

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

BOPCO, LP

Lease: POKER LAKE UNIT Well: #387H, 4 1/2" DRILLPIPE
Location: MCVAY #5, EDDY COUNTY, NEW MEXICO

Job Number: MD1013GDM609

Run Date: 12 Oct 2013

Report Generated: 21 Oct 2013 11:31

Azimuth Correction:

Gyro: -0.27000 deg to Grid North

Depth Reference: Rotary Table

Surveyor: Jason Solomon

Air Gap (RKB to Ground / RKB to MSL): 20.00

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: 32.135667 deg. N Longitude: 103.824764 deg. W

Horizontal Coordinates Calculated from Well Head Location

15-41185

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Job Number: MD1013GDM609

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0 0.0	0.00 N 0.00 E
0 - 7152 FT. RATE GYROSCOPIC MULTISHOT DROP RUN INSIDE 4 1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY #5 RKB 20 FT.							
100.00	0.80	348.77	N 11 14 W	0.80	100.00	0.7 348.8	0.68 N 0.14 W
200.00	0.70	3.76	N 3 46 E	0.22	199.99	2.0 353.3	1.98 N 0.23 W
300.00	0.63	359.99	N 0 1 W	0.08	299.98	3.1 356.5	3.14 N 0.19 W
400.00	0.65	358.62	N 1 23 W	0.03	399.98	4.3 357.2	4.26 N 0.21 W
500.00	0.56	15.90	N 15 54 E	0.20	499.97	5.3 359.1	5.29 N 0.09 W
521.15	0.57	8.03	N 8 2 E	0.37	521.12	5.5 359.6	5.50 N 0.04 W
617.03	0.37	20.94	N 20 56 E	0.23	617.00	6.3 1.2	6.26 N 0.13 E
713.20	0.32	22.33	N 22 20 E	0.05	713.16	6.8 2.9	6.80 N 0.35 E
809.07	0.19	11.97	N 11 58 E	0.14	809.03	7.2 3.8	7.20 N 0.48 E
904.96	0.11	288.49	N 71 31 W	0.22	904.92	7.4 3.3	7.38 N 0.43 E
1000.03	0.07	30.02	N 30 1 E	0.15	999.99	7.5 2.8	7.46 N 0.37 E
1095.11	0.25	69.45	N 69 27 E	0.21	1095.07	7.6 4.5	7.59 N 0.59 E
1190.22	0.42	79.85	N 79 51 E	0.19	1190.18	7.8 8.3	7.72 N 1.13 E
1285.24	0.54	87.29	N 87 17 E	0.14	1285.20	8.0 13.8	7.80 N 1.92 E
1380.41	0.63	93.97	S 86 2 E	0.12	1380.36	8.3 20.4	7.79 N 2.89 E
1475.49	0.66	98.32	S 81 41 E	0.06	1475.44	8.6 27.3	7.67 N 3.95 E
1570.50	0.64	104.83	S 75 10 E	0.08	1570.44	9.0 33.9	7.46 N 5.01 E
1665.59	0.65	102.16	S 77 50 E	0.03	1665.52	9.4 40.0	7.21 N 6.05 E

