

BOPCO, L.P.

Poker Lake Unit 335H
Eddy Co, NM

30-015-39252

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8770.00	90.55	312.60	7894.33	770.10	-758.03	0.00	0.00	1080.49	
2	8829.34	91.66	314.00	7893.19	810.79	-801.21	3.00	51.60	1139.81	
3	9770.41	91.66	314.00	7866.00	1464.18	-1477.92	0.00	0.00	2080.40	Tgt After Csg
4	9801.40	91.10	314.74	7865.26	1485.84	-1500.07	3.00	127.05	2111.38	
5	11854.94	91.10	314.74	7826.00	2930.99	-2958.51	0.00	0.00	4164.55	Tgt 2
6	11867.41	90.72	314.73	7825.80	2939.77	-2967.37	3.00	-179.17	4177.02	
7	16300.27	90.72	314.73	7770.00	6059.34	-6116.23	0.00	0.00	8609.52	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PLU 335H	0.00	0.00	440975.68	652209.37	32°12'41.045N	103°50'28.310W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7770.00	6059.34	-6116.23	447035.01	646093.14	Point
Tgt 2	7826.00	2930.99	-2958.51	443906.67	649250.86	Point
Tgt After Csg	7866.00	1464.18	-1477.92	442439.86	650731.45	Point

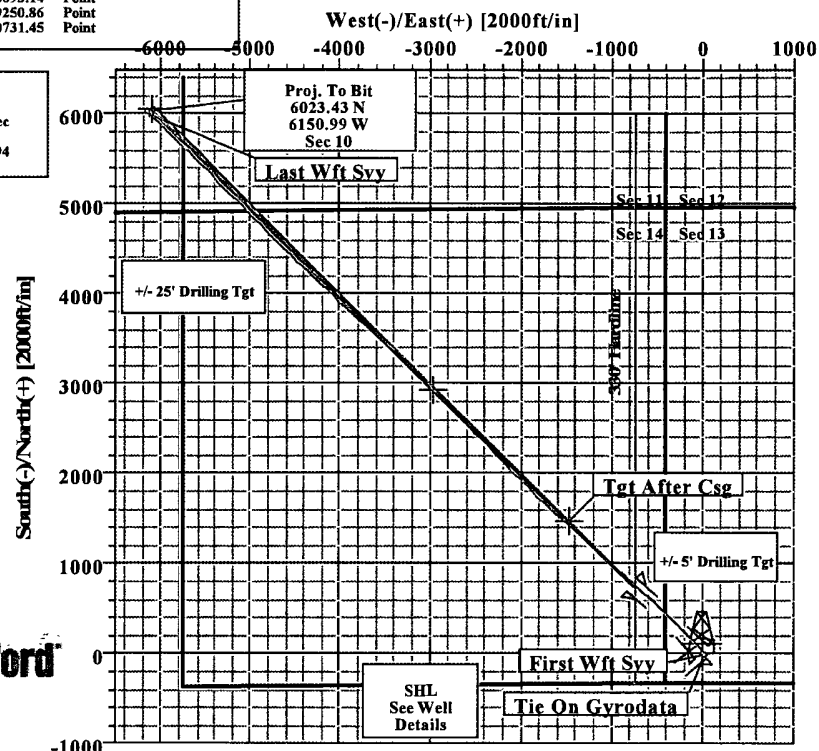
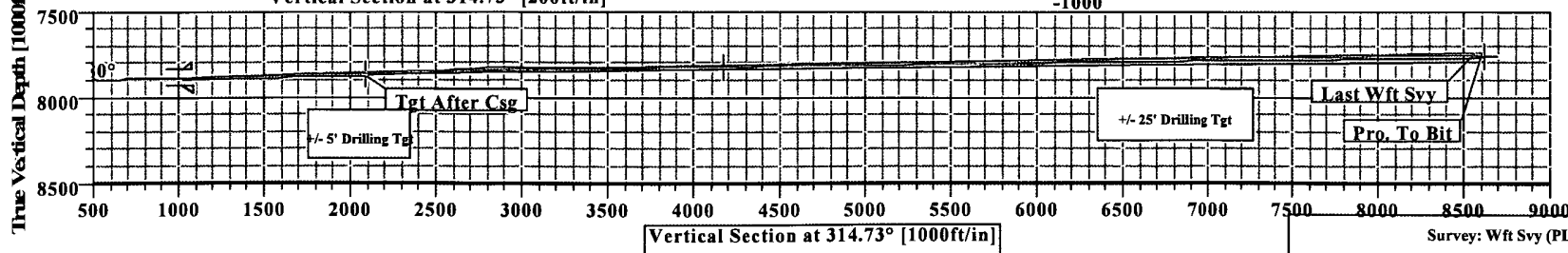
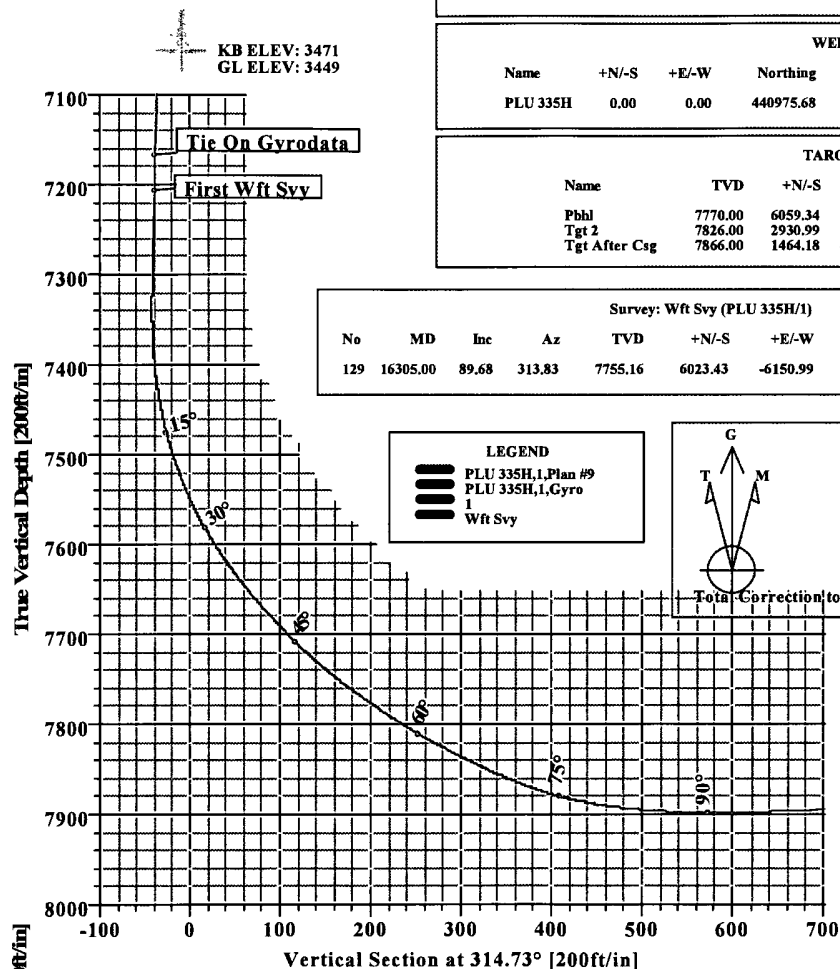
FIELD DETAILS

