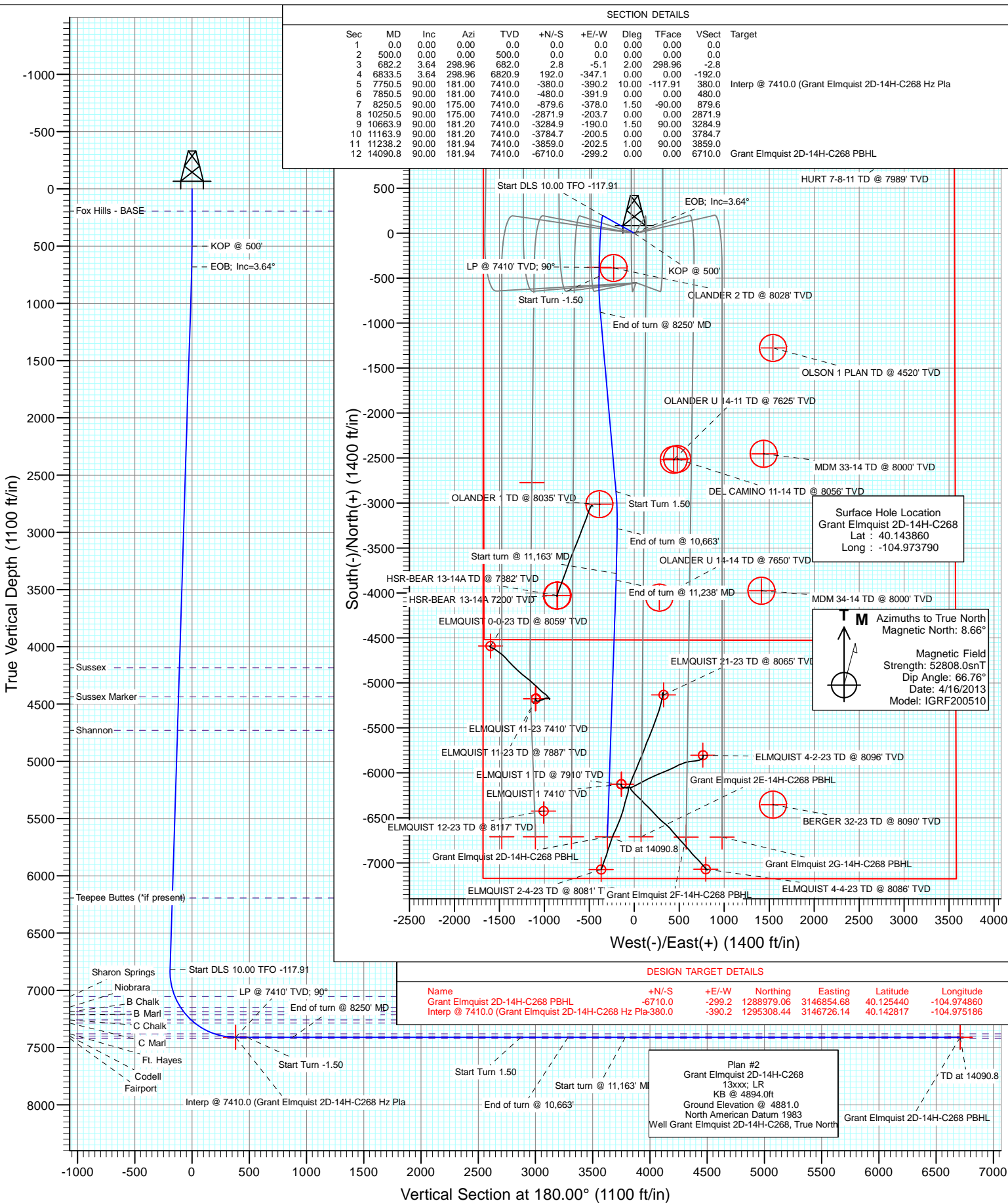




Project: DJ Wattenberg
 Site: S14-T2N-R68W (Grant Elmquist/Salisbury)
 Well: Grant Elmquist 2D-14H-C268
 Wellbore: Hz
 Design: Plan #2



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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 2D-14H-C268						
Well Position	+N/-S	0.0 ft	Northing:	1,295,690.75 ft	Latitude:	40.143860
	+E/-W	0.0 ft	Easting:	3,147,114.07 ft	Longitude:	-104.973790
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
	IGRF200510	4/16/2013	(°)	(°)	(nT)
			8.66	66.76	52,808

Design Plan #2					
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
682.2	3.64	298.96	682.0	2.8	-5.1	2.00	2.00	0.00	298.96	
6,833.5	3.64	298.96	6,820.9	192.0	-347.1	0.00	0.00	0.00	0.00	
7,750.5	90.00	181.00	7,410.0	-380.0	-390.2	10.00	9.42	-12.86	-117.91	Interp @ 7410.0 (Gra
7,850.5	90.00	181.00	7,410.0	-480.0	-391.9	0.00	0.00	0.00	0.00	
8,250.5	90.00	175.00	7,410.0	-879.6	-378.0	1.50	0.00	-1.50	-90.00	
10,250.5	90.00	175.00	7,410.0	-2,871.9	-203.7	0.00	0.00	0.00	0.00	
10,663.9	90.00	181.20	7,410.0	-3,284.9	-190.0	1.50	0.00	1.50	90.00	
11,163.9	90.00	181.20	7,410.0	-3,784.7	-200.5	0.00	0.00	0.00	0.00	
11,238.2	90.00	181.94	7,410.0	-3,859.0	-202.5	1.00	0.00	1.00	90.00	
14,090.8	90.00	181.94	7,410.0	-6,710.0	-299.2	0.00	0.00	0.00	0.00	Grant Elmquist 2D-14

