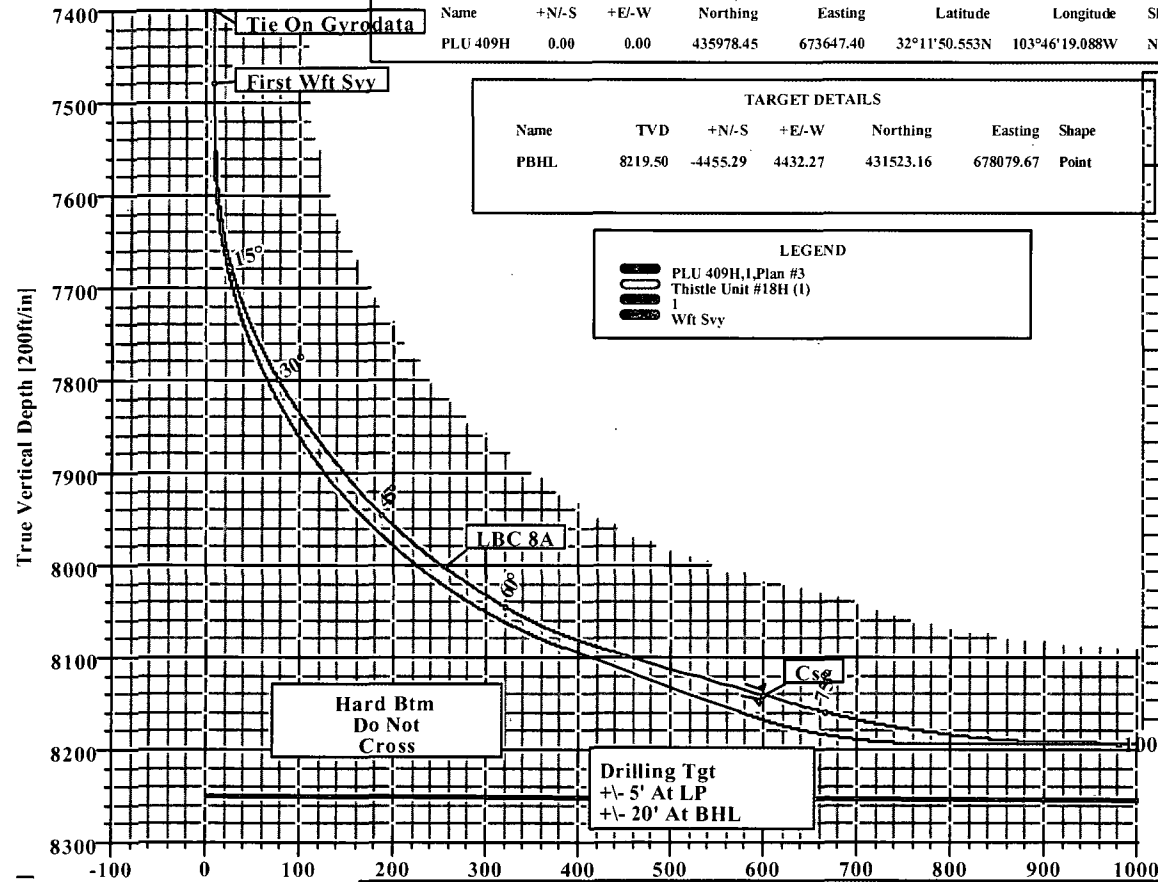
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	7400.00	0.93	210.92	7399.35	-35.80	-24.80	0.00	0.00	7.89
2	7555.01	0.93	210.92	7554.34	-37.96	-26.09	0.00	0.00	8.51
3	8252.83	70.00	134.68	8090.51	-307.53	237.55	10.00	283.43	385.56
4	8452.83	70.00	134.68	8158.91	-439.68	371.18	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

KBELEV: 3533
GLELEV: 3514

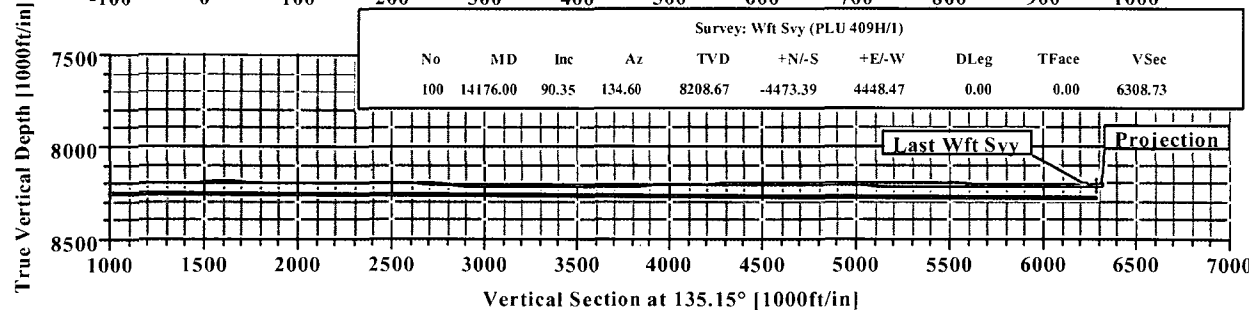
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PLU 409H	0.00	0.00	435978.45	673647.40	32°11'50.553N	103°46'19.088W	N/A

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, I, Plan #3
	Thistle Unit #18H (I)
	1
	Wft Svy



Survey: Wft Svy (PLU 409H/I)									
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

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 11/25/2013	Time: 07:21:56	Page: 1
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: Wft Svy	Start Date: 11/15/2013
Company: Weatherford	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: User Defined

Site: Poker Lake Unit 409H

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

Well: PLU 409H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 11 50.553 N
+E/-W 0.00 ft	Longitude: 103 46 19.088 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 11/30/2013	Above System Datum: Mean Sea Level
Field Strength: 48358 nT	Declination: 7.38 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.07 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	135.15

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 First Wft Svy	
7479.00	1.01	192.29	7478.34	-37.03	-25.28	0.41	8.43	435941.42	673622.12		
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	14.52	11.37	61.59	435906.02	673661.92		
7812.00	29.85	133.60	7799.40	-82.73	25.54	10.84	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. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 409H Well: PLU 409H Wellpath: 1	Date: 11/25/2013 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 07:21:56 Well: PLU 409H, Grid North SITE 3533.0 Well (0.00N,0.00E,135.15Azi) Minimum Curvature	Page: 2 Db: Sybase
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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	
8460.00	74.63	137.31	8141.58	-461.56	387.76	0.76	600.69	435516.89	674035.16	Csg
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