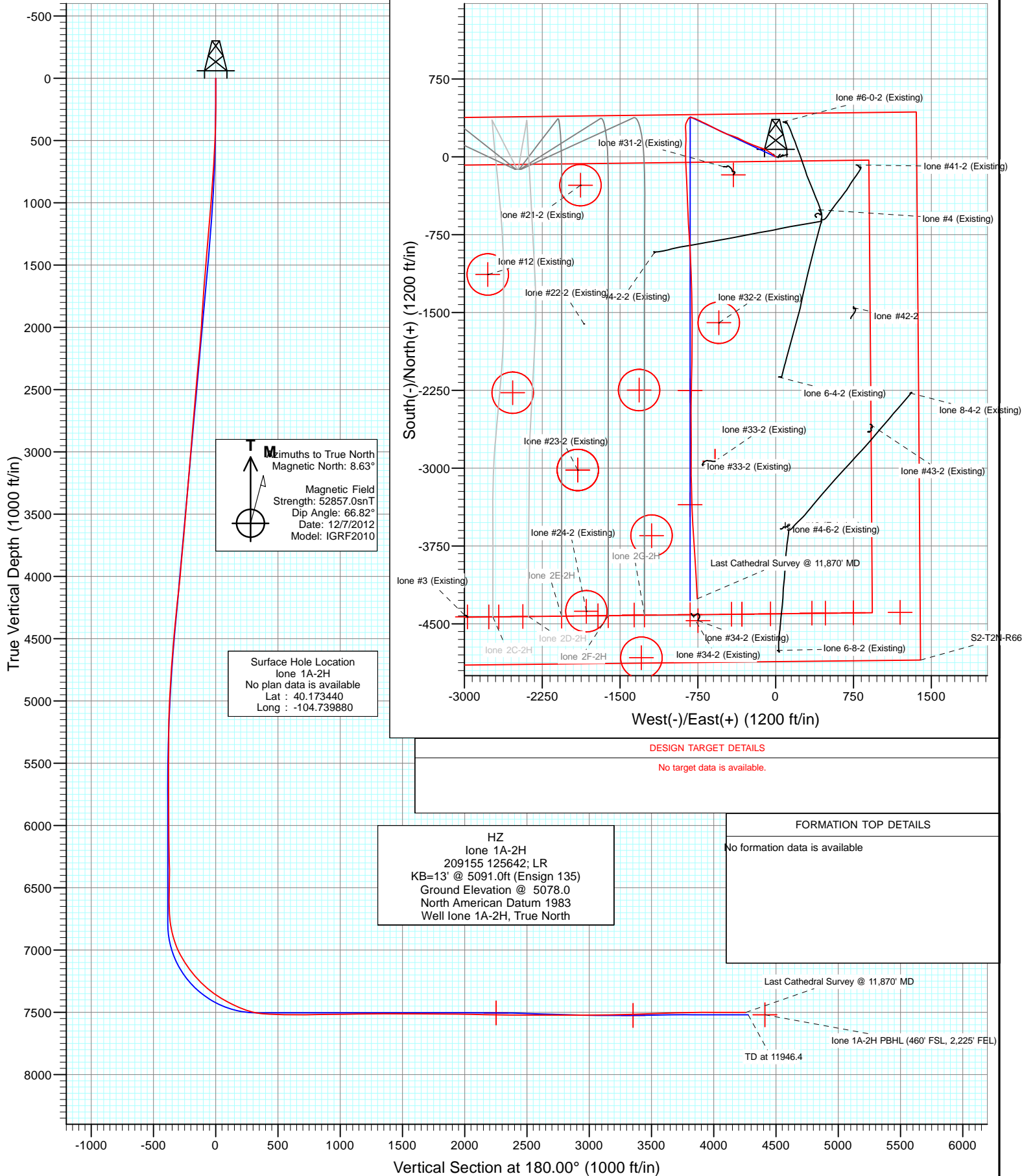




Project: DJ Wattenberg  
Site: NWN S2-T2N-R66W (lone)  
Well: lone 1A-2H  
Wellbore: HZ  
Design: HZ



# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well lone 1A-2H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Site:</b>	NWNE S2-T2N-R66W (lone)	<b>MD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Well:</b>	lone 1A-2H	<b>North Reference:</b>	True
<b>Wellbore:</b>	HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	HZ	<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		NWNE S2-T2N-R66W (lone)			
Site Position:		Northing:	1,306,798.50 ft	Latitude:	40.173110
From:	Lat/Long	Easting:	3,209,901.52 ft	Longitude:	-104.748870
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.49 °

Well	lone 1A-2H					
Well Position	+N/-S	0.0 ft	Northing:	1,306,940.10 ft	Latitude:	40.173440
	+E/-W	0.0 ft	Easting:	3,212,412.59 ft	Longitude:	-104.739880
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,078.0 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	12/7/2012	8.63	66.82	52,857

<b>Design</b>	HZ				
<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 (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	180.00	

<b>Survey Program</b>	<b>Date</b>	12/20/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
169.0	11,870.0	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		
169.0	0.30	223.00	169.0	-0.3	-0.3	0.3	0.18	0.18		
260.0	0.70	321.20	260.0	-0.1	-0.8	0.1	0.88	0.44		
352.0	1.60	297.80	352.0	1.0	-2.3	-1.0	1.08	0.98		
445.0	2.80	307.20	444.9	3.0	-5.3	-3.0	1.34	1.29		
537.0	3.70	315.00	536.8	6.4	-9.1	-6.4	1.09	0.98		
629.0	4.60	311.10	628.5	10.9	-14.0	-10.9	1.02	0.98		
721.0	5.90	309.80	720.1	16.4	-20.4	-16.4	1.42	1.41		
813.0	6.80	311.10	811.6	23.0	-28.2	-23.0	0.99	0.98		
905.0	7.40	307.20	902.9	30.2	-37.0	-30.2	0.84	0.65		
1,015.0	8.20	302.70	1,011.8	38.7	-49.2	-38.7	0.91	0.73		
1,098.0	8.10	302.30	1,094.0	45.0	-59.2	-45.0	0.14	-0.12		
1,190.0	9.50	303.30	1,184.9	52.6	-71.0	-52.6	1.53	1.52		

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well lone 1A-2H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Site:</b>	NWNE S2-T2N-R66W (lone)	<b>MD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Well:</b>	lone 1A-2H	<b>North Reference:</b>	True