Eddy County, NM (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Poker Lake Unit 335H
Site Centre Northing: 440975.68
Easting: 652209.37
Ground Level: 3449.00
Positional Uncertainty: 0.00
Convergence: 0.26



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPOQ, L.P. Field: Eddy County, NM(Nad 27) Site: Poker Lake Unit 335H Well: FLU 335H Wellpath: 1		Date: 2/3/2012 Co-ordinate(N/E) Reference: Well: FLU 335H Grid North Vertical (TVD) Reference: SITE 3471.0 Section (VS) Reference: Well (0.00N,0.00E,314.73Azi) Survey Calculation Method: Minimum Curvature Dix: Sybase		Page: 1						
Survey: Wft Svy Company: Weatherford International Ltd. Tool: MWD/MWD - Standard		Start Date: 1/12/2012 Engineer: Russell W. Joyner Tied-to: User Defined								
Field: Eddy County, NM(Nad 27)										
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level		Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010								
Site: Poker Lake Unit 335H										
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3449.00 ft		Northing: 440975.68 ft Easting: 652209.37 ft Latitude: 32 12 41.045 N Longitude: 103 50 28.310 W North Reference: Grid Grid Convergence: 0.26 deg								
Well: FLU 335H Slot Name:										
Well Position: +N-S 0.00 ft +E-W 0.00 ft Position Uncertainty: 0.00 ft		Northing: 440975.68 ft Easting: 652209.37 ft Latitude: 32 12 41.045 N Longitude: 103 50 28.310 W								
Wellpath: 1										
Current Datum: SITE Magnetic Data: 10/26/2011 Field Strength: 48568 nT Vertical Section: Depth From (TVD) ft		Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.67 deg Mag Dip Angle: 60.12 deg +E/-W: Direction deg								
0.00		0.00 0.00 314.73								
Survey										
MD ft	Incl deg	Azim deg	TVD ft	NS ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
793.00	1.21	52.39	792.90	7.06	9.35	0.00	-1.68	440982.73	652218.72	Osg
4105.00	0.57	135.34	4104.78	8.78	19.22	0.04	-7.47	440984.46	652228.59	Osg
7167.00	1.53	133.57	7166.49	-14.25	40.36	0.03	-38.70	440961.43	652249.72	Tie On Gyrodata
7206.00	1.46	141.07	7205.47	-14.99	41.04	0.53	-39.71	440960.68	652250.41	First Wft Svy
7278.00	1.51	137.01	7277.45	-16.40	42.27	0.16	-41.57	440959.28	652251.64	
7301.00	1.62	135.56	7300.44	-16.85	42.70	0.51	-42.20	440958.82	652252.07	
7332.00	0.71	102.05	7331.43	-17.21	43.20	3.55	-42.80	440958.47	652252.57	
7364.00	2.15	334.92	7363.43	-16.70	43.14	8.25	-42.40	440958.97	652252.51	
7395.00	5.17	327.51	7394.36	-15.00	42.14	9.84	-40.49	440960.68	652251.51	
7427.00	8.81	326.60	7426.12	-11.74	40.01	11.38	-36.69	440963.94	652249.38	
7458.00	12.52	326.97	7456.58	-6.94	36.88	11.97	-31.08	440968.74	652246.24	
7490.00	16.51	326.66	7487.55	-0.23	32.48	12.47	-23.24	440975.45	652241.85	
7521.00	20.42	324.10	7516.95	7.84	26.89	12.88	-13.59	440983.51	652236.26	
7553.00	24.68	321.84	7546.50	17.62	19.49	13.58	-1.44	440993.29	652228.85	
7584.00	28.85	319.36	7574.17	28.39	10.61	13.92	12.44	441004.06	652219.98	
7616.00	32.93	317.17	7601.63	40.63	-0.34	13.22	28.83	441016.30	652209.03	
7647.00	36.23	315.84	7627.15	53.38	-12.45	10.92	46.42	441029.06	652196.92	
7679.00	39.37	314.50	7652.43	67.29	-26.28	10.14	66.02	441042.96	652183.09	
7710.00	41.76	314.27	7675.98	81.38	-40.69	7.72	86.18	441057.06	652168.68	
7741.00	43.92	314.11	7698.71	96.08	-55.80	6.98	107.26	441071.75	652153.57	
7773.00	46.72	314.85	7721.20	112.02	-72.03	8.90	130.01	441087.70	652137.34	
7805.00	50.72	315.34	7742.31	129.05	-89.00	12.55	154.05	441104.73	652120.37	
7836.00	53.14	315.95	7761.43	146.50	-106.06	7.96	178.45	441122.18	652103.31	
7868.00	55.59	315.99	7780.07	165.20	-124.13	7.66	204.45	441140.87	652085.23	

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPOQ, L.P.
Field: Eddy County, NM (Nad 27)
Site: Poker Lake Unit 335H
Well: FLU 335H
Wellpath: 1