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Job Number: MD1013GDM609

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
1760.62	0.64	103.29	S 76 43 E	0.02	1760.55	9.9	45.5	6.97 N	7.09 E
1855.67	0.69	106.66	S 73 20 E	0.07	1855.59	10.5	50.7	6.69 N	8.16 E
1950.81	0.75	109.38	S 70 37 E	0.07	1950.72	11.2	55.8	6.32 N	9.29 E
2045.86	0.85	111.86	S 68 8 E	0.11	2045.76	12.0	61.0	5.85 N	10.54 E
2140.91	0.89	113.67	S 66 20 E	0.05	2140.80	13.0	66.0	5.29 N	11.87 E
2234.90	0.84	104.33	S 75 40 E	0.16	2234.78	14.1	69.9	4.82 N	13.20 E
2329.93	0.85	85.42	N 85 25 E	0.29	2329.80	15.3	72.1	4.71 N	14.58 E
2425.03	0.91	73.02	N 73 1 E	0.21	2424.89	16.8	72.7	4.98 N	16.00 E
2520.05	0.81	57.85	N 57 51 E	0.26	2519.90	18.2	72.2	5.56 N	17.30 E
2614.49	0.63	48.58	N 48 35 E	0.23	2614.33	19.3	71.1	6.26 N	18.25 E
2709.57	0.49	53.00	N 53 0 E	0.15	2709.41	20.2	70.1	6.85 N	18.97 E
2804.65	0.41	41.34	N 41 20 E	0.13	2804.49	20.9	69.4	7.35 N	19.52 E
2899.70	0.32	25.79	N 25 47 E	0.14	2899.53	21.3	68.4	7.85 N	19.86 E
2994.75	0.32	11.18	N 11 11 E	0.09	2994.58	21.7	67.4	8.35 N	20.02 E
3089.95	0.37	359.67	N 0 20 W	0.09	3089.78	22.0	66.1	8.91 N	20.07 E
3184.87	0.43	358.75	N 1 15 W	0.06	3184.70	22.2	64.5	9.58 N	20.06 E
3280.03	0.37	2.98	N 2 59 E	0.07	3279.86	22.5	63.0	10.24 N	20.07 E
3375.09	0.34	41.20	N 41 12 E	0.25	3374.91	23.0	62.0	10.76 N	20.27 E
3470.21	0.62	81.46	N 81 28 E	0.44	3470.03	23.7	62.2	11.05 N	20.97 E
3565.21	0.79	93.31	S 86 41 E	0.23	3565.02	24.8	63.4	11.09 N	22.13 E
3660.23	1.00	103.29	S 76 43 E	0.27	3660.03	26.0	65.3	10.86 N	23.59 E

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Location: MCVAY #5, EDDY COUNTY, NEW MEXICO

Job Number: MD1013GDM609

MEASURED DEPTH feet	IN C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3755.37	1.20	110.71	S 69 17 E	0.26	3755.16	27.4 67.8	10.31 N 25.33 E
3849.31	1.49	117.02	S 62 59 E	0.35	3849.07	28.9 71.0	9.41 N 27.34 E
3943.34	1.30	132.99	S 47 1 E	0.46	3943.07	30.3 74.4	8.13 N 29.21 E
4037.76	1.02	162.97	S 17 2 E	0.70	4037.47	30.9 77.7	6.59 N 30.24 E
4132.32	0.91	163.73	S 16 16 E	0.12	4132.02	31.1 80.6	5.07 N 30.69 E
4226.87	0.87	163.21	S 16 47 E	0.04	4226.56	31.3 83.3	3.66 N 31.11 E
4320.25	0.70	149.23	S 30 46 E	0.27	4319.93	31.7 85.5	2.49 N 31.61 E
4415.04	0.64	148.60	S 31 24 E	0.06	4414.71	32.2 87.3	1.54 N 32.18 E
4508.75	0.58	155.54	S 24 28 E	0.10	4508.42	32.7 88.8	0.66 N 32.65 E
4601.71	0.53	163.16	S 16 50 E	0.10	4601.37	33.0 90.3	0.18 S 32.97 E
4695.64	0.37	114.08	S 65 55 E	0.43	4695.30	33.4 91.2	0.71 S 33.37 E
4790.50	0.53	93.99	S 86 1 E	0.23	4790.16	34.1 91.5	0.87 S 34.09 E
4884.25	0.60	90.59	S 89 25 E	0.08	4883.90	35.0 91.5	0.91 S 35.01 E
4979.22	0.53	73.01	N 73 1 E	0.20	4978.87	35.9 91.2	0.78 S 35.93 E
5074.57	0.34	51.88	N 51 53 E	0.26	5074.22	36.6 90.7	0.48 S 36.57 E
5167.73	0.22	15.67	N 15 40 E	0.22	5167.38	36.8 90.2	0.14 S 36.84 E
5260.90	0.23	346.34	N 13 40 W	0.12	5260.54	36.8 89.7	0.22 N 36.84 E
5354.82	0.28	344.59	N 15 25 W	0.05	5354.46	36.7 89.0	0.62 N 36.74 E
5449.48	0.34	355.31	N 4 41 W	0.09	5449.12	36.7 88.2	1.13 N 36.65 E
5543.12	0.40	12.98	N 12 59 E	0.14	5542.76	36.7 87.3	1.72 N 36.71 E
5636.60	0.34	6.55	N 6 33 E	0.08	5636.24	36.9 86.4	2.31 N 36.81 E
5730.12	0.26	1.74	N 1 44 E	0.09	5729.76	37.0 85.7	2.80 N 36.85 E