<b>Wellbore:</b>	HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	HZ	<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
1,282.0	9.50	302.70	1,275.7	60.9	-83.7	-60.9	0.11	0.00	
1,374.0	10.40	294.80	1,366.3	68.5	-97.7	-68.5	1.77	0.98	
1,466.0	11.50	292.80	1,456.6	75.5	-113.6	-75.5	1.26	1.20	
1,558.0	12.40	289.90	1,546.6	82.4	-131.4	-82.4	1.18	0.98	
1,650.0	12.20	287.80	1,636.5	88.8	-149.9	-88.8	0.53	-0.22	
1,742.0	12.50	292.00	1,726.4	95.5	-168.4	-95.5	1.03	0.33	
1,834.0	11.60	290.40	1,816.3	102.4	-186.3	-102.4	1.04	-0.98	
1,926.0	11.30	289.00	1,906.5	108.6	-203.5	-108.6	0.44	-0.33	
2,021.0	11.60	286.90	1,999.6	114.4	-221.5	-114.4	0.54	0.32	
2,116.0	11.60	294.00	2,092.7	121.1	-239.3	-121.1	1.50	0.00	
2,211.0	12.10	295.40	2,185.7	129.2	-257.0	-129.2	0.61	0.53	
2,306.0	12.40	296.20	2,278.5	138.0	-275.2	-138.0	0.36	0.32	
2,400.0	11.30	294.40	2,370.5	146.2	-292.6	-146.2	1.23	-1.17	
2,495.0	11.20	295.20	2,463.7	154.0	-309.5	-154.0	0.20	-0.11	
2,590.0	11.20	297.60	2,556.9	162.2	-326.0	-162.2	0.49	0.00	
2,685.0	11.30	294.80	2,650.0	170.4	-342.6	-170.4	0.58	0.11	
2,780.0	11.60	297.70	2,743.1	178.7	-359.5	-178.7	0.68	0.32	
2,874.0	12.40	291.20	2,835.1	186.8	-377.3	-186.8	1.67	0.85	
2,969.0	12.50	288.30	2,927.9	193.7	-396.6	-193.7	0.67	0.11	
3,064.0	14.60	289.10	3,020.2	200.9	-417.6	-200.9	2.22	2.21	
3,158.0	14.40	290.20	3,111.2	208.8	-439.8	-208.8	0.36	-0.21	
3,253.0	13.70	288.40	3,203.4	216.4	-461.6	-216.4	0.87	-0.74	
3,348.0	12.20	288.00	3,296.0	223.0	-481.8	-223.0	1.58	-1.58	
3,443.0	11.80	297.60	3,388.9	230.7	-499.9	-230.7	2.14	-0.42	
3,538.0	11.50	299.40	3,481.9	239.8	-516.8	-239.8	0.50	-0.32	
3,632.0	11.40	295.30	3,574.1	248.4	-533.4	-248.4	0.87	-0.11	
3,727.0	11.60	296.20	3,667.2	256.6	-550.4	-256.6	0.28	0.21	
3,822.0	11.30	293.30	3,760.3	264.5	-567.5	-264.5	0.68	-0.32	
3,917.0	11.20	297.60	3,853.4	272.5	-584.3	-272.5	0.89	-0.11	
4,012.0	11.30	295.00	3,946.6	280.7	-600.9	-280.7	0.54	0.11	
4,107.0	12.70	299.90	4,039.5	289.8	-618.4	-289.8	1.82	1.47	
4,201.0	11.10	299.70	4,131.5	299.4	-635.2	-299.4	1.70	-1.70	
4,296.0	13.70	299.10	4,224.3	309.4	-653.0	-309.4	2.74	2.74	