Date: 2/3/2012 Time: 05:42:04 Page: 2
Co-ordinate(N/E) Reference: Well: FLU 335H, Grid North
Vertical (TVD) Reference: SITE 3471.0
Section (VS) Reference: Well (0.00N,0.00E,314.73Azi)
Survey Calculation Method: Minimum Curvature Dir: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	NS ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7899.00	58.21	316.06	7797.00	183.89	-142.16	8.45	230.41	441159.56	652067.21	
7930.00	60.43	315.76	7812.81	203.03	-160.71	7.21	257.07	441178.71	652048.66	
7962.00	62.25	314.92	7828.16	223.00	-180.45	6.14	285.14	441198.68	652028.92	
7993.00	63.74	314.04	7842.24	242.35	-200.16	5.43	312.76	441218.03	652009.21	
8025.00	66.18	313.75	7855.78	262.45	-221.05	7.67	341.75	441238.13	651988.32	
8056.00	69.44	314.24	7867.48	282.39	-241.69	10.62	370.44	441258.07	651967.67	
8088.00	73.80	315.21	7877.57	303.76	-263.26	13.93	400.80	441279.43	651946.11	
8119.00	78.05	316.11	7885.11	325.26	-284.27	14.00	430.86	441300.93	651925.10	
8151.00	81.48	316.23	7890.80	347.97	-306.08	10.73	462.34	441323.65	651903.29	
8182.00	84.85	315.83	7894.48	370.12	-327.44	10.95	493.11	441345.80	651881.93	
8214.00	86.68	314.99	7896.85	392.85	-349.85	6.29	525.01	441368.52	651859.52	
8246.00	89.41	314.36	7897.94	415.33	-372.59	8.76	556.99	441391.01	651836.78	
8277.00	90.52	313.89	7897.96	436.91	-394.84	3.89	587.99	441412.59	651814.53	
8309.00	91.29	313.75	7897.45	459.07	-417.92	2.45	619.98	441434.74	651791.45	
8340.00	91.99	313.56	7896.56	480.46	-440.34	2.34	650.96	441456.13	651769.03	
8372.00	92.20	313.27	7895.40	502.43	-463.57	1.12	682.93	441478.11	651745.80	
8403.00	92.13	313.29	7894.22	523.67	-486.12	0.23	713.90	441499.35	651723.24	
8435.00	91.43	312.70	7893.23	545.48	-509.52	2.86	745.87	441521.16	651699.85	
8466.00	89.69	312.14	7892.93	566.39	-532.40	5.90	776.84	441542.07	651676.97	
8498.00	89.41	311.55	7893.18	587.74	-556.24	2.04	808.80	441563.42	651653.13	
8529.00	90.03	311.54	7893.33	608.30	-579.44	2.00	839.75	441583.97	651629.93	
8561.00	90.80	311.76	7893.10	629.56	-603.35	2.50	871.71	441605.24	651606.02	
8592.00	89.76	311.80	7892.95	650.22	-626.47	3.36	902.66	441625.89	651582.90	
8623.00	88.78	312.18	7893.34	670.96	-649.51	3.39	933.63	441646.63	651559.86	
8655.00	88.99	312.35	7893.96	692.47	-673.18	0.84	965.59	441668.15	651536.19	
8710.00	89.83	312.43	7894.53	729.55	-713.80	1.53	1020.54	441705.23	651495.57	
8770.00	90.50	312.19	7894.36	769.94	-758.17	1.18	1080.49	441745.61	651451.20	Osg
8810.00	90.94	312.03	7893.86	796.76	-787.84	1.18	1120.44	441772.43	651421.53	
8874.00	91.43	312.09	7892.54	839.62	-835.35	0.77	1184.36	441815.30	651374.02	
8970.00	90.80	313.14	7890.67	904.61	-905.98	1.28	1280.27	441880.28	651303.39	
9065.00	90.80	313.01	7889.34	969.48	-975.37	0.14	1375.22	441945.16	651234.00	
9161.00	91.29	313.62	7887.59	1035.33	-1045.21	0.81	1471.18	442011.00	651164.16	
9257.00	91.22	313.21	7885.49	1101.29	-1114.92	0.43	1567.13	442076.97	651094.45	
9353.00	91.15	313.43	7883.50	1167.14	-1184.75	0.24	1663.08	442142.82	651024.62	
9448.00	91.01	313.11	7881.71	1232.24	-1253.91	0.37	1758.03	442207.92	650955.46	
9544.00	89.13	312.34	7881.59	1297.38	-1324.43	2.12	1853.97	442273.05	650884.94	
9639.00	90.80	312.44	7881.65	1361.42	-1394.59	1.76	1948.88	442337.10	650814.78	
9735.00	93.53	313.36	7878.03	1426.71	-1464.86	3.00	2044.76	442402.39	650744.51	
9831.00	93.46	313.00	7872.17	1492.28	-1534.73	0.38	2140.54	442467.96	650674.63	
9926.00	92.98	311.50	7866.84	1556.06	-1604.94	1.66	2235.30	442531.73	650604.43	
10022.00	92.41	311.74	7862.32	1619.75	-1676.63	0.64	2331.05	442595.42	650532.74	
10117.00	94.09	312.99	7856.94	1683.66	-1746.70	2.20	2425.81	442659.33	650462.66	
10213.00	94.59	313.67	7849.67	1749.34	-1816.34	0.88	2521.51	442725.02	650393.03	
10309.00	94.10	315.12	7842.40	1816.31	-1884.73	1.59	2617.23	442791.98	650324.64	
10405.00	92.84	315.75	7836.59	1884.58	-1951.97	1.47	2713.04	442860.25	650257.40	
10500.00	91.16	314.41	7833.27	1951.80	-2019.01	2.26	2807.98	442927.48	650190.36	
10596.00	91.92	314.65	7830.69	2019.10	-2087.42	0.83	2903.94	442994.77	650121.95	
10692.00	90.38	315.15	7828.77	2086.85	-2155.40	1.69	2999.92	443062.52	650053.97	
10718.00	90.80	315.18	7828.50	2105.28	-2173.73	1.62	3025.92	443080.96	650035.63	
10813.00	90.66	316.74	7827.29	2173.57	-2239.77	1.65	3120.88	443149.24	649969.60	
10909.00	91.02	317.29	7825.88	2243.79	-2305.21	0.68	3216.80	443219.46	649904.16	
11005.00	90.17	316.63	7824.88	2313.95	-2370.73	1.12	3312.72	443289.62	649838.64	

