

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 4894.0ft
Project:	DJ Wattenberg	MD Reference:	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference:	True
Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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

Site		S14-T2N-R68W (Grant Elmquist/Salisbury)			
Site Position:		Northing:	1,295,686.81 ft	Latitude:	40.143850
From:	Lat/Long	Easting:	3,147,060.98 ft	Longitude:	-104.973980
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.34 °

Well	Grant Elmquist 2C-14H-C268					
Well Position	+N/-S	0.0 ft	Northing:	1,295,690.70 ft	Latitude:	40.143860
	+E/-W	0.0 ft	Easting:	3,147,105.69 ft	Longitude:	-104.973820
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,881.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/16/2013	8.66	66.76	52,808

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
695.1	5.90	287.86	694.5	4.7	-14.5	2.00	2.00	0.00	287.86	
6,644.2	5.90	287.86	6,612.1	192.3	-596.6	0.00	0.00	0.00	0.00	
7,561.9	90.00	180.30	7,200.0	-380.1	-657.6	10.00	9.16	-11.72	-107.47	
13,891.9	90.00	180.30	7,200.0	-6,710.0	-690.7	0.00	0.00	0.00	0.00	Grant Elmquist 2C-14

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Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
194.0	0.00	0.00	194.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	2.00	287.86	500.0	0.5	-1.7	-0.5	2.00	2.00	
600.0	4.00	287.86	599.8	2.1	-6.6	-2.1	2.00	2.00	
695.1	5.90	287.86	694.5	4.7	-14.5	-4.7	2.00	2.00	EOB; Inc=5.9°
700.0	5.90	287.86	699.5	4.8	-14.9	-4.8	0.00	0.00	
800.0	5.90	287.86	798.9	8.0	-24.7	-8.0	0.00	0.00	
900.0	5.90	287.86	898.4	11.1	-34.5	-11.1	0.00	0.00	
1,000.0	5.90	287.86	997.9	14.3	-44.3	-14.3	0.00	0.00	
1,100.0	5.90	287.86	1,097.3	17.4	-54.1	-17.4	0.00	0.00	
1,200.0	5.90	287.86	1,196.8	20.6	-63.9	-20.6	0.00	0.00	
1,300.0	5.90	287.86	1,296.3	23.7	-73.6	-23.7	0.00	0.00	
1,400.0	5.90	287.86	1,395.7	26.9	-83.4	-26.9	0.00	0.00	
1,500.0	5.90	287.86	1,495.2	30.0	-93.2	-30.0	0.00	0.00	
1,600.0	5.90	287.86	1,594.7	33.2	-103.0	-33.2	0.00	0.00	
1,700.0	5.90	287.86	1,694.2	36.3	-112.8	-36.3	0.00	0.00	
1,800.0	5.90	287.86	1,793.6	39.5	-122.6	-39.5	0.00	0.00	
1,900.0	5.90	287.86	1,893.1	42.7	-132.4	-42.7	0.00	0.00	
2,000.0	5.90	287.86	1,992.6	45.8	-142.2	-45.8	0.00	0.00	
2,100.0	5.90	287.86	2,092.0	49.0	-151.9	-49.0	0.00	0.00	
2,200.0	5.90	287.86	2,191.5	52.1	-161.7	-52.1	0.00	0.00	
2,300.0	5.90	287.86	2,291.0	55.3	-171.5	-55.3	0.00	0.00	
2,400.0	5.90	287.86	2,390.4	58.4	-181.3	-58.4	0.00	0.00	
2,500.0	5.90	287.86	2,489.9	61.6	-191.1	-61.6	0.00	0.00	
2,600.0	5.90	287.86	2,589.4	64.7	-200.9	-64.7	0.00	0.00	
2,700.0	5.90	287.86	2,688.9	67.9	-210.7	-67.9	0.00	0.00	
2,800.0	5.90	287.86	2,788.3	71.0	-220.4	-71.0	0.00	0.00	
2,900.0	5.90	287.86	2,887.8	74.2	-230.2	-74.2	0.00	0.00	
3,000.0	5.90	287.86	2,987.3	77.3	-240.0	-77.3	0.00	0.00	
3,100.0	5.90	287.86	3,086.7	80.5	-249.8	-80.5	0.00	0.00	
3,200.0	5.90	287.86	3,186.2	83.6	-259.6	-83.6	0.00	0.00	
3,300.0	5.90	287.86	3,285.7	86.8	-269.4	-86.8	0.00	0.00	
3,400.0	5.90	287.86	3,385.1	90.0	-279.2	-90.0	0.00	0.00	
3,500.0	5.90	287.86	3,484.6	93.1	-288.9	-93.1	0.00	0.00	
3,600.0	5.90	287.86	3,584.1	96.3	-298.7	-96.3	0.00	0.00	
3,700.0	5.90	287.86	3,683.6	99.4	-308.5	-99.4	0.00	0.00	
3,800.0	5.90	287.86	3,783.0	102.6	-318.3	-102.6	0.00	0.00	
3,900.0	5.90	287.86	3,882.5	105.7	-328.1	-105.7	0.00	0.00	
4,000.0	5.90	287.86	3,982.0	108.9	-337.9	-108.9	0.00	0.00	
4,100.0	5.90	287.86	4,081.4	112.0	-347.7	-112.0	0.00	0.00	
4,200.0	5.90	287.86	4,180.9	115.2	-357.4	-115.2	0.00	0.00	
4,201.1	5.90	287.86	4,182.0	115.2	-357.6	-115.2	0.00	0.00	Sussex
4,300.0	5.90	287.86	4,280.4	118.3	-367.2	-118.3	0.00	0.00	
4,400.0	5.90	287.86	4,379.8	121.5	-377.0	-121.5	0.00	0.00	
4,456.5	5.90	287.86	4,436.0	123.3	-382.5	-123.3	0.00	0.00	Sussex Marker
4,500.0	5.90	287.86	4,479.3	124.6	-386.8	-124.6	0.00	0.00	
4,600.0	5.90	287.86	4,578.8	127.8	-396.6	-127.8	0.00	0.00	
4,700.0	5.90	287.86	4,678.3	131.0	-406.4	-131.0	0.00	0.00	

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Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,751.0	5.90	287.86	4,729.0	132.6	-411.4	-132.6	0.00	0.00	Shannon
4,800.0	5.90	287.86	4,777.7	134.1	-416.2	-134.1	0.00	0.00	
4,900.0	5.90	287.86	4,877.2	137.3	-425.9	-137.3	0.00	0.00	
5,000.0	5.90	287.86	4,976.7	140.4	-435.7	-140.4	0.00	0.00	
5,100.0	5.90	287.86	5,076.1	143.6	-445.5	-143.6	0.00	0.00	
5,200.0	5.90	287.86	5,175.6	146.7	-455.3	-146.7	0.00	0.00	
5,300.0	5.90	287.86	5,275.1	149.9	-465.1	-149.9	0.00	0.00	
5,400.0	5.90	287.86	5,374.5	153.0	-474.9	-153.0	0.00	0.00	
5,500.0	5.90	287.86	5,474.0	156.2	-484.7	-156.2	0.00	0.00	
5,600.0	5.90	287.86	5,573.5	159.3	-494.4	-159.3	0.00	0.00	
5,700.0	5.90	287.86	5,673.0	162.5	-504.2	-162.5	0.00	0.00	
5,800.0	5.90	287.86	5,772.4	165.6	-514.0	-165.6	0.00	0.00	
5,900.0	5.90	287.86	5,871.9	168.8	-523.8	-168.8	0.00	0.00	
6,000.0	5.90	287.86	5,971.4	171.9	-533.6	-171.9	0.00	0.00	
6,100.0	5.90	287.86	6,070.8	175.1	-543.4	-175.1	0.00	0.00	
6,200.0	5.90	287.86	6,170.3	178.3	-553.2	-178.3	0.00	0.00	
6,223.8	5.90	287.86	6,194.0	179.0	-555.5	-179.0	0.00	0.00	Teepee Buttes (*if present)
6,300.0	5.90	287.86	6,269.8	181.4	-563.0	-181.4	0.00	0.00	
6,400.0	5.90	287.86	6,369.2	184.6	-572.7	-184.6	0.00	0.00	
6,500.0	5.90	287.86	6,468.7	187.7	-582.5	-187.7	0.00	0.00	
6,600.0	5.90	287.86	6,568.2	190.9	-592.3	-190.9	0.00	0.00	
6,644.2	5.90	287.86	6,612.1	192.3	-596.6	-192.3	0.00	0.00	Start build/turn @ 6644' MD
6,700.0	6.79	236.15	6,667.7	191.3	-602.1	-191.3	10.00	1.59	
6,800.0	14.89	202.06	6,765.9	176.1	-611.9	-176.1	10.00	8.10	
6,900.0	24.42	192.83	6,860.0	143.9	-621.3	-143.9	10.00	9.54	
7,000.0	34.22	188.63	6,947.0	95.8	-630.1	-95.8	10.00	9.79	
7,100.0	44.09	186.14	7,024.5	33.3	-638.1	-33.3	10.00	9.88	
7,144.1	48.47	185.31	7,055.0	1.6	-641.3	-1.6	10.00	9.91	Sharon Springs
7,200.0	54.01	184.40	7,090.0	-41.8	-644.9	41.8	10.00	9.92	
7,300.0	63.94	183.06	7,141.4	-127.2	-650.5	127.2	10.00	9.93	
7,315.3	65.47	182.88	7,148.0	-141.1	-651.2	141.1	10.00	9.94	Niobrara
7,400.0	73.89	181.93	7,177.4	-220.3	-654.5	220.3	10.00	9.95	
7,444.2	78.28	181.47	7,188.0	-263.2	-655.8	263.2	10.00	9.95	B Chalk
7,500.0	83.84	180.91	7,196.7	-318.3	-656.9	318.3	10.00	9.95	
7,561.9	90.00	180.30	7,200.0	-380.1	-657.6	380.1	10.00	9.95	LP @ 7200' TVD; 90°
7,600.0	90.00	180.30	7,200.0	-418.2	-657.8	418.2	0.00	0.00	
7,700.0	90.00	180.30	7,200.0	-518.2	-658.3	518.2	0.00	0.00	
7,800.0	90.00	180.30	7,200.0	-618.2	-658.8	618.2	0.00	0.00	
7,900.0	90.00	180.30	7,200.0	-718.2	-659.3	718.2	0.00	0.00	
8,000.0	90.00	180.30	7,200.0	-818.2	-659.9	818.2	0.00	0.00	
8,100.0	90.00	180.30	7,200.0	-918.2	-660.4	918.2	0.00	0.00	
8,200.0	90.00	180.30	7,200.0	-1,018.2	-660.9	1,018.2	0.00	0.00	
8,300.0	90.00	180.30	7,200.0	-1,118.2	-661.4	1,118.2	0.00	0.00	
8,400.0	90.00	180.30	7,200.0	-1,218.2	-662.0	1,218.2	0.00	0.00	
8,500.0	90.00	180.30	7,200.0	-1,318.2	-662.5	1,318.2	0.00	0.00	
8,600.0	90.00	180.30	7,200.0	-1,418.2	-663.0	1,418.2	0.00	0.00	
8,700.0	90.00	180.30	7,200.0	-1,518.2	-663.5	1,518.2	0.00	0.00	
8,800.0	90.00	180.30	7,200.0	-1,618.1	-664.0	1,618.1	0.00	0.00	
8,900.0	90.00	180.30	7,200.0	-1,718.1	-664.6	1,718.1	0.00	0.00	
9,000.0	90.00	180.30	7,200.0	-1,818.1	-665.1	1,818.1	0.00	0.00	
9,100.0	90.00	180.30	7,200.0	-1,918.1	-665.6	1,918.1	0.00	0.00	
9,200.0	90.00	180.30	7,200.0	-2,018.1	-666.1	2,018.1	0.00	0.00	

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Wellbore:	Hz		
Design:	Plan #2		

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	180.30	7,200.0	-2,118.1	-666.7	2,118.1	0.00	0.00	
9,400.0	90.00	180.30	7,200.0	-2,218.1	-667.2	2,218.1	0.00	0.00	
9,500.0	90.00	180.30	7,200.0	-2,318.1	-667.7	2,318.1	0.00	0.00	
9,600.0	90.00	180.30	7,200.0	-2,418.1	-668.2	2,418.1	0.00	0.00	
9,700.0	90.00	180.30	7,200.0	-2,518.1	-668.8	2,518.1	0.00	0.00	
9,800.0	90.00	180.30	7,200.0	-2,618.1	-669.3	2,618.1	0.00	0.00	
9,900.0	90.00	180.30	7,200.0	-2,718.1	-669.8	2,718.1	0.00	0.00	
10,000.0	90.00	180.30	7,200.0	-2,818.1	-670.3	2,818.1	0.00	0.00	
10,100.0	90.00	180.30	7,200.0	-2,918.1	-670.9	2,918.1	0.00	0.00	
10,200.0	90.00	180.30	7,200.0	-3,018.1	-671.4	3,018.1	0.00	0.00	
10,300.0	90.00	180.30	7,200.0	-3,118.1	-671.9	3,118.1	0.00	0.00	
10,400.0	90.00	180.30	7,200.0	-3,218.1	-672.4	3,218.1	0.00	0.00	
10,500.0	90.00	180.30	7,200.0	-3,318.1	-672.9	3,318.1	0.00	0.00	
10,600.0	90.00	180.30	7,200.0	-3,418.1	-673.5	3,418.1	0.00	0.00	
10,700.0	90.00	180.30	7,200.0	-3,518.1	-674.0	3,518.1	0.00	0.00	
10,800.0	90.00	180.30	7,200.0	-3,618.1	-674.5	3,618.1	0.00	0.00	
10,900.0	90.00	180.30	7,200.0	-3,718.1	-675.0	3,718.1	0.00	0.00	
11,000.0	90.00	180.30	7,200.0	-3,818.1	-675.6	3,818.1	0.00	0.00	
11,100.0	90.00	180.30	7,200.0	-3,918.1	-676.1	3,918.1	0.00	0.00	
11,200.0	90.00	180.30	7,200.0	-4,018.1	-676.6	4,018.1	0.00	0.00	
11,300.0	90.00	180.30	7,200.0	-4,118.1	-677.1	4,118.1	0.00	0.00	
11,400.0	90.00	180.30	7,200.0	-4,218.1	-677.7	4,218.1	0.00	0.00	
11,500.0	90.00	180.30	7,200.0	-4,318.1	-678.2	4,318.1	0.00	0.00	
11,600.0	90.00	180.30	7,200.0	-4,418.1	-678.7	4,418.1	0.00	0.00	
11,700.0	90.00	180.30	7,200.0	-4,518.1	-679.2	4,518.1	0.00	0.00	
11,800.0	90.00	180.30	7,200.0	-4,618.1	-679.8	4,618.1	0.00	0.00	
11,900.0	90.00	180.30	7,200.0	-4,718.1	-680.3	4,718.1	0.00	0.00	
12,000.0	90.00	180.30	7,200.0	-4,818.1	-680.8	4,818.1	0.00	0.00	
12,100.0	90.00	180.30	7,200.0	-4,918.1	-681.3	4,918.1	0.00	0.00	
12,200.0	90.00	180.30	7,200.0	-5,018.1	-681.8	5,018.1	0.00	0.00	
12,300.0	90.00	180.30	7,200.0	-5,118.1	-682.4	5,118.1	0.00	0.00	
12,400.0	90.00	180.30	7,200.0	-5,218.1	-682.9	5,218.1	0.00	0.00	
12,500.0	90.00	180.30	7,200.0	-5,318.1	-683.4	5,318.1	0.00	0.00	
12,600.0	90.00	180.30	7,200.0	-5,418.1	-683.9	5,418.1	0.00	0.00	
12,700.0	90.00	180.30	7,200.0	-5,518.1	-684.5	5,518.1	0.00	0.00	
12,800.0	90.00	180.30	7,200.0	-5,618.1	-685.0	5,618.1	0.00	0.00	
12,900.0	90.00	180.30	7,200.0	-5,718.1	-685.5	5,718.1	0.00	0.00	
13,000.0	90.00	180.30	7,200.0	-5,818.1	-686.0	5,818.1	0.00	0.00	
13,100.0	90.00	180.30	7,200.0	-5,918.1	-686.6	5,918.1	0.00	0.00	
13,200.0	90.00	180.30	7,200.0	-6,018.1	-687.1	6,018.1	0.00	0.00	
13,300.0	90.00	180.30	7,200.0	-6,118.1	-687.6	6,118.1	0.00	0.00	
13,400.0	90.00	180.30	7,200.0	-6,218.1	-688.1	6,218.1	0.00	0.00	
13,500.0	90.00	180.30	7,200.0	-6,318.1	-688.7	6,318.1	0.00	0.00	
13,600.0	90.00	180.30	7,200.0	-6,418.1	-689.2	6,418.1	0.00	0.00	
13,700.0	90.00	180.30	7,200.0	-6,518.1	-689.7	6,518.1	0.00	0.00	
13,800.0	90.00	180.30	7,200.0	-6,618.1	-690.2	6,618.1	0.00	0.00	
13,891.9	90.00	180.30	7,200.0	-6,710.0	-690.7	6,710.0	0.00	0.00	TD at 13891.9 - Grant Elmquist 2C-14H-C268 F

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 4894.0ft
Project:	DJ Wattenberg	MD Reference:	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference:	True
Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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)		
Grant Elmquist 2C-14H- - plan hits target center - Point	0.00	0.00	7,200.0	-6,710.0	-690.7	1,288,976.70	3,146,454.81	40.125440	-104.976290

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
194.0	194.0	Fox Hills - BASE				
4,201.1	4,182.0	Sussex				
4,456.5	4,436.0	Sussex Marker				
4,751.0	4,729.0	Shannon				
6,223.8	6,194.0	Teepee Buttes (*if present)				
7,144.1	7,055.0	Sharon Springs				
7,315.3	7,148.0	Niobrara				
7,444.2	7,188.0	B Chalk				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
400.0	400.0	0.0	0.0	KOP @ 400'	
695.1	694.5	4.7	-14.5	EOB; Inc=5.9°	
6,644.2	6,612.1	192.3	-596.6	Start build/turn @ 6644' MD	
7,561.9	7,200.0	-380.1	-657.6	LP @ 7200' TVD; 90°	
13,891.9	7,200.0	-6,710.0	-690.7	TD at 13891.9	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S14-T2N-R68W (Grant Elmquist/Salisbury)

Grant Elmquist 2C-14H-C268

Hz

Plan #2

Anticollision Report

15 May, 2013

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.0ft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 1,279.0ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	Systematic Ellipse
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic

Survey Tool Program		Date	5/15/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,891.9	Plan #2 (Hz)	MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S14-T2N-R68W (Grant Elmquist/Salisbury)						
BERGER 32-23 (EXISTING) - EXISTING - NO SURVEY						Out of range
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV	9,686.8	7,196.0	1,153.5	1,093.7	19.269	CC
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV	9,700.0	7,196.0	1,153.6	1,093.5	19.199	ES
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV	10,100.0	7,196.0	1,225.3	1,158.4	18.317	SF
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS	11,778.3	7,337.2	919.9	820.3	9.238	CC
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS	11,800.0	7,337.2	920.2	820.2	9.206	ES
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS	11,900.0	7,337.0	927.9	826.2	9.125	SF
ELMQUIST 1 (EXISTING) - EXISTING - GYRO	13,306.9	7,225.0	549.7	433.5	4.732	CC, ES, SF
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO	12,364.1	7,234.0	410.3	310.5	4.113	CC, ES
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO	12,400.0	7,233.6	411.8	311.4	4.103	SF
ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVE	13,608.7	7,251.0	310.2	182.4	2.428	CC, ES, SF
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS	12,306.3	7,375.8	1,010.1	895.5	8.815	CC, ES
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS	12,500.0	7,380.5	1,028.5	910.5	8.718	SF
ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS	13,891.9	7,348.5	491.7	351.3	3.502	CC, ES, SF
ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 4-4-23 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 23-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS	5,628.3	5,869.8	780.3	741.6	20.156	CC, ES
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS	6,200.0	6,424.4	787.8	747.9	19.774	SF
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS						Out of range
Grant Elmquist 2A-14H-C268 - Hz - Plan #2	200.0	200.0	19.6	18.9	29.980	CC, ES
Grant Elmquist 2A-14H-C268 - Hz - Plan #2	13,891.9	14,012.0	774.6	534.4	3.225	SF
Grant Elmquist 2B-14H-C268 - Hz - Plan #2	300.0	300.0	11.2	10.2	11.162	CC, ES
Grant Elmquist 2B-14H-C268 - Hz - Plan #2	13,891.9	14,157.7	451.7	238.0	2.114	SF
Grant Elmquist 2D-14H-C268 - Hz - Plan #2	400.0	400.0	8.4	7.0	6.208	CC, ES
Grant Elmquist 2D-14H-C268 - Hz - Plan #2	13,891.9	14,090.8	451.7	237.8	2.112	SF
Grant Elmquist 2E-14H-C268 - Hz - Plan #2	400.0	400.0	19.6	18.2	14.486	CC, ES
Grant Elmquist 2E-14H-C268 - Hz - Plan #2	13,891.9	13,861.3	774.6	534.6	3.227	SF
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	400.0	400.0	28.0	26.6	20.695	CC, ES
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	500.0	500.0	29.6	27.9	17.430	SF
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	362.5	373.5	39.1	37.9	32.077	CC
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	400.0	410.9	39.2	37.8	28.989	ES
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	500.0	509.4	42.9	41.2	25.260	SF
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	200.0	200.0	553.8	553.2	848.436	CC
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	300.0	298.4	554.0	553.0	554.345	ES
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	8,200.0	7,122.9	993.5	958.4	28.298	SF
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	7,628.7	7,265.4	551.5	523.0	19.382	CC, ES
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	7,800.0	7,158.0	565.1	535.6	19.118	SF
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	7,564.4	7,321.3	155.0	126.8	5.502	CC, ES, SF
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	7,686.9	7,265.3	194.3	165.3	6.695	CC, ES
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	7,700.0	7,256.8	194.5	165.4	6.678	SF
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	400.0	400.0	554.4	553.1	410.407	CC, ES
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	7,100.0	7,644.3	638.4	609.1	21.812	SF
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	400.0	400.0	554.9	553.5	410.766	CC, ES
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	8,200.0	6,964.1	1,090.1	1,055.6	31.682	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS	11,212.2	7,481.4	174.8	79.6	1.836	CC, ES, SF
HURT 33-11 (EXISTING) - EXISTING - NO SURVEY						Out of range
HURT 34-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 43-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 7-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S14-T2N-R68W (Grant Elmquist/Salisbury)						
NELSON 23-23C (EXISTING) - EXISTING - NO SURVEY						Out of range
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS	10,193.7	7,207.0	291.9	223.4	4.261	CC
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS	10,200.0	7,207.0	292.0	223.4	4.255	ES, SF
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	7,565.2	7,194.4	435.8	408.2	15.801	CC, ES
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	7,600.0	7,193.0	436.9	409.0	15.664	SF
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV	9,695.4	7,196.0	1,115.5	1,055.5	18.590	CC
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV	9,700.0	7,196.0	1,115.5	1,055.5	18.566	ES
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV	10,100.0	7,196.0	1,186.7	1,119.8	17.740	SF
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV	11,228.7	7,201.0	963.9	877.6	11.167	CC, ES
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV	11,400.0	7,201.0	979.0	889.8	10.966	SF
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1						Out of range
SALISBURY 1 (EXISTING) - EXISTING - GYRO						Out of range
SALISBURY 13-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS	6,700.0	6,699.9	1,260.7	1,232.2	44.302	CC, ES, SF
SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS						Out of range