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Job Number: MD1013GDM609

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
5824.41	0.09	27.56	N 27 34 E	0.19	5824.05	37.0 85.2	3.08 N 36.89 E
5918.57	0.11	163.99	S 16 1 E	0.20	5918.21	37.1 85.3	3.06 N 36.95 E
6013.02	0.19	189.38	S 9 23 W	0.11	6012.66	37.1 85.6	2.82 N 36.95 E
6105.96	0.28	192.43	S 12 26 W	0.10	6105.60	37.0 86.2	2.44 N 36.87 E
6200.09	0.39	194.94	S 14 56 W	0.12	6199.72	36.8 87.0	1.91 N 36.74 E
6294.18	0.48	189.56	S 9 34 W	0.10	6293.81	36.6 88.1	1.21 N 36.59 E
6387.63	0.57	177.06	S 2 56 E	0.16	6387.26	36.6 89.4	0.36 N 36.55 E
6481.42	0.57	181.47	S 1 28 W	0.05	6481.04	36.6 90.9	0.57 S 36.56 E
6574.55	0.41	203.86	S 23 52 W	0.26	6574.17	36.4 92.1	1.34 S 36.42 E
6667.98	0.45	219.94	S 39 56 W	0.14	6667.60	36.1 93.1	1.92 S 36.05 E
6762.27	0.38	230.67	S 50 40 W	0.11	6761.88	35.6 93.9	2.41 S 35.57 E
6855.18	0.36	210.89	S 30 53 W	0.14	6854.79	35.3 94.6	2.85 S 35.18 E
6947.04	0.55	203.77	S 23 46 W	0.22	6946.65	35.0 95.7	3.50 S 34.85 E
7041.05	0.65	213.47	S 33 28 W	0.15	7040.65	34.7 97.2	4.36 S 34.38 E
7103.00	0.71	214.57	S 34 34 W	0.10	7102.60	34.3 98.3	4.97 S 33.97 E
7152.00	0.72	211.98	S 31 59 W	0.07	7151.60	34.1 99.3	5.48 S 33.63 E

Final Station Closure: Distance: 34.07 ft Az: 99.26 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: October 31, 2013

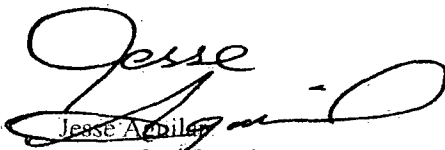
Attention: Brian Braun

Re: BOPCO, LP
Well: Poker Lake Unit 387H
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:

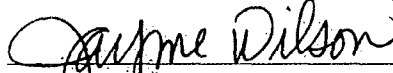
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Zack Snyder	387H	7171 MD	10/6/2013	Measurement
MWD Supervisor		15526 MD	10/30/2013	While Drilling

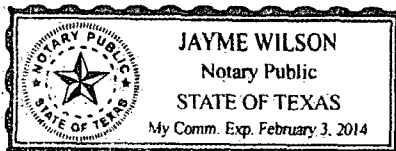
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
MWD Ops Coordinator

On this, the 10th 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 387H
Eddy Co, NM



KB ELEV: 3372
GL ELEV: 3353

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DI Leg	TFace	VSec	Target
1	0.00	0.00	270.28	0.00	0.00	0.00	0.00	0.00	0.00	
2	7255.34	0.00	270.28	7255.34	0.00	0.00	0.00	0.00	0.00	
3	7955.34	70.00	270.28	7793.74	1.82	-376.99	10.00	270.28	376.99	
4	8155.34	70.00	270.28	7862.15	2.72	-564.93	0.00	0.00	564.93	
5	8468.54	91.32	170.28	7896.55	3.73	-774.09	10.00	0.00	774.10	
6	15620.12	91.32	170.28	7729.50	38.66	-8023.66	0.00	0.00	8023.75	PBHL