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPOQ, L.P.
Field: Eddy County, NM (Nad 27)
Site: Poker Lake Unit 335H
Well: PLU 335H
Wellpath: 1

Date: 2/3/2012 Time: 05:42:04 Page: 3
Co-ordinate(N/E) Reference: Well: PLU 335H Grid North
Vertical (TVD) Reference: SITE 3471.0
Section (VS) Reference: Well (0.00N,0.00E,314.73Azi)
Survey Calculation Method: Minimum Curvature Dtx Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	NS ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11101.00	89.54	315.72	7825.13	2383.20	-2437.20	1.15	3408.68	443358.88	649772.16	
11197.00	91.72	318.57	7824.07	2453.56	-2502.48	3.74	3504.58	443429.24	649706.88	
11292.00	88.78	316.68	7823.66	2523.73	-2566.50	3.68	3599.44	443499.41	649642.87	
11388.00	86.95	314.68	7827.23	2592.36	-2633.52	2.82	3695.35	443568.04	649575.85	
11483.00	86.68	314.83	7832.51	2659.15	-2700.88	0.33	3790.21	443634.82	649508.49	
11578.00	89.13	316.13	7836.98	2726.83	-2767.44	2.92	3885.13	443702.51	649441.93	
11674.00	88.28	315.63	7838.15	2795.73	-2834.25	1.03	3981.08	443771.41	649375.12	
11769.00	89.06	316.31	7840.36	2864.01	-2900.26	1.09	4076.03	443839.69	649309.11	
11864.00	90.31	317.06	7840.88	2933.13	-2965.43	1.53	4170.97	443908.81	649243.94	
11960.00	90.66	317.13	7840.07	3003.45	-3030.78	0.37	4266.89	443979.12	649178.59	
12055.00	92.48	315.88	7837.47	3072.33	-3096.14	2.32	4361.80	444048.01	649113.23	
12150.00	92.06	314.93	7833.70	3139.93	-3162.78	1.09	4456.72	444115.60	649046.58	
12245.00	91.92	314.50	7830.40	3206.73	-3230.25	0.48	4551.66	444182.40	648979.12	
12341.00	89.97	311.79	7828.82	3272.36	-3300.28	3.48	4647.60	444248.03	648909.09	
12436.00	91.30	313.40	7827.77	3336.65	-3370.20	2.20	4742.52	444312.32	648839.16	
12531.00	89.41	311.55	7827.18	3400.79	-3440.27	2.78	4837.44	444376.47	648769.10	
12627.00	89.34	311.12	7828.23	3464.19	-3512.34	0.45	4933.26	444439.87	648697.02	
12722.00	90.87	314.13	7828.05	3528.52	-3582.24	3.55	5028.18	444504.19	648627.13	
12818.00	89.90	311.10	7827.41	3593.50	-3652.87	3.31	5124.10	444569.18	648556.50	
12913.00	91.65	311.51	7826.12	3656.20	-3724.23	1.89	5218.92	444631.88	648485.14	
13008.00	91.30	312.25	7823.68	3719.60	-3794.94	0.86	5313.77	444695.28	648414.43	
13104.00	90.52	312.60	7822.15	3784.35	-3865.79	0.89	5409.68	444760.03	648343.58	
13199.00	92.70	313.74	7819.48	3849.32	-3935.04	2.59	5504.60	444825.00	648274.33	
13294.00	93.60	313.61	7814.26	3914.82	-4003.65	0.96	5599.44	444890.50	648205.72	
13389.00	92.77	313.84	7808.98	3980.39	-4072.20	0.91	5694.28	444956.06	648137.17	
13484.00	92.35	314.73	7804.74	4046.65	-4140.14	1.04	5789.18	445022.33	648069.23	
13580.00	92.55	314.49	7800.64	4114.01	-4208.42	0.33	5885.09	445089.68	648000.95	
13675.00	92.41	313.14	7796.53	4179.72	-4276.90	1.43	5979.99	445155.39	647932.47	
13770.00	92.76	312.98	7792.24	4244.51	-4346.24	0.41	6074.85	445220.19	647863.13	