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8056-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,200.0	7,200.0	7,196.0	7,196.0	40.8	12.6	-90.00	-2,511.0	484.8	1,252.0	1,200.3	51.69	24.224		
9,300.0	7,200.0	7,196.0	7,196.0	42.4	12.6	-90.00	-2,511.0	484.8	1,216.6	1,163.3	53.35	22.803		
9,400.0	7,200.0	7,196.0	7,196.0	44.0	12.6	-90.00	-2,511.0	484.8	1,188.6	1,133.6	55.03	21.600		
9,500.0	7,200.0	7,196.0	7,196.0	45.6	12.6	-90.00	-2,511.0	484.8	1,168.5	1,111.8	56.71	20.606		
9,600.0	7,200.0	7,196.0	7,196.0	47.3	12.6	-90.00	-2,511.0	484.8	1,156.8	1,098.4	58.40	19.809		
9,686.8	7,200.0	7,196.0	7,196.0	48.7	12.6	-90.00	-2,511.0	484.8	1,153.5	1,093.7	59.86	19.269 CC		
9,700.0	7,200.0	7,196.0	7,196.0	48.9	12.6	-90.00	-2,511.0	484.8	1,153.6	1,093.5	60.09	19.199 ES		
9,800.0	7,200.0	7,196.0	7,196.0	50.6	12.6	-90.00	-2,511.0	484.8	1,159.1	1,097.3	61.78	18.760		
9,900.0	7,200.0	7,196.0	7,196.0	52.2	12.6	-90.00	-2,511.0	484.8	1,173.1	1,109.6	63.48	18.478		
10,000.0	7,200.0	7,196.0	7,196.0	53.9	12.6	-90.00	-2,511.0	484.8	1,195.3	1,130.1	65.19	18.337		
10,100.0	7,200.0	7,196.0	7,196.0	55.5	12.6	-90.00	-2,511.0	484.8	1,225.3	1,158.4	66.89	18.317 SF		
10,200.0	7,200.0	7,196.0	7,196.0	57.2	12.6	-90.00	-2,511.0	484.8	1,262.5	1,193.9	68.60	18.404		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 43-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,900.0	7,200.0	7,338.8	7,249.9	69.0	20.1	90.59	-4,591.6	-1,599.5	1,271.9	1,187.5	84.38	15.073	
11,000.0	7,200.0	7,338.7	7,249.8	70.7	20.1	90.58	-4,591.6	-1,599.5	1,205.0	1,118.9	86.11	13.994	
11,100.0	7,200.0	7,338.5	7,249.6	72.4	20.1	90.57	-4,591.6	-1,599.5	1,143.0	1,055.1	87.84	13.012	
11,200.0	7,200.0	7,338.3	7,249.4	74.2	20.1	90.56	-4,591.6	-1,599.5	1,086.6	997.0	89.57	12.132	
11,300.0	7,200.0	7,338.1	7,249.2	75.9	20.1	90.55	-4,591.6	-1,599.5	1,036.8	945.5	91.29	11.357	
11,400.0	7,200.0	7,337.9	7,249.0	77.6	20.1	90.54	-4,591.6	-1,599.5	994.7	901.6	93.03	10.692	
11,500.0	7,200.0	7,337.7	7,248.8	79.3	20.1	90.53	-4,591.6	-1,599.5	961.1	866.3	94.76	10.143	
11,600.0	7,200.0	7,337.6	7,248.7	81.0	20.1	90.51	-4,591.6	-1,599.5	937.0	840.5	96.49	9.711	
11,700.0	7,200.0	7,337.4	7,248.5	82.7	20.1	90.50	-4,591.6	-1,599.5	923.2	825.0	98.22	9.399	
11,778.3	7,200.0	7,337.2	7,248.3	84.1	20.1	90.49	-4,591.6	-1,599.5	919.9	820.3	99.58	9.238 CC	
11,800.0	7,200.0	7,337.2	7,248.3	84.4	20.1	90.49	-4,591.6	-1,599.5	920.2	820.2	99.96	9.206 ES	
11,900.0	7,200.0	7,337.0	7,248.1	86.2	20.1	90.48	-4,591.6	-1,599.5	927.9	826.2	101.69	9.125 SF	
12,000.0	7,200.0	7,336.9	7,247.9	87.9	20.1	90.47	-4,591.6	-1,599.5	946.2	842.8	103.43	9.149	
12,100.0	7,200.0	7,336.7	7,247.8	89.6	20.1	90.46	-4,591.6	-1,599.5	974.5	869.4	105.16	9.267	
12,200.0	7,200.0	7,336.5	7,247.6	91.3	20.1	90.45	-4,591.6	-1,599.5	1,011.9	905.0	106.90	9.466	
12,300.0	7,200.0	7,336.3	7,247.4	93.0	20.1	90.44	-4,591.6	-1,599.5	1,057.5	948.9	108.64	9.734	
12,400.0	7,200.0	7,336.1	7,247.2	94.8	20.1	90.43	-4,591.6	-1,599.5	1,110.3	999.9	110.38	10.059	
12,500.0	7,200.0	7,336.0	7,247.1	96.5	20.1	90.42	-4,591.6	-1,599.5	1,169.2	1,057.1	112.12	10.428	
12,600.0	7,200.0	7,335.8	7,246.9	98.2	20.1	90.40	-4,591.6	-1,599.5	1,233.4	1,119.6	113.86	10.833	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 1 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,200.0	7,200.0	7,238.7	7,237.8	91.3	6.4	-91.43	-6,127.7	-137.9	1,235.8	1,138.9	96.89	12.755		
12,300.0	7,200.0	7,237.5	7,236.5	93.0	6.4	-91.31	-6,127.7	-137.9	1,147.1	1,048.5	98.63	11.631		
12,400.0	7,200.0	7,236.3	7,235.3	94.8	6.3	-91.18	-6,127.8	-137.9	1,060.5	960.1	100.37	10.566		
12,500.0	7,200.0	7,235.0	7,234.1	96.5	6.3	-91.05	-6,127.8	-137.9	976.3	874.2	102.11	9.561		
12,600.0	7,200.0	7,233.8	7,232.9	98.2	6.3	-90.92	-6,127.8	-137.9	895.5	791.6	103.85	8.622		
12,700.0	7,200.0	7,232.6	7,231.6	100.0	6.3	-90.79	-6,127.8	-137.9	818.8	713.2	105.59	7.755		
12,800.0	7,200.0	7,231.3	7,230.4	101.7	6.3	-90.67	-6,127.8	-137.9	747.7	640.4	107.34	6.966		
12,900.0	7,200.0	7,230.1	7,229.1	103.4	6.3	-90.54	-6,127.8	-137.9	683.9	574.8	109.08	6.270		
13,000.0	7,200.0	7,228.8	7,227.9	105.1	6.3	-90.40	-6,127.9	-137.9	629.6	518.8	110.82	5.681		
13,100.0	7,200.0	7,227.6	7,226.6	106.9	6.3	-90.27	-6,127.9	-137.9	587.4	474.8	112.56	5.218		
13,200.0	7,200.0	7,226.3	7,225.4	108.6	6.3	-90.14	-6,127.9	-137.9	560.0	445.7	114.30	4.899		
13,300.0	7,200.0	7,225.1	7,224.1	110.3	6.3	-90.01	-6,127.9	-137.9	549.7	433.7	116.05	4.737		
13,306.9	7,200.0	7,225.0	7,224.0	110.5	6.3	-90.00	-6,127.9	-137.9	549.7	433.5	116.17	4.732	CC, ES, SF	
13,400.0	7,200.0	7,223.8	7,222.8	112.1	6.3	-89.88	-6,127.9	-137.9	557.5	439.7	117.79	4.733		
13,500.0	7,200.0	7,222.5	7,221.6	113.8	6.3	-89.75	-6,127.9	-137.9	582.6	463.1	119.53	4.874		
13,600.0	7,200.0	7,221.2	7,220.3	115.5	6.3	-89.61	-6,128.0	-137.9	622.9	501.7	121.27	5.137		
13,700.0	7,200.0	7,220.0	7,219.0	117.3	6.3	-89.48	-6,128.0	-137.9	675.8	552.7	123.01	5.494		
13,800.0	7,200.0	7,218.7	7,217.7	119.0	6.3	-89.34	-6,128.0	-137.9	738.4	613.7	124.75	5.919		
13,891.9	7,200.0	7,217.5	7,216.5	120.6	6.3	-89.22	-6,128.0	-137.9	802.7	676.4	126.35	6.353		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO													Offset Site Error: 0.0 ft	
Survey Program: 100-Gyro													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,200.0	7,200.0	7,248.8	7,246.1	74.2	6.5	92.53	-5,179.9	-1,092.8	1,234.2	1,154.7	79.51	15.523		
11,300.0	7,200.0	7,247.5	7,244.8	75.9	6.5	92.34	-5,179.9	-1,092.8	1,140.4	1,059.2	81.25	14.037		
11,400.0	7,200.0	7,246.2	7,243.4	77.6	6.5	92.15	-5,179.9	-1,092.8	1,047.7	964.7	82.98	12.626		
11,500.0	7,200.0	7,244.9	7,242.1	79.3	6.5	91.97	-5,180.0	-1,092.9	956.5	871.8	84.72	11.290		
11,600.0	7,200.0	7,243.5	7,240.8	81.0	6.5	91.79	-5,180.0	-1,092.9	867.3	780.8	86.46	10.031		
11,700.0	7,200.0	7,242.3	7,239.5	82.7	6.5	91.61	-5,180.0	-1,092.9	780.6	692.4	88.20	8.850		
11,800.0	7,200.0	7,241.0	7,238.2	84.4	6.5	91.43	-5,180.0	-1,092.9	697.5	607.6	89.94	7.755		
11,900.0	7,200.0	7,239.7	7,237.0	86.2	6.5	91.25	-5,180.0	-1,092.9	619.4	527.8	91.68	6.757		
12,000.0	7,200.0	7,238.5	7,235.7	87.9	6.5	91.08	-5,180.0	-1,092.9	548.5	455.1	93.42	5.872		
12,100.0	7,200.0	7,237.2	7,234.5	89.6	6.5	90.91	-5,180.0	-1,092.9	487.9	392.8	95.16	5.128		
12,200.0	7,200.0	7,236.0	7,233.3	91.3	6.5	90.73	-5,180.1	-1,092.9	441.9	345.0	96.90	4.560		
12,300.0	7,200.0	7,234.8	7,232.0	93.0	6.5	90.56	-5,180.1	-1,092.9	415.2	316.6	98.64	4.210		
12,364.1	7,200.0	7,234.0	7,231.3	94.1	6.5	90.46	-5,180.1	-1,093.0	410.3	310.5	99.75	4.113 CC, ES		
12,400.0	7,200.0	7,233.6	7,230.8	94.8	6.5	90.40	-5,180.1	-1,093.0	411.8	311.4	100.38	4.103 SF		
12,500.0	7,200.0	7,232.4	7,229.6	96.5	6.5	90.23	-5,180.1	-1,093.0	432.2	330.1	102.12	4.232		
12,600.0	7,200.0	7,231.2	7,228.5	98.2	6.5	90.06	-5,180.1	-1,093.0	473.2	369.4	103.86	4.557		
12,700.0	7,200.0	7,230.0	7,227.3	100.0	6.5	89.90	-5,180.1	-1,093.0	530.2	424.6	105.59	5.021		
12,800.0	7,200.0	7,228.9	7,226.1	101.7	6.5	89.74	-5,180.1	-1,093.0	598.6	491.2	107.33	5.577		
12,900.0	7,200.0	7,227.7	7,225.0	103.4	6.5	89.58	-5,180.2	-1,093.0	674.9	565.8	109.07	6.187		
13,000.0	7,200.0	7,226.6	7,223.9	105.1	6.5	89.42	-5,180.2	-1,093.0	756.7	645.9	110.81	6.829		
13,100.0	7,200.0	7,225.5	7,222.7	106.9	6.5	89.26	-5,180.2	-1,093.0	842.5	729.9	112.55	7.485		
13,200.0	7,200.0	7,224.4	7,221.6	108.6	6.5	89.11	-5,180.2	-1,093.0	931.1	816.8	114.29	8.147		
13,300.0	7,200.0	7,223.3	7,220.5	110.3	6.5	88.95	-5,180.2	-1,093.0	1,021.8	905.8	116.02	8.807		
13,400.0	7,200.0	7,222.2	7,219.4	112.1	6.5	88.80	-5,180.2	-1,093.0	1,114.1	996.3	117.76	9.461		
13,500.0	7,200.0	7,221.1	7,218.3	113.8	6.5	88.65	-5,180.2	-1,093.1	1,207.6	1,088.1	119.50	10.106		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVEY												Offset Site Error:	0.0 ft
Survey Program: 8117-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
12,400.0	7,200.0	7,251.0	7,251.0	94.8	12.7	90.00	-6,425.2	-999.4	1,247.9	1,141.1	106.72	11.693	
12,500.0	7,200.0	7,251.0	7,251.0	96.5	12.7	90.00	-6,425.2	-999.4	1,151.3	1,042.8	108.46	10.615	
12,600.0	7,200.0	7,251.0	7,251.0	98.2	12.7	90.00	-6,425.2	-999.4	1,055.3	945.1	110.20	9.576	
12,700.0	7,200.0	7,251.0	7,251.0	100.0	12.7	90.00	-6,425.2	-999.4	960.2	848.2	111.94	8.578	
12,800.0	7,200.0	7,251.0	7,251.0	101.7	12.7	90.00	-6,425.2	-999.4	866.1	752.5	113.68	7.619	
12,900.0	7,200.0	7,251.0	7,251.0	103.4	12.7	90.00	-6,425.2	-999.4	773.6	658.2	115.42	6.703	
13,000.0	7,200.0	7,251.0	7,251.0	105.1	12.7	90.00	-6,425.2	-999.4	683.2	566.0	117.16	5.831	
13,100.0	7,200.0	7,251.0	7,251.0	106.9	12.7	90.00	-6,425.2	-999.4	595.8	476.9	118.90	5.011	
13,200.0	7,200.0	7,251.0	7,251.0	108.6	12.7	90.00	-6,425.2	-999.4	513.1	392.4	120.65	4.253	
13,300.0	7,200.0	7,251.0	7,251.0	110.3	12.7	90.00	-6,425.2	-999.4	437.6	315.2	122.39	3.576	
13,400.0	7,200.0	7,251.0	7,251.0	112.1	12.7	90.00	-6,425.2	-999.4	373.9	249.7	124.13	3.012	
13,500.0	7,200.0	7,251.0	7,251.0	113.8	12.7	90.00	-6,425.2	-999.4	328.7	202.8	125.88	2.611	
13,600.0	7,200.0	7,251.0	7,251.0	115.5	12.7	90.00	-6,425.2	-999.4	310.3	182.7	127.62	2.432	
13,608.7	7,200.0	7,251.0	7,251.0	115.7	12.7	90.00	-6,425.2	-999.4	310.2	182.4	127.77	2.428 CC, ES, SF	
13,700.0	7,200.0	7,251.0	7,251.0	117.3	12.7	90.00	-6,425.2	-999.4	323.4	194.0	129.36	2.500	
13,800.0	7,200.0	7,251.0	7,251.0	119.0	12.7	90.00	-6,425.2	-999.4	364.4	233.3	131.11	2.780	
13,891.9	7,200.0	7,251.0	7,251.0	120.6	12.7	90.00	-6,425.2	-999.4	420.1	287.3	132.71	3.165	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 102-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
11,600.0	7,200.0	7,357.8	7,200.7	81.0	23.1	-87.93	-5,129.3	327.2	1,232.4	1,130.1	102.27	12.050	
11,700.0	7,200.0	7,360.3	7,203.2	82.7	23.1	-88.08	-5,129.3	327.2	1,178.0	1,074.0	104.02	11.325	
11,800.0	7,200.0	7,364.0	7,206.9	84.4	23.1	-88.29	-5,129.4	327.3	1,129.8	1,024.0	105.76	10.682	
11,900.0	7,200.0	7,365.4	7,208.3	86.2	23.1	-88.37	-5,129.5	327.3	1,088.7	981.2	107.50	10.127	
12,000.0	7,200.0	7,368.0	7,210.9	87.9	23.1	-88.52	-5,129.5	327.3	1,055.5	946.2	109.25	9.661	
12,100.0	7,200.0	7,370.6	7,213.5	89.6	23.1	-88.66	-5,129.6	327.4	1,030.9	919.9	110.99	9.288	
12,200.0	7,200.0	7,373.2	7,216.1	91.3	23.1	-88.81	-5,129.7	327.4	1,015.7	902.9	112.74	9.009	
12,300.0	7,200.0	7,375.7	7,218.6	93.0	23.1	-88.95	-5,129.7	327.5	1,010.1	895.6	114.48	8.823	
12,306.3	7,200.0	7,375.8	7,218.7	93.2	23.1	-88.96	-5,129.7	327.5	1,010.1	895.5	114.59	8.815 CC, ES	
12,400.0	7,200.0	7,378.1	7,221.0	94.8	23.1	-89.09	-5,129.8	327.5	1,014.4	898.2	116.23	8.728	
12,500.0	7,200.0	7,380.5	7,223.4	96.5	23.1	-89.22	-5,129.8	327.6	1,028.5	910.5	117.97	8.718 SF	
12,600.0	7,200.0	7,382.9	7,225.8	98.2	23.1	-89.36	-5,129.9	327.6	1,051.9	932.2	119.71	8.787	
12,700.0	7,200.0	7,385.2	7,228.1	100.0	23.1	-89.49	-5,130.0	327.7	1,084.0	962.6	121.46	8.925	
12,800.0	7,200.0	7,387.5	7,230.4	101.7	23.1	-89.62	-5,130.0	327.7	1,124.2	1,001.0	123.20	9.125	
12,900.0	7,200.0	7,389.7	7,232.6	103.4	23.1	-89.75	-5,130.1	327.7	1,171.5	1,046.6	124.95	9.376	
13,000.0	7,200.0	7,392.0	7,234.8	105.1	23.1	-89.87	-5,130.1	327.8	1,225.2	1,098.5	126.69	9.671	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 72-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,100.0	7,200.0	7,348.5	7,237.1	106.9	20.9	-90.00	-7,074.1	-360.2	1,201.1	1,074.6	126.58	9.489		
13,200.0	7,200.0	7,348.5	7,237.1	108.6	20.9	-90.00	-7,074.1	-360.2	1,105.4	977.1	128.32	8.614		
13,300.0	7,200.0	7,348.5	7,237.1	110.3	20.9	-90.00	-7,074.1	-360.2	1,010.5	880.4	130.06	7.769		
13,400.0	7,200.0	7,348.5	7,237.1	112.1	20.9	-90.00	-7,074.1	-360.2	916.6	784.8	131.81	6.954		
13,500.0	7,200.0	7,348.5	7,237.1	113.8	20.9	-90.00	-7,074.1	-360.2	824.2	690.7	133.55	6.172		
13,600.0	7,200.0	7,348.5	7,237.1	115.5	20.9	-90.00	-7,074.1	-360.2	733.8	598.5	135.29	5.424		
13,700.0	7,200.0	7,348.5	7,237.1	117.3	20.9	-90.00	-7,074.1	-360.2	646.3	509.2	137.04	4.716		
13,800.0	7,200.0	7,348.5	7,237.1	119.0	20.9	-90.00	-7,074.1	-360.2	562.9	424.1	138.78	4.056		
13,891.9	7,200.0	7,348.5	7,237.1	120.6	20.9	-90.00	-7,074.1	-360.2	491.7	351.3	140.39	3.502 CC, ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS													Offset Site Error: 0.0 ft			
Survey Program: 62-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)						
2,700.0	2,688.9	3,201.0	3,036.2	6.1	18.0	110.80	1,041.3	526.4	1,272.8	1,255.1	17.66	72.074				
2,800.0	2,788.3	3,288.0	3,118.1	6.4	18.6	110.39	1,032.7	498.3	1,248.3	1,230.0	18.32	68.142				
2,900.0	2,887.8	3,363.9	3,189.9	6.6	19.0	110.07	1,025.5	475.0	1,225.2	1,206.3	18.92	64.742				
3,000.0	2,987.3	3,447.7	3,269.7	6.9	19.5	109.69	1,018.4	449.9	1,203.5	1,183.9	19.57	61.481				
3,100.0	3,086.7	3,542.0	3,359.5	7.1	20.1	109.28	1,010.8	422.4	1,182.5	1,162.3	20.27	58.351				
3,200.0	3,186.2	3,627.1	3,440.8	7.4	20.5	108.94	1,003.6	398.5	1,162.1	1,141.3	20.89	55.624				
3,300.0	3,285.7	3,724.0	3,533.6	7.6	21.1	108.54	996.0	371.6	1,142.4	1,120.8	21.60	52.886				
3,400.0	3,385.1	3,812.0	3,617.7	7.9	21.6	108.11	989.9	346.4	1,123.0	1,100.7	22.30	50.353				
3,500.0	3,484.6	3,905.3	3,707.0	8.1	22.1	107.64	984.0	320.2	1,104.4	1,081.4	23.03	47.953				
3,600.0	3,584.1	4,025.9	3,822.3	8.4	22.8	107.01	975.6	285.8	1,085.2	1,061.2	23.93	45.340				
3,700.0	3,683.6	4,129.3	3,920.3	8.6	23.4	106.32	968.4	253.5	1,064.4	1,039.6	24.82	42.883				
3,800.0	3,783.0	4,217.9	4,004.3	8.9	23.9	105.71	962.4	226.2	1,044.1	1,018.5	25.62	40.750				
3,900.0	3,882.5	4,299.5	4,082.1	9.1	24.4	105.15	957.5	201.6	1,025.1	998.8	26.37	38.872				
4,000.0	3,982.0	4,403.2	4,181.4	9.4	24.9	104.53	951.0	172.8	1,007.3	980.2	27.20	37.038				
4,100.0	4,081.4	4,507.5	4,281.4	9.6	25.5	103.96	942.7	144.1	988.4	960.3	28.02	35.270				
4,200.0	4,180.9	4,622.1	4,390.6	9.9	26.2	103.21	933.3	110.7	968.4	939.4	28.97	33.421				
4,300.0	4,280.4	4,721.5	4,485.0	10.1	26.8	102.51	924.3	81.0	947.4	917.5	29.84	31.746				
4,400.0	4,379.8	4,817.8	4,576.8	10.4	27.3	101.87	915.4	53.2	926.9	896.2	30.67	30.220				
4,500.0	4,479.3	4,912.8	4,667.3	10.6	27.9	101.25	906.2	26.1	906.3	874.8	31.50	28.770				
4,600.0	4,578.8	5,012.0	4,761.9	10.9	28.5	100.52	897.2	-2.5	886.2	853.8	32.39	27.360				
4,700.0	4,678.3	5,105.2	4,850.4	11.1	29.0	99.74	889.1	-30.4	866.1	832.8	33.31	25.998				
4,800.0	4,777.7	5,190.7	4,931.8	11.4	29.5	98.95	882.7	-56.0	847.1	813.0	34.18	24.786				
4,900.0	4,877.2	5,270.8	5,008.8	11.7	29.9	98.36	876.7	-77.4	830.1	795.1	34.91	23.775				
5,000.0	4,976.7	5,348.2	5,083.8	11.9	30.2	97.91	871.8	-95.5	815.4	779.8	35.59	22.913				
5,100.0	5,076.1	5,425.8	5,159.5	12.2	30.6	97.47	868.6	-112.6	803.5	767.2	36.25	22.166				
5,200.0	5,175.6	5,501.4	5,233.6	12.4	30.8	97.11	866.7	-127.4	794.3	757.4	36.85	21.553				
5,300.0	5,275.1	5,577.2	5,308.4	12.7	31.0	96.87	866.5	-139.6	788.4	751.0	37.39	21.087				
5,400.0	5,374.5	5,667.1	5,397.6	12.9	31.2	96.78	866.7	-151.0	784.5	746.6	37.87	20.715				
5,500.0	5,474.0	5,758.2	5,488.2	13.2	31.4	96.84	866.9	-160.1	781.7	743.4	38.28	20.419				
5,600.0	5,573.5	5,845.6	5,575.3	13.4	31.6	97.02	867.5	-167.1	780.3	741.7	38.63	20.201				
5,628.3	5,601.6	5,869.8	5,599.4	13.5	31.6	97.09	867.8	-168.6	780.3	741.6	38.71	20.156 CC, ES				
5,700.0	5,673.0	5,932.7	5,662.3	13.7	31.7	97.33	868.8	-171.6	780.7	741.8	38.90	20.068				
5,800.0	5,772.4	6,027.5	5,756.9	13.9	31.8	97.72	870.9	-175.3	782.4	743.2	39.16	19.979				
5,900.0	5,871.9	6,132.6	5,862.0	14.2	31.9	98.21	872.9	-179.0	784.0	744.6	39.39	19.904				
6,000.0	5,971.4	6,239.8	5,969.2	14.4	32.0	98.77	873.5	-182.2	784.7	745.1	39.58	19.827				
6,100.0	6,070.8	6,328.4	6,057.7	14.7	32.0	99.31	873.6	-183.9	785.6	745.8	39.73	19.774				
6,200.0	6,170.3	6,424.4	6,153.7	14.9	32.1	99.98	874.3	-184.2	787.8	747.9	39.84	19.774 SF				
6,300.0	6,269.8	6,525.5	6,254.8	15.2	32.2	100.67	875.1	-184.6	790.1	750.2	39.95	19.779				
6,400.0	6,369.2	6,625.2	6,354.6	15.4	32.2	101.34	875.7	-185.2	792.4	752.3	40.06	19.780				
6,500.0	6,468.7	6,724.3	6,453.6	15.7	32.3	102.00	876.5	-185.8	794.9	754.7	40.18	19.785				
6,600.0	6,568.2	6,825.3	6,554.6	15.9	32.4	102.68	877.1	-186.2	797.4	757.1	40.28	19.794				
6,700.0	6,667.7	6,926.3	6,655.6	16.1	32.4	154.88	877.5	-186.8	802.1	761.8	40.33	19.890				
6,800.0	6,765.9	7,024.8	6,754.1	16.3	32.5	-170.58	877.8	-187.3	820.2	780.8	39.38	20.827				
6,900.0	6,860.0	7,118.8	6,848.1	16.4	32.6	-160.65	878.0	-187.7	852.6	815.3	37.28	22.873				
7,000.0	6,947.0	7,207.7	6,937.0	16.6	32.6	-155.31	878.1	-188.0	898.5	864.4	34.16	26.306				
7,100.0	7,024.5	7,287.2	7,016.5	16.7	32.7	-150.88	878.0	-188.3	957.0	926.6	30.30	31.579				
7,200.0	7,090.0	7,354.3	7,083.6	17.0	32.8	-145.74	877.8	-188.7	1,026.6	1,000.2	26.35	38.956				
7,300.0	7,141.4	7,407.0	7,136.3	17.3	32.8	-138.38	877.7	-189.3	1,105.7	1,082.0	23.71	46.633				
7,400.0	7,177.4	7,443.7	7,173.0	17.8	32.8	-126.51	877.7	-189.8	1,192.3	1,167.7	24.59	48.497				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2A-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.6	19.6	19.3	0.30	64.439		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.6	19.6	18.9	0.65	29.980 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	-89.33	0.2	-21.3	21.3	20.3	1.00	21.210		
400.0	400.0	398.3	398.2	0.7	0.7	-87.85	1.0	-26.4	26.4	25.1	1.37	19.328		
500.0	500.0	497.1	496.5	0.9	0.9	-14.90	2.2	-34.8	33.4	31.7	1.70	19.673		
600.0	599.8	595.6	594.3	1.0	1.2	-15.18	3.9	-46.6	40.3	38.3	2.04	19.738		
700.0	699.5	693.8	691.4	1.3	1.5	-16.04	6.1	-61.6	47.4	45.0	2.39	19.786		
800.0	798.9	791.7	787.5	1.5	1.9	-16.74	8.8	-79.8	56.3	53.5	2.75	20.466		
900.0	898.4	890.5	884.1	1.7	2.2	-16.97	11.8	-100.6	67.6	64.5	3.11	21.748		
1,000.0	997.9	989.9	981.1	1.9	2.6	-17.12	14.9	-121.6	79.1	75.6	3.47	22.781		
1,100.0	1,097.3	1,089.2	1,078.2	2.2	3.0	-17.24	17.9	-142.5	90.5	86.7	3.83	23.614		
1,200.0	1,196.8	1,188.6	1,175.3	2.4	3.4	-17.33	21.0	-163.5	101.9	97.7	4.20	24.300		
1,300.0	1,296.3	1,287.9	1,272.3	2.7	3.9	-17.40	24.1	-184.5	113.4	108.8	4.56	24.874		
1,400.0	1,395.7	1,387.3	1,369.4	2.9	4.3	-17.46	27.1	-205.4	124.8	119.9	4.92	25.362		
1,500.0	1,495.2	1,486.6	1,466.4	3.2	4.7	-17.51	30.2	-226.4	136.3	131.0	5.29	25.781		
1,600.0	1,594.7	1,585.9	1,563.5	3.4	5.1	-17.55	33.2	-247.4	147.7	142.1	5.65	26.145		
1,700.0	1,694.2	1,685.3	1,660.5	3.7	5.5	-17.58	36.3	-268.4	159.2	153.1	6.01	26.463		
1,800.0	1,793.6	1,784.6	1,757.6	3.9	5.9	-17.62	39.4	-289.3	170.6	164.2	6.38	26.745		
1,900.0	1,893.1	1,884.0	1,854.7	4.2	6.3	-17.64	42.4	-310.3	182.0	175.3	6.74	26.996		
2,000.0	1,992.6	1,983.3	1,951.7	4.4	6.7	-17.67	45.5	-331.3	193.5	186.4	7.11	27.220		
2,100.0	2,092.0	2,082.7	2,048.8	4.6	7.1	-17.69	48.5	-352.2	204.9	197.5	7.47	27.423		
2,200.0	2,191.5	2,182.0	2,145.8	4.9	7.6	-17.70	51.6	-373.2	216.4	208.5	7.84	27.606		
2,300.0	2,291.0	2,281.3	2,242.9	5.1	8.0	-17.72	54.6	-394.2	227.8	219.6	8.20	27.772		
2,400.0	2,390.4	2,380.7	2,339.9	5.4	8.4	-17.74	57.7	-415.2	239.3	230.7	8.57	27.924		
2,500.0	2,489.9	2,480.0	2,437.0	5.6	8.8	-17.75	60.8	-436.1	250.7	241.8	8.93	28.064		
2,600.0	2,589.4	2,579.4	2,534.0	5.9	9.2	-17.76	63.8	-457.1	262.1	252.8	9.30	28.192		
2,700.0	2,688.9	2,678.7	2,631.1	6.1	9.6	-17.78	66.9	-478.1	273.6	263.9	9.66	28.311		
2,800.0	2,788.3	2,778.1	2,728.2	6.4	10.0	-17.79	69.9	-499.0	285.0	275.0	10.03	28.420		
2,900.0	2,887.8	2,877.4	2,825.2	6.6	10.5	-17.80	73.0	-520.0	296.5	286.1	10.39	28.522		
3,000.0	2,987.3	2,976.7	2,922.3	6.9	10.9	-17.80	76.1	-541.0	307.9	297.2	10.76	28.617		
3,100.0	3,086.7	3,076.1	3,019.3	7.1	11.3	-17.81	79.1	-562.0	319.4	308.2	11.13	28.706		
3,200.0	3,186.2	3,175.4	3,116.4	7.4	11.7	-17.82	82.2	-582.9	330.8	319.3	11.49	28.789		
3,300.0	3,285.7	3,274.8	3,213.4	7.6	12.1	-17.83	85.2	-603.9	342.2	330.4	11.86	28.867		
3,400.0	3,385.1	3,374.1	3,310.5	7.9	12.5	-17.84	88.3	-624.9	353.7	341.5	12.22	28.940		
3,500.0	3,484.6	3,473.5	3,407.6	8.1	13.0	-17.84	91.4	-645.8	365.1	352.5	12.59	29.009		
3,600.0	3,584.1	3,572.8	3,504.6	8.4	13.4	-17.85	94.4	-666.8	376.6	363.6	12.95	29.073		
3,700.0	3,683.6	3,672.2	3,601.7	8.6	13.8	-17.85	97.5	-687.8	388.0	374.7	13.32	29.135		
3,800.0	3,783.0	3,771.5	3,698.7	8.9	14.2	-17.86	100.5	-708.8	399.5	385.8	13.68	29.193		
3,900.0	3,882.5	3,870.8	3,795.8	9.1	14.6	-17.86	103.6	-729.7	410.9	396.9	14.05	29.247		
4,000.0	3,982.0	3,970.2	3,892.8	9.4	15.0	-17.87	106.7	-750.7	422.3	407.9	14.41	29.300		
4,100.0	4,081.4	4,069.5	3,989.9	9.6	15.4	-17.87	109.7	-771.7	433.8	419.0	14.78	29.349		
4,200.0	4,180.9	4,168.9	4,086.9	9.9	15.9	-17.88	112.8	-792.6	445.2	430.1	15.15	29.396		
4,300.0	4,280.4	4,268.2	4,184.0	10.1	16.3	-17.88	115.8	-813.6	456.7	441.2	15.51	29.441		
4,400.0	4,379.8	4,367.6	4,281.1	10.4	16.7	-17.89	118.9	-834.6	468.1	452.2	15.88	29.484		
4,500.0	4,479.3	4,466.9	4,378.1	10.6	17.1	-17.89	121.9	-855.6	479.6	463.3	16.24	29.524		
4,600.0	4,578.8	4,566.2	4,475.2	10.9	17.5	-17.89	125.0	-876.5	491.0	474.4	16.61	29.563		
4,700.0	4,678.3	4,665.6	4,572.2	11.1	17.9	-17.90	128.1	-897.5	502.5	485.5	16.97	29.601		
4,800.0	4,777.7	4,764.9	4,669.3	11.4	18.4	-17.90	131.1	-918.5	513.9	496.6	17.34	29.636		
4,900.0	4,877.2	4,864.3	4,766.3	11.7	18.8	-17.90	134.2	-939.4	525.3	507.6	17.71	29.671		
5,000.0	4,976.7	4,963.6	4,863.4	11.9	19.2	-17.90	137.2	-960.4	536.8	518.7	18.07	29.703		
5,100.0	5,076.1	5,063.0	4,960.4	12.2	19.6	-17.91	140.3	-981.4	548.2	529.8	18.44	29.735		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2A-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,175.6	5,162.3	5,057.5	12.4	20.0	-17.91	143.4	-1,002.4	559.7	540.9	18.80	29.765		
5,300.0	5,275.1	5,261.6	5,154.6	12.7	20.4	-17.91	146.4	-1,023.3	571.1	551.9	19.17	29.794		
5,400.0	5,374.5	5,361.0	5,251.6	12.9	20.8	-17.92	149.5	-1,044.3	582.6	563.0	19.53	29.822		
5,500.0	5,474.0	5,460.3	5,348.7	13.2	21.3	-17.92	152.5	-1,065.3	594.0	574.1	19.90	29.849		
5,600.0	5,573.5	5,559.7	5,445.7	13.4	21.7	-17.92	155.6	-1,086.2	605.4	585.2	20.27	29.875		
5,700.0	5,673.0	5,659.0	5,542.8	13.7	22.1	-17.92	158.7	-1,107.2	616.9	596.3	20.63	29.900		
5,800.0	5,772.4	5,758.4	5,639.8	13.9	22.5	-17.92	161.7	-1,128.2	628.3	607.3	21.00	29.925		
5,900.0	5,871.9	5,857.7	5,736.9	14.2	22.9	-17.93	164.8	-1,149.2	639.8	618.4	21.36	29.948		
6,000.0	5,971.4	5,957.0	5,834.0	14.4	23.3	-17.93	167.8	-1,170.1	651.2	629.5	21.73	29.971		
6,100.0	6,070.8	6,056.4	5,931.0	14.7	23.8	-17.93	170.9	-1,191.1	662.7	640.6	22.09	29.992		
6,200.0	6,170.3	6,155.7	6,028.1	14.9	24.2	-17.93	174.0	-1,212.1	674.1	651.6	22.46	30.013		
6,300.0	6,269.8	6,255.1	6,125.1	15.2	24.6	-17.93	177.0	-1,233.0	685.5	662.7	22.83	30.034		
6,400.0	6,369.2	6,354.4	6,222.2	15.4	25.0	-17.94	180.1	-1,254.0	697.0	673.8	23.19	30.054		
6,500.0	6,468.7	6,453.8	6,319.2	15.7	25.4	-17.94	183.1	-1,275.0	708.4	684.9	23.56	30.073		
6,600.0	6,568.2	6,553.1	6,416.3	15.9	25.8	-17.94	186.2	-1,296.0	719.9	696.0	23.92	30.091		
6,700.0	6,667.7	6,652.4	6,513.3	16.1	26.3	33.07	189.2	-1,316.9	731.3	707.0	24.34	30.048		
6,800.0	6,765.9	6,749.9	6,608.6	16.3	26.7	66.91	192.3	-1,337.5	742.7	718.1	24.55	30.250		
6,900.0	6,860.0	6,849.9	6,706.1	16.4	27.1	76.67	189.0	-1,358.6	754.5	729.9	24.57	30.710		
7,000.0	6,947.0	6,956.3	6,807.7	16.6	27.4	81.42	166.7	-1,380.5	766.5	741.9	24.59	31.177		
7,100.0	7,024.5	7,069.5	6,909.3	16.7	27.8	84.41	122.3	-1,402.5	778.1	753.4	24.73	31.459		
7,200.0	7,090.0	7,190.3	7,006.1	17.0	28.1	86.56	53.6	-1,423.4	788.7	763.6	25.14	31.368		
7,300.0	7,141.4	7,318.7	7,091.1	17.3	28.5	88.14	-40.5	-1,441.8	797.6	771.7	25.93	30.762		
7,400.0	7,177.4	7,453.9	7,156.2	17.8	29.0	89.25	-157.9	-1,455.8	804.1	776.9	27.16	29.608		
7,500.0	7,196.7	7,594.1	7,193.4	18.4	29.5	89.87	-292.4	-1,463.9	807.4	778.6	28.83	28.006		
7,600.0	7,200.0	7,720.2	7,200.0	19.2	30.1	90.00	-418.2	-1,465.3	807.5	776.7	30.83	26.192		
7,700.0	7,200.0	7,820.2	7,200.0	20.1	30.7	90.00	-518.2	-1,465.3	807.0	774.0	33.02	24.438		
7,800.0	7,200.0	7,920.2	7,200.0	21.1	31.3	90.00	-618.2	-1,465.3	806.5	771.1	35.43	22.766		
7,900.0	7,200.0	8,020.2	7,200.0	22.2	32.0	90.00	-718.2	-1,465.3	806.0	768.0	38.00	21.209		
8,000.0	7,200.0	8,120.2	7,200.0	23.3	32.8	90.00	-818.2	-1,465.3	805.4	764.7	40.72	19.782		
8,100.0	7,200.0	8,220.2	7,200.0	24.6	33.7	90.00	-918.2	-1,465.3	804.9	761.4	43.54	18.485		
8,200.0	7,200.0	8,320.2	7,200.0	25.9	34.7	90.00	-1,018.2	-1,465.3	804.4	757.9	46.47	17.311		
8,300.0	7,200.0	8,420.2	7,200.0	27.2	35.7	90.00	-1,118.2	-1,465.3	803.9	754.4	49.46	16.252		
8,400.0	7,200.0	8,520.2	7,200.0	28.6	36.7	90.00	-1,218.2	-1,465.3	803.4	750.8	52.53	15.295		
8,500.0	7,200.0	8,620.2	7,200.0	30.1	37.8	90.00	-1,318.2	-1,465.3	802.8	747.2	55.64	14.429		
8,600.0	7,200.0	8,720.2	7,200.0	31.5	39.0	90.00	-1,418.2	-1,465.3	802.3	743.5	58.80	13.645		