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	2.00	298.96	600.0	0.8	-1.5	-0.8	2.00	2.00	
682.2	3.64	298.96	682.0	2.8	-5.1	-2.8	2.00	2.00	EOB; Inc=3.64°
700.0	3.64	298.96	699.8	3.4	-6.1	-3.4	0.00	0.00	
800.0	3.64	298.96	799.6	6.4	-11.6	-6.4	0.00	0.00	
900.0	3.64	298.96	899.4	9.5	-17.2	-9.5	0.00	0.00	
1,000.0	3.64	298.96	999.2	12.6	-22.7	-12.6	0.00	0.00	
1,100.0	3.64	298.96	1,099.0	15.7	-28.3	-15.7	0.00	0.00	
1,200.0	3.64	298.96	1,198.8	18.7	-33.9	-18.7	0.00	0.00	
1,300.0	3.64	298.96	1,298.6	21.8	-39.4	-21.8	0.00	0.00	
1,400.0	3.64	298.96	1,398.4	24.9	-45.0	-24.9	0.00	0.00	
1,500.0	3.64	298.96	1,498.2	28.0	-50.5	-28.0	0.00	0.00	
1,600.0	3.64	298.96	1,598.0	31.0	-56.1	-31.0	0.00	0.00	
1,700.0	3.64	298.96	1,697.8	34.1	-61.7	-34.1	0.00	0.00	
1,800.0	3.64	298.96	1,797.6	37.2	-67.2	-37.2	0.00	0.00	
1,900.0	3.64	298.96	1,897.4	40.3	-72.8	-40.3	0.00	0.00	
2,000.0	3.64	298.96	1,997.2	43.3	-78.3	-43.3	0.00	0.00	
2,100.0	3.64	298.96	2,097.0	46.4	-83.9	-46.4	0.00	0.00	
2,200.0	3.64	298.96	2,196.8	49.5	-89.5	-49.5	0.00	0.00	
2,300.0	3.64	298.96	2,296.6	52.6	-95.0	-52.6	0.00	0.00	
2,400.0	3.64	298.96	2,396.4	55.6	-100.6	-55.6	0.00	0.00	
2,500.0	3.64	298.96	2,496.2	58.7	-106.1	-58.7	0.00	0.00	
2,600.0	3.64	298.96	2,596.0	61.8	-111.7	-61.8	0.00	0.00	
2,700.0	3.64	298.96	2,695.8	64.9	-117.3	-64.9	0.00	0.00	
2,800.0	3.64	298.96	2,795.6	68.0	-122.8	-68.0	0.00	0.00	
2,900.0	3.64	298.96	2,895.4	71.0	-128.4	-71.0	0.00	0.00	
3,000.0	3.64	298.96	2,995.2	74.1	-133.9	-74.1	0.00	0.00	
3,100.0	3.64	298.96	3,095.0	77.2	-139.5	-77.2	0.00	0.00	
3,200.0	3.64	298.96	3,194.8	80.3	-145.1	-80.3	0.00	0.00	
3,300.0	3.64	298.96	3,294.6	83.3	-150.6	-83.3	0.00	0.00	
3,400.0	3.64	298.96	3,394.4	86.4	-156.2	-86.4	0.00	0.00	
3,500.0	3.64	298.96	3,494.2	89.5	-161.7	-89.5	0.00	0.00	
3,600.0	3.64	298.96	3,594.0	92.6	-167.3	-92.6	0.00	0.00	
3,700.0	3.64	298.96	3,693.8	95.6	-172.9	-95.6	0.00	0.00	
3,800.0	3.64	298.96	3,793.6	98.7	-178.4	-98.7	0.00	0.00	
3,900.0	3.64	298.96	3,893.4	101.8	-184.0	-101.8	0.00	0.00	
4,000.0	3.64	298.96	3,993.2	104.9	-189.5	-104.9	0.00	0.00	
4,100.0	3.64	298.96	4,093.0	107.9	-195.1	-107.9	0.00	0.00	
4,189.2	3.64	298.96	4,182.0	110.7	-200.1	-110.7	0.00	0.00	Sussex
4,200.0	3.64	298.96	4,192.8	111.0	-200.7	-111.0	0.00	0.00	
4,300.0	3.64	298.96	4,292.6	114.1	-206.2	-114.1	0.00	0.00	
4,400.0	3.64	298.96	4,392.4	117.2	-211.8	-117.2	0.00	0.00	
4,443.7	3.64	298.96	4,436.0	118.5	-214.2	-118.5	0.00	0.00	Sussex Marker
4,500.0	3.64	298.96	4,492.2	120.3	-217.3	-120.3	0.00	0.00	
4,600.0	3.64	298.96	4,592.0	123.3	-222.9	-123.3	0.00	0.00	
4,700.0	3.64	298.96	4,691.8	126.4	-228.5	-126.4	0.00	0.00	

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well Grant Elmquist 2D-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 2D-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
4,737.3	3.64	298.96	4,729.0	127.6	-230.5	-127.6	0.00	0.00	Shannon
4,800.0	3.64	298.96	4,791.6	129.5	-234.0	-129.5	0.00	0.00	
4,900.0	3.64	298.96	4,891.4	132.6	-239.6	-132.6	0.00	0.00	
5,000.0	3.64	298.96	4,991.2	135.6	-245.1	-135.6	0.00	0.00	
5,100.0	3.64	298.96	5,090.9	138.7	-250.7	-138.7	0.00	0.00	
5,200.0	3.64	298.96	5,190.7	141.8	-256.3	-141.8	0.00	0.00	
5,300.0	3.64	298.96	5,290.5	144.9	-261.8	-144.9	0.00	0.00	
5,400.0	3.64	298.96	5,390.3	147.9	-267.4	-147.9	0.00	0.00	
5,500.0	3.64	298.96	5,490.1	151.0	-272.9	-151.0	0.00	0.00	
5,600.0	3.64	298.96	5,589.9	154.1	-278.5	-154.1	0.00	0.00	
5,700.0	3.64	298.96	5,689.7	157.2	-284.1	-157.2	0.00	0.00	
5,800.0	3.64	298.96	5,789.5	160.2	-289.6	-160.2	0.00	0.00	
5,900.0	3.64	298.96	5,889.3	163.3	-295.2	-163.3	0.00	0.00	
6,000.0	3.64	298.96	5,989.1	166.4	-300.7	-166.4	0.00	0.00	
6,100.0	3.64	298.96	6,088.9	169.5	-306.3	-169.5	0.00	0.00	
6,200.0	3.64	298.96	6,188.7	172.6	-311.9	-172.6	0.00	0.00	
6,205.3	3.64	298.96	6,194.0	172.7	-312.2	-172.7	0.00	0.00	Teepee Buttes (*if present)
6,300.0	3.64	298.96	6,288.5	175.6	-317.4	-175.6	0.00	0.00	
6,400.0	3.64	298.96	6,388.3	178.7	-323.0	-178.7	0.00	0.00	
6,500.0	3.64	298.96	6,488.1	181.8	-328.5	-181.8	0.00	0.00	
6,600.0	3.64	298.96	6,587.9	184.9	-334.1	-184.9	0.00	0.00	
6,700.0	3.64	298.96	6,687.7	187.9	-339.7	-187.9	0.00	0.00	
6,800.0	3.64	298.96	6,787.5	191.0	-345.2	-191.0	0.00	0.00	
6,833.5	3.64	298.96	6,820.9	192.0	-347.1	-192.0	0.00	0.00	Start DLS 10.00 TFO -117.91
6,900.0	5.90	213.97	6,887.3	190.2	-350.8	-190.2	10.00	3.39	
7,000.0	15.28	192.88	6,985.5	173.1	-356.7	-173.1	10.00	9.38	
7,073.5	22.52	188.80	7,055.0	149.7	-361.0	-149.7	10.00	9.84	Sharon Springs
7,100.0	25.14	187.88	7,079.2	139.1	-362.5	-139.1	10.00	9.90	
7,178.7	32.96	185.98	7,148.0	101.2	-367.1	-101.2	10.00	9.93	Niobrara
7,200.0	35.08	185.59	7,165.6	89.3	-368.3	-89.3	10.00	9.95	
7,227.8	37.85	185.15	7,188.0	72.9	-369.8	-72.9	10.00	9.96	B Chalk
7,258.9	40.94	184.72	7,212.0	53.2	-371.5	-53.2	10.00	9.96	B Marl
7,300.0	45.04	184.22	7,242.1	25.3	-373.7	-25.3	10.00	9.97	
7,324.5	47.48	183.96	7,259.0	7.7	-374.9	-7.7	10.00	9.97	C Chalk
7,366.1	51.63	183.55	7,286.0	-24.0	-377.0	24.0	10.00	9.97	C Marl
7,400.0	55.01	183.26	7,306.2	-51.1	-378.6	51.1	10.00	9.98	
7,500.0	64.99	182.50	7,356.2	-137.5	-382.9	137.5	10.00	9.98	
7,564.2	71.39	182.08	7,380.0	-196.9	-385.3	196.9	10.00	9.98	Ft. Hayes
7,600.0	74.97	181.87	7,390.4	-231.2	-386.5	231.2	10.00	9.98	
7,643.2	79.29	181.61	7,400.0	-273.4	-387.8	273.4	10.00	9.98	Codell
7,700.0	84.96	181.28	7,407.8	-329.5	-389.2	329.5	10.00	9.98	
7,750.5	90.00	181.00	7,410.0	-380.0	-390.2	380.0	10.00	9.98	LP @ 7410' TVD; 90° - Interp @ 7410.0 (Grant
7,800.0	90.00	181.00	7,410.0	-429.5	-391.1	429.5	0.00	0.00	
7,850.5	90.00	181.00	7,410.0	-480.0	-391.9	480.0	0.00	0.00	Start Turn -1.50
7,900.0	90.00	180.26	7,410.0	-529.5	-392.5	529.5	1.50	0.00	
8,000.0	90.00	178.76	7,410.0	-629.4	-391.6	629.4	1.50	0.00	
8,100.0	90.00	177.26	7,410.0	-729.4	-388.2	729.4	1.50	0.00	
8,200.0	90.00	175.76	7,410.0	-829.2	-382.1	829.2	1.50	0.00	
8,250.5	90.00	175.00	7,410.0	-879.6	-378.0	879.6	1.50	0.00	End of turn @ 8250' MD
8,300.0	90.00	175.00	7,410.0	-928.8	-373.7	928.8	0.00	0.00	
8,400.0	90.00	175.00	7,410.0	-1,028.5	-365.0	1,028.5	0.00	0.00	
8,500.0	90.00	175.00	7,410.0	-1,128.1	-356.2	1,128.1	0.00	0.00	