13866.00	91.92	312.72	7788.32	4309.74	-4416.56	0.92	6170.72	445285.42	647792.81	
13961.00	92.06	313.62	7785.02	4374.70	-4486.81	0.96	6265.62	445350.38	647723.56	
14056.00	91.92	312.78	7781.72	4439.69	-4555.01	0.90	6360.53	445415.37	647654.35	
14152.00	92.06	313.07	7778.39	4505.03	-4625.27	0.34	6456.42	445480.71	647584.10	
14247.00	89.90	314.55	7776.77	4570.78	-4693.81	2.76	6551.39	445546.46	647515.56	
14343.00	89.90	315.62	7776.93	4638.77	-4761.59	1.11	6647.39	445614.44	647447.78	
14438.00	89.90	315.00	7777.10	4706.30	-4828.40	0.65	6742.38	445681.98	647380.97	
14534.00	91.64	317.09	7775.81	4775.40	-4895.02	2.83	6838.34	445751.07	647314.35	
14629.00	90.87	315.50	7773.73	4844.06	-4960.64	1.86	6933.28	445819.73	647248.73	
14724.00	91.36	315.54	7771.88	4911.82	-5027.19	0.52	7028.25	445887.50	647182.18	
14820.00	90.66	314.64	7770.19	4979.80	-5094.95	1.19	7124.23	445955.48	647114.41	
14915.00	89.93	314.53	7769.70	5046.49	-5162.61	0.78	7219.23	446022.16	647046.76	
15010.00	89.69	314.26	7770.01	5112.95	-5230.49	0.38	7314.23	446088.62	646978.88	
15106.00	90.17	314.16	7770.13	5179.89	-5299.30	0.51	7410.22	446155.56	646910.06	
15201.00	91.29	315.83	7768.92	5247.05	-5366.48	2.12	7505.21	446222.72	646842.89	
15297.00	90.87	315.75	7767.11	5315.85	-5433.40	0.45	7601.17	446291.52	646775.96	
15392.00	91.22	315.44	7765.38	5383.71	-5499.87	0.49	7696.15	446359.38	646709.50	
15487.00	90.73	314.52	7763.76	5450.85	-5567.06	1.10	7791.13	446426.52	646642.31	
15583.00	91.43	314.68	7761.95	5518.24	-5635.40	0.75	7887.11	446493.92	646573.97	
15679.00	90.66	314.38	7760.20	5585.55	-5703.82	0.86	7983.10	446561.23	646505.55	
15774.00	91.36	313.52	7758.53	5651.47	-5772.21	1.17	8078.07	446627.15	646437.16	
15870.00	91.43	313.92	7756.19	5717.80	-5841.57	0.42	8174.03	446693.48	646367.80	
15965.00	91.78	315.75	7753.53	5784.75	-5908.91	1.96	8268.99	446760.43	646300.46	
16060.00	89.34	314.90	7752.60	5852.30	-5975.69	2.72	8363.97	446827.98	646233.68	

Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: BOPOQ, L.P.	Date: 2/3/2012	Time: 05:42:04	Page: 4
Field: Eddy County, NM(Nad 27)	Co-ordinate(NE) Reference:	Well: FLU 335-H, Grid North	
Site: Poker Lake Unit 335H	Vertical (TVD) Reference:	SITE: 3471.0	
Well: FLU 335-H	Section (VS) Reference:	Well (0.00N,0.00E,314.73Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	NS ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
16156.00	89.12	314.55	7753.89	5919.85	-6043.89	0.43	8459.96	446895.53	646165.48	
16245.00	89.68	313.83	7754.82	5981.88	-6107.70	1.02	8548.95	446957.56	646101.67	Last Wft Svy
16305.00	89.68	313.83	7755.16	6023.43	-6150.99	0.00	8608.94	446999.11	646058.38	Pro. To Bit

Annotation

MD ft	TVD ft	
7167.00	7166.49	Tie On Gyrodata
7206.00	7205.47	First Wft Svy
16245.00	7754.82	Last Wft Svy
16305.00	7755.16	Pro. To Bit