8,700.0	7,200.0	8,820.2	7,200.0	33.0	40.2	90.00	-1,518.2	-1,465.3	801.8	739.8	61.99	12.933		
8,800.0	7,200.0	8,920.2	7,200.0	34.5	41.5	90.00	-1,618.1	-1,465.3	801.3	736.0	65.22	12.285		
8,900.0	7,200.0	9,020.2	7,200.0	36.1	42.7	90.00	-1,718.1	-1,465.3	800.7	732.3	68.48	11.693		
9,000.0	7,200.0	9,120.2	7,200.0	37.6	44.0	90.00	-1,818.1	-1,465.3	800.2	728.5	71.76	11.152		
9,100.0	7,200.0	9,220.2	7,200.0	39.2	45.4	90.00	-1,918.1	-1,465.3	799.7	724.6	75.06	10.654		
9,200.0	7,200.0	9,320.2	7,200.0	40.8	46.8	90.00	-2,018.1	-1,465.3	799.2	720.8	78.38	10.197		
9,300.0	7,200.0	9,420.2	7,200.0	42.4	48.2	90.00	-2,118.1	-1,465.3	798.6	716.9	81.71	9.774		
9,400.0	7,200.0	9,520.2	7,200.0	44.0	49.6	90.00	-2,218.1	-1,465.3	798.1	713.1	85.06	9.383		
9,500.0	7,200.0	9,620.2	7,200.0	45.6	51.0	90.00	-2,318.1	-1,465.3	797.6	709.2	88.42	9.021		
9,600.0	7,200.0	9,720.2	7,200.0	47.3	52.5	90.00	-2,418.1	-1,465.3	797.1	705.3	91.79	8.684		
9,700.0	7,200.0	9,820.2	7,200.0	48.9	54.0	90.00	-2,518.1	-1,465.3	796.5	701.4	95.17	8.370		
9,800.0	7,200.0	9,920.2	7,200.0	50.6	55.4	90.00	-2,618.1	-1,465.3	796.0	697.5	98.56	8.076		
9,900.0	7,200.0	10,020.2	7,200.0	52.2	57.0	90.00	-2,718.1	-1,465.3	795.5	693.5	101.96	7.802		
10,000.0	7,200.0	10,120.2	7,200.0	53.9	58.5	90.00	-2,818.1	-1,465.3	795.0	689.6	105.37	7.545		
10,100.0	7,200.0	10,220.2	7,200.0	55.5	60.0	90.00	-2,918.1	-1,465.3	794.5	685.7	108.78	7.303		
10,200.0	7,200.0	10,320.2	7,200.0	57.2	61.6	90.00	-3,018.1	-1,465.3	793.9	681.7	112.20	7.076		
10,300.0	7,200.0	10,420.2	7,200.0	58.9	63.1	90.00	-3,118.1	-1,465.3	793.4	677.8	115.62	6.862		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2A-14H-C268 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,520.2	7,200.0	60.6	64.7	90.00	-3,218.1	-1,465.3	792.9	673.8	119.05	6.660	
10,500.0	7,200.0	10,620.2	7,200.0	62.3	66.3	90.00	-3,318.1	-1,465.3	792.4	669.9	122.48	6.469	
10,600.0	7,200.0	10,720.2	7,200.0	64.0	67.9	90.00	-3,418.1	-1,465.3	791.8	665.9	125.92	6.289	
10,700.0	7,200.0	10,820.2	7,200.0	65.6	69.5	90.00	-3,518.1	-1,465.3	791.3	662.0	129.36	6.117	
10,800.0	7,200.0	10,920.2	7,200.0	67.3	71.1	90.00	-3,618.1	-1,465.3	790.8	658.0	132.80	5.955	
10,900.0	7,200.0	11,020.2	7,200.0	69.0	72.7	90.00	-3,718.1	-1,465.3	790.3	654.0	136.25	5.800	
11,000.0	7,200.0	11,120.2	7,200.0	70.7	74.3	90.00	-3,818.1	-1,465.3	789.7	650.0	139.70	5.653	
11,100.0	7,200.0	11,220.2	7,200.0	72.4	75.9	90.00	-3,918.1	-1,465.3	789.2	646.1	143.15	5.513	
11,200.0	7,200.0	11,320.2	7,200.0	74.2	77.5	90.00	-4,018.1	-1,465.3	788.7	642.1	146.61	5.380	
11,300.0	7,200.0	11,420.2	7,200.0	75.9	79.2	90.00	-4,118.1	-1,465.3	788.2	638.1	150.07	5.252	
11,400.0	7,200.0	11,520.2	7,200.0	77.6	80.8	90.00	-4,218.1	-1,465.3	787.6	634.1	153.53	5.130	
11,500.0	7,200.0	11,620.2	7,200.0	79.3	82.5	90.00	-4,318.1	-1,465.3	787.1	630.1	156.99	5.014	
11,600.0	7,200.0	11,720.2	7,200.0	81.0	84.1	90.00	-4,418.1	-1,465.3	786.6	626.1	160.45	4.902	
11,700.0	7,200.0	11,820.2	7,200.0	82.7	85.8	90.00	-4,518.1	-1,465.3	786.1	622.2	163.92	4.795	
11,800.0	7,200.0	11,920.2	7,200.0	84.4	87.4	90.00	-4,618.1	-1,465.3	785.6	618.2	167.39	4.693	
11,900.0	7,200.0	12,020.2	7,200.0	86.2	89.1	90.00	-4,718.1	-1,465.3	785.0	614.2	170.86	4.595	
12,000.0	7,200.0	12,120.2	7,200.0	87.9	90.7	90.00	-4,818.1	-1,465.3	784.5	610.2	174.33	4.500	
12,100.0	7,200.0	12,220.2	7,200.0	89.6	92.4	90.00	-4,918.1	-1,465.3	784.0	606.2	177.80	4.409	
12,200.0	7,200.0	12,320.2	7,200.0	91.3	94.1	90.00	-5,018.1	-1,465.3	783.5	602.2	181.28	4.322	
12,300.0	7,200.0	12,420.2	7,200.0	93.0	95.7	90.00	-5,118.1	-1,465.3	782.9	598.2	184.75	4.238	
12,400.0	7,200.0	12,520.2	7,200.0	94.8	97.4	90.00	-5,218.1	-1,465.3	782.4	594.2	188.23	4.157	
12,500.0	7,200.0	12,620.2	7,200.0	96.5	99.1	90.00	-5,318.1	-1,465.3	781.9	590.2	191.71	4.079	
12,600.0	7,200.0	12,720.2	7,200.0	98.2	100.8	90.00	-5,418.1	-1,465.3	781.4	586.2	195.19	4.003	
12,700.0	7,200.0	12,820.1	7,200.0	100.0	102.5	90.00	-5,518.1	-1,465.3	780.8	582.2	198.67	3.930	
12,800.0	7,200.0	12,920.1	7,200.0	101.7	104.2	90.00	-5,618.1	-1,465.3	780.3	578.2	202.15	3.860	
12,900.0	7,200.0	13,020.1	7,200.0	103.4	105.8	90.00	-5,718.1	-1,465.3	779.8	574.2	205.63	3.792	
13,000.0	7,200.0	13,120.1	7,200.0	105.1	107.5	90.00	-5,818.1	-1,465.3	779.3	570.2	209.11	3.727	
13,100.0	7,200.0	13,220.1	7,200.0	106.9	109.2	90.00	-5,918.1	-1,465.3	778.7	566.2	212.60	3.663	
13,200.0	7,200.0	13,320.1	7,200.0	108.6	110.9	90.00	-6,018.1	-1,465.3	778.2	562.1	216.08	3.602	
13,300.0	7,200.0	13,420.1	7,200.0	110.3	112.6	90.00	-6,118.1	-1,465.3	777.7	558.1	219.56	3.542	
13,400.0	7,200.0	13,520.1	7,200.0	112.1	114.3	90.00	-6,218.1	-1,465.3	777.2	554.1	223.05	3.484	
13,500.0	7,200.0	13,620.1	7,200.0	113.8	116.0	90.00	-6,318.1	-1,465.3	776.7	550.1	226.54	3.428	
13,600.0	7,200.0	13,720.1	7,200.0	115.5	117.7	90.00	-6,418.1	-1,465.3	776.1	546.1	230.02	3.374	
13,700.0	7,200.0	13,820.1	7,200.0	117.3	119.4	90.00	-6,518.1	-1,465.3	775.6	542.1	233.51	3.321	
13,800.0	7,200.0	13,920.1	7,200.0	119.0	121.1	90.00	-6,618.1	-1,465.3	775.1	538.1	237.00	3.270	
13,891.9	7,200.0	14,012.0	7,200.0	120.6	122.7	90.00	-6,710.0	-1,465.3	774.6	534.4	240.21	3.225 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2B-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-11.2	11.2	10.9	0.30	36.822		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-11.2	11.2	10.5	0.65	17.131		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-11.2	11.2	10.2	1.00	11.162 CC, ES		
400.0	400.0	399.6	399.6	0.7	0.7	-88.53	0.3	-12.9	12.9	11.5	1.35	9.534		
500.0	500.0	499.0	498.9	0.9	0.9	-15.08	1.3	-18.0	16.4	14.7	1.70	9.634		
600.0	599.8	598.3	597.8	1.0	1.1	-15.41	3.0	-26.4	19.9	17.9	2.05	9.720		
700.0	699.5	697.5	696.2	1.3	1.3	-16.63	5.3	-38.2	23.5	21.1	2.40	9.797		
800.0	798.9	796.9	794.4	1.5	1.6	-17.30	8.1	-53.1	28.7	26.0	2.76	10.423		
900.0	898.4	896.7	893.0	1.7	1.9	-17.57	11.2	-68.7	34.6	31.5	3.12	11.097		
1,000.0	997.9	996.5	991.5	1.9	2.2	-17.76	14.2	-84.3	40.5	37.0	3.48	11.626		
1,100.0	1,097.3	1,096.4	1,090.1	2.2	2.6	-17.90	17.2	-99.9	46.4	42.5	3.85	12.053		
1,200.0	1,196.8	1,196.2	1,188.7	2.4	2.9	-18.01	20.3	-115.5	52.2	48.0	4.21	12.404		
1,300.0	1,296.3	1,296.0	1,287.2	2.7	3.2	-18.10	23.3	-131.0	58.1	53.5	4.58	12.697		
1,400.0	1,395.7	1,395.8	1,385.8	2.9	3.5	-18.17	26.3	-146.6	64.0	59.0	4.94	12.946		
1,500.0	1,495.2	1,495.7	1,484.3	3.2	3.8	-18.23	29.4	-162.2	69.9	64.5	5.31	13.160		
1,600.0	1,594.7	1,595.5	1,582.9	3.4	4.2	-18.28	32.4	-177.8	75.7	70.1	5.67	13.345		
1,700.0	1,694.2	1,695.3	1,681.4	3.7	4.5	-18.32	35.4	-193.4	81.6	75.6	6.04	13.507		
1,800.0	1,793.6	1,795.1	1,780.0	3.9	4.8	-18.36	38.4	-209.0	87.5	81.1	6.41	13.651		
1,900.0	1,893.1	1,895.0	1,878.5	4.2	5.2	-18.39	41.5	-224.6	93.3	86.6	6.77	13.778		
2,000.0	1,992.6	1,994.8	1,977.1	4.4	5.5	-18.42	44.5	-240.1	99.2	92.1	7.14	13.892		
2,100.0	2,092.0	2,094.6	2,075.7	4.6	5.8	-18.45	47.5	-255.7	105.1	97.6	7.51	13.995		
2,200.0	2,191.5	2,194.5	2,174.2	4.9	6.1	-18.47	50.6	-271.3	111.0	103.1	7.88	14.088		
2,300.0	2,291.0	2,294.3	2,272.8	5.1	6.5	-18.49	53.6	-286.9	116.8	108.6	8.24	14.173		
2,400.0	2,390.4	2,394.1	2,371.3	5.4	6.8	-18.51	56.6	-302.5	122.7	114.1	8.61	14.250		
2,500.0	2,489.9	2,493.9	2,469.9	5.6	7.1	-18.53	59.6	-318.1	128.6	119.6	8.98	14.321		
2,600.0	2,589.4	2,593.8	2,568.4	5.9	7.4	-18.54	62.7	-333.7	134.5	125.1	9.35	14.386		
2,700.0	2,688.9	2,693.6	2,667.0	6.1	7.8	-18.56	65.7	-349.3	140.3	130.6	9.71	14.446		
2,800.0	2,788.3	2,793.4	2,765.6	6.4	8.1	-18.57	68.7	-364.8	146.2	136.1	10.08	14.501		
2,900.0	2,887.8	2,893.2	2,864.1	6.6	8.4	-18.58	71.8	-380.4	152.1	141.6	10.45	14.553		
3,000.0	2,987.3	2,993.1	2,962.7	6.9	8.8	-18.59	74.8	-396.0	157.9	147.1	10.82	14.601		
3,100.0	3,086.7	3,092.9	3,061.2	7.1	9.1	-18.60	77.8	-411.6	163.8	152.6	11.19	14.646		
3,200.0	3,186.2	3,192.7	3,159.8	7.4	9.4	-18.61	80.9	-427.2	169.7	158.1	11.55	14.688		
3,300.0	3,285.7	3,292.6	3,258.3	7.6	9.8	-18.62	83.9	-442.8	175.6	163.6	11.92	14.727		
3,400.0	3,385.1	3,392.4	3,356.9	7.9	10.1	-18.63	86.9	-458.4	181.4	169.1	12.29	14.764		
3,500.0	3,484.6	3,492.2	3,455.5	8.1	10.4	-18.64	89.9	-473.9	187.3	174.7	12.66	14.799		
3,600.0	3,584.1	3,592.0	3,554.0	8.4	10.7	-18.65	93.0	-489.5	193.2	180.2	13.02	14.832		
3,700.0	3,683.6	3,691.9	3,652.6	8.6	11.1	-18.65	96.0	-505.1	199.1	185.7	13.39	14.863		
3,800.0	3,783.0	3,791.7	3,751.1	8.9	11.4	-18.66	99.0	-520.7	204.9	191.2	13.76	14.892		
3,900.0	3,882.5	3,891.5	3,849.7	9.1	11.7	-18.66	102.1	-536.3	210.8	196.7	14.13	14.920		
4,000.0	3,982.0	3,991.3	3,948.2	9.4	12.1	-18.67	105.1	-551.9	216.7	202.2	14.50	14.946		
4,100.0	4,081.4	4,091.2	4,046.8	9.6	12.4	-18.68	108.1	-567.5	222.5	207.7	14.86	14.971		
4,200.0	4,180.9	4,191.0	4,145.4	9.9	12.7	-18.68	111.1	-583.0	228.4	213.2	15.23	14.995		
4,300.0	4,280.4	4,290.8	4,243.9	10.1	13.0	-18.69	114.2	-598.6	234.3	218.7	15.60	15.018		
4,400.0	4,379.8	4,390.7	4,342.5	10.4	13.4	-18.69	117.2	-614.2	240.2	224.2	15.97	15.039		
4,500.0	4,479.3	4,490.5	4,441.0	10.6	13.7	-18.70	120.2	-629.8	246.0	229.7	16.34	15.060		
4,600.0	4,578.8	4,590.3	4,539.6	10.9	14.0	-18.70	123.3	-645.4	251.9	235.2	16.71	15.080		
4,700.0	4,678.3	4,690.1	4,638.1	11.1	14.4	-18.70	126.3	-661.0	257.8	240.7	17.07	15.099		
4,800.0	4,777.7	4,790.0	4,736.7	11.4	14.7	-18.71	129.3	-676.6	263.7	246.2	17.44	15.117		
4,900.0	4,877.2	4,889.8	4,835.2	11.7	15.0	-18.71	132.4	-692.1	269.5	251.7	17.81	15.134		
5,000.0	4,976.7	4,989.6	4,933.8	11.9	15.4	-18.72	135.4	-707.7	275.4	257.2	18.18	15.150		
5,100.0	5,076.1	5,089.4	5,032.4	12.2	15.7	-18.72	138.4	-723.3	281.3	262.7	18.55	15.166		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2B-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,189.3	5,130.9	12.4	16.0	-18.72	141.4	-738.9	287.1	268.2	18.91	15.182		
5,300.0	5,275.1	5,289.1	5,229.5	12.7	16.3	-18.73	144.5	-754.5	293.0	273.7	19.28	15.196		
5,400.0	5,374.5	5,388.9	5,328.0	12.9	16.7	-18.73	147.5	-770.1	298.9	279.2	19.65	15.210		
5,500.0	5,474.0	5,488.8	5,426.6	13.2	17.0	-18.73	150.5	-785.7	304.8	284.7	20.02	15.224		
5,600.0	5,573.5	5,588.6	5,525.1	13.4	17.3	-18.73	153.6	-801.2	310.6	290.3	20.39	15.237		
5,700.0	5,673.0	5,688.4	5,623.7	13.7	17.7	-18.74	156.6	-816.8	316.5	295.8	20.75	15.250		
5,800.0	5,772.4	5,788.2	5,722.3	13.9	18.0	-18.74	159.6	-832.4	322.4	301.3	21.12	15.262		
5,900.0	5,871.9	5,888.1	5,820.8	14.2	18.3	-18.74	162.6	-848.0	328.3	306.8	21.49	15.274		
6,000.0	5,971.4	5,987.9	5,919.4	14.4	18.7	-18.74	165.7	-863.6	334.1	312.3	21.86	15.285		
6,100.0	6,070.8	6,087.7	6,017.9	14.7	19.0	-18.75	168.7	-879.2	340.0	317.8	22.23	15.296		
6,200.0	6,170.3	6,187.5	6,116.5	14.9	19.3	-18.75	171.7	-894.8	345.9	323.3	22.60	15.307		
6,300.0	6,269.8	6,287.4	6,215.0	15.2	19.6	-18.75	174.8	-910.4	351.7	328.8	22.96	15.317		
6,400.0	6,369.2	6,387.2	6,313.6	15.4	20.0	-18.75	177.8	-925.9	357.6	334.3	23.33	15.327		
6,500.0	6,468.7	6,487.0	6,412.2	15.7	20.3	-18.76	180.8	-941.5	363.5	339.8	23.70	15.337		
6,600.0	6,568.2	6,586.9	6,510.7	15.9	20.6	-18.76	183.9	-957.1	369.4	345.3	24.07	15.346		
6,700.0	6,667.7	6,686.6	6,609.2	16.1	21.0	32.77	186.9	-972.7	375.2	350.8	24.40	15.377		
6,800.0	6,765.9	6,784.6	6,706.0	16.3	21.3	68.47	189.9	-988.0	381.1	356.7	24.39	15.625		
6,900.0	6,860.0	6,878.0	6,798.2	16.4	21.6	81.18	192.7	-1,002.6	389.3	365.0	24.26	16.049		
7,000.0	6,947.0	6,974.8	6,893.7	16.6	21.9	90.04	191.7	-1,017.7	402.8	378.5	24.29	16.586		
7,100.0	7,024.5	7,085.0	7,000.5	16.7	22.2	97.21	171.8	-1,034.9	420.9	396.3	24.57	17.130		
7,200.0	7,090.0	7,209.7	7,114.3	17.0	22.5	103.25	124.8	-1,053.4	441.8	416.8	25.00	17.668		
7,300.0	7,141.4	7,352.8	7,228.8	17.3	22.8	108.34	41.8	-1,072.4	462.8	437.3	25.49	18.155		
7,400.0	7,177.4	7,516.8	7,330.3	17.8	23.3	112.31	-85.1	-1,089.8	480.8	454.8	26.03	18.468		
7,500.0	7,196.7	7,700.0	7,396.7	18.4	24.0	114.67	-254.6	-1,102.1	492.2	465.4	26.83	18.345		
7,600.0	7,200.0	7,859.9	7,410.0	19.2	24.9	115.11	-413.5	-1,105.9	494.9	466.6	28.29	17.496		
7,700.0	7,200.0	7,959.9	7,410.0	20.1	25.6	115.08	-513.5	-1,106.9	495.4	465.1	30.30	16.348		
7,800.0	7,200.0	8,059.9	7,410.0	21.1	26.4	115.06	-613.5	-1,108.0	495.8	463.3	32.50	15.256		
7,900.0	7,200.0	8,159.9	7,410.0	22.2	27.3	115.03	-713.5	-1,109.0	496.3	461.5	34.85	14.240		
8,000.0	7,200.0	8,259.9	7,410.0	23.3	28.2	115.01	-813.4	-1,110.1	496.8	459.5	37.33	13.308		
8,100.0	7,200.0	8,359.9	7,410.0	24.6	29.3	114.98	-913.4	-1,111.1	497.3	457.4	39.91	12.459		
8,200.0	7,200.0	8,459.9	7,410.0	25.9	30.4	114.96	-1,013.4	-1,112.2	497.7	455.2	42.57	11.691		
8,300.0	7,200.0	8,559.9	7,410.0	27.2	31.5	114.93	-1,113.4	-1,113.2	498.2	452.9	45.31	10.996		
8,400.0	7,200.0	8,659.9	7,410.0	28.6	32.8	114.90	-1,213.4	-1,114.3	498.7	450.6	48.10	10.368		
8,500.0	7,200.0	8,759.9	7,410.0	30.1	34.0	114.88	-1,313.4	-1,115.3	499.2	448.2	50.94	9.800		
8,600.0	7,200.0	8,859.9	7,410.0	31.5	35.3	114.85	-1,413.4	-1,116.3	499.6	445.8	53.82	9.284		
8,700.0	7,200.0	8,959.9	7,410.0	33.0	36.7	114.83	-1,513.4	-1,117.4	500.1	443.4	56.73	8.815		
8,800.0	7,200.0	9,059.9	7,410.0	34.5	38.0	114.80	-1,613.4	-1,118.4	500.6	440.9	59.68	8.388		
8,900.0	7,200.0	9,159.9	7,410.0	36.1	39.4	114.78	-1,713.4	-1,119.5	501.1	438.4	62.65	7.998		
9,000.0	7,200.0	9,259.9	7,410.0	37.6	40.9	114.75	-1,813.4	-1,120.5	501.5	435.9	65.64	7.640		
9,100.0	7,200.0	9,359.9	7,410.0	39.2	42.3	114.73	-1,913.4	-1,121.6	502.0	433.4	68.66	7.312		
9,200.0	7,200.0	9,459.9	7,410.0	40.8	43.8	114.70	-2,013.4	-1,122.6	502.5	430.8	71.69	7.010		
9,300.0	7,200.0	9,559.9	7,410.0	42.4	45.3	114.68	-2,113.4	-1,123.7	503.0	428.2	74.73	6.730		
9,400.0	7,200.0	9,659.9	7,410.0	44.0	46.8	114.65	-2,213.4	-1,124.7	503.4	425.7	77.79	6.471		
9,500.0	7,200.0	9,759.9	7,410.0	45.6	48.4	114.63	-2,313.3	-1,125.8	503.9	423.1	80.87	6.231		
9,600.0	7,200.0	9,859.9	7,410.0	47.3	49.9	114.60	-2,413.3	-1,126.8	504.4	420.4	83.95	6.008		
9,700.0	7,200.0	9,959.9	7,410.0	48.9	51.5	114.58	-2,513.3	-1,127.9	504.9	417.8	87.05	5.800		
9,800.0	7,200.0	10,059.9	7,410.0	50.6	53.0	114.55	-2,613.3	-1,128.9	505.4	415.2	90.15	5.606		
9,900.0	7,200.0	10,159.9	7,410.0	52.2	54.6	114.53	-2,713.3	-1,130.0	505.8	412.6	93.26	5.424		
10,000.0	7,200.0	10,259.9	7,410.0	53.9	56.2	114.51	-2,813.3	-1,131.0	506.3	409.9	96.38	5.253		
10,100.0	7,200.0	10,359.9	7,410.0	55.5	57.8	114.48	-2,913.3	-1,132.1	506.8	407.3	99.51	5.093		
10,200.0	7,200.0	10,459.9	7,410.0	57.2	59.4	114.46	-3,013.3	-1,133.1	507.3	404.6	102.64	4.942		
10,300.0	7,200.0	10,559.9	7,410.0	58.9	61.0	114.43	-3,113.3	-1,134.1	507.7	402.0	105.78	4.800		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2B-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,400.0	7,200.0	10,659.9	7,410.0	60.6	62.7	114.41	-3,213.3	-1,135.2	508.2	399.3	108.92	4.666		
10,500.0	7,200.0	10,759.9	7,410.0	62.3	64.3	114.38	-3,313.3	-1,136.2	508.7	396.6	112.07	4.539		
10,600.0	7,200.0	10,859.9	7,410.0	64.0	65.9	114.36	-3,413.3	-1,137.3	509.2	393.9	115.23	4.419		
10,700.0	7,200.0	10,959.9	7,410.0	65.6	67.6	114.33	-3,513.3	-1,138.3	509.6	391.3	118.39	4.305		
10,800.0	7,200.0	11,059.9	7,410.0	67.3	69.2	114.31	-3,613.3	-1,139.4	510.1	388.6	121.55	4.197		
10,900.0	7,200.0	11,159.9	7,410.0	69.0	70.9	114.29	-3,713.2	-1,140.4	510.6	385.9	124.72	4.094		
11,000.0	7,200.0	11,259.9	7,410.0	70.7	72.6	114.26	-3,813.2	-1,141.5	511.1	383.2	127.89	3.996		
11,100.0	7,200.0	11,359.8	7,410.0	72.4	74.2	114.24	-3,913.2	-1,142.5	511.6	380.5	131.07	3.903		
11,200.0	7,200.0	11,459.8	7,410.0	74.2	75.9	114.21	-4,013.2	-1,143.6	512.0	377.8	134.25	3.814		
11,300.0	7,200.0	11,559.8	7,410.0	75.9	77.6	114.19	-4,113.2	-1,144.6	512.5	375.1	137.43	3.729		
11,400.0	7,200.0	11,659.8	7,410.0	77.6	79.2	114.17	-4,213.2	-1,145.7	513.0	372.4	140.61	3.648		
11,500.0	7,200.0	11,759.8	7,410.0	79.3	80.9	114.14	-4,313.2	-1,146.7	513.5	369.7	143.80	3.571		
11,600.0	7,200.0	11,859.8	7,410.0	81.0	82.6	114.12	-4,413.2	-1,147.8	513.9	366.9	146.99	3.496		
11,700.0	7,200.0	11,959.8	7,410.0	82.7	84.3	114.09	-4,513.2	-1,148.8	514.4	364.2	150.19	3.425		
11,800.0	7,200.0	12,059.8	7,410.0	84.4	86.0	114.07	-4,613.2	-1,149.9	514.9	361.5	153.39	3.357		
11,900.0	7,200.0	12,159.8	7,410.0	86.2	87.7	114.05	-4,713.2	-1,150.9	515.4	358.8	156.59	3.291		
12,000.0	7,200.0	12,263.4	7,410.0	87.9	89.4	114.03	-4,816.8	-1,151.8	515.7	355.9	159.84	3.226		
12,100.0	7,200.0	12,372.4	7,410.0	89.6	91.3	114.09	-4,925.7	-1,151.1	514.6	351.5	163.08	3.156		
12,200.0	7,200.0	12,480.9	7,410.0	91.3	93.1	114.24	-5,034.2	-1,148.3	511.8	345.6	166.20	3.079		
12,300.0	7,200.0	12,580.8	7,410.0	93.0	94.8	114.43	-5,134.0	-1,144.9	508.2	339.0	169.14	3.005		
12,400.0	7,200.0	12,680.7	7,410.0	94.8	96.5	114.61	-5,233.9	-1,141.4	504.6	332.5	172.07	2.932		
12,500.0	7,200.0	12,780.6	7,410.0	96.5	98.1	114.80	-5,333.8	-1,138.0	501.0	326.0	174.98	2.863		
12,600.0	7,200.0	12,880.6	7,410.0	98.2	99.8	114.99	-5,433.6	-1,134.6	497.4	319.5	177.88	2.796		
12,700.0	7,200.0	12,980.5	7,410.0	100.0	101.5	115.19	-5,533.5	-1,131.1	493.8	313.0	180.76	2.732		
12,800.0	7,200.0	13,080.4	7,410.0	101.7	103.2	115.38	-5,633.3	-1,127.7	490.2	306.6	183.63	2.670		
12,900.0	7,200.0	13,180.3	7,410.0	103.4	104.9	115.58	-5,733.2	-1,124.2	486.6	300.1	186.48	2.610		
13,000.0	7,200.0	13,280.2	7,410.0	105.1	106.6	115.79	-5,833.1	-1,120.8	483.0	293.7	189.31	2.552		
13,100.0	7,200.0	13,380.2	7,410.0	106.9	108.3	115.99	-5,932.9	-1,117.4	479.5	287.3	192.13	2.496		
13,200.0	7,200.0	13,480.1	7,410.0	108.6	110.0	116.20	-6,032.8	-1,113.9	475.9	281.0	194.94	2.441		
13,300.0	7,200.0	13,580.0	7,410.0	110.3	111.7	116.41	-6,132.7	-1,110.5	472.4	274.6	197.72	2.389		
13,400.0	7,200.0	13,679.9	7,410.0	112.1	113.4	116.63	-6,232.5	-1,107.0	468.8	268.3	200.48	2.338		
13,500.0	7,200.0	13,779.9	7,410.0	113.8	115.1	116.85	-6,332.4	-1,103.6	465.3	262.0	203.23	2.289		
13,600.0	7,200.0	13,879.8	7,410.0	115.5	116.8	117.07	-6,432.2	-1,100.2	461.7	255.8	205.96	2.242		
13,700.0	7,200.0	13,979.7	7,410.0	117.3	118.5	117.30	-6,532.1	-1,096.7	458.2	249.6	208.66	2.196		
13,800.0	7,200.0	14,079.6	7,410.0	119.0	120.3	117.53	-6,632.0	-1,093.3	454.7	243.3	211.35	2.151		
13,891.9	7,200.0	14,157.7	7,410.0	120.6	121.6	117.71	-6,710.0	-1,090.6	451.7	238.0	213.64	2.114 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2D-14H-C268 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	8.4	8.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	8.4	8.4	8.1	0.30	27.617			
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	8.4	8.4	7.7	0.65	12.848			
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	8.4	8.4	7.4	1.00	8.372			
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	8.4	8.4	7.0	1.35	6.208 CC, ES			
500.0	500.0	500.0	500.0	0.9	0.8	165.18	0.0	8.4	10.1	8.4	1.70	5.921			
600.0	599.8	600.3	600.3	1.0	1.0	167.60	0.8	6.9	13.6	11.5	2.05	6.622			
700.0	699.5	700.6	700.5	1.3	1.2	166.93	3.4	2.3	17.3	14.9	2.40	7.221			
800.0	798.9	800.5	800.2	1.5	1.4	166.20	6.4	-3.3	21.5	18.8	2.75	7.825			
900.0	898.4	900.4	899.9	1.7	1.6	165.72	9.5	-8.8	25.8	22.7	3.11	8.286			
1,000.0	997.9	1,000.3	999.6	1.9	1.8	165.37	12.6	-14.4	30.0	26.5	3.47	8.650			
1,100.0	1,097.3	1,100.3	1,099.3	2.2	2.0	165.10	15.7	-19.9	34.3	30.4	3.83	8.943			
1,200.0	1,196.8	1,200.2	1,199.0	2.4	2.2	164.90	18.7	-25.5	38.5	34.3	4.19	9.185			
1,300.0	1,296.3	1,300.1	1,298.7	2.7	2.4	164.73	21.8	-31.0	42.7	38.2	4.55	9.387			
1,400.0	1,395.7	1,400.0	1,398.4	2.9	2.6	164.60	24.9	-36.6	47.0	42.1	4.91	9.559			
1,500.0	1,495.2	1,499.9	1,498.1	3.2	2.8	164.48	28.0	-42.1	51.2	45.9	5.27	9.707			
1,600.0	1,594.7	1,599.8	1,597.8	3.4	3.0	164.39	31.0	-47.7	55.4	49.8	5.64	9.835			
1,700.0	1,694.2	1,699.7	1,697.5	3.7	3.2	164.31	34.1	-53.3	59.7	53.7	6.00	9.947			
1,800.0	1,793.6	1,799.6	1,797.2	3.9	3.4	164.23	37.2	-58.8	63.9	57.6	6.36	10.046			
1,900.0	1,893.1	1,899.5	1,897.0	4.2	3.6	164.17	40.3	-64.4	68.2	61.4	6.72	10.135			
2,000.0	1,992.6	1,999.4	1,996.7	4.4	3.8	164.12	43.3	-69.9	72.4	65.3	7.09	10.214			
2,100.0	2,092.0	2,099.4	2,096.4	4.6	4.0	164.07	46.4	-75.5	76.6	69.2	7.45	10.285			
2,200.0	2,191.5	2,199.3	2,196.1	4.9	4.2	164.02	49.5	-81.0	80.9	73.1	7.81	10.349			
2,300.0	2,291.0	2,299.2	2,295.8	5.1	4.4	163.99	52.5	-86.6	85.1	76.9	8.18	10.408			
2,400.0	2,390.4	2,399.1	2,395.5	5.4	4.6	163.95	55.6	-92.1	89.3	80.8	8.54	10.461			
2,500.0	2,489.9	2,499.0	2,495.2	5.6	4.9	163.92	58.7	-97.7	93.6	84.7	8.90	10.510			
2,600.0	2,589.4	2,598.9	2,594.9	5.9	5.1	163.89	61.8	-103.3	97.8	88.6	9.27	10.556			
2,700.0	2,688.9	2,698.8	2,694.6	6.1	5.3	163.86	64.8	-108.8	102.1	92.4	9.63	10.597			
2,800.0	2,788.3	2,798.7	2,794.3	6.4	5.5	163.84	67.9	-114.4	106.3	96.3	9.99	10.636			
2,900.0	2,887.8	2,898.6	2,894.0	6.6	5.7	163.81	71.0	-119.9	110.5	100.2	10.36	10.672			
3,000.0	2,987.3	2,998.5	2,993.7	6.9	5.9	163.79	74.1	-125.5	114.8	104.1	10.72	10.705			
3,100.0	3,086.7	3,098.5	3,093.5	7.1	6.1	163.77	77.1	-131.0	119.0	107.9	11.09	10.736			
3,200.0	3,186.2	3,198.4	3,193.2	7.4	6.3	163.75	80.2	-136.6	123.2	111.8	11.45	10.765			
3,300.0	3,285.7	3,298.3	3,292.9	7.6	6.5	163.73	83.3	-142.1	127.5	115.7	11.81	10.793			
3,400.0	3,385.1	3,398.2	3,392.6	7.9	6.7	163.72	86.4	-147.7	131.7	119.5	12.18	10.818			
3,500.0	3,484.6	3,498.1	3,492.3	8.1	6.9	163.70	89.4	-153.2	136.0	123.4	12.54	10.842			
3,600.0	3,584.1	3,598.0	3,592.0	8.4	7.1	163.69	92.5	-158.8	140.2	127.3	12.90	10.865			
3,700.0	3,683.6	3,697.9	3,691.7	8.6	7.3	163.68	95.6	-164.4	144.4	131.2	13.27	10.887			
3,800.0	3,783.0	3,797.8	3,791.4	8.9	7.5	163.66	98.7	-169.9	148.7	135.0	13.63	10.907			
3,900.0	3,882.5	3,897.7	3,891.1	9.1	7.7	163.65	101.7	-175.5	152.9	138.9	14.00	10.926			
4,000.0	3,982.0	3,997.7	3,990.8	9.4	7.9	163.64	104.8	-181.0	157.2	142.8	14.36	10.945			
4,100.0	4,081.4	4,097.6	4,090.5	9.6	8.1	163.63	107.9	-186.6	161.4	146.7	14.72	10.962			
4,200.0	4,180.9	4,197.5	4,190.2	9.9	8.4	163.62	110.9	-192.1	165.6	150.5	15.09	10.979			
4,300.0	4,280.4	4,297.4	4,290.0	10.1	8.6	163.61	114.0	-197.7	169.9	154.4	15.45	10.994			
4,400.0	4,379.8	4,397.3	4,389.7	10.4	8.8	163.60	117.1	-203.2	174.1	158.3	15.81	11.009			
4,500.0	4,479.3	4,497.2	4,489.4	10.6	9.0	163.59	120.2	-208.8	178.3	162.2	16.18	11.024			
4,600.0	4,578.8	4,597.1	4,589.1	10.9	9.2	163.58	123.2	-214.4	182.6	166.0	16.54	11.037			
4,700.0	4,678.3	4,697.0	4,688.8	11.1	9.4	163.58	126.3	-219.9	186.8	169.9	16.91	11.050			
4,800.0	4,777.7	4,796.9	4,788.5	11.4	9.6	163.57	129.4	-225.5	191.1	173.8	17.27	11.063			
4,900.0	4,877.2	4,896.8	4,888.2	11.7	9.8	163.56	132.5	-231.0	195.3	177.7	17.63	11.075			
5,000.0	4,976.7	4,996.8	4,987.9	11.9	10.0	163.55	135.5	-236.6	199.5	181.5	18.00	11.086			
5,100.0	5,076.1	5,096.7	5,087.6	12.2	10.2	163.55	138.6	-242.1	203.8	185.4	18.36	11.098			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2D-14H-C268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,196.6	5,187.3	12.4	10.4	163.54	141.7	-247.7	208.0	189.3	18.73	11.108		
5,300.0	5,275.1	5,296.5	5,287.0	12.7	10.6	163.53	144.8	-253.2	212.3	193.2	19.09	11.118		
5,400.0	5,374.5	5,396.4	5,386.7	12.9	10.8	163.53	147.8	-258.8	216.5	197.0	19.45	11.128		
5,500.0	5,474.0	5,496.3	5,486.5	13.2	11.0	163.52	150.9	-264.3	220.7	200.9	19.82	11.138		
5,600.0	5,573.5	5,596.2	5,586.2	13.4	11.2	163.52	154.0	-269.9	225.0	204.8	20.18	11.147		
5,700.0	5,673.0	5,696.1	5,685.9	13.7	11.5	163.51	157.0	-275.5	229.2	208.7	20.55	11.156		
5,800.0	5,772.4	5,796.0	5,785.6	13.9	11.7	163.51	160.1	-281.0	233.4	212.5	20.91	11.164		
5,900.0	5,871.9	5,895.9	5,885.3	14.2	11.9	163.50	163.2	-286.6	237.7	216.4	21.27	11.172		
6,000.0	5,971.4	5,995.9	5,985.0	14.4	12.1	163.50	166.3	-292.1	241.9	220.3	21.64	11.180		
6,100.0	6,070.8	6,095.8	6,084.7	14.7	12.3	163.49	169.3	-297.7	246.2	224.2	22.00	11.188		
6,200.0	6,170.3	6,195.7	6,184.4	14.9	12.5	163.49	172.4	-303.2	250.4	228.0	22.37	11.195		
6,300.0	6,269.8	6,295.6	6,284.1	15.2	12.7	163.48	175.5	-308.8	254.6	231.9	22.73	11.202		
6,400.0	6,369.2	6,395.5	6,383.8	15.4	12.9	163.48	178.6	-314.3	258.9	235.8	23.09	11.209		
6,500.0	6,468.7	6,495.4	6,483.5	15.7	13.1	163.48	181.6	-319.9	263.1	239.7	23.46	11.216		
6,600.0	6,568.2	6,595.3	6,583.2	15.9	13.3	163.47	184.7	-325.5	267.4	243.5	23.82	11.223		
6,700.0	6,667.7	6,695.1	6,682.9	16.1	13.5	-145.44	187.8	-331.0	271.6	247.4	24.19	11.226		
6,800.0	6,765.9	6,793.2	6,780.8	16.3	13.7	-115.10	190.8	-336.5	276.2	251.5	24.69	11.187		
6,900.0	6,860.0	6,892.1	6,879.4	16.4	13.9	-112.07	190.8	-342.0	283.9	258.7	25.20	11.265		
7,000.0	6,947.0	6,999.2	6,984.7	16.6	14.0	-114.10	173.3	-348.2	294.8	269.4	25.35	11.629		
7,100.0	7,024.5	7,114.5	7,092.3	16.7	14.1	-117.33	132.8	-355.0	307.7	282.6	25.05	12.280		
