

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: **Guttersen 31T-441**

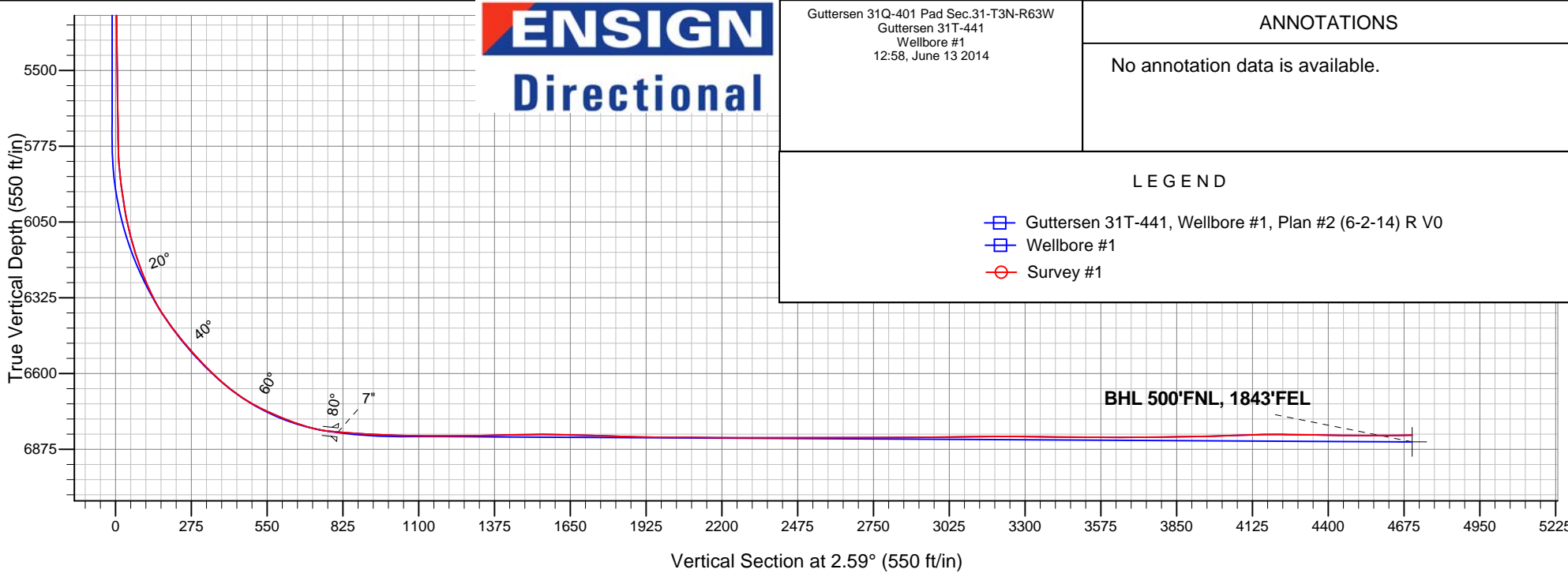
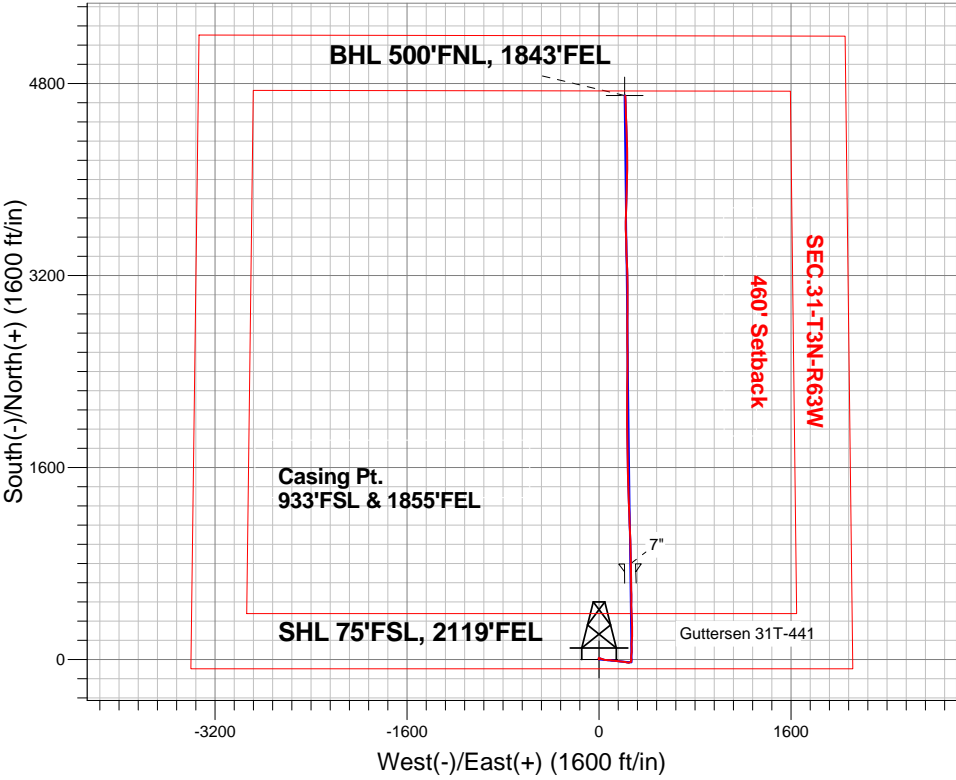
Surface Location: Guttersen 31Q-401 Pad Sec.31-T3N-R63W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4823.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1308192.11	3285436.77	40.174870	-104.478500	
Ensign Rig #136 - RKB - 12.5' WELL @ 4835.5ft (Ensign Rig #136 - RKB - 12.5')						