Cathedral Energy Services

Planning Report

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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 2D-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
8,600.0	90.00	175.00	7,410.0	-1,227.7	-347.5	1,227.7	0.00	0.00	
8,700.0	90.00	175.00	7,410.0	-1,327.3	-338.8	1,327.3	0.00	0.00	
8,800.0	90.00	175.00	7,410.0	-1,426.9	-330.1	1,426.9	0.00	0.00	
8,900.0	90.00	175.00	7,410.0	-1,526.6	-321.4	1,526.6	0.00	0.00	
9,000.0	90.00	175.00	7,410.0	-1,626.2	-312.7	1,626.2	0.00	0.00	
9,100.0	90.00	175.00	7,410.0	-1,725.8	-304.0	1,725.8	0.00	0.00	
9,200.0	90.00	175.00	7,410.0	-1,825.4	-295.2	1,825.4	0.00	0.00	
9,300.0	90.00	175.00	7,410.0	-1,925.0	-286.5	1,925.0	0.00	0.00	
9,400.0	90.00	175.00	7,410.0	-2,024.7	-277.8	2,024.7	0.00	0.00	
9,500.0	90.00	175.00	7,410.0	-2,124.3	-269.1	2,124.3	0.00	0.00	
9,600.0	90.00	175.00	7,410.0	-2,223.9	-260.4	2,223.9	0.00	0.00	
9,700.0	90.00	175.00	7,410.0	-2,323.5	-251.7	2,323.5	0.00	0.00	
9,800.0	90.00	175.00	7,410.0	-2,423.1	-242.9	2,423.1	0.00	0.00	
9,900.0	90.00	175.00	7,410.0	-2,522.8	-234.2	2,522.8	0.00	0.00	
10,000.0	90.00	175.00	7,410.0	-2,622.4	-225.5	2,622.4	0.00	0.00	
10,100.0	90.00	175.00	7,410.0	-2,722.0	-216.8	2,722.0	0.00	0.00	
10,200.0	90.00	175.00	7,410.0	-2,821.6	-208.1	2,821.6	0.00	0.00	
10,250.5	90.00	175.00	7,410.0	-2,871.9	-203.7	2,871.9	0.00	0.00	Start Turn 1.50
10,300.0	90.00	175.74	7,410.0	-2,921.3	-199.7	2,921.3	1.50	0.00	
10,400.0	90.00	177.24	7,410.0	-3,021.1	-193.6	3,021.1	1.50	0.00	
10,500.0	90.00	178.74	7,410.0	-3,121.0	-190.1	3,121.0	1.50	0.00	
10,600.0	90.00	180.24	7,410.0	-3,221.0	-189.2	3,221.0	1.50	0.00	
10,663.9	90.00	181.20	7,410.0	-3,284.9	-190.0	3,284.9	1.50	0.00	End of turn @ 10,663'
10,700.0	90.00	181.20	7,410.0	-3,321.0	-190.7	3,321.0	0.00	0.00	
10,800.0	90.00	181.20	7,410.0	-3,421.0	-192.8	3,421.0	0.00	0.00	
10,900.0	90.00	181.20	7,410.0	-3,520.9	-194.9	3,520.9	0.00	0.00	
11,000.0	90.00	181.20	7,410.0	-3,620.9	-197.0	3,620.9	0.00	0.00	
11,100.0	90.00	181.20	7,410.0	-3,720.9	-199.1	3,720.9	0.00	0.00	
11,163.9	90.00	181.20	7,410.0	-3,784.8	-200.5	3,784.8	0.00	0.00	Start turn @ 11,163' MD
11,200.0	90.00	181.56	7,410.0	-3,820.9	-201.3	3,820.9	1.00	0.00	
11,238.2	90.00	181.94	7,410.0	-3,859.0	-202.5	3,859.0	1.00	0.00	End of turn @ 11,238' MD
11,300.0	90.00	181.94	7,410.0	-3,920.8	-204.6	3,920.8	0.00	0.00	
11,400.0	90.00	181.94	7,410.0	-4,020.8	-208.0	4,020.8	0.00	0.00	
11,500.0	90.00	181.94	7,410.0	-4,120.7	-211.4	4,120.7	0.00	0.00	
11,600.0	90.00	181.94	7,410.0	-4,220.6	-214.8	4,220.6	0.00	0.00	
11,700.0	90.00	181.94	7,410.0	-4,320.6	-218.2	4,320.6	0.00	0.00	
11,800.0	90.00	181.94	7,410.0	-4,420.5	-221.5	4,420.5	0.00	0.00	
11,900.0	90.00	181.94	7,410.0	-4,520.5	-224.9	4,520.5	0.00	0.00	
12,000.0	90.00	181.94	7,410.0	-4,620.4	-228.3	4,620.4	0.00	0.00	
12,100.0	90.00	181.94	7,410.0	-4,720.4	-231.7	4,720.4	0.00	0.00	
12,200.0	90.00	181.94	7,410.0	-4,820.3	-235.1	4,820.3	0.00	0.00	
12,300.0	90.00	181.94	7,410.0	-4,920.2	-238.5	4,920.2	0.00	0.00	
12,400.0	90.00	181.94	7,410.0	-5,020.2	-241.9	5,020.2	0.00	0.00	
12,500.0	90.00	181.94	7,410.0	-5,120.1	-245.3	5,120.1	0.00	0.00	
12,600.0	90.00	181.94	7,410.0	-5,220.1	-248.7	5,220.1	0.00	0.00	
12,700.0	90.00	181.94	7,410.0	-5,320.0	-252.1	5,320.0	0.00	0.00	
12,800.0	90.00	181.94	7,410.0	-5,420.0	-255.4	5,420.0	0.00	0.00	
12,900.0	90.00	181.94	7,410.0	-5,519.9	-258.8	5,519.9	0.00	0.00	
13,000.0	90.00	181.94	7,410.0	-5,619.8	-262.2	5,619.8	0.00	0.00	
13,100.0	90.00	181.94	7,410.0	-5,719.8	-265.6	5,719.8	0.00	0.00	
13,200.0	90.00	181.94	7,410.0	-5,819.7	-269.0	5,819.7	0.00	0.00	
13,300.0	90.00	181.94	7,410.0	-5,919.7	-272.4	5,919.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well Grant Elmquist 2D-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 2D-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
13,400.0	90.00	181.94	7,410.0	-6,019.6	-275.8	6,019.6	0.00	0.00	
13,500.0	90.00	181.94	7,410.0	-6,119.6	-279.2	6,119.6	0.00	0.00	
13,600.0	90.00	181.94	7,410.0	-6,219.5	-282.6	6,219.5	0.00	0.00	
13,700.0	90.00	181.94	7,410.0	-6,319.4	-286.0	6,319.4	0.00	0.00	
13,800.0	90.00	181.94	7,410.0	-6,419.4	-289.4	6,419.4	0.00	0.00	
13,900.0	90.00	181.94	7,410.0	-6,519.3	-292.7	6,519.3	0.00	0.00	
14,000.0	90.00	181.94	7,410.0	-6,619.3	-296.1	6,619.3	0.00	0.00	
14,090.8	90.00	181.94	7,410.0	-6,710.0	-299.2	6,710.0	0.00	0.00	TD at 14090.8 - Grant Elmquist 2D-14H-C268 F