7,200.0	7,090.0	7,238.9	7,196.7	17.0	14.2	-120.66	66.0	-362.0	321.0	296.6	24.47	13.120		
7,300.0	7,141.4	7,372.9	7,290.2	17.3	14.5	-123.58	-29.3	-368.9	333.1	309.1	23.98	13.893		
7,400.0	7,177.4	7,515.5	7,362.5	17.8	15.0	-125.79	-151.6	-375.2	342.1	318.0	24.10	14.198		
7,500.0	7,196.7	7,664.4	7,403.5	18.4	16.0	-127.05	-294.2	-380.0	346.5	321.2	25.31	13.692		
7,600.0	7,200.0	7,793.5	7,410.0	19.2	17.1	-127.34	-423.0	-382.6	346.2	318.9	27.26	12.701		
7,700.0	7,200.0	7,890.6	7,410.0	20.1	18.1	-127.44	-520.1	-384.0	345.4	316.5	28.91	11.947		
7,707.1	7,200.0	7,897.2	7,410.0	20.2	18.1	-127.44	-526.7	-384.1	345.4	316.4	29.04	11.896		
7,800.0	7,200.0	7,983.9	7,410.0	21.1	19.1	-127.34	-613.4	-383.6	346.2	315.5	30.73	11.266		
7,900.0	7,200.0	8,077.1	7,410.0	22.2	20.2	-127.02	-706.5	-380.8	349.0	316.3	32.74	10.660		
8,000.0	7,200.0	8,170.1	7,410.0	23.3	21.3	-126.48	-799.3	-375.8	353.8	318.8	34.94	10.127		
8,100.0	7,200.0	8,263.6	7,410.0	24.6	22.5	-125.74	-892.6	-368.5	360.5	323.2	37.31	9.662		
8,200.0	7,200.0	8,363.2	7,410.0	25.9	23.8	-124.90	-991.8	-359.8	368.1	328.1	39.92	9.221		
8,300.0	7,200.0	8,462.8	7,410.0	27.2	25.2	-124.10	-1,091.0	-351.1	375.7	333.1	42.62	8.815		
8,400.0	7,200.0	8,562.4	7,410.0	28.6	26.6	-123.33	-1,190.2	-342.4	383.4	338.0	45.41	8.443		
8,500.0	7,200.0	8,661.9	7,410.0	30.1	28.1	-122.58	-1,289.4	-333.7	391.1	342.9	48.27	8.103		
8,600.0	7,200.0	8,761.5	7,410.0	31.5	29.6	-121.87	-1,388.6	-325.1	399.0	347.8	51.21	7.791		
8,700.0	7,200.0	8,861.1	7,410.0	33.0	31.1	-121.18	-1,487.8	-316.4	406.8	352.6	54.20	7.506		
8,800.0	7,200.0	8,960.6	7,410.0	34.5	32.7	-120.52	-1,587.0	-307.7	414.8	357.5	57.25	7.246		
8,900.0	7,200.0	9,060.2	7,410.0	36.1	34.2	-119.89	-1,686.2	-299.0	422.8	362.4	60.34	7.007		
9,000.0	7,200.0	9,159.8	7,410.0	37.6	35.8	-119.28	-1,785.4	-290.4	430.8	367.3	63.47	6.787		
9,100.0	7,200.0	9,259.4	7,410.0	39.2	37.4	-118.69	-1,884.6	-281.7	438.9	372.3	66.65	6.585		
9,200.0	7,200.0	9,358.9	7,410.0	40.8	39.0	-118.12	-1,983.7	-273.0	447.0	377.2	69.85	6.400		
9,300.0	7,200.0	9,458.5	7,410.0	42.4	40.6	-117.57	-2,082.9	-264.3	455.2	382.1	73.09	6.228		
9,400.0	7,200.0	9,558.1	7,410.0	44.0	42.3	-117.04	-2,182.1	-255.6	463.4	387.1	76.35	6.070		
9,500.0	7,200.0	9,657.7	7,410.0	45.6	43.9	-116.54	-2,281.3	-247.0	471.7	392.0	79.64	5.923		
9,600.0	7,200.0	9,757.2	7,410.0	47.3	45.6	-116.04	-2,380.5	-238.3	480.0	397.0	82.95	5.787		
9,700.0	7,200.0	9,856.8	7,410.0	48.9	47.2	-115.57	-2,479.7	-229.6	488.3	402.0	86.27	5.660		
9,800.0	7,200.0	9,956.4	7,410.0	50.6	48.9	-115.11	-2,578.9	-220.9	496.6	407.0	89.62	5.542		
9,900.0	7,200.0	10,055.9	7,410.0	52.2	50.6	-114.66	-2,678.1	-212.3	505.0	412.1	92.98	5.432		
10,000.0	7,200.0	10,155.5	7,410.0	53.9	52.2	-114.23	-2,777.3	-203.6	513.4	417.1	96.36	5.329		
10,100.0	7,200.0	10,255.7	7,410.0	55.5	53.9	-113.82	-2,877.1	-194.8	521.9	422.1	99.76	5.232		
10,200.0	7,200.0	10,369.8	7,410.0	57.2	55.9	-113.43	-2,990.9	-186.8	528.9	425.5	103.37	5.116		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2D-14H-C268 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,300.0	7,200.0	10,484.4	7,410.0	58.9	57.8	-113.21	-3,105.4	-182.1	533.1	426.2	106.90	4.987	
10,400.0	7,200.0	10,599.1	7,410.0	60.6	59.8	-113.13	-3,220.1	-180.8	534.6	424.3	110.33	4.845	
10,500.0	7,200.0	10,707.4	7,410.0	62.3	61.6	-113.18	-3,328.4	-182.5	533.6	420.0	113.58	4.698	
10,600.0	7,200.0	10,807.4	7,410.0	64.0	63.3	-113.24	-3,428.4	-184.6	532.2	415.5	116.68	4.561	
10,700.0	7,200.0	10,907.4	7,410.0	65.6	65.1	-113.31	-3,528.3	-186.7	530.7	410.9	119.79	4.431	
10,800.0	7,200.0	11,007.4	7,410.0	67.3	66.8	-113.38	-3,628.3	-188.8	529.3	406.4	122.89	4.307	
10,900.0	7,200.0	11,107.4	7,410.0	69.0	68.5	-113.45	-3,728.3	-190.9	527.8	401.8	125.99	4.190	
11,000.0	7,200.0	11,211.4	7,410.0	70.7	70.3	-113.53	-3,832.2	-193.3	526.2	397.1	129.14	4.075	
11,100.0	7,200.0	11,313.6	7,410.0	72.4	72.0	-113.65	-3,934.4	-196.7	523.7	391.4	132.23	3.960	
11,200.0	7,200.0	11,413.5	7,410.0	74.2	73.8	-113.78	-4,034.3	-200.0	521.0	385.8	135.27	3.852	
11,300.0	7,200.0	11,513.5	7,410.0	75.9	75.5	-113.91	-4,134.2	-203.4	518.4	380.1	138.31	3.748	
11,400.0	7,200.0	11,613.5	7,410.0	77.6	77.2	-114.03	-4,234.1	-206.8	515.8	374.5	141.34	3.649	
11,500.0	7,200.0	11,713.4	7,410.0	79.3	79.0	-114.16	-4,334.0	-210.2	513.2	368.8	144.36	3.555	
11,600.0	7,200.0	11,813.4	7,410.0	81.0	80.7	-114.30	-4,433.9	-213.6	510.6	363.2	147.38	3.464	
11,700.0	7,200.0	11,913.3	7,410.0	82.7	82.4	-114.43	-4,533.8	-217.0	507.9	357.6	150.39	3.378	
11,800.0	7,200.0	12,013.3	7,410.0	84.4	84.2	-114.56	-4,633.7	-220.4	505.3	351.9	153.39	3.294	
11,900.0	7,200.0	12,113.2	7,410.0	86.2	85.9	-114.70	-4,733.6	-223.8	502.7	346.3	156.39	3.215	
12,000.0	7,200.0	12,213.2	7,410.0	87.9	87.6	-114.84	-4,833.5	-227.2	500.1	340.8	159.37	3.138	
12,100.0	7,200.0	12,313.2	7,410.0	89.6	89.4	-114.98	-4,933.4	-230.6	497.5	335.2	162.35	3.064	
12,200.0	7,200.0	12,413.1	7,410.0	91.3	91.1	-115.12	-5,033.3	-233.9	494.9	329.6	165.33	2.994	
12,300.0	7,200.0	12,513.1	7,410.0	93.0	92.8	-115.26	-5,133.2	-237.3	492.3	324.0	168.29	2.926	
12,400.0	7,200.0	12,613.0	7,410.0	94.8	94.6	-115.40	-5,233.1	-240.7	489.7	318.5	171.24	2.860	
12,500.0	7,200.0	12,713.0	7,410.0	96.5	96.3	-115.55	-5,333.0	-244.1	487.2	313.0	174.19	2.797	
12,600.0	7,200.0	12,813.0	7,410.0	98.2	98.0	-115.69	-5,432.9	-247.5	484.6	307.4	177.12	2.736	
12,700.0	7,200.0	12,912.9	7,410.0	100.0	99.8	-115.84	-5,532.8	-250.9	482.0	301.9	180.05	2.677	
12,800.0	7,200.0	13,012.9	7,410.0	101.7	101.5	-115.99	-5,632.7	-254.3	479.4	296.4	182.96	2.620	
12,900.0	7,200.0	13,112.8	7,410.0	103.4	103.3	-116.14	-5,732.6	-257.7	476.8	291.0	185.86	2.565	
13,000.0	7,200.0	13,212.8	7,410.0	105.1	105.0	-116.29	-5,832.5	-261.1	474.3	285.5	188.76	2.513	
13,100.0	7,200.0	13,312.8	7,410.0	106.9	106.7	-116.45	-5,932.4	-264.4	471.7	280.0	191.64	2.461	
13,200.0	7,200.0	13,412.7	7,410.0	108.6	108.5	-116.60	-6,032.3	-267.8	469.1	274.6	194.51	2.412	
13,300.0	7,200.0	13,512.7	7,410.0	110.3	110.2	-116.76	-6,132.2	-271.2	466.6	269.2	197.37	2.364	
13,400.0	7,200.0	13,612.6	7,410.0	112.1	112.0	-116.92	-6,232.1	-274.6	464.0	263.8	200.21	2.318	
13,500.0	7,200.0	13,712.6	7,410.0	113.8	113.7	-117.08	-6,332.0	-278.0	461.4	258.4	203.05	2.273	
13,600.0	7,200.0	13,812.5	7,410.0	115.5	115.5	-117.24	-6,431.9	-281.4	458.9	253.0	205.87	2.229	
13,700.0	7,200.0	13,912.5	7,410.0	117.3	117.2	-117.41	-6,531.8	-284.8	456.3	247.7	208.68	2.187	
13,800.0	7,200.0	14,012.5	7,410.0	119.0	118.9	-117.57	-6,631.7	-288.2	453.8	242.3	211.47	2.146	
13,889.9	7,200.0	14,090.8	7,410.0	120.6	120.3	-117.71	-6,710.0	-290.8	451.7	237.8	213.83	2.112	
13,891.9	7,200.0	14,090.8	7,410.0	120.6	120.3	-117.71	-6,710.0	-290.8	451.7	237.8	213.86	2.112 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	19.6	19.6				
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	19.6	19.6	19.3	0.30	64.439	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	19.6	19.6	18.9	0.65	29.980	
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	19.6	19.6	18.6	1.00	19.534	
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	19.6	19.6	18.2	1.35	14.486 CC, ES	
500.0	500.0	500.0	500.0	0.9	0.8	163.57	0.0	19.6	21.2	19.5	1.70	12.496	
600.0	599.8	599.8	599.8	1.0	1.0	166.78	0.0	19.6	26.3	24.3	2.05	12.848	
700.0	699.5	699.0	698.9	1.3	1.2	167.45	1.5	20.4	35.5	33.1	2.39	14.844	
800.0	798.9	798.2	798.1	1.5	1.4	166.05	4.7	22.3	47.2	44.4	2.75	17.161	
900.0	898.4	897.5	897.4	1.7	1.6	165.20	7.9	24.2	58.8	55.7	3.11	18.940	
1,000.0	997.9	996.9	996.6	1.9	1.7	164.63	11.1	26.1	70.5	67.0	3.46	20.346	
1,100.0	1,097.3	1,096.2	1,095.9	2.2	1.9	164.22	14.3	28.0	82.1	78.3	3.82	21.483	
1,200.0	1,196.8	1,195.5	1,195.1	2.4	2.1	163.91	17.5	29.9	93.8	89.6	4.18	22.420	
1,300.0	1,296.3	1,294.8	1,294.4	2.7	2.3	163.67	20.7	31.8	105.5	100.9	4.55	23.205	
1,400.0	1,395.7	1,394.1	1,393.6	2.9	2.5	163.48	23.9	33.7	117.2	112.3	4.91	23.873	
1,500.0	1,495.2	1,493.4	1,492.9	3.2	2.6	163.32	27.1	35.6	128.8	123.6	5.27	24.447	
1,600.0	1,594.7	1,592.7	1,592.1	3.4	2.8	163.19	30.3	37.4	140.5	134.9	5.63	24.946	
1,700.0	1,694.2	1,692.1	1,691.3	3.7	3.0	163.08	33.5	39.3	152.2	146.2	6.00	25.384	
1,800.0	1,793.6	1,791.4	1,790.6	3.9	3.2	162.99	36.7	41.2	163.9	157.5	6.36	25.771	
1,900.0	1,893.1	1,890.7	1,889.8	4.2	3.4	162.90	40.0	43.1	175.5	168.8	6.72	26.115	
2,000.0	1,992.6	1,990.0	1,989.1	4.4	3.6	162.83	43.2	45.0	187.2	180.1	7.09	26.423	
2,100.0	2,092.0	2,089.3	2,088.3	4.6	3.8	162.77	46.4	46.9	198.9	191.4	7.45	26.701	
2,200.0	2,191.5	2,188.6	2,187.6	4.9	3.9	162.71	49.6	48.8	210.6	202.8	7.81	26.953	
2,300.0	2,291.0	2,288.0	2,286.8	5.1	4.1	162.66	52.8	50.7	222.2	214.1	8.18	27.182	
2,400.0	2,390.4	2,387.3	2,386.1	5.4	4.3	162.62	56.0	52.6	233.9	225.4	8.54	27.391	
2,500.0	2,489.9	2,486.6	2,485.3	5.6	4.5	162.57	59.2	54.5	245.6	236.7	8.90	27.583	
2,600.0	2,589.4	2,585.9	2,584.6	5.9	4.7	162.54	62.4	56.4	257.3	248.0	9.27	27.759	
2,700.0	2,688.9	2,685.2	2,683.8	6.1	4.9	162.50	65.6	58.2	269.0	259.3	9.63	27.922	
2,800.0	2,788.3	2,784.5	2,783.0	6.4	5.0	162.47	68.8	60.1	280.6	270.6	10.00	28.073	
2,900.0	2,887.8	2,883.9	2,882.3	6.6	5.2	162.44	72.0	62.0	292.3	282.0	10.36	28.213	
3,000.0	2,987.3	2,983.2	2,981.5	6.9	5.4	162.42	75.2	63.9	304.0	293.3	10.73	28.344	
3,100.0	3,086.7	3,082.5	3,080.8	7.1	5.6	162.39	78.4	65.8	315.7	304.6	11.09	28.466	
3,200.0	3,186.2	3,181.8	3,180.0	7.4	5.8	162.37	81.6	67.7	327.3	315.9	11.45	28.580	
3,300.0	3,285.7	3,281.1	3,279.3	7.6	6.0	162.35	84.9	69.6	339.0	327.2	11.82	28.687	
3,400.0	3,385.1	3,380.4	3,378.5	7.9	6.2	162.33	88.1	71.5	350.7	338.5	12.18	28.788	
3,500.0	3,484.6	3,479.7	3,477.8	8.1	6.3	162.31	91.3	73.4	362.4	349.8	12.55	28.882	
3,600.0	3,584.1	3,579.1	3,577.0	8.4	6.5	162.29	94.5	75.3	374.1	361.2	12.91	28.972	
3,700.0	3,683.6	3,678.4	3,676.3	8.6	6.7	162.27	97.7	77.2	385.7	372.5	13.28	29.056	
3,800.0	3,783.0	3,777.7	3,775.5	8.9	6.9	162.26	100.9	79.0	397.4	383.8	13.64	29.136	
3,900.0	3,882.5	3,877.0	3,874.8	9.1	7.1	162.24	104.1	80.9	409.1	395.1	14.00	29.211	
4,000.0	3,982.0	3,976.3	3,974.0	9.4	7.3	162.23	107.3	82.8	420.8	406.4	14.37	29.283	
4,100.0	4,081.4	4,075.6	4,073.2	9.6	7.4	162.22	110.5	84.7	432.5	417.7	14.73	29.351	
4,200.0	4,180.9	4,175.0	4,172.5	9.9	7.6	162.20	113.7	86.6	444.1	429.0	15.10	29.416	
4,300.0	4,280.4	4,274.3	4,271.7	10.1	7.8	162.19	116.9	88.5	455.8	440.4	15.46	29.477	
4,400.0	4,379.8	4,373.6	4,371.0	10.4	8.0	162.18	120.1	90.4	467.5	451.7	15.83	29.536	
4,500.0	4,479.3	4,472.9	4,470.2	10.6	8.2	162.17	123.3	92.3	479.2	463.0	16.19	29.592	
4,600.0	4,578.8	4,572.2	4,569.5	10.9	8.4	162.16	126.6	94.2	490.9	474.3	16.56	29.646	
4,700.0	4,678.3	4,671.5	4,668.7	11.1	8.6	162.15	129.8	96.1	502.5	485.6	16.92	29.697	
4,800.0	4,777.7	4,770.8	4,768.0	11.4	8.7	162.14	133.0	98.0	514.2	496.9	17.29	29.747	
4,900.0	4,877.2	4,870.2	4,867.2	11.7	8.9	162.13	136.2	99.8	525.9	508.2	17.65	29.794	
5,000.0	4,976.7	4,969.5	4,966.5	11.9	9.1	162.13	139.4	101.7	537.6	519.6	18.02	29.839	
5,100.0	5,076.1	5,068.8	5,065.7	12.2	9.3	162.12	142.6	103.6	549.2	530.9	18.38	29.882	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,168.1	5,164.9	12.4	9.5	162.11	145.8	105.5	560.9	542.2	18.75	29.924		
5,300.0	5,275.1	5,267.4	5,264.2	12.7	9.7	162.10	149.0	107.4	572.6	553.5	19.11	29.964		
5,400.0	5,374.5	5,366.7	5,363.4	12.9	9.9	162.09	152.2	109.3	584.3	564.8	19.47	30.003		
5,500.0	5,474.0	5,466.1	5,462.7	13.2	10.0	162.09	155.4	111.2	596.0	576.1	19.84	30.040		
5,600.0	5,573.5	5,565.4	5,561.9	13.4	10.2	162.08	158.6	113.1	607.6	587.4	20.20	30.076		
5,700.0	5,673.0	5,664.7	5,661.2	13.7	10.4	162.08	161.8	115.0	619.3	598.8	20.57	30.110		
5,800.0	5,772.4	5,764.0	5,760.4	13.9	10.6	162.07	165.0	116.9	631.0	610.1	20.93	30.143		
5,900.0	5,871.9	5,863.3	5,859.7	14.2	10.8	162.06	168.3	118.8	642.7	621.4	21.30	30.176		
6,000.0	5,971.4	5,962.6	5,958.9	14.4	11.0	162.06	171.5	120.6	654.4	632.7	21.66	30.207		
6,100.0	6,070.8	6,062.0	6,058.2	14.7	11.1	162.05	174.7	122.5	666.0	644.0	22.03	30.237		
6,200.0	6,170.3	6,161.3	6,157.4	14.9	11.3	162.05	177.9	124.4	677.7	655.3	22.39	30.266		
6,300.0	6,269.8	6,260.6	6,256.7	15.2	11.5	162.04	181.1	126.3	689.4	666.6	22.76	30.294		
6,400.0	6,369.2	6,359.9	6,355.9	15.4	11.7	162.04	184.3	128.2	701.1	678.0	23.12	30.321		
6,500.0	6,468.7	6,459.2	6,455.1	15.7	11.9	162.03	187.5	130.1	712.8	689.3	23.49	30.347		
6,600.0	6,568.2	6,558.5	6,554.4	15.9	12.1	162.03	190.7	132.0	724.4	700.6	23.85	30.373		
6,700.0	6,667.7	6,658.4	6,654.2	16.1	12.2	-145.96	192.1	133.9	736.1	712.0	24.15	30.479		
6,800.0	6,765.9	6,759.1	6,753.9	16.3	12.3	-111.35	178.5	135.6	747.6	723.3	24.29	30.777		
6,900.0	6,860.0	6,860.3	6,850.1	16.4	12.4	-101.67	147.6	137.2	758.5	734.2	24.36	31.142		
7,000.0	6,947.0	6,961.9	6,939.7	16.6	12.4	-97.10	99.9	138.4	768.6	744.2	24.45	31.438		
7,100.0	7,024.5	7,064.0	7,019.8	16.7	12.5	-94.37	37.0	139.4	777.5	752.8	24.68	31.507		
7,200.0	7,090.0	7,166.4	7,087.7	17.0	12.7	-92.56	-39.5	140.0	784.9	759.8	25.16	31.196		
7,300.0	7,141.4	7,269.0	7,141.0	17.3	13.1	-91.32	-127.0	140.2	790.7	764.7	25.99	30.427		
7,400.0	7,177.4	7,371.8	7,177.9	17.8	13.7	-90.53	-222.8	140.1	794.6	767.4	27.20	29.217		
7,500.0	7,196.7	7,474.7	7,197.2	18.4	14.5	-90.09	-323.7	139.6	796.5	767.7	28.78	27.679		
7,600.0	7,200.0	7,576.2	7,200.0	19.2	15.5	-90.00	-425.1	138.7	796.5	765.8	30.68	25.959		
7,700.0	7,200.0	7,676.2	7,200.0	20.1	16.6	-90.00	-525.1	137.9	796.2	763.3	32.88	24.212		
7,800.0	7,200.0	7,776.2	7,200.0	21.1	17.8	-90.00	-625.1	137.0	795.8	760.5	35.29	22.551		
7,900.0	7,200.0	7,876.2	7,200.0	22.2	19.1	-90.00	-725.1	136.1	795.5	757.6	37.87	21.005		
8,000.0	7,200.0	7,976.2	7,200.0	23.3	20.4	-90.00	-825.1	135.2	795.1	754.5	40.59	19.589		
8,100.0	7,200.0	8,076.2	7,200.0	24.6	21.8	-90.00	-925.1	134.4	794.8	751.4	43.42	18.303		
8,200.0	7,200.0	8,176.2	7,200.0	25.9	23.3	-90.00	-1,025.1	133.5	794.4	748.1	46.35	17.141		
8,300.0	7,200.0	8,276.2	7,200.0	27.2	24.8	-90.00	-1,125.1	132.6	794.1	744.7	49.35	16.091		
8,400.0	7,200.0	8,376.2	7,200.0	28.6	26.3	-90.00	-1,225.1	131.8	793.7	741.3	52.41	15.144		
8,500.0	7,200.0	8,476.2	7,200.0	30.1	27.9	-90.00	-1,325.1	130.9	793.4	737.9	55.53	14.287		
8,600.0	7,200.0	8,576.2	7,200.0	31.5	29.4	-90.00	-1,425.1	130.0	793.0	734.3	58.69	13.512		
8,700.0	7,200.0	8,676.2	7,200.0	33.0	31.0	-90.00	-1,525.1	129.1	792.7	730.8	61.89	12.808		
8,800.0	7,200.0	8,776.2	7,200.0	34.5	32.6	-90.00	-1,625.1	128.3	792.3	727.2	65.12	12.167		
8,900.0	7,200.0	8,876.2	7,200.0	36.1	34.3	-90.00	-1,725.1	127.4	792.0	723.6	68.38	11.582		
9,000.0	7,200.0	8,976.2	7,200.0	37.6	35.9	-90.00	-1,825.1	126.5	791.6	720.0	71.66	11.047		
9,100.0	7,200.0	9,076.2	7,200.0	39.2	37.6	-90.00	-1,925.1	125.6	791.3	716.3	74.96	10.556		
9,200.0	7,200.0	9,176.2	7,200.0	40.8	39.2	-90.00	-2,025.0	124.8	790.9	712.7	78.28	10.104		
9,300.0	7,200.0	9,276.2	7,200.0	42.4	40.9	-90.00	-2,125.0	123.9	790.6	709.0	81.62	9.686		
9,400.0	7,200.0	9,376.2	7,200.0	44.0	42.5	-90.00	-2,225.0	123.0	790.2	705.3	84.97	9.300		
9,500.0	7,200.0	9,476.2	7,200.0	45.6	44.2	-90.00	-2,325.0	122.2	789.9	701.6	88.33	8.942		
9,600.0	7,200.0	9,576.2	7,200.0	47.3	45.9	-90.00	-2,425.0	121.3	789.5	697.8	91.70	8.610		
9,700.0	7,200.0	9,676.2	7,200.0	48.9	47.6	-90.00	-2,525.0	120.4	789.2	694.1	95.09	8.300		
9,800.0	7,200.0	9,776.2	7,200.0	50.6	49.3	-90.00	-2,625.0	119.5	788.9	690.4	98.48	8.010		
9,900.0	7,200.0	9,876.2	7,200.0	52.2	51.0	-90.00	-2,725.0	118.7	788.5	686.6	101.88	7.740		
10,000.0	7,200.0	9,976.2	7,200.0	53.9	52.7	-90.00	-2,825.0	117.8	788.2	682.9	105.28	7.486		
10,100.0	7,200.0	10,076.2	7,200.0	55.5	54.4	-90.00	-2,925.0	116.9	787.8	679.1	108.70	7.248		
10,200.0	7,200.0	10,176.2	7,200.0	57.2	56.1	-90.00	-3,025.0	116.0	787.5	675.3	112.12	7.024		
10,300.0	7,200.0	10,276.2	7,200.0	58.9	57.8	-90.00	-3,125.0	115.2	787.1	671.6	115.54	6.812		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,376.2	7,200.0	60.6	59.5	-90.00	-3,225.0	114.3	786.8	667.8	118.97	6.613	
10,500.0	7,200.0	10,476.2	7,200.0	62.3	61.2	-90.00	-3,325.0	113.4	786.4	664.0	122.40	6.425	
10,600.0	7,200.0	10,576.2	7,200.0	64.0	63.0	-90.00	-3,425.0	112.6	786.1	660.2	125.84	6.246	
10,700.0	7,200.0	10,676.2	7,200.0	65.6	64.7	-90.00	-3,525.0	111.7	785.7	656.4	129.28	6.077	
10,800.0	7,200.0	10,776.2	7,200.0	67.3	66.4	-90.00	-3,625.0	110.8	785.4	652.6	132.73	5.917	
10,900.0	7,200.0	10,876.2	7,200.0	69.0	68.1	-90.00	-3,725.0	109.9	785.0	648.8	136.18	5.765	
11,000.0	7,200.0	10,976.2	7,200.0	70.7	69.9	-90.00	-3,825.0	109.1	784.7	645.0	139.63	5.620	
11,100.0	7,200.0	11,076.2	7,200.0	72.4	71.6	-90.00	-3,925.0	108.2	784.3	641.2	143.08	5.482	
11,200.0	7,200.0	11,176.2	7,200.0	74.2	73.3	-90.00	-4,025.0	107.3	784.0	637.4	146.54	5.350	
11,300.0	7,200.0	11,276.1	7,200.0	75.9	75.0	-90.00	-4,125.0	106.4	783.6	633.6	150.00	5.224	
11,400.0	7,200.0	11,376.1	7,200.0	77.6	76.8	-90.00	-4,224.9	105.6	783.3	629.8	153.46	5.104	
11,500.0	7,200.0	11,476.1	7,200.0	79.3	78.5	-90.00	-4,324.9	104.7	782.9	626.0	156.92	4.989	
11,600.0	7,200.0	11,576.1	7,200.0	81.0	80.2	-90.00	-4,424.9	103.8	782.6	622.2	160.39	4.879	
11,700.0	7,200.0	11,676.1	7,200.0	82.7	82.0	-90.00	-4,524.9	103.0	782.2	618.4	163.85	4.774	
11,800.0	7,200.0	11,776.1	7,200.0	84.4	83.7	-90.00	-4,624.9	102.1	781.9	614.5	167.32	4.673	
11,900.0	7,200.0	11,876.1	7,200.0	86.2	85.4	-90.00	-4,724.9	101.2	781.5	610.7	170.79	4.576	
12,000.0	7,200.0	11,976.1	7,200.0	87.9	87.2	-90.00	-4,824.9	100.3	781.2	606.9	174.26	4.483	
12,100.0	7,200.0	12,076.1	7,200.0	89.6	88.9	-90.00	-4,924.9	99.5	780.8	603.1	177.74	4.393	
12,200.0	7,200.0	12,176.1	7,200.0	91.3	90.6	-90.00	-5,024.9	98.6	780.5	599.3	181.21	4.307	
12,300.0	7,200.0	12,276.1	7,200.0	93.0	92.4	-90.00	-5,124.9	97.7	780.1	595.4	184.69	4.224	
12,400.0	7,200.0	12,376.1	7,200.0	94.8	94.1	-90.00	-5,224.9	96.9	779.8	591.6	188.16	4.144	
12,500.0	7,200.0	12,476.1	7,200.0	96.5	95.9	-90.00	-5,324.9	96.0	779.4	587.8	191.64	4.067	
12,600.0	7,200.0	12,576.1	7,200.0	98.2	97.6	-90.00	-5,424.9	95.1	779.1	584.0	195.12	3.993	
12,700.0	7,200.0	12,676.1	7,200.0	100.0	99.3	-90.00	-5,524.9	94.2	778.7	580.1	198.60	3.921	
12,800.0	7,200.0	12,776.1	7,200.0	101.7	101.1	-90.00	-5,624.9	93.4	778.4	576.3	202.08	3.852	
12,900.0	7,200.0	12,876.1	7,200.0	103.4	102.8	-90.00	-5,724.9	92.5	778.0	572.5	205.57	3.785	
13,000.0	7,200.0	12,976.1	7,200.0	105.1	104.6	-90.00	-5,824.9	91.6	777.7	568.6	209.05	3.720	
13,100.0	7,200.0	13,076.1	7,200.0	106.9	106.3	-90.00	-5,924.9	90.7	777.3	564.8	212.53	3.657	
13,200.0	7,200.0	13,176.1	7,200.0	108.6	108.0	-90.00	-6,024.9	89.9	777.0	561.0	216.02	3.597	
13,300.0	7,200.0	13,276.1	7,200.0	110.3	109.8	-90.00	-6,124.9	89.0	776.6	557.1	219.50	3.538	
13,400.0	7,200.0	13,376.1	7,200.0	112.1	111.5	-90.00	-6,224.9	88.1	776.3	553.3	222.99	3.481	
13,500.0	7,200.0	13,476.1	7,200.0	113.8	113.3	-90.00	-6,324.9	87.3	775.9	549.5	226.48	3.426	
13,600.0	7,200.0	13,576.1	7,200.0	115.5	115.0	-90.00	-6,424.9	86.4	775.6	545.6	229.96	3.373	
13,700.0	7,200.0	13,676.1	7,200.0	117.3	116.8	-90.00	-6,524.8	85.5	775.2	541.8	233.45	3.321	
13,800.0	7,200.0	13,776.1	7,200.0	119.0	118.5	-90.00	-6,624.8	84.6	774.9	538.0	236.94	3.270	
13,875.1	7,200.0	13,851.2	7,200.0	120.3	119.8	-90.00	-6,699.9	84.0	774.6	535.1	239.56	3.234	
13,891.9	7,200.0	13,861.3	7,200.0	120.6	120.0	-90.00	-6,710.0	83.9	774.6	534.6	240.03	3.227 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2F-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	28.0	28.0	27.7	0.30	92.056		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	28.0	28.0	27.3	0.65	42.828		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	28.0	28.0	27.0	1.00	27.906		
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	28.0	28.0	26.6	1.35	20.695 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	163.16	0.0	28.0	29.6	27.9	1.70	17.430 SF		
600.0	599.8	598.7	598.7	1.0	1.0	164.60	0.5	29.6	36.3	34.2	2.05	17.730		
700.0	699.5	696.5	696.3	1.3	1.2	165.08	2.1	34.3	49.4	47.1	2.39	20.687		
800.0	798.9	793.1	792.6	1.5	1.4	164.67	4.7	42.2	67.3	64.5	2.74	24.545		
900.0	898.4	891.2	890.2	1.7	1.6	164.05	7.9	51.6	86.5	83.5	3.10	27.963		
1,000.0	997.9	989.3	987.8	1.9	1.8	163.66	11.0	61.0	105.8	102.4	3.45	30.668		
1,100.0	1,097.3	1,087.4	1,085.4	2.2	2.1	163.39	14.2	70.4	125.1	121.3	3.81	32.859		
1,200.0	1,196.8	1,185.6	1,183.0	2.4	2.3	163.19	17.3	79.9	144.4	140.3	4.17	34.669		
1,300.0	1,296.3	1,283.7	1,280.6	2.7	2.5	163.03	20.5	89.3	163.7	159.2	4.52	36.189		
1,400.0	1,395.7	1,381.8	1,378.3	2.9	2.8	162.91	23.6	98.7	183.0	178.1	4.88	37.483		
1,500.0	1,495.2	1,479.9	1,475.9	3.2	3.0	162.82	26.8	108.2	202.3	197.1	5.24	38.597		
1,600.0	1,594.7	1,578.0	1,573.5	3.4	3.2	162.73	29.9	117.6	221.6	216.0	5.60	39.566		
1,700.0	1,694.2	1,676.2	1,671.1	3.7	3.5	162.67	33.1	127.0	240.9	235.0	5.96	40.418		
1,800.0	1,793.6	1,774.3	1,768.7	3.9	3.7	162.61	36.2	136.4	260.2	253.9	6.32	41.171		
1,900.0	1,893.1	1,872.4	1,866.3	4.2	4.0	162.56	39.4	145.9	279.5	272.8	6.68	41.842		
2,000.0	1,992.6	1,970.5	1,963.9	4.4	4.2	162.52	42.5	155.3	298.8	291.8	7.04	42.444		
2,100.0	2,092.0	2,068.6	2,061.6	4.6	4.4	162.48	45.7	164.7	318.1	310.7	7.40	42.986		
2,200.0	2,191.5	2,166.7	2,159.2	4.9	4.7	162.45	48.8	174.1	337.4	329.7	7.76	43.478		
2,300.0	2,291.0	2,264.9	2,256.8	5.1	4.9	162.42	51.9	183.6	356.7	348.6	8.12	43.925		
2,400.0	2,390.4	2,363.0	2,354.4	5.4	5.2	162.39	55.1	193.0	376.0	367.6	8.48	44.335		
2,500.0	2,489.9	2,461.1	2,452.0	5.6	5.4	162.36	58.2	202.4	395.3	386.5	8.84	44.710		
2,600.0	2,589.4	2,559.2	2,549.6	5.9	5.6	162.34	61.4	211.8	414.6	405.4	9.20	45.056		
2,700.0	2,688.9	2,657.3	2,647.2	6.1	5.9	162.32	64.5	221.3	433.9	424.4	9.56	45.376		
2,800.0	2,788.3	2,755.5	2,744.9	6.4	6.1	162.30	67.7	230.7	453.2	443.3	9.92	45.672		
2,900.0	2,887.8	2,853.6	2,842.5	6.6	6.4	162.29	70.8	240.1	472.5	462.3	10.28	45.947		
3,000.0	2,987.3	2,951.7	2,940.1	6.9	6.6	162.27	74.0	249.6	491.8	481.2	10.65	46.203		
3,100.0	3,086.7	3,049.8	3,037.7	7.1	6.9	162.26	77.1	259.0	511.1	500.1	11.01	46.443		
3,200.0	3,186.2	3,147.9	3,135.3	7.4	7.1	162.24	80.3	268.4	530.5	519.1	11.37	46.667		
3,300.0	3,285.7	3,246.1	3,232.9	7.6	7.3	162.23	83.4	277.8	549.8	538.0	11.73	46.877		
3,400.0	3,385.1	3,344.2	3,330.6	7.9	7.6	162.22	86.6	287.3	569.1	557.0	12.09	47.075		
3,500.0	3,484.6	3,442.3	3,428.2	8.1	7.8	162.21	89.7	296.7	588.4	575.9	12.45	47.261		
3,600.0	3,584.1	3,540.4	3,525.8	8.4	8.1	162.20	92.9	306.1	607.7	594.8	12.81	47.436		
3,700.0	3,683.6	3,638.5	3,623.4	8.6	8.3	162.19	96.0	315.5	627.0	613.8	13.17	47.602		
3,800.0	3,783.0	3,736.7	3,721.0	8.9	8.6	162.18	99.2	325.0	646.3	632.7	13.53	47.759		
3,900.0	3,882.5	3,834.8	3,818.6	9.1	8.8	162.17	102.3	334.4	665.6	651.7	13.89	47.908		
4,000.0	3,982.0	3,932.9	3,916.2	9.4	9.1	162.16	105.5	343.8	684.9	670.6	14.25	48.049		
4,100.0	4,081.4	4,031.0	4,013.9	9.6	9.3	162.16	108.6	353.3	704.2	689.6	14.61	48.183		
4,200.0	4,180.9	4,129.1	4,111.5	9.9	9.5	162.15	111.7	362.7	723.5	708.5	14.98	48.311		
4,300.0	4,280.4	4,227.3	4,209.1	10.1	9.8	162.14	114.9	372.1	742.8	727.4	15.34	48.432		
4,400.0	4,379.8	4,325.4	4,306.7	10.4	10.0	162.14	118.0	381.5	762.1	746.4	15.70	48.548		
4,500.0	4,479.3	4,423.5	4,404.3	10.6	10.3	162.13	121.2	391.0	781.4	765.3	16.06	48.659		
4,600.0	4,578.8	4,521.6	4,501.9	10.9	10.5	162.12	124.3	400.4	800.7	784.3	16.42	48.765		
4,700.0	4,678.3	4,619.7	4,599.5	11.1	10.8	162.12	127.5	409.8	820.0	803.2	16.78	48.866		
4,800.0	4,777.7	4,717.9	4,697.2	11.4	11.0	162.11	130.6	419.2	839.3	822.1	17.14	48.963		
4,900.0	4,877.2	4,816.0	4,794.8	11.7	11.2	162.11	133.8	428.7	858.6	841.1	17.50	49.056		
5,000.0	4,976.7	4,914.1	4,892.4	11.9	11.5	162.10	136.9	438.1	877.9	860.0	17.86	49.145		
5,100.0	5,076.1	5,012.2	4,990.0	12.2	11.7	162.10	140.1	447.5	897.2	879.0	18.22	49.231		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2F-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,110.3	5,087.6	12.4	12.0	162.10	143.2	456.9	916.5	897.9	18.59	49.313		
5,300.0	5,275.1	5,208.5	5,185.2	12.7	12.2	162.09	146.4	466.4	935.8	916.9	18.95	49.392		
5,400.0	5,374.5	5,306.6	5,282.8	12.9	12.5	162.09	149.5	475.8	955.1	935.8	19.31	49.468		
5,500.0	5,474.0	5,404.7	5,380.5	13.2	12.7	162.08	152.7	485.2	974.4	954.7	19.67	49.541		
5,600.0	5,573.5	5,502.8	5,478.1	13.4	13.0	162.08	155.8	494.7	993.7	973.7	20.03	49.612		
5,700.0	5,673.0	5,600.9	5,575.7	13.7	13.2	162.08	159.0	504.1	1,013.0	992.6	20.39	49.680		
5,800.0	5,772.4	5,699.0	5,673.3	13.9	13.4	162.07	162.1	513.5	1,032.3	1,011.6	20.75	49.746		
5,900.0	5,871.9	5,797.2	5,770.9	14.2	13.7	162.07	165.2	522.9	1,051.6	1,030.5	21.11	49.810		
6,000.0	5,971.4	5,895.3	5,868.5	14.4	13.9	162.07	168.4	532.4	1,070.9	1,049.4	21.47	49.871		