4,391.0	14.10	293.20	4,316.5	319.5	-673.4	-319.5	1.55	0.42	
4,486.0	11.30	293.30	4,409.2	327.7	-692.6	-327.7	2.95	-2.95	
4,581.0	10.10	298.10	4,502.5	335.3	-708.5	-335.3	1.57	-1.26	
4,676.0	11.20	296.60	4,595.9	343.4	-724.1	-343.4	1.19	1.16	
4,770.0	9.20	294.10	4,688.4	350.5	-739.1	-350.5	2.18	-2.13	
4,865.0	10.00	295.10	4,782.1	357.1	-753.5	-357.1	0.86	0.84	
4,960.0	9.10	293.60	4,875.8	363.6	-767.9	-363.6	0.98	-0.95	
5,055.0	7.40	292.80	4,969.8	369.0	-780.4	-369.0	1.79	-1.79	
5,150.0	6.40	286.70	5,064.1	372.9	-791.1	-372.9	1.30	-1.05	
5,244.0	4.70	279.30	5,157.6	375.0	-799.9	-375.0	1.96	-1.81	
5,339.0	4.70	278.40	5,252.3	376.2	-807.6	-376.2	0.08	0.00	
5,434.0	4.20	272.30	5,347.0	376.9	-815.0	-376.9	0.72	-0.53	
5,529.0	3.30	274.10	5,441.8	377.3	-821.2	-377.3	0.96	-0.95	
5,624.0	2.10	290.00	5,536.7	378.1	-825.5	-378.1	1.48	-1.26	
5,719.0	1.30	254.50	5,631.7	378.4	-828.2	-378.4	1.35	-0.84	
5,813.0	0.70	228.80	5,725.7	377.7	-829.7	-377.7	0.78	-0.64	
5,908.0	0.40	237.10	5,820.7	377.1	-830.4	-377.1	0.33	-0.32	
6,003.0	0.60	257.50	5,915.7	376.9	-831.1	-376.9	0.28	0.21	
6,098.0	0.70	224.40	6,010.7	376.3	-832.0	-376.3	0.40	0.11	
6,193.0	0.70	206.50	6,105.6	375.4	-832.7	-375.4	0.23	0.00	

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well lone 1A-2H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Site:</b>	NWNE S2-T2N-R66W (lone)	<b>MD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Well:</b>	lone 1A-2H	<b>North Reference:</b>	True
<b>Wellbore:</b>	HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	HZ	<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
6,287.0	1.20	153.40	6,199.6	374.0	-832.5	-374.0	1.02	0.53	
6,382.0	1.10	144.60	6,294.6	372.4	-831.5	-372.4	0.21	-0.11	
6,477.0	0.60	297.20	6,389.6	371.9	-831.5	-371.9	1.74	-0.53	
6,572.0	0.60	289.40	6,484.6	372.3	-832.4	-372.3	0.09	0.00	
6,667.0	1.80	283.70	6,579.6	372.8	-834.3	-372.8	1.27	1.26	
6,730.0	2.00	275.50	6,642.5	373.1	-836.3	-373.1	0.53	0.32	
6,793.0	3.20	219.00	6,705.5	371.9	-838.5	-371.9	4.25	1.90	
6,825.0	5.90	203.60	6,737.4	369.6	-839.8	-369.6	9.19	8.44	
6,856.0	8.90	207.50	6,768.1	366.1	-841.5	-366.1	9.81	9.68	
6,888.0	11.40	211.30	6,799.6	361.2	-844.3	-361.2	8.08	7.81	