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Grant Elmquist 2D-14H- - hit/miss target - plan hits target center - Shape - Point	0.00	0.00	7,410.0	-6,710.0	-299.2	1,288,979.06	3,146,854.68	40.125440	-104.974860
Interp @ 7410.0 (Grant I - plan hits target center - Point	0.00	0.00	7,410.0	-380.0	-390.2	1,295,308.44	3,146,726.14	40.142817	-104.975186

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
194.0	194.0	Fox Hills - BASE				
4,189.2	4,182.0	Sussex				
4,443.7	4,436.0	Sussex Marker				
4,737.3	4,729.0	Shannon				
6,205.3	6,194.0	Teepee Buttes (*if present)				
7,073.5	7,055.0	Sharon Springs				
7,178.7	7,148.0	Niobrara				
7,227.8	7,188.0	B Chalk				
7,258.9	7,212.0	B Marl				
7,324.5	7,259.0	C Chalk				
7,366.1	7,286.0	C Marl				
7,564.2	7,380.0	Ft. Hayes				
7,643.2	7,400.0	Codell				

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-14H-C268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
682.2	682.0	2.8	-5.1	EOB; Inc=3.64°
6,833.5	6,820.9	192.0	-347.1	Start DLS 10.00 TFO -117.91
7,750.5	7,410.0	-380.0	-390.2	LP @ 7410' TVD; 90°
7,850.5	7,410.0	-480.0	-391.9	Start Turn -1.50
8,250.5	7,410.0	-879.6	-378.0	End of turn @ 8250' MD
10,250.5	7,410.0	-2,871.9	-203.7	Start Turn 1.50
10,663.9	7,410.0	-3,284.9	-190.0	End of turn @ 10,663'
11,163.9	7,410.0	-3,784.8	-200.5	Start turn @ 11,163' MD
11,238.2	7,410.0	-3,859.0	-202.5	End of turn @ 11,238' MD
14,090.8	7,410.0	-6,710.0	-299.2	TD at 14090.8

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S14-T2N-R68W (Grant Elmquist/Salisbury)

Grant Elmquist 2D-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 2D-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 2D-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	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,279.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	5/15/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,090.8	Plan #2 (Hz)	MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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)	Distance Between Ellipses (ft)	Separation Factor	Warning
S14-T2N-R68W (Grant Elmquist/Salisbury)						
BERGER 32-23 (EXISTING) - EXISTING - NO SURVEY						Out of range
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV	9,950.2	7,406.0	709.0	647.9	11.611	CC, ES
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV	10,100.0	7,406.0	724.6	661.0	11.392	SF
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 1 (EXISTING) - EXISTING - GYRO	13,502.3	7,434.0	133.7	17.2	1.147	Level 2, CC, ES, SF
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO	12,586.4	7,454.9	851.0	750.4	8.460	CC
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO	12,600.0	7,454.8	851.1	750.3	8.441	ES
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO	12,700.0	7,453.6	858.6	756.0	8.370	SF
ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVE	13,830.1	7,461.0	717.8	589.1	5.574	CC, ES
ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVE	13,900.0	7,461.0	721.2	591.2	5.548	SF
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS	12,493.7	7,595.8	568.2	453.2	4.941	CC
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS	12,500.0	7,595.9	568.3	453.2	4.937	ES, SF
ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS	14,090.8	7,558.5	370.6	229.6	2.629	CC, ES, SF
ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS	13,153.1	7,541.2	1,033.9	915.2	8.709	CC, ES
ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS	13,300.0	7,540.2	1,044.3	923.0	8.610	SF
ELMQUIST 4-4-23 (EXISTING) - EXISTING - SURVEYS	14,090.8	7,633.4	1,154.1	1,013.4	8.199	CC, ES, SF
GRANT 23-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS	6,800.0	7,045.2	702.9	659.7	16.255	CC
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS	6,833.2	7,078.5	703.0	659.7	16.221	ES, SF
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS						Out of range
Grant Elmquist 2A-14H-C268 - Hz - Plan #2	200.0	200.0	28.0	27.3	42.828	CC, ES
Grant Elmquist 2A-14H-C268 - Hz - Plan #2	14,090.8	14,012.0	1,193.1	955.6	5.023	SF
Grant Elmquist 2B-14H-C268 - Hz - Plan #2	300.0	300.0	19.6	18.6	19.534	CC, ES
Grant Elmquist 2B-14H-C268 - Hz - Plan #2	14,090.8	14,157.7	799.8	558.8	3.319	SF
Grant Elmquist 2C-14H-C268 - Hz - Plan #2	400.0	400.0	8.4	7.0	6.208	CC, ES
Grant Elmquist 2C-14H-C268 - Hz - Plan #2	14,090.8	13,889.9	451.7	237.6	2.110	SF
Grant Elmquist 2E-14H-C268 - Hz - Plan #2	500.0	500.0	11.2	9.5	6.578	CC, ES
Grant Elmquist 2E-14H-C268 - Hz - Plan #2	14,090.8	13,861.3	429.5	218.9	2.039	SF
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	500.0	500.0	19.6	17.9	11.512	CC, ES
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	14,090.8	14,111.4	875.3	635.2	3.646	SF
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	362.5	373.5	30.8	29.5	25.203	CC
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	400.0	410.9	30.8	29.4	22.780	ES
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	13,600.0	13,442.8	1,277.8	1,058.4	5.825	SF
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	200.0	200.0	554.1	553.4	848.793	CC
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	300.0	298.2	554.2	553.2	554.665	ES
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	8,200.0	7,240.5	1,265.7	1,233.3	39.067	SF
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	300.0	300.0	553.8	552.8	552.814	CC
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	400.0	398.0	554.0	552.7	411.030	ES
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	7,300.0	7,767.1	859.0	829.5	29.150	SF
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	7,400.0	7,665.7	456.4	427.2	15.653	SF
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	7,410.5	7,657.0	456.3	427.2	15.663	CC, ES
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	7,610.4	7,586.2	96.3	67.8	3.379	CC, ES, SF
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	7,200.0	7,700.3	336.8	306.5	11.098	SF
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	7,217.4	7,690.1	336.5	306.3	11.130	CC, ES
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	500.0	500.0	554.4	552.7	326.134	CC, ES
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	7,200.0	7,769.7	691.9	661.6	22.847	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS	11,430.0	7,698.5	648.8	552.7	6.748	CC, ES
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS	11,500.0	7,698.3	652.6	555.2	6.702	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