6,100.0	6,070.8	5,993.4	5,966.2	14.7	14.2	162.06	171.5	541.8	1,090.2	1,068.4	21.83	49.930		
6,200.0	6,170.3	6,091.5	6,063.8	14.9	14.4	162.06	174.7	551.2	1,109.5	1,087.3	22.20	49.988		
6,300.0	6,269.8	6,189.6	6,161.4	15.2	14.7	162.06	177.8	560.6	1,128.8	1,106.3	22.56	50.043		
6,400.0	6,369.2	6,287.8	6,259.0	15.4	14.9	162.05	181.0	570.1	1,148.1	1,125.2	22.92	50.097		
6,500.0	6,468.7	6,385.9	6,356.6	15.7	15.1	162.05	184.1	579.5	1,167.4	1,144.1	23.28	50.149		
6,600.0	6,568.2	6,484.0	6,454.2	15.9	15.4	162.05	187.3	588.9	1,186.7	1,163.1	23.64	50.200		
6,700.0	6,667.7	6,582.0	6,551.7	16.1	15.6	-145.55	190.4	598.3	1,206.0	1,182.1	23.98	50.297		
6,800.0	6,765.9	6,678.3	6,647.5	16.3	15.9	-110.84	193.5	607.6	1,225.3	1,201.1	24.26	50.509		
6,900.0	6,860.0	6,770.0	6,738.7	16.4	16.1	-101.67	196.4	616.4	1,244.7	1,220.2	24.50	50.813		
7,000.0	6,947.0	6,854.8	6,823.1	16.6	16.3	-97.92	199.2	624.5	1,265.0	1,240.3	24.72	51.180		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2G-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	11.0	11.0	0.0	0.0	89.99	0.0	39.1	39.1					
100.0	100.0	111.0	111.0	0.2	0.2	89.99	0.0	39.1	39.1	38.8	0.30	128.879		
200.0	200.0	211.0	211.0	0.3	0.3	89.99	0.0	39.1	39.1	38.5	0.65	59.960		
300.0	300.0	311.0	311.0	0.5	0.5	89.99	0.0	39.1	39.1	38.1	1.00	39.068		
362.5	362.5	373.5	373.5	0.6	0.6	89.99	0.0	39.1	39.1	37.9	1.22	32.077 CC		
400.0	400.0	410.9	410.9	0.7	0.7	89.99	0.0	39.2	39.2	37.8	1.35	28.989 ES		
500.0	500.0	509.4	509.4	0.9	0.9	162.19	0.5	41.2	42.9	41.2	1.70	25.260 SF		
600.0	599.8	607.3	607.1	1.0	1.0	162.50	1.7	46.4	53.2	51.2	2.04	26.062		
700.0	699.5	703.8	703.2	1.3	1.2	162.85	3.6	54.8	70.1	67.7	2.39	29.396		
800.0	798.9	800.0	798.7	1.5	1.5	162.90	6.3	66.3	91.7	89.0	2.74	33.530		
900.0	898.4	895.4	893.1	1.7	1.7	162.67	9.4	79.8	115.5	112.4	3.09	37.416		
1,000.0	997.9	992.5	989.1	1.9	2.0	162.50	12.6	93.6	139.3	135.8	3.44	40.483		
1,100.0	1,097.3	1,089.6	1,085.2	2.2	2.3	162.39	15.8	107.3	163.1	159.3	3.80	42.968		
1,200.0	1,196.8	1,186.7	1,181.3	2.4	2.6	162.30	18.9	121.1	186.9	182.7	4.15	45.020		
1,300.0	1,296.3	1,283.9	1,277.4	2.7	2.9	162.23	22.1	134.9	210.7	206.2	4.51	46.744		
1,400.0	1,395.7	1,381.0	1,373.5	2.9	3.2	162.18	25.3	148.7	234.5	229.6	4.86	48.212		
1,500.0	1,495.2	1,478.1	1,469.6	3.2	3.5	162.14	28.5	162.5	258.3	253.1	5.22	49.476		
1,600.0	1,594.7	1,575.2	1,565.7	3.4	3.8	162.10	31.7	176.2	282.1	276.5	5.58	50.577		
1,700.0	1,694.2	1,672.4	1,661.8	3.7	4.0	162.07	34.9	190.0	305.9	300.0	5.94	51.543		
1,800.0	1,793.6	1,769.5	1,757.9	3.9	4.3	162.04	38.1	203.8	329.7	323.4	6.29	52.398		
1,900.0	1,893.1	1,866.6	1,853.9	4.2	4.6	162.02	41.2	217.6	353.5	346.9	6.65	53.160		
2,000.0	1,992.6	1,963.7	1,950.0	4.4	4.9	162.00	44.4	231.4	377.3	370.3	7.01	53.844		
2,100.0	2,092.0	2,060.9	2,046.1	4.6	5.2	161.98	47.6	245.1	401.1	393.8	7.37	54.460		
2,200.0	2,191.5	2,158.0	2,142.2	4.9	5.5	161.97	50.8	258.9	425.0	417.2	7.72	55.019		
2,300.0	2,291.0	2,255.1	2,238.3	5.1	5.8	161.95	54.0	272.7	448.8	440.7	8.08	55.527		
2,400.0	2,390.4	2,352.2	2,334.4	5.4	6.1	161.94	57.2	286.5	472.6	464.1	8.44	55.992		
2,500.0	2,489.9	2,449.4	2,430.5	5.6	6.4	161.93	60.3	300.3	496.4	487.6	8.80	56.419		
2,600.0	2,589.4	2,546.5	2,526.6	5.9	6.7	161.92	63.5	314.1	520.2	511.0	9.16	56.812		
2,700.0	2,688.9	2,643.6	2,622.7	6.1	7.0	161.91	66.7	327.8	544.0	534.5	9.51	57.176		
2,800.0	2,788.3	2,740.7	2,718.8	6.4	7.3	161.90	69.9	341.6	567.8	557.9	9.87	57.512		
2,900.0	2,887.8	2,837.9	2,814.8	6.6	7.6	161.89	73.1	355.4	591.6	581.4	10.23	57.825		
3,000.0	2,987.3	2,935.0	2,910.9	6.9	7.9	161.89	76.3	369.2	615.4	604.8	10.59	58.117		
3,100.0	3,086.7	3,032.1	3,007.0	7.1	8.2	161.88	79.5	383.0	639.2	628.3	10.95	58.389		
3,200.0	3,186.2	3,129.2	3,103.1	7.4	8.5	161.87	82.6	396.7	663.0	651.7	11.31	58.644		
3,300.0	3,285.7	3,226.4	3,199.2	7.6	8.8	161.87	85.8	410.5	686.8	675.2	11.66	58.883		
3,400.0	3,385.1	3,323.5	3,295.3	7.9	9.1	161.86	89.0	424.3	710.7	698.6	12.02	59.108		
3,500.0	3,484.6	3,420.6	3,391.4	8.1	9.4	161.86	92.2	438.1	734.5	722.1	12.38	59.320		
3,600.0	3,584.1	3,517.7	3,487.5	8.4	9.7	161.85	95.4	451.9	758.3	745.5	12.74	59.519		
3,700.0	3,683.6	3,614.9	3,583.6	8.6	10.0	161.85	98.6	465.6	782.1	769.0	13.10	59.708		
3,800.0	3,783.0	3,712.0	3,679.6	8.9	10.3	161.85	101.7	479.4	805.9	792.4	13.46	59.887		
3,900.0	3,882.5	3,809.1	3,775.7	9.1	10.6	161.84	104.9	493.2	829.7	815.9	13.82	60.056		
4,000.0	3,982.0	3,906.2	3,871.8	9.4	10.9	161.84	108.1	507.0	853.5	839.3	14.17	60.217		
4,100.0	4,081.4	4,003.3	3,967.9	9.6	11.2	161.83	111.3	520.8	877.3	862.8	14.53	60.369		
4,200.0	4,180.9	4,100.5	4,064.0	9.9	11.5	161.83	114.5	534.6	901.1	886.2	14.89	60.514		
4,300.0	4,280.4	4,197.6	4,160.1	10.1	11.8	161.83	117.7	548.3	924.9	909.7	15.25	60.653		
4,400.0	4,379.8	4,294.7	4,256.2	10.4	12.1	161.82	120.8	562.1	948.7	933.1	15.61	60.785		
4,500.0	4,479.3	4,391.8	4,352.3	10.6	12.4	161.82	124.0	575.9	972.5	956.6	15.97	60.911		
4,600.0	4,578.8	4,489.0	4,448.4	10.9	12.7	161.82	127.2	589.7	996.4	980.0	16.33	61.031		
4,700.0	4,678.3	4,586.1	4,544.4	11.1	13.0	161.82	130.4	603.5	1,020.2	1,003.5	16.68	61.147		
4,800.0	4,777.7	4,683.2	4,640.5	11.4	13.3	161.81	133.6	617.2	1,044.0	1,026.9	17.04	61.257		
4,900.0	4,877.2	4,780.3	4,736.6	11.7	13.6	161.81	136.8	631.0	1,067.8	1,050.4	17.40	61.363		
5,000.0	4,976.7	4,877.5	4,832.7	11.9	13.9	161.81	140.0	644.8	1,091.6	1,073.8	17.76	61.464		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2G-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.1	4,974.6	4,928.8	12.2	14.2	161.81	143.1	658.6	1,115.4	1,097.3	18.12	61.562		
5,200.0	5,175.6	5,071.7	5,024.9	12.4	14.5	161.80	146.3	672.4	1,139.2	1,120.7	18.48	61.655		
5,300.0	5,275.1	5,168.8	5,121.0	12.7	14.8	161.80	149.5	686.1	1,163.0	1,144.2	18.84	61.745		
5,400.0	5,374.5	5,266.0	5,217.1	12.9	15.2	161.80	152.7	699.9	1,186.8	1,167.6	19.19	61.832		
5,500.0	5,474.0	5,363.1	5,313.2	13.2	15.5	161.80	155.9	713.7	1,210.6	1,191.1	19.55	61.916		
5,600.0	5,573.5	5,460.2	5,409.2	13.4	15.8	161.80	159.1	727.5	1,234.4	1,214.5	19.91	61.996		
5,700.0	5,673.0	5,557.3	5,505.3	13.7	16.1	161.80	162.2	741.3	1,258.2	1,238.0	20.27	62.074		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2A-14H-C268 - Hz - Plan #1												Offset Site Error: 0.0 ft			
Survey Program: 0-MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-178.84	-553.7	-11.2	553.8						
100.0	100.0	100.0	100.0	0.2	0.2	-178.84	-553.7	-11.2	553.8	553.5	0.30	1,823.649			
200.0	200.0	200.0	200.0	0.3	0.3	-178.84	-553.7	-11.2	553.8	553.2	0.65	848.436	CC		
300.0	300.0	298.4	298.4	0.5	0.5	-178.67	-553.8	-12.9	554.0	553.0	1.00	554.345	ES		
400.0	400.0	396.7	396.5	0.7	0.7	-178.15	-554.1	-17.9	554.4	553.1	1.35	411.824			
500.0	500.0	494.6	494.0	0.9	0.9	-105.29	-554.6	-26.3	555.7	554.0	1.76	314.958			
600.0	599.8	592.2	591.0	1.0	1.2	-104.55	-555.3	-37.9	558.4	556.2	2.21	252.726			
700.0	699.5	689.5	687.2	1.3	1.5	-103.80	-556.2	-52.8	562.4	559.7	2.72	206.636			
800.0	798.9	786.5	782.4	1.5	1.8	-102.96	-557.3	-70.9	567.4	564.1	3.30	172.179			
900.0	898.4	882.9	876.5	1.7	2.2	-101.81	-558.5	-92.0	573.0	569.1	3.92	146.324			
1,000.0	997.9	981.9	972.7	1.9	2.7	-100.53	-559.9	-115.1	579.1	574.5	4.56	126.850			
1,100.0	1,097.3	1,080.9	1,069.0	2.2	3.1	-99.27	-561.3	-138.1	585.5	580.2	5.22	112.149			
1,200.0	1,196.8	1,179.8	1,165.2	2.4	3.5	-98.04	-562.7	-161.1	592.1	586.2	5.88	100.725			
1,300.0	1,296.3	1,278.8	1,261.5	2.7	4.0	-96.84	-564.0	-184.1	599.1	592.5	6.54	91.636			
1,400.0	1,395.7	1,377.8	1,357.7	2.9	4.4	-95.66	-565.4	-207.1	606.3	599.1	7.19	84.262			
1,500.0	1,495.2	1,476.7	1,453.9	3.2	4.8	-94.52	-566.8	-230.2	613.7	605.9	7.85	78.179			
1,600.0	1,594.7	1,575.7	1,550.2	3.4	5.3	-93.40	-568.1	-253.2	621.4	612.9	8.50	73.090			
1,700.0	1,694.2	1,674.7	1,646.4	3.7	5.7	-92.30	-569.5	-276.2	629.3	620.2	9.15	68.781			
1,800.0	1,793.6	1,773.6	1,742.7	3.9	6.2	-91.24	-570.9	-299.2	637.5	627.7	9.79	65.095			
1,900.0	1,893.1	1,872.6	1,838.9	4.2	6.6	-90.20	-572.3	-322.3	645.9	635.4	10.43	61.913			
2,000.0	1,992.6	1,971.6	1,935.1	4.4	7.1	-89.19	-573.6	-345.3	654.4	643.4	11.06	59.144			
2,100.0	2,092.0	2,070.5	2,031.4	4.6	7.5	-88.20	-575.0	-368.3	663.2	651.5	11.69	56.718			
2,200.0	2,191.5	2,169.5	2,127.6	4.9	8.0	-87.24	-576.4	-391.3	672.2	659.9	12.32	54.579			
2,300.0	2,291.0	2,268.4	2,223.9	5.1	8.4	-86.31	-577.8	-414.3	681.3	668.4	12.93	52.684			
2,400.0	2,390.4	2,367.4	2,320.1	5.4	8.8	-85.40	-579.1	-437.4	690.6	677.1	13.54	50.995			
2,500.0	2,489.9	2,466.4	2,416.3	5.6	9.3	-84.51	-580.5	-460.4	700.1	686.0	14.15	49.485			
2,600.0	2,589.4	2,565.3	2,512.6	5.9	9.7	-83.65	-581.9	-483.4	709.8	695.1	14.75	48.128			
2,700.0	2,688.9	2,664.3	2,608.8	6.1	10.2	-82.81	-583.3	-506.4	719.6	704.3	15.34	46.904			
2,800.0	2,788.3	2,763.3	2,705.1	6.4	10.6	-82.00	-584.6	-529.4	729.6	713.7	15.93	45.798			
2,900.0	2,887.8	2,862.2	2,801.3	6.6	11.1	-81.20	-586.0	-552.5	739.7	723.2	16.51	44.794			
3,000.0	2,987.3	2,961.2	2,897.5	6.9	11.5	-80.43	-587.4	-575.5	750.0	732.9	17.09	43.881			
3,100.0	3,086.7	3,060.2	2,993.8	7.1	12.0	-79.68	-588.7	-598.5	760.3	742.7	17.66	43.048			
3,200.0	3,186.2	3,159.1	3,090.0	7.4	12.4	-78.94	-590.1	-621.5	770.9	752.6	18.23	42.286			
3,300.0	3,285.7	3,258.1	3,186.2	7.6	12.9	-78.23	-591.5	-644.5	781.5	762.7	18.79	41.589			
3,400.0	3,385.1	3,357.1	3,282.5	7.9	13.3	-77.54	-592.9	-667.6	792.2	772.9	19.35	40.948			
3,500.0	3,484.6	3,456.0	3,378.7	8.1	13.8	-76.86	-594.2	-690.6	803.1	783.2	19.90	40.359			
3,600.0	3,584.1	3,555.0	3,475.0	8.4	14.2	-76.21	-595.6	-713.6	814.1	793.6	20.45	39.817			
3,700.0	3,683.6	3,653.9	3,571.2	8.6	14.7	-75.57	-597.0	-736.6	825.2	804.2	20.99	39.316			
3,800.0	3,783.0	3,752.9	3,667.4	8.9	15.1	-74.94	-598.4	-759.7	836.3	814.8	21.53	38.853			
3,900.0	3,882.5	3,851.9	3,763.7	9.1	15.5	-74.34	-599.7	-782.7	847.6	825.5	22.06	38.425			
4,000.0	3,982.0	3,950.8	3,859.9	9.4	16.0	-73.75	-601.1	-805.7	859.0	836.4	22.59	38.028			
4,100.0	4,081.4	4,049.8	3,956.2	9.6	16.4	-73.17	-602.5	-828.7	870.4	847.3	23.11	37.660			
4,200.0	4,180.9	4,148.8	4,052.4	9.9	16.9	-72.61	-603.9	-851.7	882.0	858.3	23.63	37.318			
4,300.0	4,280.4	4,247.7	4,148.6	10.1	17.3	-72.06	-605.2	-874.8	893.6	869.4	24.15	37.000			
4,400.0	4,379.8	4,346.7	4,244.9	10.4	17.8	-71.53	-606.6	-897.8	905.3	880.6	24.66	36.704			
4,500.0	4,479.3	4,445.7	4,341.1	10.6	18.2	-71.01	-608.0	-920.8	917.1	891.9	25.17	36.428			
4,600.0	4,578.8	4,544.6	4,437.4	10.9	18.7	-70.51	-609.4	-943.8	928.9	903.2	25.68	36.171			
4,700.0	4,678.3	4,643.6	4,533.6	11.1	19.1	-70.02	-610.7	-966.8	940.8	914.6	26.18	35.931			
4,800.0	4,777.7	4,742.5	4,629.8	11.4	19.6	-69.54	-612.1	-989.9	952.8	926.1	26.68	35.707			
4,900.0	4,877.2	4,841.5	4,726.1	11.7	20.0	-69.07	-613.5	-1,012.9	964.8	937.7	27.18	35.498			
5,000.0	4,976.7	4,940.5	4,822.3	11.9	20.5	-68.61	-614.8	-1,035.9	977.0	949.3	27.67	35.303			
5,100.0	5,076.1	5,039.4	4,918.6	12.2	20.9	-68.16	-616.2	-1,058.9	989.1	961.0	28.16	35.119			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2A-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,138.4	5,014.8	12.4	21.4	-67.73	-617.6	-1,081.9	1,001.4	972.7	28.65	34.948		
5,300.0	5,275.1	5,237.4	5,111.0	12.7	21.8	-67.31	-619.0	-1,105.0	1,013.6	984.5	29.14	34.788		
5,400.0	5,374.5	5,336.3	5,207.3	12.9	22.3	-66.89	-620.3	-1,128.0	1,026.0	996.4	29.62	34.637		
5,500.0	5,474.0	5,435.3	5,303.5	13.2	22.7	-66.49	-621.7	-1,151.0	1,038.4	1,008.3	30.10	34.496		
5,600.0	5,573.5	5,534.3	5,399.8	13.4	23.2	-66.09	-623.1	-1,174.0	1,050.8	1,020.2	30.58	34.364		
5,700.0	5,673.0	5,633.2	5,496.0	13.7	23.6	-65.71	-624.5	-1,197.1	1,063.3	1,032.2	31.05	34.240		
5,800.0	5,772.4	5,732.2	5,592.2	13.9	24.0	-65.33	-625.8	-1,220.1	1,075.8	1,044.3	31.53	34.124		
5,900.0	5,871.9	5,831.2	5,688.5	14.2	24.5	-64.96	-627.2	-1,243.1	1,088.4	1,056.4	32.00	34.014		
6,000.0	5,971.4	5,930.1	5,784.7	14.4	24.9	-64.60	-628.6	-1,266.1	1,101.0	1,068.6	32.47	33.912		
6,100.0	6,070.8	6,029.1	5,881.0	14.7	25.4	-64.25	-630.0	-1,289.1	1,113.7	1,080.8	32.93	33.816		
6,200.0	6,170.3	6,128.0	5,977.2	14.9	25.8	-63.90	-631.3	-1,312.2	1,126.4	1,093.0	33.40	33.725		
6,300.0	6,269.8	6,227.0	6,073.4	15.2	26.3	-63.57	-632.7	-1,335.2	1,139.1	1,105.3	33.86	33.640		
6,400.0	6,369.2	6,326.0	6,169.7	15.4	26.7	-63.24	-634.1	-1,358.2	1,151.9	1,117.6	34.32	33.560		
6,500.0	6,468.7	6,424.9	6,265.9	15.7	27.2	-62.92	-635.4	-1,381.2	1,164.7	1,130.0	34.78	33.485		
6,600.0	6,568.2	6,523.9	6,362.2	15.9	27.6	-62.60	-636.8	-1,404.2	1,177.6	1,142.4	35.24	33.415		
6,700.0	6,667.7	6,622.9	6,458.4	16.1	28.1	-11.14	-638.2	-1,427.3	1,188.6	1,152.9	35.72	33.272		
6,800.0	6,765.9	6,720.9	6,553.7	16.3	28.5	23.36	-639.6	-1,450.1	1,188.6	1,153.5	35.16	33.805		
6,900.0	6,860.0	6,815.0	6,645.3	16.4	28.9	34.38	-640.9	-1,472.0	1,177.1	1,143.7	33.36	35.287		
7,000.0	6,947.0	6,902.0	6,738.0	16.6	29.3	99.05	110.1	-1,650.9	1,132.8	1,106.3	26.51	42.724		
7,100.0	7,024.5	6,979.5	6,824.0	16.7	29.7	102.29	47.4	-1,651.8	1,094.9	1,068.5	26.35	41.548		
7,200.0	7,090.0	7,045.0	6,910.0	17.0	30.0	103.65	-27.8	-1,652.9	1,066.4	1,040.1	26.35	40.472		
7,300.0	7,141.4	7,096.4	6,856.0	17.3	30.3	89.10	-442.3	-1,626.7	1,038.6	1,012.4	26.17	39.685		
7,400.0	7,177.4	7,132.4	6,892.0	17.8	31.4	83.89	-554.2	-1,598.3	1,001.1	974.6	26.47	37.814		
7,500.0	7,196.7	7,151.7	6,911.0	18.4	31.0	82.72	-592.8	-1,582.3	969.1	942.0	27.13	35.716		
7,600.0	7,200.0	7,155.0	6,915.0	19.2	30.8	80.83	-615.5	-1,569.1	943.9	915.9	28.02	33.689		
7,700.0	7,200.0	7,160.0	6,920.0	20.1	30.6	78.46	-626.6	-1,560.3	927.0	898.0	28.99	31.972		
7,800.0	7,200.0	7,165.0	6,925.0	21.1	30.5	76.90	-632.3	-1,554.6	919.8	889.8	30.07	30.589		
7,819.6	7,200.0	7,167.9	6,987.7	21.3	30.5	76.66	-633.1	-1,553.7	919.6	889.3	30.30	30.352		
7,900.0	7,200.0	7,154.0	6,974.5	22.2	30.5	75.81	-635.7	-1,550.6	923.0	891.8	31.24	29.550		
8,000.0	7,200.0	7,140.9	6,961.9	23.3	30.4	75.00	-637.8	-1,547.6	936.6	904.2	32.47	28.846		
8,100.0	7,200.0	7,130.8	6,952.2	24.6	30.4	74.38	-639.2	-1,545.3	960.4	926.6	33.77	28.442		
8,200.0	7,200.0	7,122.9	6,944.5	25.9	30.3	73.89	-640.2	-1,543.5	993.5	958.4	35.11	28.298 SF		
8,300.0	7,200.0	7,116.5	6,938.3	27.2	30.3	73.49	-640.9	-1,542.0	1,035.2	998.7	36.49	28.369		
8,400.0	7,200.0	7,100.0	6,922.4	28.6	30.2	72.48	-642.4	-1,538.2	1,084.6	1,046.8	37.81	28.687		
8,500.0	7,200.0	7,100.0	6,922.4	30.1	30.2	72.48	-642.4	-1,538.2	1,140.5	1,101.2	39.29	29.029		
8,600.0	7,200.0	7,100.0	6,922.4	31.5	30.2	72.48	-642.4	-1,538.2	1,202.0	1,161.2	40.79	29.471		
8,700.0	7,200.0	7,100.0	6,922.4	33.0	30.2	72.48	-642.4	-1,538.2	1,268.5	1,226.2	42.31	29.985		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2B-14H-C268 - Hz - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-179.71	-553.7	-2.8	553.7							
100.0	100.0	100.0	100.0	0.2	0.2	-179.71	-553.7	-2.8	553.7	553.4	0.30	1,823.301				
200.0	200.0	200.0	200.0	0.3	0.3	-179.71	-553.7	-2.8	553.7	553.1	0.65	848.274				
300.0	300.0	300.0	300.0	0.5	0.5	-179.71	-553.7	-2.8	553.7	552.7	1.00	552.708				
400.0	400.0	398.3	398.3	0.7	0.7	-179.54	-553.8	-4.5	553.9	552.5	1.35	410.867				
500.0	500.0	496.4	496.3	0.9	0.9	-107.03	-554.3	-9.5	554.9	553.2	1.71	323.657				
600.0	599.8	594.4	593.9	1.0	1.1	-106.63	-555.0	-17.9	557.2	555.1	2.11	263.554				
700.0	699.5	692.3	691.1	1.3	1.3	-106.20	-555.9	-29.5	561.0	558.4	2.57	218.089				
800.0	798.9	789.8	787.5	1.5	1.6	-105.67	-557.2	-44.4	565.6	562.5	3.09	183.239				
900.0	898.4	888.7	884.7	1.7	1.9	-104.88	-558.6	-62.1	570.6	566.9	3.64	156.923				
1,000.0	997.9	988.2	982.6	1.9	2.3	-104.08	-560.1	-80.0	575.7	571.5	4.20	136.949				
1,100.0	1,097.3	1,087.8	1,080.5	2.2	2.6	-103.30	-561.6	-97.9	580.9	576.2	4.78	121.520				
1,200.0	1,196.8	1,187.3	1,178.4	2.4	3.0	-102.53	-563.1	-115.9	586.3	580.9	5.36	109.315				
1,300.0	1,296.3	1,286.8	1,276.3	2.7	3.3	-101.77	-564.6	-133.8	591.7	585.8	5.95	99.457				
1,400.0	1,395.7	1,386.4	1,374.2	2.9	3.7	-101.03	-566.1	-151.7	597.3	590.7	6.54	91.352				
1,500.0	1,495.2	1,485.9	1,472.1	3.2	4.0	-100.30	-567.6	-169.6	602.9	595.8	7.13	84.585				
1,600.0	1,594.7	1,585.5	1,570.0	3.4	4.4	-99.58	-569.1	-187.6	608.7	600.9	7.72	78.859				
1,700.0	1,694.2	1,685.0	1,667.9	3.7	4.8	-98.88	-570.5	-205.5	614.5	606.2	8.31	73.957				
1,800.0	1,793.6	1,784.6	1,765.9	3.9	5.1	-98.19	-572.0	-223.4	620.4	611.5	8.90	69.719				
1,900.0	1,893.1	1,884.1	1,863.8	4.2	5.5	-97.52	-573.5	-241.4	626.4	616.9	9.49	66.023				
2,000.0	1,992.6	1,983.7	1,961.7	4.4	5.8	-96.85	-575.0	-259.3	632.5	622.5	10.08	62.773				
2,100.0	2,092.0	2,083.2	2,059.6	4.6	6.2	-96.20	-576.5	-277.2	638.7	628.1	10.66	59.897				
2,200.0	2,191.5	2,182.8	2,157.5	4.9	6.6	-95.57	-578.0	-295.1	645.0	633.7	11.25	57.335				
2,300.0	2,291.0	2,282.3	2,255.4	5.1	6.9	-94.94	-579.5	-313.1	651.3	639.5	11.83	55.040				
2,400.0	2,390.4	2,381.9	2,353.3	5.4	7.3	-94.33	-581.0	-331.0	657.7	645.3	12.42	52.974				
2,500.0	2,489.9	2,481.4	2,451.2	5.6	7.6	-93.73	-582.5	-348.9	664.2	651.2	13.00	51.106				
2,600.0	2,589.4	2,581.0	2,549.1	5.9	8.0	-93.14	-584.0	-366.9	670.8	657.2	13.58	49.409				
2,700.0	2,688.9	2,680.5	2,647.0	6.1	8.4	-92.56	-585.4	-384.8	677.4	663.3	14.15	47.863				
2,800.0	2,788.3	2,780.1	2,744.9	6.4	8.7	-91.99	-586.9	-402.7	684.1	669.4	14.73	46.449				
2,900.0	2,887.8	2,879.6	2,842.8	6.6	9.1	-91.43	-588.4	-420.6	690.9	675.6	15.30	45.151				
3,000.0	2,987.3	2,979.2	2,940.7	6.9	9.4	-90.89	-589.9	-438.6	697.7	681.9	15.87	43.956				
3,100.0	3,086.7	3,078.7	3,038.7	7.1	9.8	-90.35	-591.4	-456.5	704.6	688.2	16.44	42.854				
3,200.0	3,186.2	3,178.2	3,136.6	7.4	10.2	-89.83	-592.9	-474.4	711.6	694.6	17.01	41.834				
3,300.0	3,285.7	3,277.8	3,234.5	7.6	10.5	-89.32	-594.4	-492.4	718.6	701.0	17.57	40.887				
3,400.0	3,385.1	3,377.3	3,332.4	7.9	10.9	-88.81	-595.9	-510.3	725.7	707.5	18.14	40.008				
3,500.0	3,484.6	3,476.9	3,430.3	8.1	11.3	-88.32	-597.4	-528.2	732.8	714.1	18.70	39.189				
3,600.0	3,584.1	3,576.4	3,528.2	8.4	11.6	-87.83	-598.9	-546.1	740.0	720.7	19.26	38.424				
3,700.0	3,683.6	3,676.0	3,626.1	8.6	12.0	-87.36	-600.3	-564.1	747.2	727.4	19.81	37.709				
3,800.0	3,783.0	3,775.5	3,724.0	8.9	12.3	-86.89	-601.8	-582.0	754.5	734.1	20.37	37.040				
3,900.0	3,882.5	3,875.1	3,821.9	9.1	12.7	-86.43	-603.3	-599.9	761.8	740.9	20.92	36.412				
4,000.0	3,982.0	3,974.6	3,919.8	9.4	13.1	-85.98	-604.8	-617.9	769.2	747.7	21.47	35.821				
4,100.0	4,081.4	4,074.2	4,017.7	9.6	13.4	-85.54	-606.3	-635.8	776.6	754.6	22.02	35.266				
4,200.0	4,180.9	4,173.7	4,115.6	9.9	13.8	-85.11	-607.8	-653.7	784.1	761.5	22.57	34.743				
4,300.0	4,280.4	4,273.3	4,213.6	10.1	14.2	-84.69	-609.3	-671.7	791.6	768.4	23.11	34.249				
4,400.0	4,379.8	4,372.8	4,311.5	10.4	14.5	-84.27	-610.8	-689.6	799.1	775.5	23.65	33.783				
4,500.0	4,479.3	4,472.4	4,409.4	10.6	14.9	-83.86	-612.3	-707.5	806.7	782.5	24.20	33.342				
4,600.0	4,578.8	4,571.9	4,507.3	10.9	15.2	-83.46	-613.8	-725.4	814.3	789.6	24.73	32.924				
4,700.0	4,678.3	4,671.5	4,605.2	11.1	15.6	-83.07	-615.2	-743.4	822.0	796.7	25.27	32.528				
4,800.0	4,777.7	4,771.0	4,703.1	11.4	16.0	-82.68	-616.7	-761.3	829.7	803.9	25.81	32.152				
4,900.0	4,877.2	4,870.6	4,801.0	11.7	16.3	-82.30	-618.2	-779.2	837.5	811.1	26.34	31.795				
5,000.0	4,976.7	4,970.1	4,898.9	11.9	16.7	-81.93	-619.7	-797.2	845.3	818.4	26.87	31.456				
5,100.0	5,076.1	5,069.7	4,996.8	12.2	17.1	-81.57	-621.2	-815.1	853.1	825.7	27.40	31.133				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2B-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,169.2	5,094.7	12.4	17.4	-81.21	-622.7	-833.0	860.9	833.0	27.93	30.826		
5,300.0	5,275.1	5,268.7	5,192.6	12.7	17.8	-80.86	-624.2	-850.9	868.8	840.4	28.45	30.533		
5,400.0	5,374.5	5,368.3	5,290.5	12.9	18.2	-80.51	-625.7	-868.9	876.7	847.8	28.98	30.253		
5,500.0	5,474.0	5,467.8	5,388.5	13.2	18.5	-80.17	-627.2	-886.8	884.7	855.2	29.50	29.986		
5,600.0	5,573.5	5,567.4	5,486.4	13.4	18.9	-79.84	-628.6	-904.7	892.7	862.6	30.02	29.731		
5,700.0	5,673.0	5,666.9	5,584.3	13.7	19.2	-79.51	-630.1	-922.7	900.7	870.1	30.54	29.488		
5,800.0	5,772.4	5,766.5	5,682.2	13.9	19.6	-79.19	-631.6	-940.6	908.7	877.6	31.06	29.254		
5,900.0	5,871.9	5,866.0	5,780.1	14.2	20.0	-78.87	-633.1	-958.5	916.8	885.2	31.58	29.031		
6,000.0	5,971.4	5,965.6	5,878.0	14.4	20.3	-78.56	-634.6	-976.4	924.9	892.8	32.09	28.817		
6,100.0	6,070.8	6,065.1	5,975.9	14.7	20.7	-78.26	-636.1	-994.4	933.0	900.4	32.61	28.612		
6,200.0	6,170.3	6,164.7	6,073.8	14.9	21.1	-77.96	-637.6	-1,012.3	941.1	908.0	33.12	28.415		
6,300.0	6,269.8	6,264.2	6,171.7	15.2	21.4	-77.66	-639.1	-1,030.2	949.3	915.7	33.63	28.226		
6,400.0	6,369.2	6,363.8	6,269.6	15.4	21.8	-77.37	-640.6	-1,048.2	957.5	923.3	34.14	28.045		
6,500.0	6,468.7	6,463.3	6,367.5	15.7	22.1	-77.09	-642.1	-1,066.1	965.7	931.1	34.65	27.871		
6,600.0	6,568.2	7,932.7	7,231.0	15.9	29.0	-20.08	190.9	-1,224.2	915.8	883.8	31.97	28.645		
6,700.0	6,667.7	7,933.1	7,231.0	16.1	29.0	37.82	191.3	-1,224.2	839.3	809.1	30.15	27.839		
6,800.0	6,765.9	7,917.9	7,231.0	16.3	28.9	79.74	176.1	-1,224.2	769.0	741.0	27.98	27.485		
6,900.0	6,860.0	7,885.7	7,231.0	16.4	28.6	93.07	143.9	-1,224.2	707.9	680.9	27.03	26.186		
7,000.0	6,947.0	7,837.6	7,231.0	16.6	28.2	98.32	95.8	-1,224.2	658.4	631.7	26.73	24.629		
7,100.0	7,024.5	7,775.1	7,231.0	16.7	27.7	99.61	33.3	-1,224.2	621.4	594.7	26.76	23.223		
7,200.0	7,090.0	7,700.0	7,231.0	17.0	27.2	98.66	-41.8	-1,224.2	596.2	569.2	26.97	22.108		
7,300.0	7,141.4	7,588.2	7,225.5	17.3	26.5	95.07	-153.4	-1,223.2	579.5	552.3	27.20	21.303		
7,400.0	7,177.4	7,474.6	7,199.1	17.8	25.8	90.37	-263.5	-1,218.4	565.9	538.5	27.46	20.611		
7,500.0	7,196.7	7,375.8	7,159.2	18.4	25.4	85.66	-353.5	-1,211.1	556.5	528.7	27.80	20.022		
7,600.0	7,200.0	7,287.8	7,111.3	19.2	25.0	80.75	-426.6	-1,202.3	551.8	523.5	28.27	19.515		
7,628.7	7,200.0	7,265.4	7,097.4	19.4	24.9	79.28	-444.0	-1,199.7	551.5	523.0	28.45	19.382 CC, ES		
7,700.0	7,200.0	7,215.6	7,064.1	20.1	24.7	75.76	-480.6	-1,193.6	553.6	524.7	28.89	19.164		
7,800.0	7,200.0	7,158.0	7,021.9	21.1	24.5	71.35	-519.0	-1,185.9	565.1	535.6	29.56	19.118 SF		
7,900.0	7,200.0	7,111.8	6,985.5	22.2	24.4	67.62	-546.6	-1,179.3	588.0	557.7	30.27	19.424		
8,000.0	7,200.0	7,074.5	6,954.5	23.3	24.3	64.52	-566.6	-1,173.6	622.4	591.4	31.02	20.067		
8,100.0	7,200.0	7,050.0	6,933.6	24.6	24.2	62.47	-578.6	-1,169.7	667.6	635.7	31.90	20.930		
8,200.0	7,200.0	7,018.5	6,905.8	25.9	24.1	59.83	-592.8	-1,164.7	722.0	689.4	32.62	22.136		
8,300.0	7,200.0	7,000.0	6,889.2	27.2	24.0	58.29	-600.3	-1,161.6	784.2	750.7	33.52	23.391		
8,400.0	7,200.0	6,979.0	6,870.1	28.6	24.0	56.55	-608.2	-1,158.1	852.7	818.3	34.35	24.824		
8,500.0	7,200.0	6,950.0	6,843.2	30.1	23.9	54.19	-618.0	-1,153.2	926.5	891.5	34.93	26.523		
8,600.0	7,200.0	6,950.0	6,843.2	31.5	23.9	54.19	-618.0	-1,153.2	1,003.9	967.7	36.20	27.736		
8,700.0	7,200.0	6,950.0	6,843.2	33.0	23.9	54.19	-618.0	-1,153.2	1,085.1	1,047.6	37.48	28.953		
8,800.0	7,200.0	6,927.8	6,822.3	34.5	23.8	52.41	-624.5	-1,149.4	1,168.6	1,130.4	38.13	30.648		
8,900.0	7,200.0	6,918.5	6,813.6	36.1	23.8	51.68	-626.9	-1,147.8	1,254.4	1,215.3	39.12	32.064		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2C-14H-C268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	179.13	-553.7	8.4	553.8						
100.0	100.0	100.0	100.0	0.2	0.2	179.13	-553.7	8.4	553.8	553.5	0.30	1,823.487			
200.0	200.0	200.0	200.0	0.3	0.3	179.13	-553.7	8.4	553.8	553.1	0.65	848.361			
300.0	300.0	300.0	300.0	0.5	0.5	179.13	-553.7	8.4	553.8	552.8	1.00	552.765			
400.0	400.0	400.0	400.0	0.7	0.7	179.13	-553.7	8.4	553.8	552.4	1.35	409.931			
500.0	500.0	498.0	498.0	0.9	0.8	-108.71	-553.9	6.7	554.5	552.8	1.70	326.095			
600.0	599.8	596.0	595.8	1.0	1.0	-108.65	-554.5	1.7	556.7	554.7	2.07	268.735			
700.0	699.5	693.9	693.4	1.3	1.2	-108.56	-555.5	-6.6	560.4	557.9	2.49	225.365			
800.0	798.9	792.5	791.3	1.5	1.5	-108.37	-556.9	-18.0	565.0	562.0	2.94	192.227			
900.0	898.4	892.3	890.4	1.7	1.7	-108.12	-558.4	-30.3	569.6	566.2	3.41	166.816			
1,000.0	997.9	992.2	989.4	1.9	2.0	-107.86	-559.9	-42.6	574.2	570.3	3.90	147.167			
1,100.0	1,097.3	1,092.0	1,088.5	2.2	2.2	-107.61	-561.4	-54.8	578.9	574.5	4.40	131.639			
1,200.0	1,196.8	1,191.9	1,187.6	2.4	2.5	-107.37	-562.9	-67.1	583.5	578.6	4.90	119.119			
1,300.0	1,296.3	1,291.8	1,286.7	2.7	2.8	-107.13	-564.4	-79.3	588.2	582.8	5.40	108.843			
1,400.0	1,395.7	1,391.6	1,385.8	2.9	3.0	-106.89	-565.9	-91.6	592.9	587.0	5.91	100.274			
1,500.0	1,495.2	1,491.5	1,484.9	3.2	3.3	-106.66	-567.3	-103.9	597.6	591.1	6.42	93.030			
1,600.0	1,594.7	1,591.3	1,584.0	3.4	3.6	-106.43	-568.8	-116.1	602.3	595.3	6.94	86.832			
1,700.0	1,694.2	1,691.2	1,683.1	3.7	3.9	-106.20	-570.3	-128.4	607.0	599.5	7.45	81.472			