6,919.0	12.80	213.60	6,829.9	355.7	-847.8	-355.7	4.78	4.52	
6,951.0	14.50	208.40	6,861.0	349.2	-851.7	-349.2	6.55	5.31	
6,982.0	16.70	206.60	6,890.9	341.8	-855.5	-341.8	7.27	7.10	
7,014.0	19.60	202.70	6,921.3	332.7	-859.6	-332.7	9.82	9.06	
7,046.0	21.20	199.70	6,951.3	322.3	-863.6	-322.3	5.97	5.00	
7,077.0	22.50	192.40	6,980.1	311.3	-866.8	-311.3	9.71	4.19	
7,109.0	25.20	183.60	7,009.3	298.5	-868.6	-298.5	13.94	8.44	
7,141.0	28.40	178.50	7,037.9	284.1	-868.8	-284.1	12.31	10.00	
7,172.0	31.30	177.50	7,064.8	268.7	-868.2	-268.7	9.49	9.35	
7,204.0	32.60	177.40	7,091.9	251.7	-867.5	-251.7	4.07	4.06	
7,235.0	33.90	177.80	7,117.9	234.8	-866.8	-234.8	4.25	4.19	
7,267.0	35.30	177.90	7,144.2	216.6	-866.1	-216.6	4.38	4.37	
7,299.0	36.70	178.30	7,170.1	197.8	-865.5	-197.8	4.44	4.37	
7,330.0	38.80	178.90	7,194.6	178.8	-865.0	-178.8	6.88	6.77	
7,362.0	40.90	179.70	7,219.2	158.3	-864.8	-158.3	6.76	6.56	
7,393.0	43.70	180.80	7,242.1	137.5	-864.9	-137.5	9.34	9.03	
7,425.0	45.40	182.20	7,264.9	115.0	-865.5	-115.0	6.14	5.31	
7,457.0	48.10	183.30	7,286.8	91.8	-866.6	-91.8	8.80	8.44	
7,488.0	50.60	182.00	7,307.0	68.3	-867.7	-68.3	8.67	8.06	
7,520.0	52.70	180.60	7,326.9	43.2	-868.2	-43.2	7.41	6.56	
7,551.0	54.50	179.80	7,345.3	18.2	-868.3	-18.2	6.17	5.81	
7,583.0	55.70	179.00	7,363.6	-8.0	-868.0	8.0	4.27	3.75	
7,615.0	57.50	178.70	7,381.2	-34.7	-867.5	34.7	5.68	5.62	
7,646.0	59.70	178.20	7,397.3	-61.2	-866.8	61.2	7.23	7.10	
7,678.0	61.30	177.20	7,413.1	-89.0	-865.7	89.0	5.69	5.00	
7,710.0	62.80	177.10	7,428.1	-117.2	-864.3	117.2	4.70	4.69	
7,741.0	64.30	176.70	7,441.9	-145.0	-862.8	145.0	4.97	4.84	
7,773.0	66.10	176.30	7,455.3	-173.9	-861.0	173.9	5.74	5.62	
7,804.0	67.70	176.10	7,467.5	-202.4	-859.1	202.4	5.20	5.16	
7,836.0	70.20	177.10	7,479.0	-232.2	-857.3	232.2	8.34	7.81	
7,868.0	73.00	178.20	7,489.1	-262.5	-856.1	262.5	9.34	8.75	
7,899.0	75.80	178.20	7,497.4	-292.4	-855.1	292.4	9.03	9.03	
7,931.0	78.30	177.90	7,504.6	-323.5	-854.1	323.5	7.87	7.81	
7,962.0	82.50	177.20	7,509.8	-354.1	-852.8	354.1	13.73	13.55	
7,992.0	86.10	177.50	7,512.7	-383.9	-851.4	383.9	12.04	12.00	
8,068.0	88.11	178.12	7,516.6	-459.7	-848.5	459.7	2.77	2.64	