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 2D-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 2D-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)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S14-T2N-R68W (Grant Elmquist/Salisbury)						
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 23-23C (EXISTING) - EXISTING - NO SURVEY	14,090.8	7,426.0	1,211.9	1,078.6	9.093	CC, ES, SF
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS	10,382.0	7,417.0	193.6	124.9	2.819	CC, ES
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS	10,400.0	7,417.0	194.4	125.4	2.817	SF
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	7,754.7	7,404.3	160.0	131.7	5.660	CC, ES, SF
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV	9,955.2	7,406.0	670.4	609.2	10.963	CC, ES
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV	10,100.0	7,406.0	685.8	622.2	10.782	SF
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV	11,414.6	7,411.0	487.5	400.8	5.622	CC, ES
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV	11,500.0	7,411.0	494.9	406.8	5.612	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						Out of range
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 2D-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 2D-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												Offset Site Error:	0.0 ft	
Survey Program: 8056-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	
8,900.0	7,410.0	7,406.0	7,406.0	31.7	12.9	-90.00	-2,511.0	476.4	1,267.1	1,223.5	43.63	29.040		
9,000.0	7,410.0	7,406.0	7,406.0	33.3	12.9	-90.00	-2,511.0	476.4	1,185.6	1,140.3	45.24	26.205		
9,100.0	7,410.0	7,406.0	7,406.0	34.9	12.9	-90.00	-2,511.0	476.4	1,107.0	1,060.2	46.87	23.621		
9,200.0	7,410.0	7,406.0	7,406.0	36.4	12.9	-90.00	-2,511.0	476.4	1,032.2	983.7	48.50	21.282		
9,300.0	7,410.0	7,406.0	7,406.0	38.1	12.9	-90.00	-2,511.0	476.4	962.0	911.8	50.15	19.182		
9,400.0	7,410.0	7,406.0	7,406.0	39.7	12.9	-90.00	-2,511.0	476.4	897.4	845.6	51.81	17.322		
9,500.0	7,410.0	7,406.0	7,406.0	41.3	12.9	-90.00	-2,511.0	476.4	839.8	786.4	53.47	15.706		
9,600.0	7,410.0	7,406.0	7,406.0	43.0	12.9	-90.00	-2,511.0	476.4	790.8	735.6	55.15	14.339		
9,700.0	7,410.0	7,406.0	7,406.0	44.6	12.9	-90.00	-2,511.0	476.4	751.8	695.0	56.83	13.230		
9,800.0	7,410.0	7,406.0	7,406.0	46.3	12.9	-90.00	-2,511.0	476.4	724.7	666.2	58.52	12.385		
9,900.0	7,410.0	7,406.0	7,406.0	47.9	12.9	-90.00	-2,511.0	476.4	710.8	650.5	60.21	11.805		
9,950.2	7,410.0	7,406.0	7,406.0	48.8	12.9	-90.00	-2,511.0	476.4	709.0	647.9	61.06	11.611	CC, ES	
10,000.0	7,410.0	7,406.0	7,406.0	49.6	12.9	-90.00	-2,511.0	476.4	710.7	648.8	61.90	11.481		
10,100.0	7,410.0	7,406.0	7,406.0	51.3	12.9	-90.00	-2,511.0	476.4	724.6	661.0	63.61	11.392	SF	
10,200.0	7,410.0	7,406.0	7,406.0	53.0	12.9	-90.00	-2,511.0	476.4	751.7	686.4	65.31	11.509		
10,300.0	7,410.0	7,406.0	7,406.0	54.7	12.9	-90.00	-2,511.0	476.4	790.9	723.7	67.11	11.784		
10,400.0	7,410.0	7,406.0	7,406.0	56.4	12.9	-90.00	-2,511.0	476.4	842.1	773.1	68.98	12.207		
10,500.0	7,410.0	7,406.0	7,406.0	58.1	12.9	-90.00	-2,511.0	476.4	903.5	832.7	70.82	12.757		
10,600.0	7,410.0	7,406.0	7,406.0	59.8	12.9	-90.00	-2,511.0	476.4	973.2	900.6	72.63	13.400		
10,700.0	7,410.0	7,406.0	7,406.0	61.5	12.9	-90.00	-2,511.0	476.4	1,049.4	975.0	74.38	14.108		
10,800.0	7,410.0	7,406.0	7,406.0	63.2	12.9	-90.00	-2,511.0	476.4	1,129.6	1,053.5	76.10	14.844		
10,900.0	7,410.0	7,406.0	7,406.0	64.9	12.9	-90.00	-2,511.0	476.4	1,212.7	1,134.9	77.82	15.585		