1,800.0	1,793.6	1,791.1	1,782.2	3.9	4.1	-105.98	-571.8	-140.7	611.7	603.7	7.97	76.794			
1,900.0	1,893.1	1,890.9	1,881.3	4.2	4.4	-105.76	-573.3	-152.9	616.4	607.9	8.48	72.678			
2,000.0	1,992.6	1,990.8	1,980.4	4.4	4.7	-105.54	-574.8	-165.2	621.2	612.2	9.00	69.029			
2,100.0	2,092.0	2,090.6	2,079.5	4.6	5.0	-105.33	-576.3	-177.5	625.9	616.4	9.52	65.772			
2,200.0	2,191.5	2,190.5	2,178.6	4.9	5.2	-105.12	-577.8	-189.7	630.6	620.6	10.03	62.850			
2,300.0	2,291.0	2,290.4	2,277.7	5.1	5.5	-104.91	-579.3	-202.0	635.4	624.9	10.55	60.213			
2,400.0	2,390.4	2,390.2	2,376.7	5.4	5.8	-104.71	-580.8	-214.3	640.2	629.1	11.07	57.821			
2,500.0	2,489.9	2,490.1	2,475.8	5.6	6.1	-104.51	-582.2	-226.5	645.0	633.4	11.59	55.643			
2,600.0	2,589.4	2,589.9	2,574.9	5.9	6.3	-104.31	-583.7	-238.8	649.7	637.6	12.11	53.651			
2,700.0	2,688.9	2,689.8	2,674.0	6.1	6.6	-104.12	-585.2	-251.1	654.5	641.9	12.63	51.823			
2,800.0	2,788.3	2,789.7	2,773.1	6.4	6.9	-103.93	-586.7	-263.3	659.3	646.2	13.15	50.139			
2,900.0	2,887.8	2,889.5	2,872.2	6.6	7.2	-103.74	-588.2	-275.6	664.1	650.5	13.67	48.584			
3,000.0	2,987.3	2,989.4	2,971.3	6.9	7.5	-103.55	-589.7	-287.9	668.9	654.8	14.19	47.142			
3,100.0	3,086.7	3,089.2	3,070.4	7.1	7.7	-103.37	-591.2	-300.1	673.8	659.1	14.71	45.803			
3,200.0	3,186.2	3,189.1	3,169.5	7.4	8.0	-103.19	-592.7	-312.4	678.6	663.4	15.23	44.555			
3,300.0	3,285.7	3,289.0	3,268.6	7.6	8.3	-103.01	-594.2	-324.7	683.4	667.7	15.75	43.390			
3,400.0	3,385.1	3,388.8	3,367.7	7.9	8.6	-102.83	-595.7	-336.9	688.3	672.0	16.27	42.300			
3,500.0	3,484.6	3,488.7	3,466.8	8.1	8.8	-102.66	-597.1	-349.2	693.1	676.3	16.79	41.278			
3,600.0	3,584.1	3,588.6	3,565.9	8.4	9.1	-102.49	-598.6	-361.5	698.0	680.7	17.31	40.318			
3,700.0	3,683.6	3,688.4	3,665.0	8.6	9.4	-102.32	-600.1	-373.7	702.8	685.0	17.83	39.414			
3,800.0	3,783.0	3,788.3	3,764.1	8.9	9.7	-102.15	-601.6	-386.0	707.7	689.3	18.35	38.562			
3,900.0	3,882.5	3,888.1	3,863.1	9.1	10.0	-101.99	-603.1	-398.3	712.6	693.7	18.87	37.757			
4,000.0	3,982.0	3,988.0	3,962.2	9.4	10.2	-101.83	-604.6	-410.5	717.4	698.0	19.39	36.996			
4,100.0	4,081.4	4,087.9	4,061.3	9.6	10.5	-101.67	-606.1	-422.8	722.3	702.4	19.91	36.275			
4,200.0	4,180.9	4,187.7	4,160.4	9.9	10.8	-101.51	-607.6	-435.1	727.2	706.8	20.43	35.591			
4,300.0	4,280.4	4,287.6	4,259.5	10.1	11.1	-101.35	-609.1	-447.3	732.1	711.1	20.95	34.941			
4,400.0	4,379.8	4,387.4	4,358.6	10.4	11.3	-101.20	-610.6	-459.6	737.0	715.5	21.47	34.323			
4,500.0	4,479.3	4,487.3	4,457.7	10.6	11.6	-101.05	-612.0	-471.9	741.9	719.9	21.99	33.735			
4,600.0	4,578.8	4,587.2	4,556.8	10.9	11.9	-100.90	-613.5	-484.1	746.8	724.3	22.51	33.174			
4,700.0	4,678.3	4,687.0	4,655.9	11.1	12.2	-100.75	-615.0	-496.4	751.7	728.7	23.03	32.639			
4,800.0	4,777.7	4,786.9	4,755.0	11.4	12.5	-100.61	-616.5	-508.7	756.6	733.1	23.55	32.128			
4,900.0	4,877.2	4,886.7	4,854.1	11.7	12.7	-100.46	-618.0	-520.9	761.6	737.5	24.07	31.639			
5,000.0	4,976.7	4,986.6	4,953.2	11.9	13.0	-100.32	-619.5	-533.2	766.5	741.9	24.59	31.171			
5,100.0	5,076.1	5,086.5	5,052.3	12.2	13.3	-100.18	-621.0	-545.5	771.4	746.3	25.11	30.723			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2C-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,186.3	5,151.4	12.4	13.6	-100.04	-622.5	-557.7	776.4	750.7	25.63	30.293		
5,300.0	5,275.1	5,286.2	5,250.5	12.7	13.8	-99.91	-624.0	-570.0	781.3	755.2	26.15	29.881		
5,400.0	5,374.5	5,386.0	5,349.5	12.9	14.1	-99.77	-625.5	-582.3	786.3	759.6	26.67	29.485		
5,500.0	5,474.0	5,485.9	5,448.6	13.2	14.4	-99.64	-626.9	-594.5	791.2	764.0	27.18	29.105		
5,600.0	5,573.5	5,585.8	5,547.7	13.4	14.7	-99.51	-628.4	-606.8	796.2	768.5	27.70	28.739		
5,700.0	5,673.0	5,685.6	5,646.8	13.7	15.0	-99.38	-629.9	-619.1	801.1	772.9	28.22	28.386		
5,800.0	5,772.4	5,785.5	5,745.9	13.9	15.2	-99.25	-631.4	-631.3	806.1	777.3	28.74	28.047		
5,900.0	5,871.9	5,885.3	5,845.0	14.2	15.5	-99.12	-632.9	-643.6	811.0	781.8	29.26	27.720		
6,000.0	5,971.4	5,985.2	5,944.1	14.4	15.8	-99.00	-634.4	-655.8	816.0	786.2	29.78	27.404		
6,100.0	6,070.8	6,085.1	6,043.2	14.7	16.1	-98.87	-635.9	-668.1	821.0	790.7	30.29	27.100		
6,200.0	6,170.3	6,184.9	6,142.3	14.9	16.4	-98.75	-637.4	-680.4	826.0	795.2	30.81	26.806		
6,300.0	6,269.8	6,284.8	6,241.4	15.2	16.6	-98.63	-638.9	-692.6	831.0	799.6	31.33	26.522		
6,400.0	6,369.2	6,384.6	6,340.5	15.4	16.9	-98.51	-640.4	-704.9	835.9	804.1	31.85	26.248		
6,500.0	6,468.7	7,906.3	7,269.0	15.7	24.2	-27.40	185.6	-827.2	836.8	803.7	33.16	25.235		
6,600.0	6,568.2	7,909.6	7,269.0	15.9	24.2	-26.30	188.8	-827.2	739.1	706.0	33.15	22.297		
6,700.0	6,667.7	7,910.1	7,269.0	16.1	24.2	46.95	189.3	-827.2	642.1	613.6	28.54	22.500		
6,800.0	6,765.9	7,894.9	7,269.0	16.3	24.0	103.98	174.2	-827.1	547.2	521.1	26.16	20.921		
6,900.0	6,860.0	7,862.9	7,269.0	16.4	23.7	122.21	142.1	-826.8	457.8	431.6	26.15	17.505		
7,000.0	6,947.0	7,814.9	7,269.0	16.6	23.2	128.71	94.1	-826.4	377.0	351.4	25.64	14.703		
7,100.0	7,024.5	7,752.4	7,269.0	16.7	22.6	129.65	31.7	-825.8	308.3	283.4	24.87	12.397		
7,200.0	7,090.0	7,677.3	7,269.0	17.0	22.0	127.10	-43.4	-825.2	254.0	229.7	24.38	10.420		
7,300.0	7,141.4	7,573.1	7,264.2	17.3	21.1	119.54	-147.4	-823.7	213.3	188.4	24.87	8.575		
7,400.0	7,177.4	7,469.0	7,241.7	17.8	20.4	107.64	-248.9	-820.0	179.8	153.5	26.33	6.829		
7,500.0	7,196.7	7,376.0	7,206.4	18.4	19.9	92.79	-334.6	-814.9	159.1	131.4	27.75	5.733		
7,564.4	7,201.4	7,321.3	7,179.4	18.9	19.6	81.84	-382.0	-811.1	155.0	126.8	28.16	5.502 CC, ES, SF		
7,600.0	7,200.0	7,291.7	7,163.0	19.2	19.5	76.23	-406.5	-808.9	156.0	127.9	28.14	5.544		
7,700.0	7,200.0	7,220.9	7,118.6	20.1	19.2	60.69	-461.4	-802.9	175.4	148.1	27.29	6.426		
7,800.0	7,200.0	7,163.2	7,077.8	21.1	19.0	48.73	-501.7	-797.5	218.5	192.5	25.93	8.423		
7,900.0	7,200.0	7,116.1	7,041.6	22.2	18.8	40.32	-531.4	-792.7	278.8	254.1	24.75	11.265		
8,000.0	7,200.0	7,077.6	7,010.3	23.3	18.7	34.46	-553.5	-788.7	350.2	326.3	23.91	14.643		
8,100.0	7,200.0	7,050.0	6,987.0	24.6	18.7	30.82	-567.9	-785.7	428.6	405.1	23.55	18.201		
8,200.0	7,200.0	7,018.9	6,959.9	25.9	18.6	27.23	-582.8	-782.2	511.7	488.6	23.08	22.172		
8,300.0	7,200.0	7,000.0	6,943.1	27.2	18.5	25.28	-591.2	-780.0	598.1	575.1	23.06	25.939		
8,400.0	7,200.0	6,977.0	6,922.2	28.6	18.5	23.13	-600.5	-777.3	687.0	664.0	22.91	29.991		
8,500.0	7,200.0	6,950.0	6,897.3	30.1	18.4	20.87	-610.5	-774.2	777.8	755.1	22.64	34.347		
8,600.0	7,200.0	6,950.0	6,897.3	31.5	18.4	20.87	-610.5	-774.2	869.7	846.5	23.20	37.486		
8,700.0	7,200.0	6,933.2	6,881.6	33.0	18.4	19.60	-616.0	-772.2	962.8	939.6	23.23	41.443		
8,800.0	7,200.0	6,922.0	6,871.0	34.5	18.4	18.80	-619.5	-770.8	1,056.9	1,033.4	23.43	45.114		
8,900.0	7,200.0	6,900.0	6,850.1	36.1	18.3	17.35	-625.7	-768.2	1,151.8	1,128.5	23.30	49.430		
9,000.0	7,200.0	6,900.0	6,850.1	37.6	18.3	17.35	-625.7	-768.2	1,247.0	1,223.2	23.80	52.399		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2D-14H-C268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	178.26	-553.7	16.8	554.0					
100.0	100.0	100.0	100.0	0.2	0.2	178.26	-553.7	16.8	554.0	553.7	0.30	1,824.114		
200.0	200.0	200.0	200.0	0.3	0.3	178.26	-553.7	16.8	554.0	553.3	0.65	848.652		
300.0	300.0	300.0	300.0	0.5	0.5	178.26	-553.7	16.8	554.0	553.0	1.00	552.955		
400.0	400.0	400.0	400.0	0.7	0.7	178.26	-553.7	16.8	554.0	552.6	1.35	410.072		
500.0	500.0	496.8	496.8	0.9	0.8	-109.58	-554.0	15.2	554.8	553.1	1.70	326.703		
600.0	599.8	593.6	593.4	1.0	1.0	-109.52	-555.0	10.4	557.5	555.4	2.07	269.543		
700.0	699.5	692.9	692.5	1.3	1.2	-109.56	-556.5	3.3	561.6	559.1	2.47	227.273		
800.0	798.9	792.8	792.1	1.5	1.4	-109.81	-557.9	-3.9	566.3	563.4	2.89	195.820		
900.0	898.4	892.6	891.7	1.7	1.6	-110.05	-559.4	-11.0	571.0	567.7	3.32	171.855		
1,000.0	997.9	992.5	991.3	1.9	1.8	-110.30	-560.9	-18.2	575.8	572.0	3.76	153.136		
1,100.0	1,097.3	1,092.4	1,090.9	2.2	2.1	-110.54	-562.3	-25.4	580.5	576.3	4.20	138.178		
1,200.0	1,196.8	1,192.2	1,190.5	2.4	2.3	-110.77	-563.8	-32.5	585.2	580.6	4.65	125.986		
1,300.0	1,296.3	1,292.1	1,290.1	2.7	2.5	-111.00	-565.2	-39.7	590.0	584.9	5.09	115.877		
1,400.0	1,395.7	1,391.9	1,389.7	2.9	2.7	-111.23	-566.7	-46.8	594.7	589.2	5.54	107.370		
1,500.0	1,495.2	1,491.8	1,489.2	3.2	2.9	-111.45	-568.2	-54.0	599.5	593.5	5.99	100.119		
1,600.0	1,594.7	1,591.7	1,588.8	3.4	3.1	-111.67	-569.6	-61.2	604.3	597.9	6.44	93.868		
1,700.0	1,694.2	1,691.5	1,688.4	3.7	3.3	-111.89	-571.1	-68.3	609.1	602.2	6.89	88.427		
1,800.0	1,793.6	1,791.4	1,788.0	3.9	3.5	-112.10	-572.6	-75.5	613.9	606.6	7.34	83.650		
1,900.0	1,893.1	1,891.2	1,887.6	4.2	3.8	-112.31	-574.0	-82.7	618.7	610.9	7.79	79.424		
2,000.0	1,992.6	1,991.1	1,987.2	4.4	4.0	-112.52	-575.5	-89.8	623.5	615.3	8.24	75.660		
2,100.0	2,092.0	2,091.0	2,086.8	4.6	4.2	-112.72	-576.9	-97.0	628.3	619.6	8.69	72.286		
2,200.0	2,191.5	2,190.8	2,186.4	4.9	4.4	-112.93	-578.4	-104.1	633.2	624.0	9.14	69.246		
2,300.0	2,291.0	2,290.7	2,286.0	5.1	4.6	-113.12	-579.9	-111.3	638.0	628.4	9.60	66.492		
2,400.0	2,390.4	2,390.5	2,385.6	5.4	4.8	-113.32	-581.3	-118.5	642.9	632.8	10.05	63.987		
2,500.0	2,489.9	2,490.4	2,485.2	5.6	5.1	-113.51	-582.8	-125.6	647.7	637.2	10.50	61.698		
2,600.0	2,589.4	2,590.2	2,584.7	5.9	5.3	-113.70	-584.3	-132.8	652.6	641.6	10.95	59.599		
2,700.0	2,688.9	2,690.1	2,684.3	6.1	5.5	-113.88	-585.7	-140.0	657.4	646.0	11.40	57.667		
2,800.0	2,788.3	2,790.0	2,783.9	6.4	5.7	-114.07	-587.2	-147.1	662.3	650.5	11.85	55.884		
2,900.0	2,887.8	2,889.8	2,883.5	6.6	5.9	-114.25	-588.7	-154.3	667.2	654.9	12.30	54.232		
3,000.0	2,987.3	2,989.7	2,983.1	6.9	6.1	-114.43	-590.1	-161.4	672.1	659.3	12.75	52.698		
3,100.0	3,086.7	3,089.5	3,082.7	7.1	6.3	-114.60	-591.6	-168.6	677.0	663.8	13.20	51.270		
3,200.0	3,186.2	3,189.4	3,182.3	7.4	6.6	-114.77	-593.0	-175.8	681.9	668.2	13.65	49.938		
3,300.0	3,285.7	3,289.3	3,281.9	7.6	6.8	-114.95	-594.5	-182.9	686.8	672.7	14.10	48.691		
3,400.0	3,385.1	3,389.1	3,381.5	7.9	7.0	-115.11	-596.0	-190.1	691.7	677.1	14.55	47.523		
3,500.0	3,484.6	3,489.0	3,481.1	8.1	7.2	-115.28	-597.4	-197.3	696.6	681.6	15.00	46.426		
3,600.0	3,584.1	3,588.8	3,580.7	8.4	7.4	-115.44	-598.9	-204.4	701.5	686.1	15.45	45.393		
3,700.0	3,683.6	3,688.7	3,680.2	8.6	7.6	-115.60	-600.4	-211.6	706.5	690.6	15.90	44.420		
3,800.0	3,783.0	3,788.6	3,779.8	8.9	7.9	-115.76	-601.8	-218.7	711.4	695.0	16.35	43.502		
3,900.0	3,882.5	3,888.4	3,879.4	9.1	8.1	-115.92	-603.3	-225.9	716.3	699.5	16.80	42.633		
4,000.0	3,982.0	3,988.3	3,979.0	9.4	8.3	-116.07	-604.8	-233.1	721.3	704.0	17.25	41.810		
4,100.0	4,081.4	4,088.1	4,078.6	9.6	8.5	-116.23	-606.2	-240.2	726.2	708.5	17.70	41.030		
4,200.0	4,180.9	4,188.0	4,178.2	9.9	8.7	-116.38	-607.7	-247.4	731.2	713.0	18.15	40.289		
4,300.0	4,280.4	4,287.8	4,277.8	10.1	8.9	-116.52	-609.1	-254.6	736.2	717.6	18.60	39.584		
4,400.0	4,379.8	4,387.7	4,377.4	10.4	9.1	-116.67	-610.6	-261.7	741.1	722.1	19.05	38.914		
4,500.0	4,479.3	4,487.6	4,477.0	10.6	9.4	-116.82	-612.1	-268.9	746.1	726.6	19.49	38.274		
4,600.0	4,578.8	4,587.4	4,576.6	10.9	9.6	-116.96	-613.5	-276.0	751.1	731.1	19.94	37.665		
4,700.0	4,678.3	4,687.3	4,676.2	11.1	9.8	-117.10	-615.0	-283.2	756.1	735.7	20.39	37.082		
4,800.0	4,777.7	4,787.1	4,775.7	11.4	10.0	-117.24	-616.5	-290.4	761.0	740.2	20.84	36.525		
4,900.0	4,877.2	4,887.0	4,875.3	11.7	10.2	-117.37	-617.9	-297.5	766.0	744.7	21.28	35.992		
5,000.0	4,976.7	4,986.9	4,974.9	11.9	10.4	-117.51	-619.4	-304.7	771.0	749.3	21.73	35.482		
5,100.0	5,076.1	5,086.7	5,074.5	12.2	10.7	-117.64	-620.8	-311.9	776.0	753.8	22.18	34.992		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2D-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,186.6	5,174.1	12.4	10.9	-117.77	-622.3	-319.0	781.0	758.4	22.62	34.523		
5,300.0	5,275.1	5,286.4	5,273.7	12.7	11.1	-117.90	-623.8	-326.2	786.0	763.0	23.07	34.072		
5,400.0	5,374.5	5,386.3	5,373.3	12.9	11.3	-118.03	-625.2	-333.3	791.0	767.5	23.52	33.638		
5,500.0	5,474.0	5,486.2	5,472.9	13.2	11.5	-118.16	-626.7	-340.5	796.0	772.1	23.96	33.222		
5,600.0	5,573.5	5,586.0	5,572.5	13.4	11.7	-118.29	-628.2	-347.7	801.1	776.7	24.41	32.821		
5,700.0	5,673.0	5,685.9	5,672.1	13.7	12.0	-118.41	-629.6	-354.8	806.1	781.2	24.85	32.434		
5,800.0	5,772.4	5,785.7	5,771.7	13.9	12.2	-118.53	-631.1	-362.0	811.1	785.8	25.30	32.062		
5,900.0	5,871.9	5,885.6	5,871.2	14.2	12.4	-118.65	-632.6	-369.2	816.1	790.4	25.74	31.703		
6,000.0	5,971.4	5,985.4	5,970.8	14.4	12.6	-118.77	-634.0	-376.3	821.2	795.0	26.19	31.356		
6,100.0	6,070.8	6,085.3	6,070.4	14.7	12.8	-118.89	-635.5	-383.5	826.2	799.6	26.63	31.022		
6,200.0	6,170.3	6,185.2	6,170.0	14.9	13.0	-119.00	-636.9	-390.6	831.2	804.2	27.08	30.698		
6,300.0	6,269.8	6,285.0	6,269.6	15.2	13.3	-119.12	-638.4	-397.8	836.3	808.8	27.52	30.386		
6,400.0	6,369.2	6,384.9	6,369.2	15.4	13.5	-119.23	-639.9	-405.0	841.3	813.4	27.97	30.084		
6,500.0	6,468.7	6,484.7	6,468.8	15.7	13.7	-119.35	-641.3	-412.1	846.4	818.0	28.41	29.791		
6,600.0	6,568.2	6,583.7	6,568.2	15.9	21.2	169.88	189.8	-472.5	850.3	820.2	30.14	28.207		
6,700.0	6,667.7	6,683.2	6,667.7	16.1	21.2	-159.35	190.2	-472.5	753.6	720.2	33.39	22.570		
6,800.0	6,765.9	6,781.9	6,765.9	16.3	21.0	-148.92	174.8	-472.6	659.0	623.9	35.10	18.775		
6,900.0	6,860.0	6,876.0	6,860.0	16.4	20.6	-150.50	142.6	-472.9	569.7	535.8	33.88	16.818		
7,000.0	6,947.0	6,963.0	6,947.0	16.6	20.1	-150.87	94.5	-473.3	488.8	457.1	31.68	15.428		
7,100.0	7,024.5	7,040.5	7,024.5	16.7	19.4	-149.71	31.9	-473.8	419.0	389.9	29.11	14.393		
7,200.0	7,090.0	7,106.0	7,090.0	17.0	18.6	-147.38	-43.3	-474.5	362.6	336.1	26.54	13.663		
7,300.0	7,141.4	7,157.4	7,141.4	17.3	17.4	-140.86	-171.8	-475.0	316.9	292.3	24.56	12.903		
7,400.0	7,177.4	7,193.4	7,177.4	17.8	16.4	-131.38	-295.2	-473.5	271.6	247.3	24.26	11.193		
7,500.0	7,196.7	7,212.7	7,196.7	18.4	15.8	-120.58	-389.3	-470.7	231.9	206.3	25.64	9.044		
7,600.0	7,200.0	7,216.0	7,200.0	19.2	15.5	-107.21	-461.5	-467.3	204.1	176.3	27.72	7.360		
7,686.9	7,200.0	7,265.3	7,213.3	20.0	15.3	-93.93	-506.0	-464.4	194.3	165.3	29.02	6.695 CC, ES		
7,700.0	7,200.0	7,256.8	7,206.9	20.1	15.2	-92.04	-511.5	-464.0	194.5	165.4	29.13	6.678 SF		
7,800.0	7,200.0	7,200.0	7,161.8	21.1	15.1	-79.05	-546.0	-461.1	213.9	184.4	29.57	7.235		
7,900.0	7,200.0	7,157.5	7,126.1	22.2	15.0	-69.70	-568.7	-458.7	260.9	231.3	29.61	8.811		
8,000.0	7,200.0	7,123.0	7,095.8	23.3	15.0	-62.71	-585.2	-456.7	326.2	296.6	29.57	11.031		
8,100.0	7,200.0	7,100.0	7,075.1	24.6	14.9	-58.45	-595.2	-455.3	402.5	372.7	29.85	13.485		
8,200.0	7,200.0	7,072.3	7,049.6	25.9	14.9	-53.77	-606.0	-453.5	485.2	455.4	29.84	16.263		
8,300.0	7,200.0	7,050.0	7,028.8	27.2	14.8	-50.37	-613.9	-452.1	572.2	542.2	30.01	19.067		
8,400.0	7,200.0	7,050.0	7,028.8	28.6	14.8	-50.37	-613.9	-452.1	662.2	631.0	31.19	21.229		
8,500.0	7,200.0	7,023.4	7,003.6	30.1	14.8	-46.71	-622.2	-450.4	753.6	722.5	31.08	24.246		
8,600.0	7,200.0	7,000.0	6,981.2	31.5	14.8	-43.83	-628.5	-448.8	847.0	815.9	31.10	27.233		
8,700.0	7,200.0	7,000.0	6,981.2	33.0	14.8	-43.83	-628.5	-448.8	941.0	908.8	32.21	29.216		
8,800.0	7,200.0	7,000.0	6,981.2	34.5	14.8	-43.83	-628.5	-448.8	1,036.2	1,002.9	33.33	31.090		
8,900.0	7,200.0	7,000.0	6,981.2	36.1	14.8	-43.83	-628.5	-448.8	1,132.2	1,097.7	34.46	32.857		
9,000.0	7,200.0	6,977.0	6,958.8	37.6	14.7	-41.27	-633.8	-447.2	1,228.1	1,193.8	34.35	35.758		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2E-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	177.11	-553.7	28.0	554.4					
100.0	100.0	100.0	100.0	0.2	0.2	177.11	-553.7	28.0	554.4	554.1	0.30	1,825.600		
200.0	200.0	200.0	200.0	0.3	0.3	177.11	-553.7	28.0	554.4	553.8	0.65	849.344		
300.0	300.0	300.0	300.0	0.5	0.5	177.11	-553.7	28.0	554.4	553.4	1.00	553.405		
400.0	400.0	400.0	400.0	0.7	0.7	177.11	-553.7	28.0	554.4	553.1	1.35	410.407 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-110.91	-553.7	28.0	555.0	553.3	1.70	326.157		
600.0	599.8	599.8	599.8	1.0	1.0	-111.38	-553.7	28.0	556.9	554.9	2.06	270.034		
700.0	699.5	699.5	699.5	1.3	1.2	-112.15	-553.7	28.0	560.2	557.7	2.44	229.345		
800.0	798.9	798.9	798.9	1.5	1.4	-113.11	-553.7	28.0	564.1	561.3	2.83	199.179		
900.0	898.4	898.4	898.4	1.7	1.5	-114.06	-553.7	28.0	568.3	565.0	3.23	176.077		
1,000.0	997.9	997.9	997.9	1.9	1.7	-114.99	-553.7	28.0	572.6	568.9	3.63	157.939		
1,100.0	1,097.3	1,097.3	1,097.3	2.2	1.9	-115.92	-553.7	28.0	577.0	573.0	4.02	143.380		
1,200.0	1,196.8	1,196.8	1,196.8	2.4	2.1	-116.82	-553.7	28.0	581.6	577.2	4.42	131.470		
1,300.0	1,296.3	1,296.3	1,296.3	2.7	2.2	-117.72	-553.7	28.0	586.3	581.5	4.82	121.569		
1,400.0	1,395.7	1,395.7	1,395.7	2.9	2.4	-118.59	-553.7	28.0	591.2	586.0	5.22	113.222		
1,500.0	1,495.2	1,495.2	1,495.2	3.2	2.6	-119.46	-553.7	28.0	596.2	590.6	5.62	106.101		
1,600.0	1,594.7	1,594.7	1,594.7	3.4	2.8	-120.31	-553.7	28.0	601.3	595.3	6.02	99.961		
1,700.0	1,694.2	1,694.2	1,694.2	3.7	2.9	-121.14	-553.7	28.0	606.6	600.2	6.41	94.620		
1,800.0	1,793.6	1,793.6	1,793.6	3.9	3.1	-121.96	-553.7	28.0	612.0	605.2	6.80	89.935		
1,900.0	1,893.1	1,893.1	1,893.1	4.2	3.3	-122.77	-553.7	28.0	617.5	610.3	7.20	85.798		
2,000.0	1,992.6	1,992.6	1,992.6	4.4	3.5	-123.56	-553.7	28.0	623.2	615.6	7.59	82.119		
2,100.0	2,092.0	2,092.0	2,092.0	4.6	3.6	-124.34	-553.7	28.0	628.9	621.0	7.98	78.831		
2,200.0	2,191.5	2,191.5	2,191.5	4.9	3.8	-125.10	-553.7	28.0	634.8	626.5	8.37	75.876		
2,300.0	2,291.0	2,291.0	2,291.0	5.1	4.0	-125.85	-553.7	28.0	640.8	632.1	8.75	73.209		
2,400.0	2,390.4	2,390.4	2,390.4	5.4	4.1	-126.59	-553.7	28.0	646.9	637.8	9.14	70.790		
2,500.0	2,489.9	2,489.9	2,489.9	5.6	4.3	-127.31	-553.7	28.0	653.1	643.6	9.52	68.589		
2,600.0	2,589.4	2,589.4	2,589.4	5.9	4.5	-128.02	-553.7	28.0	659.4	649.5	9.90	66.579		
2,700.0	2,688.9	2,688.9	2,688.9	6.1	4.7	-128.71	-553.7	28.0	665.8	655.5	10.28	64.737		
2,800.0	2,788.3	2,788.3	2,788.3	6.4	4.8	-129.39	-553.7	28.0	672.3	661.6	10.66	63.043		
2,900.0	2,887.8	2,887.8	2,887.8	6.6	5.0	-130.06	-553.7	28.0	678.9	667.9	11.04	61.483		
3,000.0	2,987.3	2,987.3	2,987.3	6.9	5.2	-130.72	-553.7	28.0	685.6	674.2	11.42	60.041		
3,100.0	3,086.7	3,086.7	3,086.7	7.1	5.4	-131.36	-553.7	28.0	692.4	680.6	11.79	58.705		
3,200.0	3,186.2	3,186.2	3,186.2	7.4	5.5	-131.99	-553.7	28.0	699.2	687.0	12.17	57.464		
3,300.0	3,285.7	3,285.7	3,285.7	7.6	5.7	-132.61	-553.7	28.0	706.2	693.6	12.54	56.310		
3,400.0	3,385.1	3,385.1	3,385.1	7.9	5.9	-133.22	-553.7	28.0	713.2	700.3	12.91	55.234		
3,500.0	3,484.6	3,484.6	3,484.6	8.1	6.1	-133.81	-553.7	28.0	720.3	707.0	13.28	54.229		
3,600.0	3,584.1	3,584.1	3,584.1	8.4	6.2	-134.39	-553.7	28.0	727.5	713.8	13.65	53.289		
3,700.0	3,683.6	3,683.6	3,683.6	8.6	6.4	-134.97	-553.7	28.0	734.7	720.7	14.02	52.407		
3,800.0	3,783.0	3,783.0	3,783.0	8.9	6.6	-135.53	-553.7	28.0	742.0	727.6	14.39	51.580		
3,900.0	3,882.5	3,882.5	3,882.5	9.1	6.8	-136.07	-553.7	28.0	749.4	734.7	14.75	50.802		
4,000.0	3,982.0	3,982.0	3,982.0	9.4	6.9	-136.61	-553.7	28.0	756.9	741.8	15.12	50.069		
4,100.0	4,081.4	4,081.4	4,081.4	9.6	7.1	-137.14	-553.7	28.0	764.4	748.9	15.48	49.379		
4,200.0	4,180.9	4,180.9	4,180.9	9.9	7.3	-137.66	-553.7	28.0	772.0	756.1	15.84	48.727		
4,300.0	4,280.4	4,280.4	4,280.4	10.1	7.4	-138.17	-553.7	28.0	779.6	763.4	16.20	48.110		
4,400.0	4,379.8	4,379.8	4,379.8	10.4	7.6	-138.67	-553.7	28.0	787.3	770.8	16.57	47.527		
4,500.0	4,479.3	4,479.3	4,479.3	10.6	7.8	-139.15	-553.7	28.0	795.1	778.2	16.93	46.975		
4,600.0	4,578.8	4,578.8	4,578.8	10.9	8.0	-139.63	-553.7	28.0	802.9	785.6	17.29	46.451		
4,700.0	4,678.3	4,678.3	4,678.3	11.1	8.1	-140.10	-553.7	28.0	810.8	793.2	17.64	45.953		
4,800.0	4,777.7	4,777.7	4,777.7	11.4	8.3	-140.56	-553.7	28.0	818.7	800.7	18.00	45.480		
4,900.0	4,877.2	4,877.2	4,877.2	11.7	8.5	-141.01	-553.7	28.0	826.7	808.4	18.36	45.030		
5,000.0	4,976.7	4,976.7	4,976.7	11.9	8.7	-141.46	-553.7	28.0	834.8	816.0	18.72	44.602		
5,100.0	5,076.1	5,065.3	5,065.3	12.2	8.8	-141.80	-554.4	27.7	843.3	824.3	19.06	44.251		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2E-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,150.6	5,150.5	12.4	9.0	-141.99	-557.4	26.5	853.5	834.1	19.40	43.991		
5,300.0	5,275.1	5,242.2	5,242.0	12.7	9.1	-142.05	-562.9	24.3	865.2	845.5	19.77	43.773		
5,400.0	5,374.5	5,341.5	5,341.0	12.9	9.3	-142.09	-569.2	21.8	877.2	857.0	20.15	43.542		
5,500.0	5,474.0	5,440.8	5,440.1	13.2	9.5	-142.13	-575.5	19.3	889.1	868.6	20.53	43.317		
5,600.0	5,573.5	5,540.1	5,539.1	13.4	9.7	-142.18	-581.8	16.8	901.1	880.2	20.91	43.099		
5,700.0	5,673.0	5,639.4	5,638.2	13.7	9.8	-142.21	-588.1	14.3	913.0	891.7	21.29	42.888		
5,800.0	5,772.4	5,738.7	5,737.2	13.9	10.0	-142.25	-594.5	11.8	924.9	903.3	21.67	42.682		
5,900.0	5,871.9	5,837.9	5,836.3	14.2	10.2	-142.29	-600.8	9.3	936.9	914.8	22.05	42.482		
6,000.0	5,971.4	5,937.2	5,935.3	14.4	10.4	-142.33	-607.1	6.8	948.8	926.4	22.44	42.287		
6,100.0	6,070.8	6,036.5	6,034.4	14.7	10.6	-142.36	-613.4	4.3	960.8	937.9	22.82	42.098		
6,200.0	6,170.3	6,135.8	6,133.4	14.9	10.8	-142.40	-619.7	1.8	972.7	949.5	23.21	41.914		
6,300.0	6,269.8	6,235.1	6,232.5	15.2	11.0	-142.43	-626.0	-0.7	984.6	961.1	23.59	41.735		
6,400.0	6,369.2	6,334.3	6,331.5	15.4	11.1	-142.46	-632.3	-3.2	996.6	972.6	23.98	41.561		
6,500.0	6,468.7	7,798.7	7,203.0	15.7	19.1	164.18	187.7	-25.1	921.9	891.2	30.66	30.067		
6,600.0	6,568.2	7,801.8	7,203.0	15.9	19.1	163.89	190.9	-25.1	851.3	820.4	30.90	27.547		
6,700.0	6,667.7	7,802.3	7,203.0	16.1	19.1	-149.20	191.3	-25.1	787.1	755.7	31.34	25.115		
6,800.0	6,765.9	7,787.0	7,203.0	16.3	18.9	-120.88	176.1	-25.1	731.7	700.2	31.41	23.294		
6,900.0	6,860.0	7,754.9	7,203.0	16.4	18.5	-114.30	143.9	-25.1	687.8	656.9	30.92	22.246		
7,000.0	6,947.0	7,706.8	7,203.0	16.6	17.9	-110.11	95.8	-25.1	656.9	626.8	30.10	21.823		
7,100.0	7,024.5	7,644.3	7,203.0	16.7	17.1	-105.70	33.3	-25.1	638.4	609.1	29.27	21.812 SF		
7,200.0	7,090.0	7,569.1	7,203.0	17.0	16.2	-100.94	-41.8	-25.1	630.0	601.4	28.60	22.029		
7,298.0	7,140.6	7,481.4	7,200.6	17.3	15.2	-96.12	-129.5	-25.1	628.2	600.0	28.15	22.319		
7,300.0	7,141.4	7,479.6	7,200.4	17.3	15.2	-96.02	-131.3	-25.1	628.2	600.0	28.14	22.325		
7,400.0	7,177.4	7,391.2	7,185.4	17.8	14.3	-91.29	-218.3	-24.7	629.8	601.9	27.97	22.519		
7,500.0	7,196.7	7,308.9	7,159.5	18.4	13.7	-86.97	-296.3	-24.1	634.3	606.3	28.01	22.644		
7,600.0	7,200.0	7,231.8	7,125.3	19.2	13.1	-83.28	-365.4	-23.2	641.1	612.9	28.24	22.706		
7,700.0	7,200.0	7,164.1	7,087.9	20.1	12.8	-80.00	-421.8	-22.2	653.0	624.2	28.76	22.702		
7,800.0	7,200.0	7,100.0	7,046.6	21.1	12.5	-76.46	-470.7	-21.2	672.2	642.8	29.38	22.875		
7,900.0	7,200.0	7,050.0	7,010.7	22.2	12.4	-73.47	-505.5	-20.3	699.6	669.4	30.16	23.198		
8,000.0	7,200.0	7,017.1	6,985.5	23.3	12.3	-71.44	-526.7	-19.7	735.4	704.3	31.11	23.635		
8,100.0	7,200.0	6,982.4	6,957.7	24.6	12.2	-69.25	-547.3	-19.0	779.5	747.5	32.05	24.323		
8,200.0	7,200.0	6,950.0	6,930.6	25.9	12.1	-67.18	-565.1	-18.3	831.1	798.1	32.99	25.194		
8,300.0	7,200.0	6,927.5	6,911.2	27.2	12.1	-65.74	-576.5	-17.8	889.4	855.3	34.05	26.117		
8,400.0	7,200.0	6,900.0	6,887.0	28.6	12.1	-63.99	-589.4	-17.2	953.4	918.4	35.02	27.225		
8,500.0	7,200.0	6,900.0	6,887.0	30.1	12.1	-63.99	-589.4	-17.2	1,022.5	986.0	36.42	28.070		
8,600.0	7,200.0	6,869.8	6,859.6	31.5	12.0	-62.08	-602.3	-16.5	1,095.2	1,057.9	37.31	29.356		
8,700.0	7,200.0	6,850.0	6,841.4	33.0	12.0	-60.84	-609.9	-16.0	1,171.7	1,133.3	38.34	30.559		
8,800.0	7,200.0	6,850.0	6,841.4	34.5	12.0	-60.84	-609.9	-16.0	1,251.1	1,211.3	39.76	31.469		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2F-14H-C268 - Hz - Plan #1												Offset Site Error: 0.0 ft			
Survey Program: 0-MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	176.24	-553.7	36.3	554.9						
100.0	100.0	100.0	100.0	0.2	0.2	176.24	-553.7	36.3	554.9	554.6	0.30	1,827.201			
200.0	200.0	200.0	200.0	0.3	0.3	176.24	-553.7	36.3	554.9	554.2	0.65	850.089			
300.0	300.0	300.0	300.0	0.5	0.5	176.24	-553.7	36.3	554.9	553.9	1.00	553.891			
400.0	400.0	400.0	400.0	0.7	0.7	176.24	-553.7	36.3	554.9	553.5	1.35	410.766	CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-111.77	-553.7	36.3	555.5	553.8	1.70	326.462			
600.0	599.8	599.8	599.8	1.0	1.0	-112.23	-553.7	36.3	557.5	555.4	2.06	270.343			
700.0	699.5	691.7	691.7	1.3	1.2	-113.06	-554.2	37.7	561.6	559.1	2.43	231.147			
800.0	798.9	787.1	787.0	1.5	1.4	-114.34	-555.6	41.6	567.6	564.8	2.82	201.632			
900.0	898.4	886.0	885.8	1.7	1.5	-115.68	-557.2	45.9	574.1	570.9	3.21	178.660			
1,000.0	997.9	984.9	984.6	1.9	1.7	-116.98	-558.8	50.2	581.0	577.4	3.62	160.701			
1,100.0	1,097.3	1,083.8	1,083.3	2.2	1.9	-118.25	-560.4	54.5	588.1	584.1	4.02	146.365			
1,200.0	1,196.8	1,182.7	1,182.1	2.4	2.1	-119.50	-562.0	58.8	595.5	591.1	4.42	134.709			