8,162.0	88.55	177.28	7,519.3	-553.6	-844.7	553.6	1.01	0.47	
8,257.0	90.31	177.15	7,520.3	-648.5	-840.1	648.5	1.86	1.85	
8,352.0	91.01	176.71	7,519.2	-743.4	-835.0	743.4	0.87	0.74	
8,447.0	90.13	176.70	7,518.2	-838.2	-829.6	838.2	0.93	-0.93	
8,542.0	90.48	176.60	7,517.7	-933.0	-824.0	933.0	0.38	0.37	
8,637.0	91.19	177.66	7,516.3	-1,027.9	-819.2	1,027.9	1.34	0.75	
8,732.0	90.84	177.70	7,514.6	-1,122.8	-815.4	1,122.8	0.37	-0.37	

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well lone 1A-2H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Site:</b>	NWNE S2-T2N-R66W (lone)	<b>MD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Well:</b>	lone 1A-2H	<b>North Reference:</b>	True
<b>Wellbore:</b>	HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	HZ	<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
8,826.0	90.22	177.78	7,513.8	-1,216.7	-811.7	1,216.7	0.67	-0.66	
8,921.0	90.57	178.63	7,513.1	-1,311.7	-808.7	1,311.7	0.97	0.37	
9,016.0	89.87	179.23	7,512.8	-1,406.7	-806.9	1,406.7	0.97	-0.74	
9,111.0	90.04	179.45	7,512.8	-1,501.7	-805.9	1,501.7	0.29	0.18	
9,206.0	89.60	179.71	7,513.1	-1,596.7	-805.2	1,596.7	0.54	-0.46	
9,300.0	89.60	179.77	7,513.8	-1,690.6	-804.7	1,690.6	0.06	0.00	
9,395.0	89.87	181.43	7,514.2	-1,785.6	-805.7	1,785.6	1.77	0.28	
9,490.0	89.96	180.40	7,514.4	-1,880.6	-807.2	1,880.6	1.09	0.09	
9,585.0	88.72	181.35	7,515.5	-1,975.6	-808.7	1,975.6	1.64	-1.31	
9,680.0	88.55	181.02	7,517.7	-2,070.6	-810.7	2,070.6	0.39	-0.18	
9,774.0	89.16	180.93	7,519.6	-2,164.5	-812.3	2,164.5	0.66	0.65	
9,869.0	89.43	180.43	7,520.8	-2,259.5	-813.4	2,259.5	0.60	0.28	
9,964.0	88.99	180.50	7,522.1	-2,354.5	-814.2	2,354.5	0.47	-0.46	
10,059.0	89.69	180.36	7,523.2	-2,449.5	-814.9	2,449.5	0.75	0.74	
10,154.0	89.78	179.93	7,523.6	-2,544.5	-815.1	2,544.5	0.46	0.09	
10,249.0	90.40	179.34	7,523.5	-2,639.5	-814.5	2,639.5	0.90	0.65	
10,299.0	89.90	179.30	7,523.3	-2,689.5	-813.9	2,689.5	1.00	-1.00	
10,393.0	89.80	180.30	7,523.6	-2,783.5	-813.6	2,783.5	1.07	-0.11	
10,488.0	90.10	180.40	7,523.7	-2,878.5	-814.2	2,878.5	0.33	0.32	
10,583.0	90.40	179.90	7,523.2	-2,973.5	-814.4	2,973.5	0.61	0.32	
10,678.0	90.00	179.40	7,522.9	-3,068.5	-813.8	3,068.5	0.67	-0.42	