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 1 (EXISTING) - EXISTING - GYRO													Offset Well Error:		0.0 ft
Survey Program: 100-Gyro															
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		
12,300.0	7,410.0	7,433.9	7,432.9	89.1	6.5	-89.53	-6,126.4	-145.6	1,209.7	1,114.1	95.61	12.652			
12,400.0	7,410.0	7,433.9	7,432.9	90.9	6.5	-89.54	-6,126.4	-145.6	1,110.4	1,013.1	97.35	11.406			
12,500.0	7,410.0	7,433.9	7,432.9	92.6	6.5	-89.54	-6,126.4	-145.6	1,011.2	912.1	99.09	10.205			
12,600.0	7,410.0	7,433.9	7,433.0	94.3	6.5	-89.55	-6,126.4	-145.6	912.2	811.4	100.83	9.047			
12,700.0	7,410.0	7,433.9	7,433.0	96.1	6.5	-89.56	-6,126.4	-145.6	813.4	710.8	102.57	7.930			
12,800.0	7,410.0	7,433.9	7,433.0	97.8	6.5	-89.56	-6,126.4	-145.6	714.9	610.6	104.31	6.854			
12,900.0	7,410.0	7,434.0	7,433.0	99.6	6.5	-89.57	-6,126.4	-145.6	617.0	510.9	106.05	5.818			
13,000.0	7,410.0	7,434.0	7,433.0	101.3	6.5	-89.57	-6,126.4	-145.6	519.8	412.0	107.79	4.823			
13,100.0	7,410.0	7,434.0	7,433.0	103.0	6.5	-89.58	-6,126.4	-145.6	424.0	314.4	109.53	3.871			
13,200.0	7,410.0	7,434.0	7,433.0	104.8	6.5	-89.58	-6,126.4	-145.6	330.6	219.3	111.27	2.971			
13,300.0	7,410.0	7,434.0	7,433.0	106.5	6.5	-89.59	-6,126.4	-145.6	242.5	129.5	113.01	2.146			
13,400.0	7,410.0	7,434.0	7,433.1	108.3	6.5	-89.59	-6,126.4	-145.6	168.4	53.6	114.75	1.467	Level 3		
13,500.0	7,410.0	7,434.0	7,433.1	110.0	6.5	-89.60	-6,126.4	-145.6	133.7	17.2	116.50	1.148	Level 2		
13,502.3	7,410.0	7,434.0	7,433.1	110.1	6.5	-89.60	-6,126.4	-145.6	133.7	17.2	116.54	1.147	Level 2, CC, ES, SF		
13,600.0	7,410.0	7,434.1	7,433.1	111.8	6.5	-89.61	-6,126.4	-145.6	165.6	47.4	118.24	1.400	Level 3		
13,700.0	7,410.0	7,434.1	7,433.1	113.5	6.5	-89.61	-6,126.4	-145.6	238.7	118.7	119.98	1.989			
13,800.0	7,410.0	7,434.1	7,433.1	115.2	6.5	-89.62	-6,126.4	-145.6	326.3	204.6	121.73	2.681			
13,900.0	7,410.0	7,434.1	7,433.1	117.0	6.5	-89.62	-6,126.4	-145.6	419.6	296.1	123.47	3.398			
14,000.0	7,410.0	7,434.1	7,433.1	118.7	6.5	-89.63	-6,126.4	-145.6	515.3	390.1	125.22	4.115			
14,090.8	7,410.0	7,434.1	7,433.1	120.3	6.5	-89.63	-6,126.4	-145.6	603.5	476.7	126.80	4.759			

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO													Offset Well Error:		0.0 ft
Survey Program: 100-Gyro															
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		
11,700.0	7,410.0	7,466.4	7,463.6	78.7	6.7	91.73	-5,177.5	-1,098.4	1,228.7	1,143.5	85.20	14.421			
11,800.0	7,410.0	7,465.0	7,462.2	80.5	6.7	91.63	-5,177.5	-1,098.4	1,158.7	1,071.7	86.94	13.328			
11,900.0	7,410.0	7,463.7	7,460.9	82.2	6.7	91.54	-5,177.5	-1,098.5	1,093.3	1,004.6	88.67	12.330			
12,000.0	7,410.0	7,462.3	7,459.6	83.9	6.7	91.45	-5,177.5	-1,098.5	1,033.5	943.0	90.41	11.431			
12,100.0	7,410.0	7,461.0	7,458.2	85.7	6.7	91.36	-5,177.6	-1,098.5	980.2	888.0	92.14	10.638			
12,200.0	7,410.0	7,459.7	7,456.9	87.4	6.7	91.28	-5,177.6	-1,098.5	934.6	840.7	93.88	9.955			
12,300.0	7,410.0	7,458.5	7,455.7	89.1	6.7	91.19	-5,177.6	-1,098.5	897.9	802.3	95.62	9.391			
12,400.0	7,410.0	7,457.2	7,454.4	90.9	6.7	91.11	-5,177.6	-1,098.6	871.2	773.8	97.35	8.949			
12,500.0	7,410.0	7,456.0	7,453.2	92.6	6.7	91.02	-5,177.6	-1,098.6	855.4	756.3	99.09	8.632			
12,586.4	7,410.0	7,454.9	7,452.1	94.1	6.6	90.95	-5,177.6	-1,098.6	851.0	750.4	100.60	8.460 CC			
12,600.0	7,410.0	7,454.8	7,452.0	94.3	6.6	90.94	-5,177.6	-1,098.6	851.1	750.3	100.83	8.441 ES			
12,700.0	7,410.0	7,453.6	7,450.8	96.1	6.6	90.86	-5,177.6	-1,098.6	858.6	756.0	102.57	8.370 SF			
12,800.0	7,410.0	7,452.4	7,449.6	97.8	6.6	90.78	-5,177.7	-1,098.6	877.4	773.1	104.31	8.411			
12,900.0	7,410.0	7,451.2	7,448.5	99.6	6.6	90.70	-5,177.7	-1,098.7	906.9	800.9	106.05	8.552			
13,000.0	7,410.0	7,450.1	7,447.3	101.3	6.6	90.63	-5,177.7	-1,098.7	946.2	838.4	107.79	8.778			
13,100.0	7,410.0	7,449.0	7,446.2	103.0	6.6	90.55	-5,177.7	-1,098.7	994.0	884.4	109.53	9.074			
13,200.0	7,410.0	7,447.9	7,445.1	104.8	6.6	90.48	-5,177.7	-1,098.7	1,049.1	937.9	111.28	9.428			
13,300.0	7,410.0	7,446.8	7,444.0	106.5	6.6	90.40	-5,177.7	-1,098.7	1,110.6	997.6	113.02	9.826			
13,400.0	7,410.0	7,445.7	7,442.9	108.3	6.6	90.33	-5,177.7	-1,098.8	1,177.3	1,062.6	114.76	10.259			
13,500.0	7,410.0	7,444.7	7,441.9	110.0	6.6	90.26	-5,177.7	-1,098.8	1,248.5	1,132.0	116.50	10.717			