1,300.0	1,296.3	1,281.5	1,280.9	2.7	2.3	-120.71	-563.5	63.1	603.2	598.4	4.82	125.080			
1,400.0	1,395.7	1,380.4	1,379.7	2.9	2.5	-121.89	-565.1	67.4	611.2	605.9	5.22	117.017			
1,500.0	1,495.2	1,479.3	1,478.5	3.2	2.7	-123.04	-566.7	71.7	619.4	613.7	5.62	110.183			
1,600.0	1,594.7	1,578.2	1,577.2	3.4	2.8	-124.16	-568.3	76.1	627.8	621.8	6.02	104.330			
1,700.0	1,694.2	1,677.1	1,676.0	3.7	3.0	-125.25	-569.9	80.4	636.5	630.1	6.41	99.272			
1,800.0	1,793.6	1,776.0	1,774.8	3.9	3.2	-126.31	-571.5	84.7	645.4	638.6	6.80	94.865			
1,900.0	1,893.1	1,874.9	1,873.6	4.2	3.4	-127.35	-573.0	89.0	654.6	647.4	7.19	90.998			
2,000.0	1,992.6	1,973.7	1,972.4	4.4	3.6	-128.35	-574.6	93.3	663.9	656.3	7.58	87.583			
2,100.0	2,092.0	2,072.6	2,071.1	4.6	3.8	-129.33	-576.2	97.6	673.5	665.5	7.97	84.549			
2,200.0	2,191.5	2,171.5	2,169.9	4.9	4.0	-130.28	-577.8	101.9	683.2	674.8	8.35	81.841			
2,300.0	2,291.0	2,270.4	2,268.7	5.1	4.2	-131.20	-579.4	106.2	693.1	684.4	8.73	79.411			
2,400.0	2,390.4	2,369.3	2,367.5	5.4	4.3	-132.10	-581.0	110.5	703.2	694.1	9.11	77.222			
2,500.0	2,489.9	2,468.2	2,466.3	5.6	4.5	-132.97	-582.5	114.8	713.5	704.0	9.48	75.242			
2,600.0	2,589.4	2,567.1	2,565.0	5.9	4.7	-133.82	-584.1	119.1	723.9	714.0	9.86	73.445			
2,700.0	2,688.9	2,665.9	2,663.8	6.1	4.9	-134.64	-585.7	123.4	734.4	724.2	10.23	71.807			
2,800.0	2,788.3	2,764.8	2,762.6	6.4	5.1	-135.44	-587.3	127.7	745.2	734.6	10.60	70.311			
2,900.0	2,887.8	2,863.7	2,861.4	6.6	5.3	-136.22	-588.9	132.0	756.0	745.1	10.97	68.940			
3,000.0	2,987.3	2,962.6	2,960.2	6.9	5.5	-136.97	-590.4	136.4	767.0	755.7	11.33	67.680			
3,100.0	3,086.7	3,061.5	3,058.9	7.1	5.7	-137.71	-592.0	140.7	778.2	766.5	11.70	66.519			
3,200.0	3,186.2	3,160.4	3,157.7	7.4	5.9	-138.42	-593.6	145.0	789.4	777.3	12.06	65.447			
3,300.0	3,285.7	3,259.3	3,256.5	7.6	6.1	-139.11	-595.2	149.3	800.8	788.3	12.42	64.455			
3,400.0	3,385.1	3,358.1	3,355.3	7.9	6.2	-139.79	-596.8	153.6	812.3	799.5	12.78	63.535			
3,500.0	3,484.6	3,457.0	3,454.1	8.1	6.4	-140.44	-598.4	157.9	823.8	810.7	13.14	62.680			
3,600.0	3,584.1	3,555.9	3,552.8	8.4	6.6	-141.08	-599.9	162.2	835.5	822.0	13.50	61.883			
3,700.0	3,683.6	3,654.8	3,651.6	8.6	6.8	-141.70	-601.5	166.5	847.3	833.5	13.86	61.140			
3,800.0	3,783.0	3,753.7	3,750.4	8.9	7.0	-142.30	-603.1	170.8	859.2	845.0	14.21	60.446			
3,900.0	3,882.5	3,852.6	3,849.2	9.1	7.2	-142.89	-604.7	175.1	871.2	856.6	14.57	59.797			
4,000.0	3,982.0	3,951.5	3,948.0	9.4	7.4	-143.46	-606.3	179.4	883.3	868.4	14.92	59.188			
4,100.0	4,081.4	4,050.4	4,046.7	9.6	7.6	-144.02	-607.9	183.7	895.4	880.2	15.28	58.616			
4,200.0	4,180.9	4,149.2	4,145.5	9.9	7.8	-144.56	-609.4	188.0	907.7	892.0	15.63	58.078			
4,300.0	4,280.4	4,248.1	4,244.3	10.1	8.0	-145.08	-611.0	192.3	920.0	904.0	15.98	57.572			
4,400.0	4,379.8	4,347.0	4,343.1	10.4	8.1	-145.59	-612.6	196.7	932.4	916.1	16.33	57.095			
4,500.0	4,479.3	4,445.9	4,441.9	10.6	8.3	-146.09	-614.2	201.0	944.8	928.2	16.68	56.644			
4,600.0	4,578.8	4,544.8	4,540.6	10.9	8.5	-146.58	-615.8	205.3	957.4	940.3	17.03	56.219			
4,700.0	4,678.3	4,643.7	4,639.4	11.1	8.7	-147.05	-617.3	209.6	970.0	952.6	17.38	55.816			
4,800.0	4,777.7	4,742.6	4,738.2	11.4	8.9	-147.51	-618.9	213.9	982.6	964.9	17.73	55.435			
4,900.0	4,877.2	4,841.4	4,837.0	11.7	9.1	-147.96	-620.5	218.2	995.4	977.3	18.07	55.073			
5,000.0	4,976.7	4,940.3	4,935.7	11.9	9.3	-148.40	-622.1	222.5	1,008.1	989.7	18.42	54.729			
5,100.0	5,076.1	5,039.2	5,034.5	12.2	9.5	-148.83	-623.7	226.8	1,021.0	1,002.2	18.77	54.403			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2F-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,175.6	5,138.1	5,133.3	12.4	9.7	-149.25	-625.3	231.1	1,033.9	1,014.8	19.11	54.093		
5,300.0	5,275.1	5,237.0	5,232.1	12.7	9.9	-149.65	-626.8	235.4	1,046.8	1,027.4	19.46	53.797		
5,400.0	5,374.5	5,335.9	5,330.9	12.9	10.0	-150.05	-628.4	239.7	1,059.8	1,040.0	19.80	53.516		
5,500.0	5,474.0	5,434.8	5,429.6	13.2	10.2	-150.44	-630.0	244.0	1,072.9	1,052.7	20.15	53.247		
5,600.0	5,573.5	5,533.6	5,528.4	13.4	10.4	-150.81	-631.6	248.3	1,086.0	1,065.5	20.49	52.991		
5,700.0	5,673.0	5,632.5	5,627.2	13.7	10.6	-151.18	-633.2	252.6	1,099.1	1,078.3	20.84	52.746		
5,800.0	5,772.4	5,731.4	5,726.0	13.9	10.8	-151.54	-634.8	256.9	1,112.3	1,091.1	21.18	52.512		
5,900.0	5,871.9	5,830.3	5,824.8	14.2	11.0	-151.90	-636.3	261.3	1,125.5	1,104.0	21.53	52.288		
6,000.0	5,971.4	5,929.2	5,923.5	14.4	11.2	-152.24	-637.9	265.6	1,138.8	1,116.9	21.87	52.073		
6,100.0	6,070.8	6,028.1	6,022.3	14.7	11.4	-152.58	-639.5	269.9	1,152.1	1,129.9	22.21	51.867		
6,200.0	6,170.3	6,127.0	6,121.1	14.9	11.6	-152.90	-641.1	274.2	1,165.4	1,142.9	22.56	51.670		
6,300.0	6,269.8	6,225.8	6,219.9	15.2	11.8	-153.22	-642.7	278.5	1,178.8	1,155.9	22.90	51.481		
6,400.0	6,369.2	6,324.7	6,318.7	15.4	11.9	-153.54	-644.2	282.8	1,192.2	1,169.0	23.24	51.299		
6,500.0	6,468.7	6,423.6	6,417.4	15.7	12.1	-153.84	-645.8	287.1	1,205.7	1,182.1	23.58	51.124		
6,600.0	6,568.2	7,871.2	7,269.0	15.9	19.8	163.35	190.9	324.2	1,153.8	1,122.7	31.10	37.104		
6,700.0	6,667.7	7,871.6	7,269.0	16.1	19.8	-148.29	191.3	324.2	1,104.4	1,073.2	31.22	35.375		
6,800.0	6,765.9	7,856.4	7,269.0	16.3	19.7	-118.39	176.1	324.2	1,062.7	1,031.8	30.98	34.301		
6,900.0	6,860.0	7,824.3	7,269.0	16.4	19.2	-111.35	143.9	324.2	1,030.2	999.8	30.45	33.835		
7,000.0	6,947.0	7,776.2	7,269.0	16.6	18.6	-107.61	95.8	324.2	1,007.2	977.5	29.76	33.842		
7,100.0	7,024.5	7,713.6	7,269.0	16.7	17.9	-104.31	33.3	324.2	992.9	963.8	29.08	34.146		
7,200.0	7,090.0	7,638.5	7,269.0	17.0	17.0	-101.04	-41.8	324.2	985.6	957.0	28.53	34.541		
7,300.0	7,141.4	7,532.4	7,264.7	17.3	15.9	-97.29	-147.7	324.0	982.5	954.5	27.99	35.101		
7,400.0	7,177.4	7,422.5	7,240.8	17.8	15.0	-93.54	-254.9	323.0	980.2	952.4	27.74	35.333		
7,500.0	7,196.7	7,325.5	7,203.1	18.4	14.3	-90.31	-344.1	321.4	978.6	950.8	27.83	35.161		
7,582.2	7,201.9	7,254.1	7,166.1	19.1	13.9	-87.90	-405.1	319.7	978.3	950.1	28.14	34.767		
7,600.0	7,200.0	7,238.4	7,156.9	19.2	13.8	-87.48	-417.8	319.3	978.1	949.8	28.21	34.672		
7,700.0	7,200.0	7,166.0	7,110.4	20.1	13.5	-84.75	-473.2	317.3	980.7	951.8	28.93	33.904		
7,800.0	7,200.0	7,107.6	7,068.0	21.1	13.4	-82.28	-513.3	315.5	988.8	958.9	29.83	33.146		
7,900.0	7,200.0	7,060.4	7,030.9	22.2	13.2	-80.13	-542.3	313.8	1,003.3	972.4	30.86	32.509		
8,000.0	7,200.0	7,022.1	6,999.1	23.3	13.2	-78.31	-563.7	312.5	1,025.0	993.0	31.98	32.047		
8,100.0	7,200.0	7,000.0	6,980.1	24.6	13.1	-77.23	-575.0	311.6	1,054.0	1,020.8	33.23	31.718		
8,200.0	7,200.0	6,964.1	6,948.5	25.9	13.1	-75.45	-591.8	310.3	1,090.1	1,055.6	34.41	31.682 SF		
8,300.0	7,200.0	6,950.0	6,935.7	27.2	13.0	-74.74	-597.8	309.7	1,133.0	1,097.2	35.75	31.692		
8,400.0	7,200.0	6,923.1	6,911.1	28.6	13.0	-73.37	-608.5	308.6	1,182.0	1,145.0	37.00	31.946		
8,500.0	7,200.0	6,900.0	6,889.5	30.1	13.0	-72.19	-616.7	307.7	1,236.8	1,198.5	38.27	32.314		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 547-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
10,000.0	7,200.0	7,484.8	7,230.8	53.9	22.8	91.56	-4,029.4	-851.5	1,224.7	1,150.4	74.34	16.475	
10,100.0	7,200.0	7,484.5	7,230.5	55.5	22.8	91.47	-4,029.4	-851.5	1,125.8	1,049.8	76.05	14.804	
10,200.0	7,200.0	7,484.3	7,230.2	57.2	22.8	91.38	-4,029.4	-851.5	1,027.2	949.4	77.76	13.209	
10,300.0	7,200.0	7,484.0	7,229.9	58.9	22.8	91.28	-4,029.4	-851.5	928.8	849.3	79.48	11.686	
10,400.0	7,200.0	7,483.7	7,229.6	60.6	22.8	91.19	-4,029.4	-851.5	830.8	749.6	81.19	10.232	
10,500.0	7,200.0	7,483.4	7,229.4	62.3	22.8	91.10	-4,029.4	-851.5	733.3	650.4	82.91	8.844	
10,600.0	7,200.0	7,483.1	7,229.1	64.0	22.8	91.01	-4,029.4	-851.5	636.6	552.0	84.63	7.522	
10,700.0	7,200.0	7,482.8	7,228.8	65.6	22.8	90.91	-4,029.4	-851.5	541.2	454.8	86.36	6.267	
10,800.0	7,200.0	7,482.6	7,228.5	67.3	22.8	90.82	-4,029.4	-851.5	447.7	359.6	88.08	5.083	
10,900.0	7,200.0	7,482.3	7,228.2	69.0	22.8	90.73	-4,029.4	-851.5	357.8	268.0	89.81	3.984	
11,000.0	7,200.0	7,482.0	7,227.9	70.7	22.8	90.64	-4,029.4	-851.5	274.9	183.4	91.54	3.003	
11,100.0	7,200.0	7,481.7	7,227.7	72.4	22.8	90.54	-4,029.4	-851.5	207.7	114.5	93.26	2.227	
11,200.0	7,200.0	7,481.4	7,227.4	74.2	22.8	90.45	-4,029.4	-851.5	175.3	80.3	94.99	1.845	
11,212.2	7,200.0	7,481.4	7,227.3	74.4	22.8	90.44	-4,029.4	-851.5	174.8	79.6	95.20	1.836 CC, ES, SF	
11,300.0	7,200.0	7,481.1	7,227.1	75.9	22.8	90.36	-4,029.4	-851.5	195.7	98.9	96.72	2.023	
11,400.0	7,200.0	7,480.9	7,226.8	77.6	22.8	90.27	-4,029.4	-851.5	256.6	158.2	98.46	2.606	
11,500.0	7,200.0	7,480.6	7,226.5	79.3	22.8	90.17	-4,029.4	-851.5	336.8	236.6	100.19	3.361	
11,600.0	7,200.0	7,480.3	7,226.2	81.0	22.8	90.08	-4,029.4	-851.5	425.4	323.5	101.92	4.174	
11,700.0	7,200.0	7,480.0	7,226.0	82.7	22.8	89.99	-4,029.4	-851.5	518.2	414.6	103.66	4.999	
11,800.0	7,200.0	7,479.7	7,225.7	84.4	22.8	89.90	-4,029.4	-851.5	613.3	507.9	105.39	5.819	
11,900.0	7,200.0	7,479.5	7,225.4	86.2	22.8	89.80	-4,029.4	-851.5	709.7	602.6	107.13	6.625	
12,000.0	7,200.0	7,479.2	7,225.1	87.9	22.8	89.71	-4,029.4	-851.5	807.0	698.1	108.86	7.413	
12,100.0	7,200.0	7,478.9	7,224.8	89.6	22.8	89.62	-4,029.4	-851.5	904.9	794.3	110.60	8.182	
12,200.0	7,200.0	7,478.6	7,224.6	91.3	22.8	89.53	-4,029.4	-851.5	1,003.2	890.8	112.33	8.930	
12,300.0	7,200.0	7,478.3	7,224.3	93.0	22.8	89.43	-4,029.4	-851.5	1,101.8	987.7	114.07	9.659	
12,400.0	7,200.0	7,478.0	7,224.0	94.8	22.8	89.34	-4,029.4	-851.5	1,200.6	1,084.8	115.81	10.367	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8035-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,200.0	7,207.0	7,207.0	37.6	12.6	-90.00	-3,013.3	-379.4	1,228.8	1,180.5	48.39	25.392		
9,100.0	7,200.0	7,207.0	7,207.0	39.2	12.6	-90.00	-3,013.3	-379.4	1,132.0	1,081.9	50.05	22.618		
9,200.0	7,200.0	7,207.0	7,207.0	40.8	12.6	-90.00	-3,013.3	-379.4	1,035.7	984.0	51.71	20.030		
9,300.0	7,200.0	7,207.0	7,207.0	42.4	12.6	-90.00	-3,013.3	-379.4	940.1	886.8	53.37	17.614		
9,400.0	7,200.0	7,207.0	7,207.0	44.0	12.6	-90.00	-3,013.3	-379.4	845.7	790.6	55.05	15.362		
9,500.0	7,200.0	7,207.0	7,207.0	45.6	12.6	-90.00	-3,013.3	-379.4	752.6	695.9	56.73	13.267		
9,600.0	7,200.0	7,207.0	7,207.0	47.3	12.6	-90.00	-3,013.3	-379.4	661.6	603.1	58.42	11.325		
9,700.0	7,200.0	7,207.0	7,207.0	48.9	12.6	-90.00	-3,013.3	-379.4	573.5	513.4	60.11	9.542		
9,800.0	7,200.0	7,207.0	7,207.0	50.6	12.6	-90.00	-3,013.3	-379.4	490.1	428.3	61.80	7.930		
9,900.0	7,200.0	7,207.0	7,207.0	52.2	12.6	-90.00	-3,013.3	-379.4	414.1	350.6	63.50	6.521		
10,000.0	7,200.0	7,207.0	7,207.0	53.9	12.6	-90.00	-3,013.3	-379.4	350.3	285.1	65.20	5.373		
10,100.0	7,200.0	7,207.0	7,207.0	55.5	12.6	-90.00	-3,013.3	-379.4	306.6	239.7	66.91	4.582		
10,193.7	7,200.0	7,207.0	7,207.0	57.1	12.6	-90.00	-3,013.3	-379.4	291.9	223.4	68.51	4.261 CC		
10,200.0	7,200.0	7,207.0	7,207.0	57.2	12.6	-90.00	-3,013.3	-379.4	292.0	223.4	68.62	4.255 ES, SF		
10,300.0	7,200.0	7,207.0	7,207.0	58.9	12.6	-90.00	-3,013.3	-379.4	310.7	240.4	70.33	4.418		
10,400.0	7,200.0	7,207.0	7,207.0	60.6	12.6	-90.00	-3,013.3	-379.4	357.5	285.4	72.05	4.962		
10,500.0	7,200.0	7,207.0	7,207.0	62.3	12.6	-90.00	-3,013.3	-379.4	423.2	349.4	73.76	5.737		
10,600.0	7,200.0	7,207.0	7,207.0	64.0	12.6	-90.00	-3,013.3	-379.4	500.3	424.8	75.48	6.628		
10,700.0	7,200.0	7,207.0	7,207.0	65.6	12.6	-90.00	-3,013.3	-379.4	584.5	507.3	77.20	7.570		
10,800.0	7,200.0	7,207.0	7,207.0	67.3	12.6	-90.00	-3,013.3	-379.4	673.0	594.0	78.93	8.526		
10,900.0	7,200.0	7,207.0	7,207.0	69.0	12.6	-90.00	-3,013.3	-379.4	764.3	683.6	80.65	9.477		
11,000.0	7,200.0	7,207.0	7,207.0	70.7	12.6	-90.00	-3,013.3	-379.4	857.6	775.2	82.37	10.410		
11,100.0	7,200.0	7,207.0	7,207.0	72.4	12.6	-90.00	-3,013.3	-379.4	952.2	868.1	84.10	11.322		
11,200.0	7,200.0	7,207.0	7,207.0	74.2	12.6	-90.00	-3,013.3	-379.4	1,047.8	962.0	85.83	12.208		
11,300.0	7,200.0	7,207.0	7,207.0	75.9	12.6	-90.00	-3,013.3	-379.4	1,144.2	1,056.6	87.56	13.068		
11,400.0	7,200.0	7,207.0	7,207.0	77.6	12.6	-90.00	-3,013.3	-379.4	1,241.2	1,151.9	89.29	13.900		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8028-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-150.18	-387.2	-222.0	446.4					
100.0	100.0	93.0	93.0	0.2	0.2	-150.18	-387.2	-222.0	446.3	446.0	0.31	1,419.853		
200.0	200.0	193.0	193.0	0.3	0.3	-150.18	-387.2	-222.0	446.3	445.7	0.66	672.788		
300.0	300.0	293.0	293.0	0.5	0.5	-150.18	-387.2	-222.0	446.3	445.3	1.01	440.838		
400.0	400.0	393.0	393.0	0.7	0.7	-150.18	-387.2	-222.0	446.3	445.0	1.36	327.819		
500.0	500.0	493.0	493.0	0.9	0.9	-78.26	-387.2	-222.0	446.0	444.3	1.71	260.407		
600.0	599.8	592.8	592.8	1.0	1.0	-78.94	-387.2	-222.0	444.9	442.9	2.07	214.443		
700.0	699.5	692.5	692.5	1.3	1.2	-80.07	-387.2	-222.0	443.4	440.9	2.46	180.240		
800.0	798.9	791.9	791.9	1.5	1.4	-81.38	-387.2	-222.0	441.7	438.8	2.86	154.593		
900.0	898.4	891.4	891.4	1.7	1.6	-82.70	-387.2	-222.0	440.3	437.0	3.26	134.954		
1,000.0	997.9	990.9	990.9	1.9	1.7	-84.02	-387.2	-222.0	439.1	435.4	3.67	119.550		
1,100.0	1,097.3	1,090.3	1,090.3	2.2	1.9	-85.35	-387.2	-222.0	438.1	434.0	4.09	107.207		
1,200.0	1,196.8	1,189.8	1,189.8	2.4	2.1	-86.69	-387.2	-222.0	437.4	432.9	4.50	97.136		
1,300.0	1,296.3	1,289.3	1,289.3	2.7	2.3	-88.03	-387.2	-222.0	436.9	432.0	4.92	88.790		
1,400.0	1,395.7	1,388.7	1,388.7	2.9	2.4	-89.37	-387.2	-222.0	436.7	431.3	5.34	81.780		
1,447.2	1,442.7	1,435.7	1,435.7	3.0	2.5	-90.00	-387.2	-222.0	436.6	431.1	5.54	78.853		
1,500.0	1,495.2	1,488.2	1,488.2	3.2	2.6	-90.71	-387.2	-222.0	436.7	430.9	5.76	75.825		
1,600.0	1,594.7	1,587.7	1,587.7	3.4	2.8	-92.05	-387.2	-222.0	436.9	430.8	6.18	70.717		
1,700.0	1,694.2	1,687.2	1,687.2	3.7	2.9	-93.39	-387.2	-222.0	437.4	430.8	6.60	66.298		
1,800.0	1,793.6	1,786.6	1,786.6	3.9	3.1	-94.72	-387.2	-222.0	438.2	431.1	7.02	62.446		
1,900.0	1,893.1	1,886.1	1,886.1	4.2	3.3	-96.05	-387.2	-222.0	439.1	431.7	7.43	59.067		
2,000.0	1,992.6	1,985.6	1,985.6	4.4	3.5	-97.38	-387.2	-222.0	440.3	432.5	7.85	56.086		
2,100.0	2,092.0	2,085.0	2,085.0	4.6	3.6	-98.69	-387.2	-222.0	441.8	433.5	8.27	53.442		
2,200.0	2,191.5	2,184.5	2,184.5	4.9	3.8	-100.00	-387.2	-222.0	443.5	434.8	8.68	51.087		
2,300.0	2,291.0	2,284.0	2,284.0	5.1	4.0	-101.30	-387.2	-222.0	445.4	436.3	9.09	48.982		
2,400.0	2,390.4	2,383.4	2,383.4	5.4	4.2	-102.58	-387.2	-222.0	447.5	438.0	9.50	47.092		
2,500.0	2,489.9	2,482.9	2,482.9	5.6	4.3	-103.85	-387.2	-222.0	449.9	440.0	9.91	45.390		
2,600.0	2,589.4	2,582.4	2,582.4	5.9	4.5	-105.11	-387.2	-222.0	452.5	442.1	10.32	43.854		
2,700.0	2,688.9	2,681.9	2,681.9	6.1	4.7	-106.35	-387.2	-222.0	455.3	444.5	10.72	42.463		
2,800.0	2,788.3	2,781.3	2,781.3	6.4	4.9	-107.58	-387.2	-222.0	458.3	447.1	11.12	41.201		
2,900.0	2,887.8	2,880.8	2,880.8	6.6	5.0	-108.79	-387.2	-222.0	461.5	450.0	11.52	40.053		
3,000.0	2,987.3	2,980.3	2,980.3	6.9	5.2	-109.99	-387.2	-222.0	464.9	453.0	11.92	39.008		
3,100.0	3,086.7	3,079.7	3,079.7	7.1	5.4	-111.16	-387.2	-222.0	468.6	456.2	12.31	38.053		
3,200.0	3,186.2	3,179.2	3,179.2	7.4	5.5	-112.32	-387.2	-222.0	472.4	459.7	12.70	37.181		
3,300.0	3,285.7	3,278.7	3,278.7	7.6	5.7	-113.46	-387.2	-222.0	476.4	463.3	13.09	36.382		
3,400.0	3,385.1	3,378.1	3,378.1	7.9	5.9	-114.58	-387.2	-222.0	480.6	467.1	13.48	35.650		
3,500.0	3,484.6	3,477.6	3,477.6	8.1	6.1	-115.68	-387.2	-222.0	485.0	471.1	13.87	34.978		
3,600.0	3,584.1	3,577.1	3,577.1	8.4	6.2	-116.76	-387.2	-222.0	489.5	475.3	14.25	34.360		
3,700.0	3,683.6	3,676.6	3,676.6	8.6	6.4	-117.82	-387.2	-222.0	494.3	479.7	14.63	33.792		
3,800.0	3,783.0	3,776.0	3,776.0	8.9	6.6	-118.86	-387.2	-222.0	499.2	484.2	15.00	33.269		
3,900.0	3,882.5	3,875.5	3,875.5	9.1	6.8	-119.88	-387.2	-222.0	504.2	488.9	15.38	32.787		
4,000.0	3,982.0	3,975.0	3,975.0	9.4	6.9	-120.88	-387.2	-222.0	509.5	493.7	15.75	32.343		
4,100.0	4,081.4	4,074.4	4,074.4	9.6	7.1	-121.85	-387.2	-222.0	514.8	498.7	16.12	31.933		
4,200.0	4,180.9	4,173.9	4,173.9	9.9	7.3	-122.81	-387.2	-222.0	520.4	503.9	16.49	31.554		
4,300.0	4,280.4	4,273.4	4,273.4	10.1	7.5	-123.75	-387.2	-222.0	526.0	509.2	16.86	31.204		
4,400.0	4,379.8	4,372.8	4,372.8	10.4	7.6	-124.67	-387.2	-222.0	531.8	514.6	17.22	30.880		
4,500.0	4,479.3	4,472.3	4,472.3	10.6	7.8	-125.57	-387.2	-222.0	537.8	520.2	17.58	30.581		
4,600.0	4,578.8	4,571.8	4,571.8	10.9	8.0	-126.44	-387.2	-222.0	543.8	525.9	17.95	30.304		
4,700.0	4,678.3	4,671.3	4,671.3	11.1	8.2	-127.30	-387.2	-222.0	550.0	531.7	18.30	30.047		
4,800.0	4,777.7	4,770.7	4,770.7	11.4	8.3	-128.14	-387.2	-222.0	556.3	537.7	18.66	29.810		
4,900.0	4,877.2	4,870.2	4,870.2	11.7	8.5	-128.96	-387.2	-222.0	562.8	543.7	19.02	29.590		
5,000.0	4,976.7	4,969.7	4,969.7	11.9	8.7	-129.77	-387.2	-222.0	569.3	549.9	19.37	29.386		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8028-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.1	5,069.1	5,069.1	12.2	8.8	-130.55	-387.2	-222.0	575.9	556.2	19.73	29.197		
5,200.0	5,175.6	5,168.6	5,168.6	12.4	9.0	-131.31	-387.2	-222.0	582.7	562.6	20.08	29.022		
5,300.0	5,275.1	5,268.1	5,268.1	12.7	9.2	-132.06	-387.2	-222.0	589.6	569.1	20.43	28.860		
5,400.0	5,374.5	5,367.5	5,367.5	12.9	9.4	-132.79	-387.2	-222.0	596.5	575.7	20.78	28.709		
5,500.0	5,474.0	5,467.0	5,467.0	13.2	9.5	-133.51	-387.2	-222.0	603.6	582.4	21.13	28.569		
5,600.0	5,573.5	5,566.5	5,566.5	13.4	9.7	-134.21	-387.2	-222.0	610.7	589.2	21.47	28.440		
5,700.0	5,673.0	5,666.0	5,666.0	13.7	9.9	-134.89	-387.2	-222.0	617.9	596.1	21.82	28.320		
5,800.0	5,772.4	5,765.4	5,765.4	13.9	10.1	-135.55	-387.2	-222.0	625.3	603.1	22.17	28.209		
5,900.0	5,871.9	5,864.9	5,864.9	14.2	10.2	-136.20	-387.2	-222.0	632.7	610.2	22.51	28.105		
6,000.0	5,971.4	5,964.4	5,964.4	14.4	10.4	-136.84	-387.2	-222.0	640.1	617.3	22.85	28.010		
6,100.0	6,070.8	6,063.8	6,063.8	14.7	10.6	-137.46	-387.2	-222.0	647.7	624.5	23.20	27.921		
6,200.0	6,170.3	6,163.3	6,163.3	14.9	10.8	-138.07	-387.2	-222.0	655.3	631.8	23.54	27.839		
6,300.0	6,269.8	6,262.8	6,262.8	15.2	10.9	-138.66	-387.2	-222.0	663.0	639.2	23.88	27.763		
6,400.0	6,369.2	6,362.2	6,362.2	15.4	11.1	-139.24	-387.2	-222.0	670.8	646.6	24.22	27.693		
6,500.0	6,468.7	6,461.7	6,461.7	15.7	11.3	-139.80	-387.2	-222.0	678.6	654.1	24.56	27.628		
6,600.0	6,568.2	6,561.2	6,561.2	15.9	11.5	-140.36	-387.2	-222.0	686.5	661.6	24.90	27.568		
6,700.0	6,667.7	6,660.7	6,660.7	16.1	11.6	-89.46	-387.2	-222.0	692.2	667.0	25.25	27.413		
6,800.0	6,765.9	6,758.9	6,758.9	16.3	11.8	-57.64	-387.2	-222.0	685.1	659.8	25.26	27.124		
6,900.0	6,860.0	6,853.0	6,853.0	16.4	12.0	-52.39	-387.2	-222.0	664.5	639.6	24.92	26.668		
7,000.0	6,947.0	6,940.0	6,940.0	16.6	12.1	-54.13	-387.2	-222.0	632.4	607.9	24.49	25.829		
7,100.0	7,024.5	7,017.5	7,017.5	16.7	12.2	-59.67	-387.2	-222.0	591.6	567.3	24.31	24.337		
7,200.0	7,090.0	7,083.0	7,083.0	17.0	12.4	-67.76	-387.2	-222.0	546.1	521.4	24.64	22.164		
7,300.0	7,141.4	7,134.4	7,134.4	17.3	12.5	-76.75	-387.2	-222.0	501.2	475.8	25.36	19.764		
7,400.0	7,177.4	7,170.4	7,170.4	17.8	12.5	-84.49	-387.2	-222.0	463.6	437.4	26.16	17.722		
7,500.0	7,196.7	7,189.7	7,189.7	18.4	12.5	-89.12	-387.2	-222.0	440.4	413.4	26.97	16.329		
7,565.2	7,201.4	7,194.4	7,194.4	18.9	12.6	-90.00	-387.2	-222.0	435.8	408.2	27.58	15.801	CC, ES	
7,600.0	7,200.0	7,193.0	7,193.0	19.2	12.6	-90.00	-387.2	-222.0	436.9	409.0	27.89	15.664	SF	
7,700.0	7,200.0	7,193.0	7,193.0	20.1	12.6	-90.00	-387.2	-222.0	455.5	426.5	28.99	15.715		
7,800.0	7,200.0	7,193.0	7,193.0	21.1	12.6	-90.00	-387.2	-222.0	494.1	463.9	30.19	16.367		
7,900.0	7,200.0	7,193.0	7,193.0	22.2	12.6	-90.00	-387.2	-222.0	548.5	517.0	31.48	17.422		
8,000.0	7,200.0	7,193.0	7,193.0	23.3	12.6	-90.00	-387.2	-222.0	614.4	581.5	32.84	18.708		
8,100.0	7,200.0	7,193.0	7,193.0	24.6	12.6	-90.00	-387.2	-222.0	688.5	654.3	34.25	20.101		
8,200.0	7,200.0	7,193.0	7,193.0	25.9	12.6	-90.00	-387.2	-222.0	768.6	732.9	35.72	21.519		
8,300.0	7,200.0	7,193.0	7,193.0	27.2	12.6	-90.00	-387.2	-222.0	852.9	815.6	37.22	22.916		
8,400.0	7,200.0	7,193.0	7,193.0	28.6	12.6	-90.00	-387.2	-222.0	940.2	901.5	38.75	24.264		
8,500.0	7,200.0	7,193.0	7,193.0	30.1	12.6	-90.00	-387.2	-222.0	1,029.9	989.6	40.31	25.551		
8,600.0	7,200.0	7,193.0	7,193.0	31.5	12.6	-90.00	-387.2	-222.0	1,121.3	1,079.4	41.89	26.769		
8,700.0	7,200.0	7,193.0	7,193.0	33.0	12.6	-90.00	-387.2	-222.0	1,214.1	1,170.6	43.49	27.918		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER U 14-11 (EXISTING) - EXISTING - NO SURVE										Offset Site Error:		0.0 ft		
Survey Program: 7625-MWD										Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,200.0	7,196.0	7,196.0	39.2	12.6	-90.00	-2,519.4	446.8	1,264.5	1,214.5	50.03	25.276		
9,200.0	7,200.0	7,196.0	7,196.0	40.8	12.6	-90.00	-2,519.4	446.8	1,220.6	1,168.9	51.69	23.615		
9,300.0	7,200.0	7,196.0	7,196.0	42.4	12.6	-90.00	-2,519.4	446.8	1,183.5	1,130.2	53.35	22.183		
9,400.0	7,200.0	7,196.0	7,196.0	44.0	12.6	-90.00	-2,519.4	446.8	1,154.0	1,099.0	55.03	20.971		
9,500.0	7,200.0	7,196.0	7,196.0	45.6	12.6	-90.00	-2,519.4	446.8	1,132.5	1,075.8	56.71	19.971		
9,600.0	7,200.0	7,196.0	7,196.0	47.3	12.6	-90.00	-2,519.4	446.8	1,119.6	1,061.2	58.40	19.173		
9,695.4	7,200.0	7,196.0	7,196.0	48.8	12.6	-90.00	-2,519.4	446.8	1,115.5	1,055.5	60.01	18.590 CC		
9,700.0	7,200.0	7,196.0	7,196.0	48.9	12.6	-90.00	-2,519.4	446.8	1,115.5	1,055.5	60.09	18.566 ES		
9,800.0	7,200.0	7,196.0	7,196.0	50.6	12.6	-90.00	-2,519.4	446.8	1,120.4	1,058.6	61.78	18.135		
9,900.0	7,200.0	7,196.0	7,196.0	52.2	12.6	-90.00	-2,519.4	446.8	1,134.1	1,070.7	63.48	17.866		
10,000.0	7,200.0	7,196.0	7,196.0	53.9	12.6	-90.00	-2,519.4	446.8	1,156.4	1,091.2	65.19	17.740		
10,100.0	7,200.0	7,196.0	7,196.0	55.5	12.6	-90.00	-2,519.4	446.8	1,186.7	1,119.8	66.89	17.740 SF		
10,200.0	7,200.0	7,196.0	7,196.0	57.2	12.6	-90.00	-2,519.4	446.8	1,224.4	1,155.8	68.60	17.848		
10,300.0	7,200.0	7,196.0	7,196.0	58.9	12.6	-90.00	-2,519.4	446.8	1,268.9	1,198.5	70.31	18.046		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER U 14-14 (EXISTING) - EXISTING - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 7650-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,200.0	7,201.0	7,201.0	60.6	12.6	-90.00	-4,051.9	287.2	1,271.2	1,199.2	72.04	17.647		
10,500.0	7,200.0	7,201.0	7,201.0	62.3	12.6	-90.00	-4,051.9	287.2	1,208.4	1,134.6	73.75	16.384		
10,600.0	7,200.0	7,201.0	7,201.0	64.0	12.6	-90.00	-4,051.9	287.2	1,150.9	1,075.4	75.47	15.249		
10,700.0	7,200.0	7,201.0	7,201.0	65.6	12.6	-90.00	-4,051.9	287.2	1,099.4	1,022.2	77.19	14.243		
10,800.0	7,200.0	7,201.0	7,201.0	67.3	12.6	-90.00	-4,051.9	287.2	1,055.0	976.1	78.91	13.369		
10,900.0	7,200.0	7,201.0	7,201.0	69.0	12.6	-90.00	-4,051.9	287.2	1,018.4	937.8	80.64	12.630		
11,000.0	7,200.0	7,201.0	7,201.0	70.7	12.6	-90.00	-4,051.9	287.2	990.7	908.3	82.36	12.028		
11,100.0	7,200.0	7,201.0	7,201.0	72.4	12.6	-90.00	-4,051.9	287.2	972.5	888.4	84.09	11.565		
11,200.0	7,200.0	7,201.0	7,201.0	74.2	12.6	-90.00	-4,051.9	287.2	964.4	878.5	85.82	11.237		
11,228.7	7,200.0	7,201.0	7,201.0	74.6	12.6	-90.00	-4,051.9	287.2	963.9	877.6	86.32	11.167 CC, ES		
11,300.0	7,200.0	7,201.0	7,201.0	75.9	12.6	-90.00	-4,051.9	287.2	966.6	879.0	87.55	11.040		
11,400.0	7,200.0	7,201.0	7,201.0	77.6	12.6	-90.00	-4,051.9	287.2	979.0	889.8	89.28	10.966 SF		
11,500.0	7,200.0	7,201.0	7,201.0	79.3	12.6	-90.00	-4,051.9	287.2	1,001.4	910.4	91.01	11.003		
11,600.0	7,200.0	7,201.0	7,201.0	81.0	12.6	-90.00	-4,051.9	287.2	1,033.0	940.2	92.74	11.138		
11,700.0	7,200.0	7,201.0	7,201.0	82.7	12.6	-90.00	-4,051.9	287.2	1,073.0	978.5	94.48	11.357		
11,800.0	7,200.0	7,201.0	7,201.0	84.4	12.6	-90.00	-4,051.9	287.2	1,120.5	1,024.3	96.21	11.646		
11,900.0	7,200.0	7,201.0	7,201.0	86.2	12.6	-90.00	-4,051.9	287.2	1,174.6	1,076.7	97.95	11.993		
12,000.0	7,200.0	7,201.0	7,201.0	87.9	12.6	-90.00	-4,051.9	287.2	1,234.5	1,134.8	99.68	12.384		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury) - SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 104-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
6,300.0	6,269.8	6,304.7	6,246.3	15.2	15.6	55.57	1,406.2	-930.2	1,278.7	1,251.8	26.91	47.520		
6,400.0	6,369.2	6,404.2	6,345.9	15.4	15.8	55.98	1,406.8	-929.7	1,273.3	1,246.0	27.27	46.686		
6,500.0	6,468.7	6,501.2	6,442.9	15.7	15.9	56.36	1,407.3	-929.6	1,268.1	1,240.4	27.64	45.871		
6,600.0	6,568.2	6,600.3	6,542.0	15.9	16.0	56.74	1,407.9	-930.0	1,263.0	1,235.0	28.02	45.075		
6,676.7	6,644.5	6,676.8	6,618.4	16.1	16.1	98.46	1,408.3	-930.3	1,262.0	1,233.6	28.37	44.479		
6,700.0	6,667.7	6,699.9	6,641.5	16.1	16.1	108.59	1,408.4	-930.4	1,260.7	1,232.2	28.46	44.302	CC, ES, SF	
6,800.0	6,765.9	6,797.6	6,739.2	16.3	16.2	142.44	1,409.0	-930.8	1,273.6	1,245.1	28.49	44.699		