FINAL SURVEY

Projected Bottom Hole Location  
11127'MD 6824'TVD 4699'N & 218'E of SHL  
90.7 degree Incl @ 357.4 degree AZM





# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.31-T3N-R63W**

**Guttersen 31Q-401 Pad Sec.31-T3N-R63W**

**Guttersen 31T-441**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**13 June, 2014**

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Gutteresen 31T-441
<b>Project:</b>	SEC.31-T3N-R63W	<b>TVD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - RKB - 12.5')
<b>Site:</b>	Gutteresen 31Q-401 Pad Sec.31-T3N-R63W	<b>MD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - RKB - 12.5')
<b>Well:</b>	Gutteresen 31T-441	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	SEC.31-T3N-R63W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		Guttersen 31Q-401 Pad Sec.31-T3N-R63W			
Site Position:		Northing:	1,308,191.41 ft	Latitude:	40.174870
From:	Lat/Long	Easting:	3,285,375.30 ft	Longitude:	-104.478720
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.66 °

Well	Gutteresen 31T-441					
Well Position	+N-S	0.0 ft	Northing:	1,308,192.11 ft	Latitude:	40.174870
	+E-W	0.0 ft	Easting:	3,285,436.77 ft	Longitude:	-104.478500
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,823.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	6/2/2014	8.29	66.81	52,731

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	2.59	

<b>Survey Program</b>	<b>Date</b> 6/13/2014				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
69.0	11,127.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	307.80	1.0	0.0	0.0	0.0	0.29	0.29	0.00	
<b>SHL 75°FSL, 2119°FEL</b>										
69.0	0.20	307.80	69.0	0.1	-0.1	0.1	0.29	0.29	0.00	
158.0	0.40	344.90	158.0	0.5	-0.3	0.5	0.30	0.22	41.69	
251.0	0.60	336.80	251.0	1.2	-0.6	1.2	0.23	0.22	-8.71	
342.0	0.60	352.10	342.0	2.1	-0.8	2.1	0.18	0.00	16.81	
432.0	1.10	324.50	432.0	3.3	-1.4	3.2	0.70	0.56	-30.67	
524.0	1.40	344.40	524.0	5.1	-2.2	5.0	0.57	0.33	21.63	
614.0	1.10	337.20	613.9	7.0	-2.8	6.8	0.38	-0.33	-8.00	