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 2D-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 2D-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												Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVEY												Offset Well Error:	0.0 ft
Survey Program: 8117-MWD													
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
12,800.0	7,410.0	7,461.0	7,461.0	97.8	13.0	90.00	-6,425.2	-1,007.8	1,255.6	1,144.7	110.84	11.328	
12,900.0	7,410.0	7,461.0	7,461.0	99.6	13.0	90.00	-6,425.2	-1,007.8	1,174.9	1,062.4	112.58	10.437	
13,000.0	7,410.0	7,461.0	7,461.0	101.3	13.0	90.00	-6,425.2	-1,007.8	1,097.5	983.1	114.32	9.600	
13,100.0	7,410.0	7,461.0	7,461.0	103.0	13.0	90.00	-6,425.2	-1,007.8	1,023.9	907.9	116.06	8.822	
13,200.0	7,410.0	7,461.0	7,461.0	104.8	13.0	90.00	-6,425.2	-1,007.8	955.2	837.4	117.80	8.109	
13,300.0	7,410.0	7,461.0	7,461.0	106.5	13.0	90.00	-6,425.2	-1,007.8	892.4	772.8	119.54	7.465	
13,400.0	7,410.0	7,461.0	7,461.0	108.3	13.0	90.00	-6,425.2	-1,007.8	836.8	715.6	121.28	6.900	
13,500.0	7,410.0	7,461.0	7,461.0	110.0	13.0	90.00	-6,425.2	-1,007.8	790.1	667.1	123.03	6.422	
13,600.0	7,410.0	7,461.0	7,461.0	111.8	13.0	90.00	-6,425.2	-1,007.8	753.8	629.1	124.77	6.042	
13,700.0	7,410.0	7,461.0	7,461.0	113.5	13.0	90.00	-6,425.2	-1,007.8	729.5	603.0	126.51	5.767	
13,800.0	7,410.0	7,461.0	7,461.0	115.2	13.0	90.00	-6,425.2	-1,007.8	718.5	590.2	128.26	5.602	
13,830.1	7,410.0	7,461.0	7,461.0	115.8	13.0	90.00	-6,425.2	-1,007.8	717.8	589.1	128.78	5.574	CC, ES
13,900.0	7,410.0	7,461.0	7,461.0	117.0	13.0	90.00	-6,425.2	-1,007.8	721.2	591.2	130.00	5.548	SF
14,000.0	7,410.0	7,461.0	7,461.0	118.7	13.0	90.00	-6,425.2	-1,007.8	737.7	605.9	131.75	5.599	
14,090.8	7,410.0	7,461.0	7,461.0	120.3	13.0	90.00	-6,425.2	-1,007.8	763.7	630.4	133.33	5.728	

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 2D-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 2D-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 102-MWD														
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	
11,400.0	7,410.0	7,586.7	7,429.5	73.5	23.3	-88.23	-5,133.0	322.7	1,232.4	1,136.4	96.00	12.838		
11,500.0	7,410.0	7,587.5	7,430.4	75.3	23.3	-88.31	-5,133.0	322.7	1,144.6	1,046.9	97.73	11.712		
11,600.0	7,410.0	7,588.4	7,431.2	77.0	23.3	-88.40	-5,133.0	322.7	1,059.0	959.5	99.47	10.647		
11,700.0	7,410.0	7,589.2	7,432.1	78.7	23.3	-88.48	-5,133.0	322.7	976.1	874.9	101.20	9.645		
11,800.0	7,410.0	7,590.1	7,432.9	80.5	23.3	-88.57	-5,133.0	322.7	896.7	793.7	102.94	8.711		
11,900.0	7,410.0	7,590.9	7,433.8	82.2	23.3	-88.65	-5,133.0	322.7	821.8	717.1	104.67	7.851		
12,000.0	7,410.0	7,591.8	7,434.6	83.9	23.3	-88.74	-5,133.0	322.7	752.7	646.3	106.41	7.074		
12,100.0	7,410.0	7,592.6	7,435.4	85.7	23.3	-88.82	-5,133.0	322.7	691.3	583.1	108.15	6.392		
12,200.0	7,410.0	7,593.4	7,436.2	87.4	23.3	-88.91	-5,133.0	322.8	639.6	529.7	109.89	5.821		
12,300.0	7,410.0	7,594.2	7,437.1	89.1	23.3	-88.99	-5,133.0	322.8	600.3	488.7	111.63	5.378		
12,400.0	7,410.0	7,595.1	7,437.9	90.9	23.3	-89.07	-5,133.0	322.8	575.9	462.5	113.37	5.080		
12,493.7	7,410.0	7,595.8	7,438.6	92.5	23.3	-89.15	-5,133.1	322.8	568.2	453.2	115.00	4.941	CC	
12,500.0	7,410.0	7,595.9	7,438.7	92.6	23.3	-89.15	-5,133.1	322.8	568.3	453.2	115.11	4.937	ES, SF	
12,600.0	7,410.0	7,596.7	7,439.5	94.3	23.3	-89.23	-5,133.1	322.8	578.1	461.3	116.85	4.948		
12,700.0	7,410.0	7,597.5	7,440.3	96.1	23.3	-89.32	-5,133.1	322.8	604.5	486.0	118.59	5.098		
12,800.0	7,410.0	7,598.3	7,441.1	97.8	23.3	-89.40	-5,133.1	322.8	645.6	525.2	120.33	5.365		
12,900.0	7,410.0	7,599.1	7,441.9	99.6	23.3	-89.48	-5,133.1	322.8	698.6	576.5	122.07	5.723		
13,000.0	7,410.0	7,599.9	7,442.7	101.3	23.3	-89.56	-5,133.1	322.8	761.1	637.3	123.81	6.147		
13,100.0	7,410.0	7,600.7	7,443.5	103.0	23.3	-89.64	-5,133.1	322.9	831.0	705.4	125.56	6.618		
13,200.0	7,410.0	7,601.5	7,444.3	104.8	23.3	-89.72	-5,133.1	322.9	906.5	779.2	127.30	7.121		
13,300.0	7,410.0	7,602.2	7,445.1	106.5	23.3	-89.79	-5,133.1	322.9	986.4	857.4	129.04	7.644		
13,400.0	7,410.0	7,603.0	7,445.8	108.3	23.3	-89.87	-5,133.1	322.9	1,069.7	938.9	130.79	8.179		
13,500.0	7,410.0	7,603.8	7,446.6	110.0	23.3	-89.95	-5,133.1	322.9	1,155.7	1,023.1	132.53	8.720		
13,600.0	7,410.0	7,604.6	7,447.4	111.8	23.3	-90.03	-5,133.1	322.9	1,243.7	1,109.4	134.27	9.263		

