



# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Stelling 3B-4H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4930.0ft (Ensign 135)
<b>Site:</b>	SESW S4-T1N-R65W (Stelling)	<b>MD Reference:</b>	KB=13' @ 4930.0ft (Ensign 135)
<b>Well:</b>	Stelling 3B-4H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL	<b>Database:</b>	USA EDM 5000 Multi Users DB

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		SESW S4-T1N-R65W (Stelling)			
Site Position:		Northing:	1,271,326.71 ft	Latitude:	40.075200
From:	Lat/Long	Easting:	3,231,932.75 ft	Longitude:	-104.671220
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.54 °

Well	Stelling 3B-4H					
Well Position	+N/-S	0.0 ft	Northing:	1,271,326.95 ft	Latitude:	40.075200
	+E/-W	0.0 ft	Easting:	3,231,960.74 ft	Longitude:	-104.671120
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,917.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	6/18/2012	8.65	66.77	52,863

<b>Design</b>	FINAL				
<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	4.90	

<b>Survey Program</b>	<b>Date</b>	7/8/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
140.0	11,761.0	Survey #1 (Hz)	MWD	Geolink MWD	

<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>Formations / Comments</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
140.0	0.80	105.00	140.0	-0.3	0.9	-0.2	0.57	0.57	
232.0	2.80	128.50	231.9	-1.8	3.3	-1.5	2.27	2.17	
324.0	3.50	140.30	323.8	-5.4	6.9	-4.8	1.03	0.76	
416.0	5.10	147.60	415.5	-11.0	10.9	-10.0	1.83	1.74	
508.0	7.20	154.00	507.0	-19.6	15.6	-18.2	2.40	2.28	
600.0	6.90	154.60	598.3	-29.8	20.5	-27.9	0.34	-0.33	
692.0	7.60	153.50	689.6	-40.2	25.6	-37.9	0.78	0.76	
782.0	7.60	153.60	778.8	-50.9	30.9	-48.1	0.01	0.00	
876.0	7.70	154.40	872.0	-62.1	36.3	-58.8	0.16	0.11	
966.0	8.00	154.20	961.1	-73.2	41.7	-69.4	0.33	0.33	
1,059.0	9.50	158.10	1,053.0	-86.2	47.4	-81.8	1.73	1.61	
1,090.0	9.20	157.50	1,083.6	-90.8	49.3	-86.3	1.02	-0.97	

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<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL	<b>Database:</b>	USA EDM 5000 Multi Users DB

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,182.0	8.50	155.60	1,174.5	-103.8	54.9	-98.7	0.82	-0.76	
1,274.0	8.30	153.60	1,265.5	-116.0	60.6	-110.3	0.38	-0.22	
1,366.0	7.90	153.10	1,356.6	-127.5	66.5	-121.4	0.44	-0.43	
1,458.0	7.60	152.40	1,447.8	-138.6	72.1	-131.9	0.34	-0.33	
1,553.0	6.90	152.40	1,542.0	-149.2	77.7	-142.0	0.74	-0.74	
1,648.0	7.30	149.80	1,636.3	-159.5	83.4	-151.8	0.54	0.42	
1,743.0	8.00	149.80	1,730.4	-170.4	89.7	-162.1	0.74	0.74	
1,837.0	7.90	148.50	1,823.5	-181.6	96.4	-172.7	0.22	-0.11	
1,932.0	7.90	149.90	1,917.6	-192.8	103.1	-183.3	0.20	0.00	
2,027.0	7.50	150.20	2,011.8	-203.8	109.4	-193.7	0.42	-0.42	
2,121.0	7.50	155.90	2,105.0	-214.7	115.0	-204.1	0.79	0.00	
2,216.0	6.60	153.80	2,199.3	-225.3	119.9	-214.2	0.99	-0.95	
2,311.0	6.30	140.20	2,293.7	-234.2	125.7	-222.6	1.63	-0.32	
2,406.0	6.30	129.60	2,388.1	-241.5	133.0	-229.3	1.22	0.00	
2,469.0	6.60	136.60	2,450.7	-246.4	138.2	-233.6	1.33	0.48	
2,532.0	6.70	142.20	2,513.3	-251.9	142.9	-238.7	1.04	0.16	
2,595.0	6.60	145.10	2,575.8	-257.8	147.3	-244.2	0.56	-0.16	
2,658.0	6.50	153.80	2,638.4	-263.9	150.9	-250.1	1.58	-0.16	
2,722.0	6.50	148.30	2,702.0	-270.3	154.4	-256.1	0.97	0.00	
2,785.0	7.00	149.90	2,764.6	-276.6	158.2	-262.1	0.85	0.79	
2,879.0	7.70	147.30	2,857.8	-286.9	164.5	-271.8	0.82	0.74	
2,974.0	8.00	151.50	2,951.9	-298.0	171.1	-282.3	0.68	0.32	
3,069.0	7.80	149.40	3,046.0	-309.4	177.5	-293.1	0.37	-0.21	
3,164.0	7.40	150.90	3,140.2	-320.3	183.8	-303.4	0.47	-0.42	
3,259.0	7.00	152.10	3,234.4	-330.8	189.4	-313.3	0.45	-0.42	
3,354.0	6.90	143.90	3,328.7	-340.5	195.5	-322.5	1.05	-0.11	
3,448.0	7.30	148.30	3,422.0	-350.1	202.0	-331.6	0.72	0.43	
3,543.0	7.70	151.30	3,516.2	-360.8	208.2	-341.7	0.59	0.42	
3,638.0	7.30	151.20	3,610.4	-371.7	214.2	-352.0	0.42	-0.42	
3,733.0	6.50	147.30	3,704.7	-381.5	220.0	-361.3	0.98	-0.84	
3,828.0	6.50	140.90	3,799.1	-390.2	226.3	-369.5	0.76	0.00	
3,922.0	6.80	151.80	3,892.5	-399.3	232.3	-377.9	1.38	0.32	
4,017.0	7.60	156.30	3,986.7	-410.0	237.5	-388.2	1.03	0.84	
4,112.0	7.60	158.10	4,080.9	-421.5	242.3	-399.3	0.25	0.00	
4,207.0	8.70	154.30	4,174.9	-433.9	247.8	-411.1	1.29	1.16	
4,302.0	7.50	154.30	4,269.0	-445.9	253.6	-422.6	1.26	-1.26	
4,397.0	6.80	156.30	4,363.2	-456.6	258.5	-432.9	0.78	-0.74	
4,492.0	7.60	154.30	4,457.5	-467.5	263.5	-443.2	0.88	0.84	
4,587.0	7.70	155.00	4,551.6	-478.9	268.9	-454.1	0.14	0.11	
4,682.0	7.80	154.00	4,645.8	-490.4	274.4	-465.2	0.18	0.11	
4,776.0	8.70	154.00	4,738.8	-502.6	280.4	-476.8	0.96	0.96	
4,871.0	8.10	151.80	4,832.8	-514.9	286.7	-488.5	0.72	-0.63	
4,966.0	6.40	147.40	4,927.0	-525.3	292.7	-498.3	1.88	-1.79	
5,061.0	7.20	146.50	5,021.4	-534.7	298.8	-507.2	0.85	0.84	
5,155.0	6.70	148.10	5,114.7	-544.3	305.0	-516.2	0.57	-0.53	
5,250.0	7.10	149.50	5,209.0	-554.0	310.9	-525.4	0.46	0.42	
5,345.0	7.90	150.10	5,303.2	-564.8	317.1	-535.6	0.85	0.84	
5,439.0	6.80	145.20	5,396.4	-574.9	323.5	-545.2	1.35	-1.17	
5,534.0	6.30	154.80	5,490.8	-584.3	328.9	-554.0	1.27	-0.53	
5,629.0	6.90	151.80	5,585.1	-594.0	333.9	-563.3	0.73	0.63	
5,723.0	7.80	148.70	5,678.4	-604.4	339.8	-573.2	1.05	0.96	
5,818.0	6.80	151.40	5,772.6	-614.9	345.9	-583.1	1.11	-1.05	
5,913.0	3.60	160.20	5,867.2	-622.6	349.6	-590.5	3.46	-3.37	

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<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL	<b>Database:</b>	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,008.0	3.40	170.30	5,962.0	-628.2	351.1	-595.9	0.68	-0.21	
6,103.0	1.50	171.70	6,056.9	-632.2	351.7	-599.8	2.00	-2.00	
6,198.0	0.20	224.20	6,151.9	-633.6	351.8	-601.2	1.46	-1.37	
6,293.0	0.40	240.10	6,246.9	-633.9	351.4	-601.5	0.23	0.21	
6,356.0	0.80	312.60	6,309.9	-633.7	350.9	-601.4	1.24	0.63	
6,388.0	2.10	347.80	6,341.9	-632.9	350.6	-600.7	4.74	4.06	
6,419.0	3.70	356.60	6,372.9	-631.4	350.4	-599.1	5.34	5.16	
6,451.0	5.10	4.50	6,404.8	-628.9	350.5	-596.7	4.76	4.37	
6,482.0	6.90	8.20	6,435.6	-625.7	350.8	-593.4	5.94	5.81	
6,514.0	8.30	7.90	6,467.3	-621.5	351.4	-589.2	4.38	4.37	
6,546.0	9.20	6.00	6,498.9	-616.7	352.0	-584.4	2.95	2.81	
6,577.0	10.20	4.20	6,529.5	-611.5	352.5	-579.1	3.37	3.23	
6,609.0	11.90	3.80	6,560.9	-605.4	352.9	-573.0	5.32	5.31	
6,641.0	11.60	2.50	6,592.2	-598.9	353.3	-566.5	1.25	-0.94	
6,672.0	12.40	1.00	6,622.6	-592.4	353.4	-560.1	2.77	2.58	
6,704.0	14.10	2.20	6,653.7	-585.1	353.7	-552.7	5.38	5.31	
6,735.0	14.90	2.50	6,683.7	-577.3	354.0	-545.0	2.59	2.58	
6,767.0	16.40	1.80	6,714.5	-568.7	354.3	-536.4	4.72	4.69	
6,799.0	17.50	1.00	6,745.1	-559.4	354.5	-527.0	3.51	3.44	
6,830.0	20.20	0.90	6,774.5	-549.4	354.7	-517.1	8.71	8.71	
6,862.0	24.10	1.20	6,804.1	-537.3	354.9	-505.0	12.19	12.19	
6,893.0	28.20	2.00	6,831.9	-523.7	355.3	-491.4	13.27	13.23	
6,925.0	31.90	1.60	6,859.6	-507.7	355.8	-475.4	11.58	11.56	
6,957.0	36.80	0.70	6,886.0	-489.6	356.2	-457.4	15.39	15.31	
6,988.0	42.10	0.40	6,910.0	-469.9	356.3	-437.7	17.11	17.10	
7,020.0	47.60	0.30	6,932.6	-447.4	356.5	-415.3	17.19	17.19	
7,051.0	53.30	359.90	6,952.4	-423.5	356.5	-391.4	18.41	18.39	
7,083.0	59.40	359.30	6,970.1	-396.8	356.3	-364.9	19.13	19.06	
7,115.0	64.70	359.00	6,985.1	-368.6	355.9	-336.8	16.58	16.56	
7,146.0	67.80	358.70	6,997.6	-340.2	355.3	-308.6	10.04	10.00	
7,178.0	72.50	359.00	7,008.4	-310.1	354.7	-278.7	14.71	14.69	
7,209.0	77.50	359.10	7,016.4	-280.2	354.2	-248.9	16.13	16.13	
7,233.0	81.20	358.60	7,020.9	-256.6	353.8	-225.5	15.55	15.42	
7,270.0	84.60	357.80	7,025.5	-219.9	352.6	-189.0	9.44	9.19	
7,324.0	88.70	357.50	7,028.6	-166.1	350.4	-135.5	7.61	7.59	
7,387.0	89.60	358.40	7,029.5	-103.1	348.1	-73.0	2.02	1.43	
7,450.0	89.90	358.10	7,029.8	-40.2	346.2	-10.4	0.67	0.48	
7,513.0	90.50	359.20	7,029.6	22.8	344.7	52.2	1.99	0.95	
7,576.0	91.00	0.40	7,028.8	85.8	344.5	114.9	2.06	0.79	
7,639.0	90.70	0.80	7,027.8	148.8	345.2	177.8	0.79	-0.48	
7,703.0	90.30	359.90	7,027.3	212.8	345.6	241.6	1.54	-0.62	
7,766.0	89.80	359.90	7,027.2	275.8	345.5	304.3	0.79	-0.79	
7,829.0	89.50	0.20	7,027.6	338.8	345.5	367.1	0.67	-0.48	
7,892.0	89.80	359.90	7,028.0	401.8	345.6	429.9	0.67	0.48	
7,955.0	89.70	0.50	7,028.3	464.8	345.8	492.6	0.97	-0.16	
8,019.0	89.80	0.40	7,028.6	528.8	346.3	556.4	0.22	0.16	
8,082.0	89.50	0.00	7,028.9	591.8	346.5	619.2	0.79	-0.48	
8,151.0	89.50	0.40	7,029.5	660.8	346.7	688.0	0.58	0.00	
8,214.0	89.10	0.70	7,030.3	723.8	347.4	750.8	0.79	-0.63	
8,278.0	88.50	0.70	7,031.6	787.8	348.1	814.6	0.94	-0.94	
8,341.0	88.40	1.00	7,033.4	850.7	349.1	877.4	0.50	-0.16	
8,404.0	87.70	1.20	7,035.5	913.7	350.3	940.3	1.16	-1.11	
8,467.0	88.00	0.90	7,037.9	976.6	351.4	1,003.1	0.67	0.48	

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8,530.0	89.20	1.70	7,039.4	1,039.6	352.9	1,065.9	2.29	1.90	
8,594.0	89.60	2.10	7,040.1	1,103.5	355.0	1,129.8	0.88	0.62	
8,657.0	89.80	1.90	7,040.4	1,166.5	357.2	1,192.8	0.45	0.32	
8,720.0	90.30	1.70	7,040.3	1,229.5	359.2	1,255.7	0.85	0.79	
8,783.0	90.80	1.40	7,039.7	1,292.4	360.9	1,318.6	0.93	0.79	
8,846.0	90.00	1.40	7,039.3	1,355.4	362.4	1,381.4	1.27	-1.27	
8,910.0	90.40	1.10	7,039.1	1,419.4	363.8	1,445.3	0.78	0.62	
8,973.0	89.80	0.70	7,039.0	1,482.4	364.8	1,508.2	1.14	-0.95	
9,036.0	90.10	0.60	7,039.0	1,545.4	365.5	1,571.0	0.50	0.48	
9,099.0	90.20	0.50	7,038.9	1,608.4	366.1	1,633.8	0.22	0.16	
9,163.0	90.30	0.00	7,038.6	1,672.4	366.4	1,697.6	0.80	0.16	
9,226.0	90.60	0.20	7,038.1	1,735.4	366.5	1,760.4	0.57	0.48	
9,289.0	89.70	0.00	7,037.9	1,798.4	366.6	1,823.1	1.46	-1.43	
9,352.0	89.80	359.60	7,038.2	1,861.4	366.4	1,885.9	0.65	0.16	
9,416.0	90.20	359.50	7,038.2	1,925.4	365.9	1,949.6	0.64	0.62	
9,479.0	89.50	358.50	7,038.4	1,988.4	364.8	2,012.3	1.94	-1.11	
9,543.0	89.80	358.00	7,038.7	2,052.3	362.8	2,075.8	0.91	0.47	
9,606.0	89.90	358.50	7,038.9	2,115.3	360.9	2,138.4	0.81	0.16	
9,669.0	89.90	358.50	7,039.0	2,178.3	359.3	2,201.0	0.00	0.00	
9,732.0	90.20	358.00	7,039.0	2,241.3	357.3	2,263.6	0.93	0.48	
9,795.0	89.50	358.20	7,039.1	2,304.2	355.2	2,326.2	1.16	-1.11	
9,859.0	89.80	357.60	7,039.5	2,368.2	352.9	2,389.7	1.05	0.47	
9,922.0	89.80	358.00	7,039.7	2,431.1	350.5	2,452.2	0.63	0.00	
9,985.0	90.20	358.90	7,039.7	2,494.1	348.8	2,514.8	1.56	0.63	
10,048.0	90.20	359.80	7,039.5	2,557.1	348.1	2,577.5	1.43	0.00	
10,111.0	89.80	0.40	7,039.5	2,620.1	348.2	2,640.3	1.14	-0.63	
10,174.0	89.80	359.40	7,039.7	2,683.1	348.1	2,703.0	1.59	0.00	
10,237.0	90.20	359.20	7,039.7	2,746.1	347.3	2,765.7	0.71	0.63	
10,301.0	90.30	0.10	7,039.5	2,810.1	346.9	2,829.5	1.41	0.16	
10,364.0	90.70	0.90	7,038.9	2,873.1	347.5	2,892.3	1.42	0.63	
10,427.0	89.90	0.90	7,038.6	2,936.1	348.4	2,955.1	1.27	-1.27	
10,490.0	90.20	0.70	7,038.5	2,999.1	349.3	3,018.0	0.57	0.48	
10,553.0	90.40	0.60	7,038.2	3,062.1	350.0	3,080.8	0.35	0.32	
10,616.0	89.90	0.40	7,038.0	3,125.1	350.6	3,143.6	0.85	-0.79	
10,679.0	90.00	0.50	7,038.1	3,188.1	351.1	3,206.4	0.22	0.16	
10,742.0	89.80	1.10	7,038.2	3,251.1	352.0	3,269.2	1.00	-0.32	