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Guttersen 31T-441
<b>Project:</b>	SEC.31-T3N-R63W	<b>TVD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - RKB - 12.5')
<b>Site:</b>	Guttersen 31Q-401 Pad Sec.31-T3N-R63W	<b>MD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - RKB - 12.5')
<b>Well:</b>	Guttersen 31T-441	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
705.0	1.10	347.40	704.9	8.6	-3.4	8.5	0.21	0.00	11.21
796.0	0.40	82.50	795.9	9.5	-3.2	9.4	1.32	-0.77	104.51
887.0	0.80	108.80	886.9	9.4	-2.3	9.2	0.52	0.44	28.90
925.0	0.50	237.20	924.9	9.2	-2.2	9.1	3.10	-0.79	337.90
1,019.0	1.70	5.50	1,018.9	10.3	-2.4	10.2	2.18	1.28	136.49
1,111.0	1.10	59.40	1,110.9	12.2	-1.5	12.1	1.50	-0.65	58.59
1,202.0	2.00	123.80	1,201.8	11.7	0.5	11.7	2.00	0.99	70.77
1,293.0	3.10	107.60	1,292.8	10.1	4.2	10.3	1.43	1.21	-17.80
1,384.0	4.30	115.50	1,383.6	7.9	9.6	8.3	1.43	1.32	8.68
1,474.0	5.20	106.70	1,473.3	5.2	16.6	6.0	1.28	1.00	-9.78
1,565.0	6.60	107.10	1,563.8	2.5	25.5	3.7	1.54	1.54	0.44
1,656.0	6.40	106.20	1,654.2	-0.4	35.4	1.2	0.25	-0.22	-0.99
1,747.0	5.70	104.60	1,744.7	-3.0	44.6	-1.0	0.79	-0.77	-1.76
1,837.0	6.20	98.50	1,834.2	-4.8	53.8	-2.4	0.89	0.56	-6.78
1,928.0	5.50	93.00	1,924.7	-5.8	63.0	-2.9	0.98	-0.77	-6.04
2,019.0	6.30	97.60	2,015.2	-6.7	72.3	-3.4	1.02	0.88	5.05
2,110.0	6.20	89.90	2,105.7	-7.3	82.2	-3.6	0.93	-0.11	-8.46
2,204.0	6.00	89.90	2,199.2	-7.3	92.1	-3.1	0.21	-0.21	0.00
2,297.0	7.70	99.30	2,291.5	-8.3	103.2	-3.6	2.18	1.83	10.11
2,392.0	7.10	95.70	2,385.7	-9.9	115.3	-4.7	0.80	-0.63	-3.79
2,487.0	6.30	93.00	2,480.1	-10.8	126.3	-5.1	0.90	-0.84	-2.84
2,583.0	7.10	104.30	2,575.4	-12.5	137.3	-6.3	1.60	0.83	11.77
2,678.0	6.90	94.10	2,669.7	-14.4	148.7	-7.6	1.32	-0.21	-10.74