Cathedral Energy Services

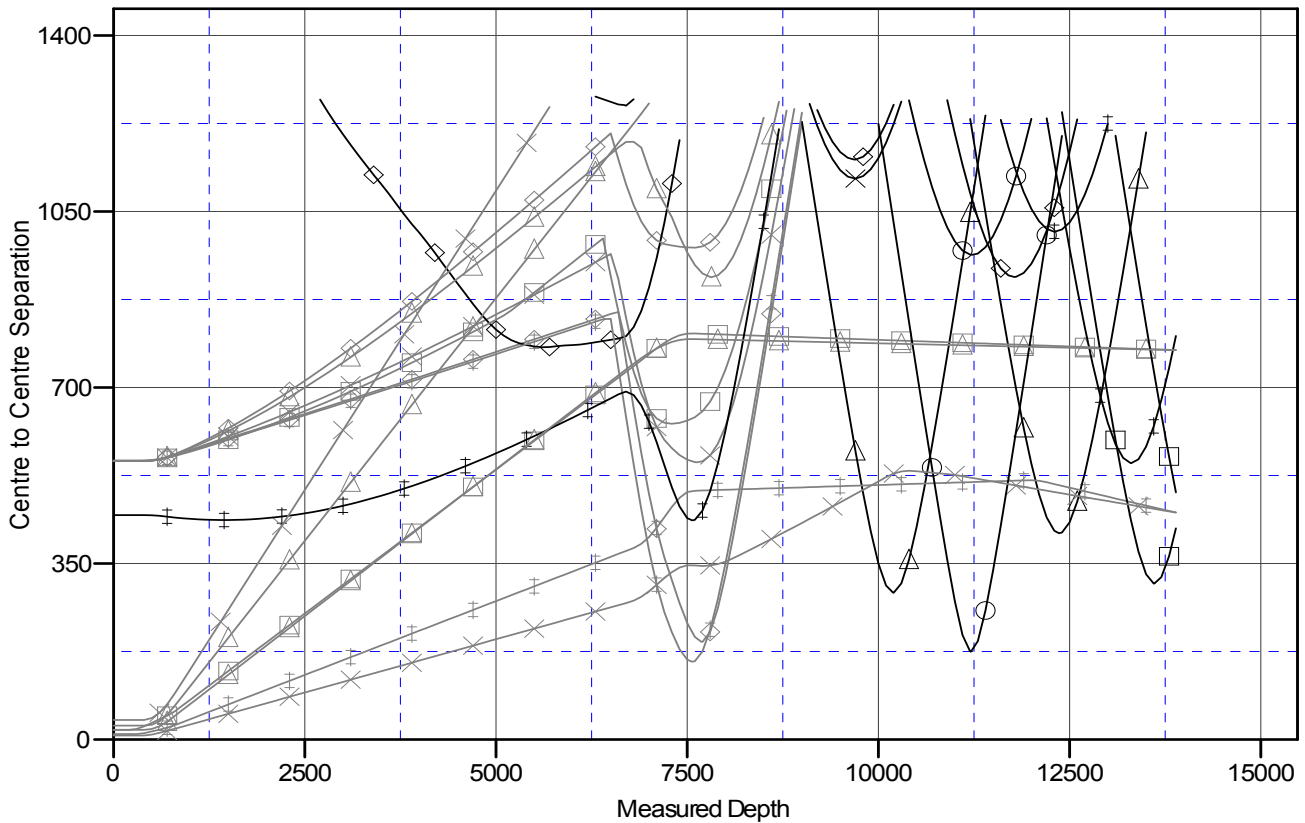
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Elmquist 2C-14H-C268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 4894.0ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Grant Elmquist 2C-14H-C268
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

14H-C268, Hz, Plan #1 V0 (EXISTING), EXISTING, GYRO V0	DEL CAMINO 11-14 (EXISTING), EXISTING, NO SURVEYS V0	GrantSalisbury2F-14H-C268, Hz, Plan #
14H-C268, Hz, Plan #1 V0 (EXISTING), EXISTING, NO SURVEYS V0	GRANT 2-8-11 (EXISTING), EXISTING, SURVEYS V0	OLANDER 2 (EXISTING), EXISTING, N
14H-C268, Hz, Plan #2 V0 (EXISTING), EXISTING, GYRO V0	OLANDER U 14-11 (EXISTING), EXISTING, NO SURVEYS V0	ELMQUIST 0-0-23 (EXISTING), EXISTII
14H-C268, Hz, Plan #2 V0 (EXISTING), EXISTING, SURVEYS V0	GrantElmquist2B-14H-C268, Hz, Plan #2 V0	SALISBURY 14-11 (EXISTING), EXISTII
3 (EXISTING), EXISTING, SURVEYS V0	GrantSalisbury2E-14H-C268, Hz, Plan #1 V0	GrantElmquist2D-14H-C268, Hz, Plan #
4 (EXISTING), EXISTING, NO SURVEYS V0	HSR-BEAR 13-14A (EXISTING), EXISTING, SURVEYS V0	GrantElmquist2E-14H-C268, Hz, Plan #
	GrantSalisbury2C-14H-C268, Hz, Plan #1 V0	GrantElmquist2F-14H-C268, Hz, Plan #
	GrantSalisbury2A-14H-C268, Hz, Plan #1 V0	GrantElmquist2G-14H-C268, Hz, Plan #
	ELMQUIST 12-23 (EXISTING), EXISTING, NO SURVEYS V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation