

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: **Guttersen 6M-423**

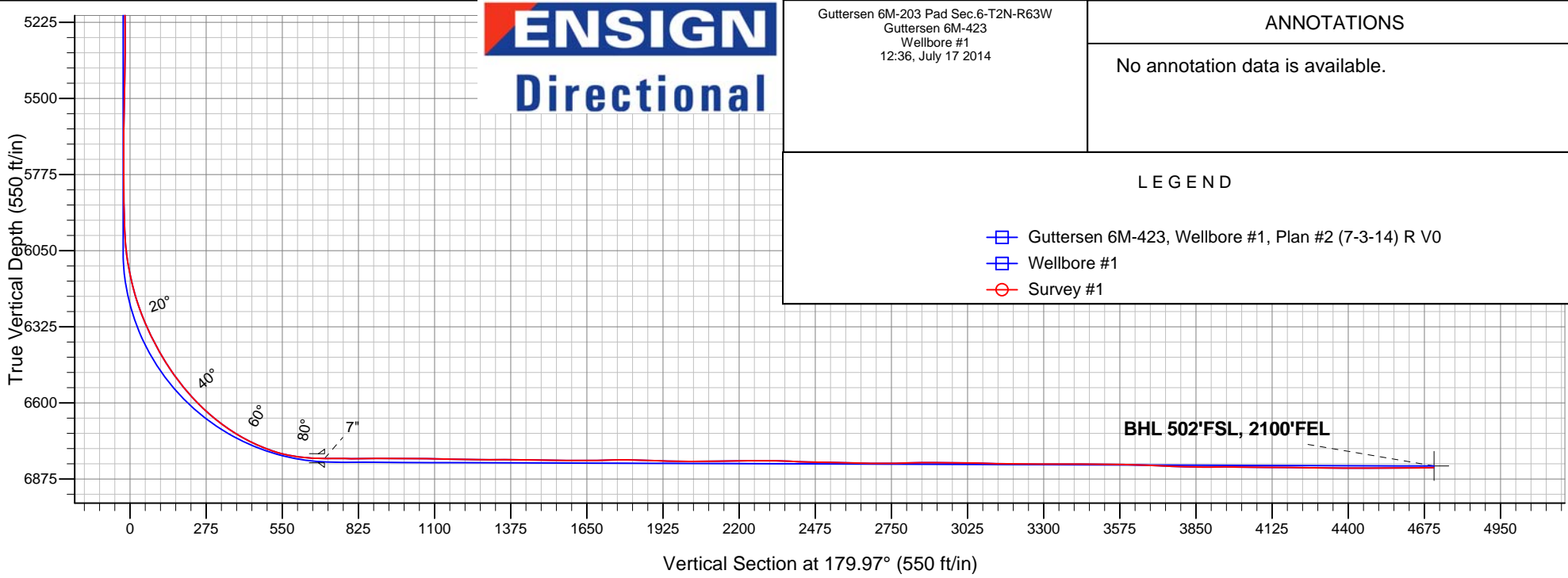
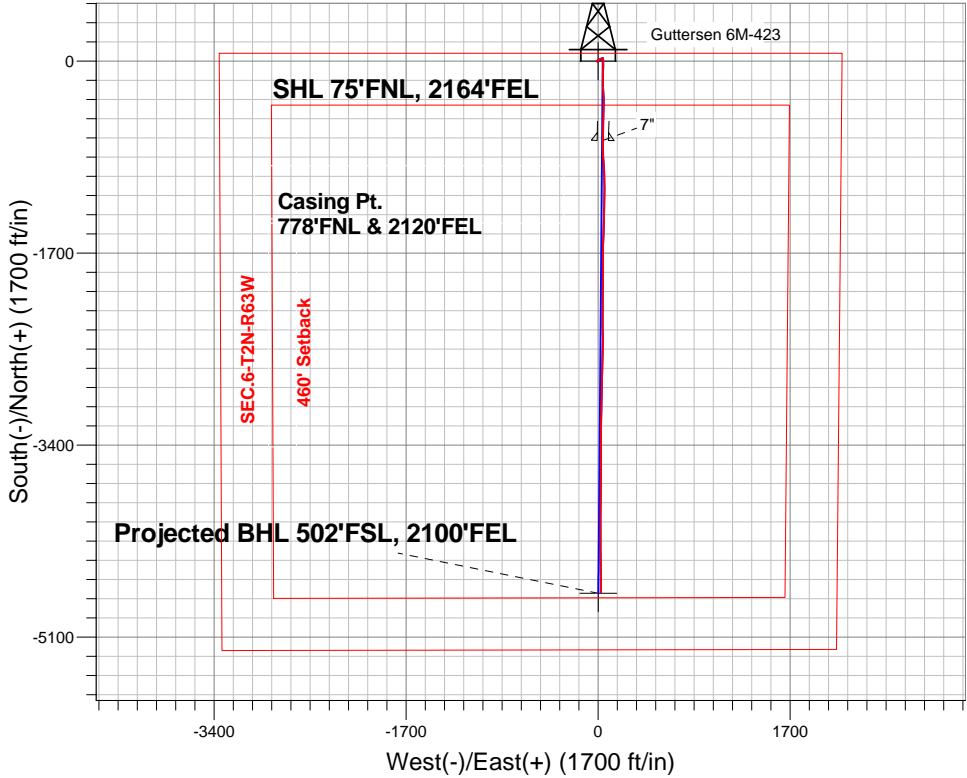
Surface Location: Guttersen 6M-203 Pad Sec.6-T2N-R63W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4823.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1308042.20	3285390.99	40.174460	-104.478670	
Ensign Rig #136 - 12.5' WELL @ 4835.5ft (Ensign Rig #136 - 12.5')						

FINAL SURVEY

Projected Bottom Hole Location  
11193'MD 6834'TVD 4708'S & 25'E of SHL  
91.0 degree Incl @ 180.5 degree AZM



Guttersen 6M-203 Pad Sec.6-T2N-R63W  
Guttersen 6M-423  
Wellbore #1  
12:36, July 17 2014

ANNOTATIONS

No annotation data is available.

LEGEND

- Guttersen 6M-423, Wellbore #1, Plan #2 (7-3-14) R V0
- Wellbore #1
- Survey #1



# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.6-T2N-R63W**

**Guttersen 6M-203 Pad Sec.6-T2N-R63W**

**Guttersen 6M-423**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**17 July, 2014**

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Gutteresen 6M-423
<b>Project:</b>	SEC.6-T2N-R63W	<b>TVD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - 12.5')
<b>Site:</b>	Gutteresen 6M-203 Pad Sec.6-T2N-R63W	<b>MD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - 12.5')
<b>Well:</b>	Gutteresen 6M-423	<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.6-T2N-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		Gutteresen 6M-203 Pad Sec.6-T2N-R63W			
Site Position:		Northing:	1,308,041.91 ft	Latitude:	40.174460
From:	Lat/Long	Easting:	3,285,363.04 ft	Longitude:	-104.478770
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.66 °

Well	Gutteresen 6M-423					
Well Position	+N-S	0.0 ft	Northing:	1,308,042.20 ft	Latitude:	40.174460
	+E-W	0.0 ft	Easting:	3,285,390.99 ft	Longitude:	-104.478670
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	7/7/2014	8.28	66.81	52,720

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	179.97	

<b>Survey Program</b>	<b>Date</b> 7/17/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
68.0	11,193.0	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	0.01	295.00	1.0	0.0	0.0	0.0	0.59	0.59	0.00
<b>SHL 75'FNL, 2164'FEL</b>									
68.0	0.40	295.00	68.0	0.1	-0.2	-0.1	0.59	0.59	0.00
158.0	0.40	175.10	158.0	-0.1	-0.5	0.1	0.77	0.00	-133.22
252.0	0.40	291.10	252.0	-0.3	-0.8	0.3	0.72	0.00	123.40
343.0	0.50	279.70	343.0	-0.1	-1.4	0.1	0.15	0.11	-12.53
433.0	0.70	257.90	433.0	-0.2	-2.4	0.2	0.33	0.22	-24.22
524.0	0.80	252.80	524.0	-0.5	-3.5	0.5	0.13	0.11	-5.60
615.0	0.30	76.50	615.0	-0.6	-3.9	0.6	1.21	-0.55	-193.74
706.0	0.50	93.00	706.0	-0.6	-3.3	0.6	0.25	0.22	18.13
797.0	0.80	71.40	797.0	-0.4	-2.3	0.4	0.42	0.33	-23.74

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<b>Site:</b>	Guttersen 6M-203 Pad Sec.6-T2N-R63W	<b>MD Reference:</b>	WELL @ 4835.5ft (Ensign Rig #136 - 12.5')
<b>Well:</b>	Guttersen 6M-423	<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)
843.0	0.70	75.30	843.0	-0.2	-1.7	0.2	0.24	-0.22	8.48
926.0	0.90	38.90	926.0	0.4	-0.8	-0.4	0.64	0.24	-43.86
1,022.0	0.90	25.30	1,021.9	1.7	0.0	-1.7	0.22	0.00	-14.17
1,113.0	1.00	16.00	1,112.9	3.1	0.5	-3.1	0.20	0.11	-10.22
1,204.0	0.80	23.20	1,203.9	4.5	1.0	-4.5	0.25	-0.22	7.91
1,295.0	1.10	25.20	1,294.9	5.8	1.6	-5.8	0.33	0.33	2.20
1,386.0	1.10	34.30	1,385.9	7.3	2.5	-7.3	0.19	0.00	10.00
1,476.0	1.30	23.60	1,475.9	9.0	3.4	-9.0	0.33	0.22	-11.89
1,567.0	1.60	221.30	1,566.9	9.0	3.0	-9.0	3.15	0.33	-178.35
1,658.0	1.20	215.70	1,657.8	7.3	1.6	-7.3	0.46	-0.44	-6.15
1,749.0	1.20	213.20	1,748.8	5.7	0.5	-5.7	0.06	0.00	-2.75
1,840.0	1.10	202.50	1,839.8	4.1	-0.4	-4.1	0.26	-0.11	-11.76
1,931.0	1.40	193.00	1,930.8	2.2	-1.0	-2.2	0.40	0.33	-10.44
2,021.0	1.30	196.70	2,020.8	0.1	-1.5	-0.1	0.15	-0.11	4.11
2,112.0	1.10	190.00	2,111.7	-1.7	-1.9	1.7	0.27	-0.22	-7.36
2,204.0	0.50	168.20	2,203.7	-3.0	-2.0	3.0	0.72	-0.65	-23.70
2,300.0	0.70	203.70	2,299.7	-3.9	-2.2	3.9	0.43	0.21	36.98
2,395.0	0.80	233.80	2,394.7	-4.8	-2.9	4.8	0.42	0.11	31.68
2,490.0	0.70	224.80	2,489.7	-5.6	-3.9	5.6	0.16	-0.11	-9.47
2,585.0	0.50	312.20	2,584.7	-5.8	-4.6	5.8	0.89	-0.21	92.00
2,680.0	0.90	312.60	2,679.7	-5.0	-5.4	5.0	0.42	0.42	0.42
2,776.0	1.10	332.40	2,775.7	-3.7	-6.4	3.7	0.41	0.21	20.63
2,871.0	1.90	18.50	2,870.6	-1.4	-6.4	1.4	1.46	0.84	48.53
2,966.0	1.70	7.40	2,965.6	1.5	-5.7	-1.5	0.42	-0.21	-11.68
3,061.0	2.20	43.60	3,060.5	4.2	-4.2	-4.2	1.37	0.53	38.11
3,156.0	3.40	52.20	3,155.4	7.3	-0.7	-7.3	1.33	1.26	9.05