WELL DETAILS

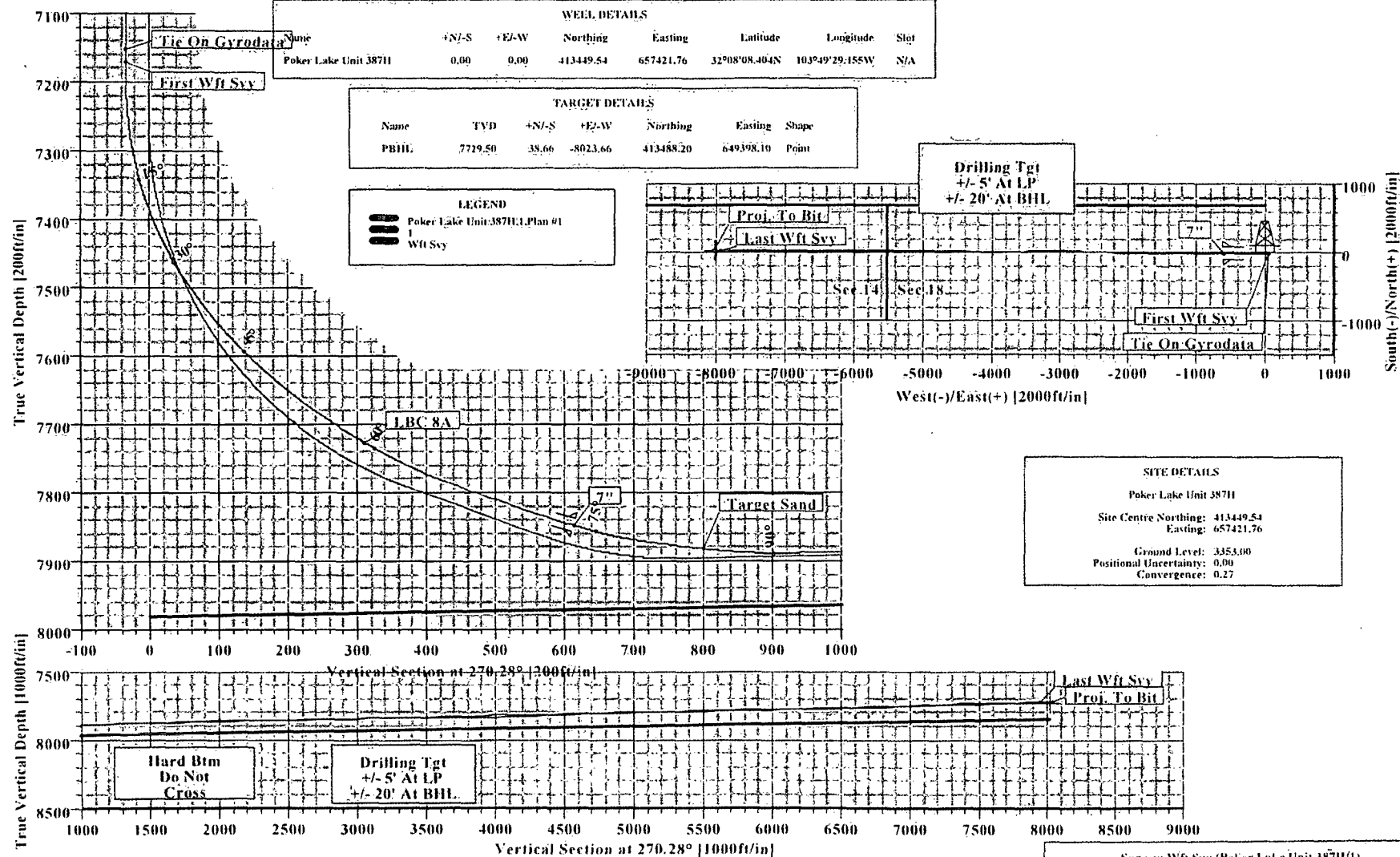
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Poker Lake Unit 387H	0.00	0.00	413449.54	657421.76	32°08'08.404N	103°49'29.155W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7729.50	38.66	-8023.66	413448.20	649398.10	Point

LEGEND

- Poker Lake Unit 387H.1 Plan #1
- Wft Svy



SITE DETAILS

Poker Lake Unit 387H
Site Centre Northing: 413449.54
Easting: 657421.76
Ground Level: 3353.00
Positional Uncertainty: 0.00
Convergence: 0.27

Survey: Wft Svy (Poker Lake Unit 387H/1)

Created By: Russell W. Joyner

Date: 10/30/2013

Weatherford

Wft Survey Report X Y's.