10,805.0	89.70	0.90	7,038.5	3,314.1	353.1	3,332.1	0.35	-0.16	
10,868.0	89.80	0.60	7,038.8	3,377.0	353.9	3,394.9	0.50	0.16	
10,931.0	90.10	0.40	7,038.8	3,440.0	354.4	3,457.7	0.57	0.48	
10,995.0	90.20	0.40	7,038.6	3,504.0	354.9	3,521.6	0.16	0.16	
11,057.0	90.50	0.00	7,038.3	3,566.0	355.1	3,583.3	0.81	0.48	
11,120.0	90.00	359.70	7,038.0	3,629.0	354.9	3,646.1	0.93	-0.79	
11,184.0	89.30	359.20	7,038.4	3,693.0	354.3	3,709.8	1.34	-1.09	
11,247.0	89.30	359.20	7,039.1	3,756.0	353.4	3,772.5	0.00	0.00	
11,310.0	89.20	358.60	7,040.0	3,819.0	352.2	3,835.1	0.97	-0.16	
11,373.0	89.30	358.90	7,040.8	3,882.0	350.9	3,897.8	0.50	0.16	
11,436.0	89.30	358.60	7,041.6	3,945.0	349.5	3,960.4	0.48	0.00	
11,499.0	89.50	358.40	7,042.2	4,007.9	347.8	4,023.0	0.45	0.32	
11,563.0	89.40	358.50	7,042.8	4,071.9	346.1	4,086.6	0.22	-0.16	
11,626.0	89.20	358.50	7,043.6	4,134.9	344.4	4,149.2	0.32	-0.32	
11,689.0	89.20	357.80	7,044.5	4,197.8	342.4	4,211.8	1.11	0.00	
11,708.0	89.10	357.80	7,044.8	4,216.8	341.7	4,230.6	0.53	-0.53	
11,761.0	89.10	357.80	7,045.6	4,269.8	339.7	4,283.2	0.00	0.00	

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Stelling 3B-4H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 4930.0ft (Ensign 135)
<b>Site:</b>	SESW S4-T1N-R65W (Stelling)	<b>MD Reference:</b>	KB=13' @ 4930.0ft (Ensign 135)
<b>Well:</b>	Stelling 3B-4H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL	<b>Database:</b>	USA EDM 5000 Multi Users DB

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
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### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Stelling 3B-4H PBHL (6.0' MD) - survey misses target center by 17.6ft at 11632.4ft MD (7043.7 TVD, 4141.3 N, 344.3 E) - Point	0.00	0.00	7,030.0	4,141.9	355.3	1,275,471.95	3,232,277.35	40.086570	-104.669850
Interp @ 7008.0 (Stelling 3B-4H) - survey misses target center by 18.8ft at 7260.1ft MD (7024.4 TVD, -229.8 N, 353.0 E) - Point	0.00	0.00	7,008.0	-227.5	361.8	1,271,102.87	3,232,324.62	40.074575	-104.669827

### Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,708.0	7,044.8	4,216.8	341.7	Last Cathedral Survey @ 11708' MD
11,761.0	7,045.6	4,269.8	339.7	Projection to Bit @ 11761' MD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_