3,251.0	3.80	65.20	3,250.2	10.3	4.3	-10.3	0.95	0.42	13.68
3,346.0	3.70	64.70	3,345.0	13.0	10.0	-13.0	0.11	-0.11	-0.53
3,441.0	3.30	58.70	3,439.9	15.7	15.1	-15.7	0.57	-0.42	-6.32
3,536.0	2.90	68.40	3,534.7	18.0	19.6	-18.0	0.69	-0.42	10.21
3,631.0	3.20	50.60	3,629.6	20.6	23.9	-20.6	1.04	0.32	-18.74
3,726.0	3.30	72.10	3,724.4	23.1	28.6	-23.1	1.28	0.11	22.63
3,821.0	1.90	63.80	3,819.3	24.6	32.6	-24.6	1.52	-1.47	-8.74
3,916.0	2.00	68.60	3,914.3	25.9	35.5	-25.9	0.20	0.11	5.05
4,011.0	1.00	114.50	4,009.3	26.2	37.8	-26.2	1.57	-1.05	48.32
4,106.0	0.90	106.00	4,104.2	25.6	39.3	-25.6	0.18	-0.11	-8.95
4,201.0	1.00	134.00	4,199.2	24.9	40.6	-24.8	0.49	0.11	29.47
4,296.0	0.90	120.60	4,294.2	23.9	41.9	-23.9	0.26	-0.11	-14.11
4,391.0	0.90	112.00	4,389.2	23.2	43.2	-23.2	0.14	0.00	-9.05
4,486.0	1.00	105.30	4,484.2	22.7	44.7	-22.7	0.16	0.11	-7.05
4,582.0	1.00	69.50	4,580.2	22.8	46.3	-22.8	0.64	0.00	-37.29
4,677.0	0.60	57.10	4,675.2	23.4	47.5	-23.4	0.46	-0.42	-13.05
4,772.0	0.70	225.70	4,770.2	23.2	47.5	-23.2	1.36	0.11	177.47
4,867.0	0.70	199.20	4,865.2	22.3	46.9	-22.3	0.34	0.00	-27.89
4,962.0	0.70	208.00	4,960.2	21.2	46.4	-21.2	0.11	0.00	9.26
5,058.0	0.90	196.50	5,056.1	20.0	45.9	-20.0	0.27	0.21	-11.98
5,153.0	0.80	186.90	5,151.1	18.6	45.6	-18.6	0.18	-0.11	-10.11
5,248.0	0.60	169.80	5,246.1	17.5	45.6	-17.4	0.30	-0.21	-18.00
5,343.0	1.00	340.50	5,341.1	17.8	45.5	-17.7	1.68	0.42	179.68
5,438.0	1.10	338.90	5,436.1	19.4	44.8	-19.4	0.11	0.11	-1.68
5,534.0	1.10	326.80	5,532.1	21.0	44.0	-21.0	0.24	0.00	-12.60
5,629.0	1.10	316.90	5,627.1	22.5	42.9	-22.4	0.20	0.00	-10.42
5,724.0	0.40	182.50	5,722.1	22.8	42.3	-22.8	1.48	-0.74	-141.47
5,819.0	0.70	95.10	5,817.1	22.4	42.8	-22.4	0.83	0.32	-92.00

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<b>Well:</b>	Guttersen 6M-423	<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)
5,913.0	1.60	176.50	5,911.1	21.0	43.5	-21.0	1.75	0.96	86.60
5,946.0	1.40	173.00	5,944.0	20.2	43.5	-20.2	0.67	-0.61	-10.61
5,978.0	2.20	176.50	5,976.0	19.2	43.6	-19.2	2.52	2.50	10.94
6,010.0	3.70	184.90	6,008.0	17.5	43.6	-17.5	4.87	4.69	26.25
6,041.0	5.60	181.40	6,038.9	15.0	43.5	-15.0	6.19	6.13	-11.29
6,073.0	8.10	174.70	6,070.6	11.2	43.6	-11.2	8.19	7.81	-20.94
6,105.0	9.90	174.00	6,102.3	6.2	44.1	-6.2	5.64	5.63	-2.19
6,137.0	11.80	174.40	6,133.7	0.3	44.7	-0.2	5.94	5.94	1.25
6,168.0	13.60	175.30	6,163.9	-6.5	45.3	6.6	5.84	5.81	2.90
6,200.0	14.90	177.20	6,194.9	-14.4	45.8	14.4	4.32	4.06	5.94
6,232.0	17.10	178.80	6,225.7	-23.2	46.1	23.2	7.01	6.88	5.00
6,264.0	19.70	180.00	6,256.1	-33.3	46.2	33.3	8.21	8.13	3.75
6,295.0	21.50	181.40	6,285.1	-44.2	46.1	44.2	6.02	5.81	4.52
6,327.0	23.00	182.80	6,314.7	-56.3	45.7	56.3	4.97	4.69	4.38
6,359.0	25.10	183.00	6,343.9	-69.3	45.0	69.4	6.57	6.56	0.63
6,391.0	27.30	182.70	6,372.6	-83.5	44.3	83.5	6.89	6.88	-0.94
6,422.0	29.00	181.40	6,400.0	-98.1	43.8	98.1	5.83	5.48	-4.19
6,454.0	30.40	181.10	6,427.7	-113.9	43.4	113.9	4.40	4.38	-0.94
6,486.0	31.80	181.80	6,455.1	-130.4	43.0	130.5	4.52	4.38	2.19
6,518.0	33.90	181.60	6,482.0	-147.8	42.5	147.8	6.57	6.56	-0.63
6,549.0	37.00	180.20	6,507.3	-165.8	42.2	165.8	10.34	10.00	-4.52
6,581.0	38.60	179.50	6,532.6	-185.4	42.3	185.4	5.18	5.00	-2.19
6,613.0	39.80	178.10	6,557.4	-205.6	42.7	205.6	4.66	3.75	-4.38
6,645.0	41.90	177.40	6,581.6	-226.5	43.5	226.5	6.72	6.56	-2.19
6,676.0	44.60	176.70	6,604.1	-247.7	44.6	247.7	8.85	8.71	-2.26
6,708.0	47.80	176.20	6,626.3	-270.8	46.1	270.8	10.06	10.00	-1.56
6,740.0	50.60	176.70	6,647.2	-294.9	47.6	295.0	8.83	8.75	1.56
6,772.0	52.10	178.30	6,667.2	-319.9	48.6	319.9	6.10	4.69	5.00
6,803.0	54.50	179.50	6,685.7	-344.8	49.1	344.8	8.34	7.74	3.87
6,835.0	57.40	180.40	6,703.6	-371.3	49.1	371.3	9.36	9.06	2.81
6,867.0	60.00	181.10	6,720.2	-398.6	48.8	398.6	8.34	8.13	2.19
6,898.0	62.30	181.80	6,735.2	-425.7	48.1	425.8	7.68	7.42	2.26
6,930.0	64.90	182.00	6,749.4	-454.4	47.1	454.4	8.14	8.13	0.63
6,962.0	68.10	181.20	6,762.2	-483.7	46.3	483.7	10.26	10.00	-2.50
6,994.0	71.60	180.70	6,773.2	-513.8	45.8	513.8	11.04	10.94	-1.56
7,026.0	75.20	180.00	6,782.4	-544.4	45.6	544.4	11.44	11.25	-2.19
7,057.0	78.90	180.20	6,789.3	-574.6	45.6	574.6	11.95	11.94	0.65
7,089.0	82.40	180.50	6,794.5	-606.2	45.4	606.2	10.98	10.94	0.94
7,121.0	84.90	181.20	6,798.0	-638.0	44.9	638.0	8.11	7.81	2.19
7,145.0	87.00	181.20	6,799.7	-661.9	44.4	661.9	8.75	8.75	0.00
7,186.0	89.88	181.20	6,800.8	-702.9	43.6	702.9	7.02	7.02	0.00
7"									
7,192.0	90.30	181.20	6,800.8	-708.9	43.4	708.9	7.02	7.02	0.00
7,282.0	89.30	178.10	6,801.2	-798.9	44.0	798.9	3.62	-1.11	-3.44
7,373.0	91.30	176.50	6,800.7	-889.8	48.3	889.8	2.81	2.20	-1.76
7,464.0	89.30	176.70	6,800.2	-980.6	53.7	980.6	2.21	-2.20	0.22
7,555.0	88.60	180.20	6,801.9	-1,071.5	56.1	1,071.6	3.92	-0.77	3.85
7,646.0	89.30	179.80	6,803.5	-1,162.5	56.1	1,162.6	0.89	0.77	-0.44
7,737.0	89.00	181.20	6,804.9	-1,253.5	55.3	1,253.5	1.57	-0.33	1.54
7,827.0	90.40	181.60	6,805.4	-1,343.5	53.1	1,343.5	1.62	1.56	0.44
7,919.0	89.00	181.60	6,805.8	-1,435.4	50.6	1,435.5	1.52	-1.52	0.00
8,012.0	89.60	182.00	6,807.0	-1,528.4	47.6	1,528.4	0.78	0.65	0.43
8,107.0	89.20	181.20	6,808.0	-1,623.3	45.0	1,623.4	0.94	-0.42	-0.84

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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)
8,203.0	92.10	181.20	6,806.9	-1,719.3	43.0	1,719.3	3.02	3.02	0.00
8,298.0	88.50	180.40	6,806.4	-1,814.3	41.7	1,814.3	3.88	-3.79	-0.84
8,393.0	88.00	179.30	6,809.3	-1,909.2	41.9	1,909.3	1.27	-0.53	-1.16
8,488.0	90.00	179.70	6,810.9	-2,004.2	42.7	2,004.2	2.15	2.11	0.42
8,584.0	90.40	181.20	6,810.6	-2,100.2	42.0	2,100.2	1.62	0.42	1.56
8,679.0	90.90	180.90	6,809.5	-2,195.2	40.2	2,195.2	0.61	0.53	-0.32
8,774.0	90.10	180.40	6,808.7	-2,290.2	39.2	2,290.2	0.99	-0.84	-0.53
8,869.0	87.20	177.90	6,810.9	-2,385.1	40.6	2,385.1	4.03	-3.05	-2.63
8,964.0	89.00	179.50	6,814.1	-2,480.0	42.7	2,480.1	2.53	1.89	1.68
9,059.0	88.30	181.40	6,816.3	-2,575.0	42.0	2,575.0	2.13	-0.74	2.00
9,154.0	89.30	182.70	6,818.3	-2,669.9	38.6	2,669.9	1.73	1.05	1.37
9,249.0	91.60	181.80	6,817.6	-2,764.8	34.8	2,764.8	2.60	2.42	-0.95
9,344.0	90.50	180.90	6,815.8	-2,859.8	32.6	2,859.8	1.50	-1.16	-0.95
9,439.0	89.40	180.50	6,815.9	-2,954.8	31.4	2,954.8	1.23	-1.16	-0.42
9,534.0	88.80	181.10	6,817.4	-3,049.7	30.1	3,049.8	0.89	-0.63	0.63
9,629.0	88.60	181.40	6,819.6	-3,144.7	28.1	3,144.7	0.38	-0.21	0.32
9,724.0	90.10	181.20	6,820.6	-3,239.7	25.9	3,239.7	1.59	1.58	-0.21
9,818.0	90.00	179.80	6,820.6	-3,333.7	25.1	3,333.7	1.49	-0.11	-1.49
9,914.0	89.70	180.40	6,820.8	-3,429.7	24.9	3,429.7	0.70	-0.31	0.63
10,009.0	89.00	180.50	6,821.9	-3,524.7	24.2	3,524.7	0.74	-0.74	0.11
10,104.0	88.90	180.00	6,823.6	-3,619.6	23.7	3,619.6	0.54	-0.11	-0.53
10,199.0	87.20	179.70	6,826.9	-3,714.6	24.0	3,714.6	1.82	-1.79	-0.32
10,294.0	88.50	179.80	6,830.4	-3,809.5	24.4	3,809.5	1.37	1.37	0.11
10,390.0	90.40	180.70	6,831.3	-3,905.5	24.0	3,905.5	2.19	1.98	0.94
10,485.0	89.40	181.20	6,831.5	-4,000.5	22.4	4,000.5	1.18	-1.05	0.53
10,580.0	89.50	180.50	6,832.4	-4,095.5	21.0	4,095.5	0.74	0.11	-0.74
10,675.0	89.30	179.80	6,833.4	-4,190.5	20.8	4,190.5	0.77	-0.21	-0.74
10,770.0	89.30	180.00	6,834.6	-4,285.5	20.9	4,285.5	0.21	0.00	0.21
10,865.0	89.90	179.10	6,835.2	-4,380.4	21.7	4,380.5	1.14	0.63	-0.95
10,961.0	90.20	178.30	6,835.2	-4,476.4	23.8	4,476.4	0.89	0.31	-0.83
11,056.0	90.00	179.70	6,835.0	-4,571.4	25.5	4,571.4	1.49	-0.21	1.47
11,140.0	90.70	180.50	6,834.5	-4,655.4	25.4	4,655.4	1.27	0.83	0.95
11,193.0	91.00	180.50	6,833.7	-4,708.4	24.9	4,708.4	0.57	0.57	0.00
BHL 500'FSL, 2122'FEL									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,186.0	6,800.8	7"	7	7-1/2

Checked By: _____	Approved By: _____	Date: _____
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