Weatherford

Company: BOPCO, L.P.		Date: 10/30/2013	Time: 05:20:59	Page: 1
Field: Eddy County, NM (Nad:27)		Co-ordinate(NE) Reference: Well: Poker Lake Unit 387H, Grid North		
Site: Poker Lake Unit 387H		Vertical (TVD) Reference: SITE 3372.0		
Well: Poker Lake Unit 387H		Section (VS) Reference: Well (0.00N,0.00E 270.28Azi)		
Wellpath: 1		Survey Calculation Method: Minimum Curvature Db: Sybase		

Survey: Wft Svy	Start Date: 10/14/2013
Company: Weatherford	Engineer: Russell W. Joyner
Tool: MWD:MWD - Standard	Tied-to: User Defined

Site: Poker Lake Unit 387H	
Site Position:	Northing: 413449.54 ft Latitude: 32 8 8.404 N
From: Map	Easting: 657421.76 ft Longitude: 103 49 29.155 W
Position Uncertainty: 0.00 ft	North Reference: Grid
Ground Level: 3353.00 ft	Grid Convergence: 0.27 deg

Well: Poker Lake Unit 387H		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 413449.54 ft	Latitude: 32 8 8.404 N	
+E/-W 0.00 ft	Easting: 657421.76 ft	Longitude: 103 49 29.155 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE		Tie-on Depth: 0.00 ft	
Magnetic Data: 10/1/2013		Above System Datum: Mean Sea Level	
Field Strength: 48331 nT		Declination: 7.42 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 60.00 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	270.28

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
7152.00	0.72	211.98	7151.60	-5.48	33.63	0.00	-33.66	413444.06	657455.39	Tie On Gyrodata
7171.00	0.78	203.47	7170.59	-5.70	33.52	0.67	-33.54	413443.84	657455.28	First Wft Svy
7202.00	1.37	234.47	7201.59	-6.11	33.13	2.61	-33.16	413443.43	657454.89	
7233.00	4.12	257.04	7232.55	-6.58	31.74	9.36	-31.78	413442.96	657453.50	
7265.00	7.18	261.80	7264.39	-7.12	28.64	9.67	-28.68	413442.42	657450.40	
7296.00	10.08	264.37	7295.04	-7.66	24.03	9.43	-24.06	413441.88	657445.79	
7328.00	13.16	265.10	7326.38	-8.25	17.61	9.64	-17.65	413441.29	657439.37	
7360.00	16.93	264.01	7357.28	-9.05	9.34	11.81	-9.39	413440.49	657431.10	
7390.00	20.48	264.35	7385.69	-10.02	-0.23	11.84	0.18	413439.52	657421.53	
7422.00	24.08	264.20	7415.29	-11.23	-12.30	11.25	12.24	413438.31	657409.46	
7453.00	27.65	264.80	7443.18	-12.52	-25.76	11.55	25.70	413437.02	657396.00	
7484.00	30.94	266.48	7470.22	-13.66	-40.88	10.94	40.81	413435.88	657380.88	
7516.00	33.98	268.20	7497.21	-14.45	-58.03	9.93	57.96	413435.09	657363.73	
7547.00	36.63	269.93	7522.51	-14.73	-75.94	9.14	75.87	413434.81	657345.82	
7578.00	39.53	271.21	7546.91	-14.53	-95.06	9.69	94.99	413435.01	657326.70	
7610.00	42.14	271.78	7571.12	-13.99	-115.97	8.24	115.90	413435.55	657305.79	
7641.00	45.02	271.97	7593.57	-13.29	-137.33	9.30	137.26	413436.25	657284.43	
7673.00	46.88	271.54	7615.82	-12.58	-160.32	5.89	160.26	413436.96	657261.44	
7704.00	49.15	271.74	7636.56	-11.92	-183.35	7.34	183.29	413437.62	657238.41	
7735.00	51.40	272.08	7656.37	-11.13	-207.18	7.31	207.12	413438.41	657214.58	
7767.00	54.26	272.62	7675.70	-10.08	-232.65	9.04	232.60	413439.46	657189.11	
7798.00	56.32	272.78	7693.35	-8.88	-258.11	6.66	258.06	413440.66	657163.65	
7830.00	57.51	271.84	7710.82	-7.80	-284.90	4.46	284.85	413441.74	657136.86	
7862.00	59.06	271.08	7727.64	-7.11	-312.11	5.25	312.07	413442.43	657109.65	
7893.00	60.91	270.56	7743.15	-6.72	-338.95	6.14	338.91	413442.82	657082.81	
7925.00	63.38	270.53	7758.10	-6.46	-367.23	7.72	367.20	413443.08	657054.53	
7957.00	66.69	270.49	7771.60	-6.20	-396.24	10.34	396.20	413443.34	657025.52	
7987.00	69.02	270.45	7782.91	-5.97	-424.02	7.77	423.99	413443.57	656997.74	
8018.00	69.93	270.12	7793.78	-5.83	-453.06	3.10	453.02	413443.71	656968.70	
8049.00	70.51	270.07	7804.27	-5.78	-482.23	1.88	482.19	413443.76	656939.53	

Weatherford

Wft Survey Report X Y's.



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 387H Well: Poker Lake Unit 387H Wellpath: 1	Date: 10/30/2013 Time: 05:20:59 Page: 2 Co-ordinate(NE) Reference: Well: Poker Lake Unit 387H Grd North Vertical(TVD) Reference: SITE 3372.0 Section(VS) Reference: Well(0.00N,0.00E270.28Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	FW ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8081.00	70.75	269.99	7814.88	-5.76	-512.41	0.79	512.38	413443.78	656909.35	
8116.00	71.25	270.18	7826.28	-5.71	-545.51	1.52	545.47	413443.83	656876.25	
8210.00	73.99	269.72	7854.35	-5.79	-635.21	2.95	635.17	413443.75	656786.55	
8240.00	76.79	269.99	7861.92	-5.87	-664.23	9.37	664.20	413443.67	656757.53	
8271.00	80.44	270.20	7868.04	-5.82	-694.62	11.79	694.58	413443.72	656727.14	
8301.00	82.13	269.85	7872.58	-5.80	-724.27	5.75	724.23	413443.74	656697.49	
8332.00	82.91	269.91	7876.62	-5.87	-755.01	2.52	754.97	413443.67	656666.75	
8363.00	83.34	270.03	7880.33	-5.88	-785.78	1.44	785.75	413443.66	656635.98	
8394.00	83.83	270.40	7883.79	-5.77	-816.59	1.98	816.55	413443.77	656605.17	
8424.00	85.17	270.74	7886.67	-5.47	-846.45	4.61	846.41	413444.07	656575.31	
8455.00	87.34	270.89	7888.69	-5.03	-877.38	7.02	877.34	413444.51	656544.38	
8485.00	90.63	270.85	7889.23	-4.57	-907.37	10.97	907.33	413444.97	656514.39	
8515.00	91.82	270.60	7888.58	-4.20	-937.36	4.05	937.32	413445.34	656484.40	
8545.00	90.98	270.46	7887.85	-3.92	-967.35	2.84	967.32	413445.62	656454.41	
8574.00	89.93	270.30	7887.62	-3.73	-996.34	3.66	996.31	413445.81	656425.42	
8604.00	90.14	270.33	7887.60	-3.56	-1026.34	0.71	1026.31	413445.98	656395.42	
8638.00	91.33	270.23	7887.17	-3.39	-1060.34	3.51	1060.31	413446.15	656361.42	
8698.00	90.48	270.42	7886.22	-3.05	-1120.33	1.45	1120.30	413446.49	656301.43	
8791.00	89.79	270.70	7886.00	-2.15	-1213.33	0.80	1213.30	413447.39	656208.43	
8884.00	91.47	270.34	7884.98	-1.30	-1306.31	1.85	1306.29	413448.24	656115.45	
8979.00	89.30	270.86	7884.34	-0.31	-1401.30	2.35	1401.28	413449.23	656020.46	
9073.00	92.38	268.94	7882.96	-0.47	-1495.27	3.86	1495.25	413449.07	655926.49	
9167.00	93.43	268.27	7878.20	-2.76	-1589.12	1.32	1589.09	413446.78	655832.64	
9260.00	92.66	268.91	7873.26	-5.04	-1681.96	1.08	1681.92	413444.50	655739.80	
9354.00	92.66	268.58	7868.89	-7.10	-1775.84	0.35	1775.78	413442.44	655645.92	
9448.00	92.24	270.18	7864.88	-8.11	-1869.74	1.76	1869.68	413441.43	655552.02	
9541.00	91.26	271.12	7862.04	-7.06	-1962.69	1.46	1962.63	413442.48	655459.07	
9634.00	91.54	271.61	7859.76	-4.84	-2055.64	0.61	2055.59	413444.70	655366.12	
9728.00	90.14	271.82	7858.39	-2.03	-2149.58	1.51	2149.55	413447.51	655272.18	
9821.00	90.42	271.81	7857.93	0.92	-2242.53	0.30	2242.51	413450.46	655179.23	
9914.00	91.05	272.90	7856.74	4.74	-2335.45	1.35	2335.44	413454.28	655086.31	
10007.00	90.21	272.41	7855.72	9.04	-2428.34	1.05	2428.36	413458.58	654993.42	
10100.00	90.00	273.06	7855.54	13.48	-2521.23	0.73	2521.27	413463.02	654900.53	
10194.00	92.10	274.06	7853.82	19.32	-2615.03	2.47	2615.09	413468.86	654806.73	
10287.00	91.68	272.34	7850.75	24.50	-2707.83	1.90	2707.92	413474.04	654713.93	
10380.00	90.42	269.32	7849.05	25.85	-2800.79	3.52	2800.89	413475.39	654620.97	
10474.00	91.47	270.14	7847.50	25.41	-2894.78	1.42	2894.87	413474.95	654526.98	
10567.00	91.68	269.86	7844.94	25.41	-2987.74	0.38	2987.83	413474.95	654434.02	
10660.00	91.54	269.95	7842.33	25.25	-3080.70	0.18	3080.79	413474.79	654341.06	
10754.00	92.38	269.43	7839.12	24.75	-3174.65	1.05	3174.73	413474.29	654247.11	
10847.00	91.61	270.06	7835.88	24.33	-3267.59	1.07	3267.67	413473.87	654154.17	
10940.00	88.67	268.40	7835.65	23.08	-3360.57	3.63	3360.64	413472.62	654061.19	
11034.00	90.28	269.40	7836.51	21.28	-3454.54	2.02	3454.60	413470.82	653967.22	
11127.00	89.16	267.78	7836.97	18.99	-3547.51	2.12	3547.56	413468.53	653874.25	
11220.00	90.07	268.03	7837.59	15.59	-3640.44	1.01	3640.47	413465.13	653781.32	
11313.00	89.09	267.97	7838.27	12.34	-3733.38	1.06	3733.40	413461.88	653688.38	
11407.00	90.70	269.49	7838.45	10.26	-3827.35	2.36	3827.36	413459.80	653594.41	
11501.00	91.47	269.82	7836.67	9.70	-3921.33	0.89	3921.33	413459.24	653500.43	
11595.00	91.68	270.20	7834.08	9.71	-4015.30	0.46	4015.30	413459.25	653406.46	
11689.00	92.45	269.87	7830.70	9.77	-4109.24	0.89	4109.23	413459.31	653312.52	
11782.00	90.42	269.83	7828.37	9.53	-4202.20	2.18	4202.20	413459.07	653219.56	
11876.00	92.73	269.70	7825.78	9.14	-4296.16	2.46	4296.15	413458.68	653125.60	

Weatherford

Wft Survey Report X Y's.



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad:27) Site: Poker Lake Unit 387H Well: Poker Lake Unit 387H Wellpath: 1	Date: 10/30/2013 Time: 05:20:59 Page: 3 Co-ordinate(NE) Reference: Well: Poker Lake Unit 387H; Grid North Vertical (TVD) Reference: SITE 3372.0 Section (VS) Reference: Well (0.00N;0.00E;270.28Azi) Survey Calculation Method: Minimum Curvature 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
11971.00	92.31	270.46	7821.61	9.27	-4391.07	0.91	4391.06	413458.81	653030.69	
12065.00	93.08	270.32	7817.19	9.91	-4484.96	0.83	4484.95	413459.45	652936.80	
12158.00	92.24	269.02	7812.87	9.38	-4577.85	1.66	4577.85	413458.92	652843.91	
12251.00	90.56	268.72	7810.60	7.54	-4670.80	1.84	4670.79	413457.08	652750.96	
12345.00	91.19	270.49	7809.16	6.90	-4764.79	2.00	4764.76	413456.44	652656.97	
12438.00	91.61	270.93	7806.89	8.05	-4857.75	0.65	4857.73	413457.59	652564.01	
12532.00	91.68	270.52	7804.19	9.24	-4951.71	0.44	4951.69	413458.78	652470.05	
12626.00	91.33	270.09	7801.72	9.74	-5045.67	0.59	5045.66	413459.28	652376.09	
12719.00	91.12	270.71	7799.73	10.39	-5138.65	0.70	5138.64	413459.93	652283.11	
12812.00	91.96	271.51	7797.24	12.19	-5231.59	1.25	5231.59	413461.73	652190.17	
12905.00	92.24	272.82	7793.83	15.70	-5324.46	1.44	5324.48	413465.24	652097.30	
12999.00	89.58	271.00	7792.33	18.83	-5418.39	3.43	5418.41	413468.37	652003.37	
13092.00	90.63	272.65	7792.16	21.79	-5511.34	2.10	5511.38	413471.33	651910.42	
13185.00	91.19	271.15	7790.69	24.87	-5604.27	1.72	5604.32	413474.41	651817.49	
13280.00	91.47	271.15	7788.48	26.78	-5699.22	0.29	5699.29	413476.32	651722.54	
13373.00	90.98	269.62	7786.49	27.40	-5792.20	1.73	5792.26	413476.94	651629.56	
13466.00	91.26	269.99	7784.68	27.09	-5885.18	0.50	5885.24	413476.63	651536.58	
13560.00	90.91	268.00	7782.90	25.44	-5979.14	2.15	5979.20	413474.98	651442.62	
13653.00	91.26	266.83	7781.13	21.25	-6072.03	1.31	6072.06	413470.79	651349.73	
13746.00	90.70	267.29	7779.54	16.48	-6164.89	0.78	6164.90	413466.02	651256.87	
13839.00	91.96	267.69	7777.39	12.40	-6257.78	1.42	6257.76	413461.94	651163.98	
13933.00	91.05	267.79	7774.92	8.70	-6351.67	0.97	6351.64	413458.24	651070.09	
14026.00	92.80	269.63	7771.79	6.61	-6444.59	2.73	6444.54	413456.15	650977.17	
14119.00	92.66	270.57	7767.36	6.77	-6537.48	1.02	6537.44	413456.31	650884.28	
14212.00	89.93	269.45	7765.26	6.78	-6630.45	3.17	6630.40	413456.32	650791.31	
14306.00	90.98	269.94	7764.51	6.28	-6724.44	1.23	6724.39	413455.82	650697.32	
14400.00	91.19	270.34	7762.73	6.51	-6818.42	0.48	6818.37	413456.05	650603.34	
14493.00	93.85	273.13	7758.64	9.32	-6911.27	4.14	6911.24	413458.86	650510.49	
14587.00	92.66	272.55	7753.31	13.97	-7005.00	1.41	7004.99	413463.51	650416.76	
14681.00	91.82	272.28	7749.63	17.93	-7098.85	0.94	7098.85	413467.47	650322.91	
14774.00	92.59	271.94	7746.06	21.35	-7191.72	0.90	7191.73	413470.89	650230.04	
14868.00	92.24	271.84	7742.09	24.45	-7285.58	0.39	7285.61	413473.99	650136.18	
14961.00	91.05	270.58	7739.42	26.41	-7378.52	1.86	7378.56	413475.95	650043.24	
15055.00	90.42	269.97	7738.22	26.86	-7472.51	0.93	7472.55	413476.40	649949.25	
15149.00	92.17	271.38	7736.09	27.97	-7566.47	2.39	7566.52	413477.51	649855.29	
15244.00	91.82	271.59	7732.79	30.43	-7661.38	0.43	7661.44	413479.97	649760.38	
15338.00	92.59	272.27	7729.17	33.59	-7755.26	1.09	7755.33	413483.13	649666.50	
15431.00	91.68	271.18	7725.71	36.39	-7848.15	1.53	7848.23	413485.93	649573.61	
15526.00	91.47	271.14	7723.09	38.31	-7943.09	0.23	7943.19	413487.85	649478.67	Last Wft Svy
15620.00	91.47	271.14	7720.68	40.18	-8037.04	0.00	8037.14	413489.72	649384.72	Proj. To Bit

Annotation

MD ft	TVD ft	
7152.00	7151.60	Tie On Gyrodata
7171.00	7170.59	First Wft Svy
15526.00	7723.09	Last Wft Svy
15620.00	7720.68	Proj. To Bit