2,773.0	6.00	90.00	2,764.1	-14.8	159.4	-7.6	1.06	-0.95	-4.32
2,868.0	6.90	101.60	2,858.5	-15.9	169.9	-8.2	1.66	0.95	12.21
2,963.0	6.50	96.90	2,952.9	-17.7	180.9	-9.5	0.71	-0.42	-4.95
3,058.0	6.20	90.90	3,047.3	-18.4	191.3	-9.8	0.77	-0.32	-6.32
3,153.0	6.20	99.20	3,141.7	-19.3	201.5	-10.2	0.94	0.00	8.74
3,248.0	6.00	93.50	3,236.2	-20.5	211.5	-10.9	0.67	-0.21	-6.00
3,340.0	6.30	104.80	3,327.7	-22.1	221.2	-12.0	1.35	0.33	12.28
3,438.0	5.80	104.80	3,425.1	-24.7	231.2	-14.2	0.51	-0.51	0.00
3,534.0	5.40	98.60	3,520.7	-26.6	240.4	-15.7	0.75	-0.42	-6.46
3,629.0	3.40	77.50	3,615.4	-26.7	247.5	-15.5	2.67	-2.11	-22.21
3,724.0	2.30	69.30	3,710.3	-25.4	252.1	-14.0	1.23	-1.16	-8.63
3,819.0	2.10	63.80	3,805.2	-23.9	255.4	-12.4	0.31	-0.21	-5.79
3,914.0	1.50	62.40	3,900.1	-22.6	258.1	-10.9	0.63	-0.63	-1.47
4,009.0	1.20	82.30	3,995.1	-21.9	260.2	-10.1	0.58	-0.32	20.95
4,104.0	1.00	79.10	4,090.1	-21.6	262.0	-9.7	0.22	-0.21	-3.37
4,199.0	0.40	86.30	4,185.1	-21.4	263.1	-9.5	0.64	-0.63	7.58
4,294.0	0.60	75.10	4,280.1	-21.3	263.9	-9.3	0.23	0.21	-11.79
4,390.0	0.40	74.90	4,376.1	-21.0	264.7	-9.1	0.21	-0.21	-0.21
4,485.0	0.50	52.10	4,471.1	-20.7	265.4	-8.7	0.21	0.11	-24.00
4,580.0	0.70	21.10	4,566.1	-19.9	265.9	-7.9	0.39	0.21	-32.63
4,675.0	1.00	3.50	4,661.1	-18.5	266.2	-6.5	0.42	0.32	-18.53
4,770.0	1.10	31.30	4,756.0	-16.9	266.7	-4.9	0.54	0.11	29.26
4,866.0	1.10	16.70	4,852.0	-15.3	267.4	-3.2	0.29	0.00	-15.21
4,961.0	0.90	359.10	4,947.0	-13.6	267.7	-1.5	0.38	-0.21	-18.53
5,056.0	0.50	14.60	5,042.0	-12.5	267.8	-0.4	0.46	-0.42	16.32
5,151.0	0.90	356.70	5,137.0	-11.4	267.8	0.7	0.47	0.42	-18.84
5,247.0	0.90	355.30	5,233.0	-9.8	267.7	2.2	0.02	0.00	-1.46
5,342.0	0.60	3.70	5,328.0	-8.6	267.7	3.5	0.34	-0.32	8.84

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<b>Site:</b>	Gutteresen 31Q-401 Pad Sec.31-T3N-R63W	<b>MD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - RKB - 12.5')
<b>Well:</b>	Gutteresen 31T-441	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,437.0	1.00	349.70	5,423.0	-7.3	267.6	4.8	0.47	0.42	-14.74	
5,532.0	0.60	2.80	5,518.0	-6.0	267.5	6.1	0.46	-0.42	13.79	
5,627.0	0.70	19.40	5,613.0	-4.9	267.7	7.1	0.22	0.11	17.47	
5,722.0	1.00	28.00	5,707.9	-3.7	268.3	8.5	0.34	0.32	9.05	
5,754.0	0.90	39.60	5,739.9	-3.2	268.6	8.9	0.68	-0.31	36.25	
5,785.0	1.00	15.80	5,770.9	-2.8	268.8	9.4	1.30	0.32	-76.77	
5,817.0	2.30	359.30	5,802.9	-1.9	268.9	10.3	4.28	4.06	-51.56	
5,848.0	3.90	353.00	5,833.9	-0.2	268.7	11.9	5.27	5.16	-20.32	
5,880.0	5.50	353.30	5,865.8	2.4	268.4	14.5	5.00	5.00	0.94	
5,912.0	6.60	356.30	5,897.6	5.8	268.1	17.9	3.58	3.44	9.38	
5,943.0	7.60	356.30	5,928.3	9.6	267.9	21.7	3.23	3.23	0.00	
5,975.0	8.40	358.60	5,960.0	14.0	267.7	26.1	2.69	2.50	7.19	
6,007.0	9.10	1.40	5,991.7	18.9	267.7	31.0	2.56	2.19	8.75	
6,039.0	10.70	3.00	6,023.2	24.4	267.9	36.5	5.07	5.00	5.00	
6,070.0	12.80	3.20	6,053.5	30.7	268.2	42.8	6.78	6.77	0.65	
6,102.0	13.90	6.00	6,084.7	38.1	268.8	50.2	3.99	3.44	8.75	
6,133.0	14.70	9.50	6,114.7	45.7	269.9	57.8	3.80	2.58	11.29	
6,165.0	16.60	9.50	6,145.5	54.2	271.3	66.4	5.94	5.94	0.00	
6,197.0	17.80	4.60	6,176.1	63.5	272.4	75.8	5.88	3.75	-15.31	
6,228.0	19.80	359.70	6,205.4	73.5	272.8	85.8	8.21	6.45	-15.81	
6,260.0	21.30	357.90	6,235.4	84.8	272.6	97.0	5.09	4.69	-5.63	
6,292.0	23.00	357.20	6,265.0	96.8	272.0	109.0	5.38	5.31	-2.19	
6,324.0	24.20	358.10	6,294.4	109.6	271.5	121.7	3.92	3.75	2.81	
6,355.0	26.60	0.00	6,322.4	122.9	271.3	135.0	8.18	7.74	6.13	
6,387.0	29.40	1.40	6,350.6	137.9	271.5	150.0	8.99	8.75	4.38	
6,419.0	32.70	3.40	6,378.0	154.4	272.2	166.5	10.80	10.31	6.25	
6,450.0	34.80	3.40	6,403.8	171.6	273.2	183.8	6.77	6.77	0.00	
6,482.0	36.40	2.70	6,429.8	190.2	274.2	202.4	5.16	5.00	-2.19	
6,514.0	38.10	1.40	6,455.3	209.6	274.9	221.7	5.85	5.31	-4.06	
6,546.0	39.50	0.20	6,480.2	229.6	275.2	241.8	4.97	4.38	-3.75	
6,577.0	40.80	359.70	6,503.9	249.6	275.2	261.8	4.32	4.19	-1.61	
6,609.0	42.30	359.00	6,527.9	270.8	274.9	282.9	4.91	4.69	-2.19	
6,641.0	43.50	357.90	6,551.3	292.6	274.3	304.7	4.42	3.75	-3.44	
6,673.0	44.70	357.00	6,574.3	314.8	273.3	326.8	4.23	3.75	-2.81	
6,704.0	45.50	357.40	6,596.2	336.8	272.3	348.7	2.74	2.58	1.29	
6,736.0	46.80	357.60	6,618.3	359.8	271.2	371.7	4.09	4.06	0.63	
6,768.0	49.10	357.70	6,639.8	383.6	270.3	395.4	7.19	7.19	0.31	
6,800.0	53.10	359.10	6,659.9	408.4	269.6	420.2	12.95	12.50	4.38	
6,831.0	55.40	0.20	6,678.0	433.6	269.4	445.3	7.96	7.42	3.55	
6,863.0	58.00	0.40	6,695.5	460.3	269.6	472.0	8.14	8.13	0.63	
6,895.0	60.70	0.40	6,711.9	487.9	269.8	499.6	8.44	8.44	0.00	
6,927.0	63.40	358.80	6,726.9	516.1	269.6	527.8	9.52	8.44	-5.00	
6,958.0	65.80	358.10	6,740.2	544.1	268.8	555.7	8.01	7.74	-2.26	
6,990.0	67.40	358.30	6,752.9	573.5	267.9	585.0	5.03	5.00	0.63	
7,022.0	68.40	359.10	6,764.9	603.1	267.2	614.6	3.89	3.13	2.50	
7,054.0	69.50	358.80	6,776.4	633.0	266.7	644.4	3.55	3.44	-0.94	
7,085.0	71.80	359.00	6,786.7	662.2	266.1	673.6	7.44	7.42	0.65	
7,117.0	74.80	359.30	6,795.9	692.9	265.7	704.1	9.42	9.38	0.94	
7,149.0	78.30	359.50	6,803.3	724.0	265.3	735.2	10.95	10.94	0.63	
7,180.0	82.70	359.90	6,808.4	754.5	265.2	765.7	14.25	14.19	1.29	
7,194.0	84.50	359.90	6,810.0	768.5	265.1	779.6	12.86	12.86	0.00	
7,284.0	86.40	359.10	6,817.1	858.2	264.4	869.2	2.29	2.11	-0.89	