10,773.0	91.30	178.50	7,521.8	-3,163.4	-812.1	3,163.4	1.66	1.37	
10,867.0	91.40	178.30	7,519.6	-3,257.4	-809.5	3,257.4	0.24	0.11	
10,962.0	92.30	178.20	7,516.6	-3,352.3	-806.6	3,352.3	0.95	0.95	
11,057.0	91.50	177.70	7,513.4	-3,447.2	-803.2	3,447.2	0.99	-0.84	
11,152.0	92.00	177.20	7,510.5	-3,542.0	-798.9	3,542.0	0.74	0.53	
11,247.0	92.40	176.10	7,506.9	-3,636.8	-793.4	3,636.8	1.23	0.42	
11,341.0	91.40	175.80	7,503.7	-3,730.5	-786.8	3,730.5	1.11	-1.06	
11,436.0	89.70	176.10	7,502.8	-3,825.3	-780.1	3,825.3	1.82	-1.79	
11,531.0	90.90	176.40	7,502.3	-3,920.1	-773.8	3,920.1	1.30	1.26	
11,626.0	90.40	177.30	7,501.3	-4,014.9	-768.6	4,014.9	1.08	-0.53	
11,721.0	89.10	177.20	7,501.7	-4,109.8	-764.1	4,109.8	1.37	-1.37	
11,816.0	90.70	176.80	7,501.8	-4,204.7	-759.1	4,204.7	1.74	1.68	
11,821.0	90.40	176.20	7,501.8	-4,209.7	-758.8	4,209.7	13.42	-6.00	Last Cathedral Survey @ 11821' MD
11,870.0	90.40	176.20	7,501.4	-4,258.5	-755.5	4,258.5	0.00	0.00	Projection to Bit @ 11870' MD

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well lone 1A-2H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Site:</b>	NWNE S2-T2N-R66W (lone)	<b>MD Reference:</b>	KB=13' @ 5091.0ft (Ensign 135)
<b>Well:</b>	lone 1A-2H	<b>North Reference:</b>	True
<b>Wellbore:</b>	HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
lone 1A-2H TGT #1	0.00	0.00	7,505.0	-2,252.3	-824.5	1,304,680.77	3,211,607.43	40.167257	-104.742830
- survey misses target center by 19.3ft at 9861.8ft MD (7520.7 TVD, -2252.3 N, -813.3 E)									
- Point									
lone 1A-2H PBHL (460' I	0.00	0.00	7,520.0	-4,411.4	-824.5	1,302,521.76	3,211,625.94	40.161330	-104.742830
- survey misses target center by 168.7ft at 11870.0ft MD (7501.4 TVD, -4258.5 N, -755.5 E)									
- Point									
lone 1A-2H TGT #2	0.00	0.00	7,525.0	-3,352.3	-824.5	1,303,580.81	3,211,616.86	40.164237	-104.742830
- survey misses target center by 19.8ft at 10961.2ft MD (7516.6 TVD, -3351.5 N, -806.6 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
11,821.0	7,501.8	-4,209.7	-758.8	Last Cathedral Survey @ 11821' MD
11,870.0	7,501.4	-4,258.5	-755.5	Projection to Bit @ 11870' MD

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