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,374.0	87.30	357.90	6,822.1	948.0	262.0	958.9	1.67	1.00	-1.33	
7,465.0	88.50	357.70	6,825.4	1,038.9	258.5	1,049.5	1.34	1.32	-0.22	
7,557.0	90.00	358.10	6,826.6	1,130.8	255.1	1,141.2	1.69	1.63	0.43	
7,647.0	90.20	357.70	6,826.4	1,220.7	251.8	1,230.9	0.50	0.22	-0.44	
7,738.0	91.30	357.90	6,825.3	1,311.7	248.4	1,321.5	1.23	1.21	0.22	
7,829.0	91.50	358.60	6,823.0	1,402.6	245.6	1,412.2	0.80	0.22	0.77	
7,920.0	90.50	358.10	6,821.4	1,493.5	243.0	1,503.0	1.23	-1.10	-0.55	
8,015.0	89.40	357.90	6,821.5	1,588.5	239.6	1,597.7	1.18	-1.16	-0.21	
8,110.0	88.00	358.40	6,823.7	1,683.4	236.6	1,692.4	1.56	-1.47	0.53	
8,205.0	87.90	359.50	6,827.1	1,778.3	234.8	1,787.1	1.16	-0.11	1.16	
8,300.0	88.70	0.20	6,829.9	1,873.3	234.6	1,882.0	1.12	0.84	0.74	
8,396.0	89.90	0.00	6,831.1	1,969.3	234.8	1,977.9	1.27	1.25	-0.21	
8,491.0	89.70	359.90	6,831.4	2,064.3	234.7	2,072.8	0.24	-0.21	-0.11	
8,586.0	89.00	359.50	6,832.5	2,159.3	234.2	2,167.6	0.85	-0.74	-0.42	
8,681.0	89.90	0.40	6,833.4	2,254.3	234.1	2,262.5	1.34	0.95	0.95	
8,775.0	90.10	1.10	6,833.4	2,348.2	235.3	2,356.5	0.77	0.21	0.74	
8,870.0	90.40	0.40	6,833.0	2,443.2	236.6	2,451.4	0.80	0.32	-0.74	
8,966.0	89.90	359.70	6,832.7	2,539.2	236.6	2,547.3	0.90	-0.52	-0.73	
9,061.0	90.00	359.70	6,832.8	2,634.2	236.2	2,642.2	0.11	0.11	0.00	
9,156.0	90.30	359.90	6,832.6	2,729.2	235.8	2,737.1	0.38	0.32	0.21	
9,251.0	90.30	0.20	6,832.1	2,824.2	235.9	2,832.0	0.32	0.00	0.32	
9,347.0	90.70	0.60	6,831.2	2,920.2	236.6	2,927.9	0.59	0.42	0.42	
9,442.0	90.40	0.20	6,830.3	3,015.2	237.2	3,022.8	0.53	-0.32	-0.42	
9,537.0	90.60	359.50	6,829.5	3,110.2	237.0	3,117.7	0.77	0.21	-0.74	
9,632.0	90.70	358.60	6,828.4	3,205.2	235.4	3,212.5	0.95	0.11	-0.95	
9,727.0	89.40	357.20	6,828.3	3,300.1	231.9	3,307.2	2.01	-1.37	-1.47	
9,822.0	88.90	358.10	6,829.7	3,395.0	228.0	3,401.9	1.08	-0.53	0.95	
9,917.0	89.30	358.40	6,831.2	3,490.0	225.1	3,496.6	0.53	0.42	0.32	
10,012.0	89.90	359.30	6,831.9	3,584.9	223.2	3,591.4	1.14	0.63	0.95	
10,107.0	90.40	1.80	6,831.6	3,679.9	224.1	3,686.3	2.68	0.53	2.63	
10,202.0	91.00	1.40	6,830.5	3,774.9	226.8	3,781.3	0.76	0.63	-0.42	
10,298.0	90.60	1.60	6,829.1	3,870.8	229.3	3,877.3	0.47	-0.42	0.21	
10,393.0	91.30	0.90	6,827.6	3,965.8	231.4	3,972.2	1.04	0.74	-0.74	
10,488.0	92.60	1.30	6,824.3	4,060.7	233.2	4,067.1	1.43	1.37	0.42	
10,583.0	90.80	0.20	6,821.5	4,155.7	234.4	4,162.0	2.22	-1.89	-1.16	
10,679.0	89.30	358.60	6,821.4	4,251.7	233.4	4,257.9	2.28	-1.56	-1.67	
10,774.0	89.10	358.30	6,822.8	4,346.6	230.9	4,352.6	0.38	-0.21	-0.32	
10,869.0	89.30	358.10	6,824.1	4,441.6	227.9	4,447.3	0.30	0.21	-0.21	
10,964.0	89.90	358.10	6,824.7	4,536.5	224.7	4,542.0	0.63	0.63	0.00	
11,076.0	90.70	357.40	6,824.2	4,648.4	220.3	4,653.6	0.95	0.71	-0.63	
11,127.0	90.70	357.40	6,823.5	4,699.4	218.0	4,704.4	0.00	0.00	0.00	
BHL 500°FNL, 1849°FEL										

Checked By: _____	Approved By: _____	Date: _____
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