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
Survey Program: 72-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		
13,200.0	7,410.0	7,558.5	7,447.1	104.8	21.2	90.00	-7,074.0	-368.6	1,258.3	1,132.8	125.43	10.032			
13,300.0	7,410.0	7,558.5	7,447.1	106.5	21.2	90.00	-7,074.0	-368.6	1,158.4	1,031.2	127.17	9.109			
13,400.0	7,410.0	7,558.5	7,447.1	108.3	21.2	90.00	-7,074.0	-368.6	1,058.5	929.6	128.91	8.211			
13,500.0	7,410.0	7,558.5	7,447.1	110.0	21.2	90.00	-7,074.0	-368.6	958.7	828.0	130.65	7.338			
13,600.0	7,410.0	7,558.5	7,447.1	111.8	21.2	90.00	-7,074.0	-368.6	858.9	726.5	132.40	6.487			
13,700.0	7,410.0	7,558.5	7,447.1	113.5	21.2	90.00	-7,074.0	-368.6	759.1	625.0	134.14	5.659			
13,800.0	7,410.0	7,558.5	7,447.1	115.2	21.2	90.00	-7,074.0	-368.6	659.5	523.6	135.89	4.853			
13,900.0	7,410.0	7,558.5	7,447.1	117.0	21.2	90.00	-7,074.0	-368.6	559.9	422.3	137.63	4.068			
14,000.0	7,410.0	7,558.5	7,447.1	118.7	21.2	90.00	-7,074.0	-368.6	460.5	321.2	139.37	3.304			
14,090.8	7,410.0	7,558.5	7,447.1	120.3	21.2	90.00	-7,074.0	-368.6	370.6	229.6	140.96	2.629	CC, ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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													Offset Site Error:	0.0 ft	
S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS													Offset Well Error:		0.0 ft
Survey Program: 72-MWD															
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			
12,500.0	7,410.0	7,545.9	7,453.9	92.6	20.4	-90.38	-5,807.9	765.9	1,222.9	1,115.5	107.36	11.390			
12,600.0	7,410.0	7,545.1	7,453.2	94.3	20.4	-90.34	-5,807.9	765.9	1,172.6	1,063.5	109.10	10.747			
12,700.0	7,410.0	7,544.4	7,452.5	96.1	20.4	-90.30	-5,807.9	765.9	1,128.8	1,018.0	110.84	10.184			
12,800.0	7,410.0	7,543.7	7,451.8	97.8	20.4	-90.26	-5,807.9	765.9	1,092.5	980.0	112.58	9.705			
12,900.0	7,410.0	7,543.0	7,451.1	99.6	20.4	-90.22	-5,807.9	765.9	1,064.4	950.1	114.32	9.311			
13,000.0	7,410.0	7,542.3	7,450.4	101.3	20.4	-90.18	-5,807.9	765.9	1,045.2	929.1	116.06	9.006			
13,100.0	7,410.0	7,541.6	7,449.6	103.0	20.4	-90.14	-5,807.9	765.9	1,035.3	917.5	117.80	8.788			
13,153.1	7,410.0	7,541.2	7,449.3	104.0	20.4	-90.12	-5,807.9	765.9	1,033.9	915.2	118.72	8.709	CC, ES		
13,200.0	7,410.0	7,540.9	7,448.9	104.8	20.4	-90.10	-5,807.9	765.9	1,035.0	915.4	119.54	8.658			
13,300.0	7,410.0	7,540.2	7,448.2	106.5	20.4	-90.06	-5,807.9	765.9	1,044.3	923.0	121.28	8.610	SF		
13,400.0	7,410.0	7,539.4	7,447.5	108.3	20.4	-90.02	-5,807.9	765.9	1,063.0	940.0	123.02	8.640			
13,500.0	7,410.0	7,538.7	7,446.8	110.0	20.4	-89.98	-5,807.9	765.9	1,090.5	965.8	124.77	8.741			
13,600.0	7,410.0	7,538.0	7,446.1	111.8	20.4	-89.94	-5,807.9	765.9	1,126.4	999.8	126.51	8.903			
13,700.0	7,410.0	7,537.3	7,445.4	113.5	20.4	-89.90	-5,807.9	765.9	1,169.6	1,041.4	128.25	9.120			
13,800.0	7,410.0	7,536.6	7,444.7	115.2	20.4	-89.86	-5,808.0	765.9	1,219.6	1,089.6	129.99	9.382			
13,900.0	7,410.0	7,535.9	7,443.9	117.0	20.4	-89.83	-5,808.0	765.9	1,275.5	1,143.7	131.74	9.682			

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 2D-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 2D-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												Offset Site Error:	0.0 ft	
Survey Program: 102-MWD												Offset Well Error:		0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 4-4-23 (EXISTING) - EXISTING - SURVEYS														
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	
13,800.0	7,410.0	7,634.3	7,450.3	115.2	25.7	-90.16	-7,070.5	797.2	1,266.7	1,131.0	135.69	9.335		
13,900.0	7,410.0	7,634.0	7,450.0	117.0	25.7	-90.15	-7,070.5	797.2	1,221.4	1,083.9	137.44	8.887		
14,000.0	7,410.0	7,633.7	7,449.6	118.7	25.7	-90.13	-7,070.5	797.2	1,182.8	1,043.6	139.18	8.498		
14,090.8	7,410.0	7,633.4	7,449.4	120.3	25.7	-90.12	-7,070.5	797.2	1,154.1	1,013.4	140.77	8.199	CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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			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		Factor		
2,500.0	2,496.2	2,997.8	2,846.6	4.9	16.7	96.84	1,060.6	588.3	1,271.8	1,255.6	16.21	78.479			
2,600.0	2,596.0	3,092.2	2,934.5	5.1	17.3	96.07	1,051.8	555.3	1,244.1	1,227.1	16.99	73.234			
2,700.0	2,695.8	3,179.5	3,016.0	5.3	17.9	95.36	1,043.3	525.3	1,216.9	1,199.1	17.72	68.653			
2,800.0	2,795.6	3,263.4	3,094.9	5.5	18.4	94.70	1,035.2	497.7	1,190.6	1,172.2	18.42	64.652			
2,900.0	2,895.4	3,342.9	3,170.1	5.7	18.9	94.12	1,027.4	473.0	1,165.6	1,146.5	19.07	61.126			
3,000.0	2,995.2	3,424.8	3,247.8	5.9	19.4	93.51	1,020.3	448.4	1,142.1	1,122.4	19.74	57.852			
3,100.0	3,095.0	3,516.0	3,334.7	6.1	19.9	92.82	1,012.9	421.5	1,119.7	1,099.2	20.47	54.705			
3,200.0	3,194.8	3,605.0	3,419.7	6.3	20.4	92.17	1,005.5	396.2	1,097.8	1,076.6	21.16	51.868			
3,300.0	3,294.6	3,698.0	3,508.8	6.5	20.9	91.50	998.0	370.5	1,076.8	1,054.9	21.90	49.173			
3,400.0	3,394.4	3,789.5	3,596.2	6.7	21.4	90.75	991.4	344.5	1,056.1	1,033.5	22.66	46.606			
3,500.0	3,494.2	3,877.9	3,680.8	6.9	21.9	89.99	985.7	319.4	1,036.4	1,013.0	23.42	44.259			
3,600.0	3,594.0	3,988.0	3,786.2	7.1	22.5	89.02	978.4	288.5	1,016.9	992.6	24.32	41.821			
3,700.0	3,693.8	4,095.8	3,888.6	7.3	23.2	87.91	970.7	255.6	996.1	970.8	25.31	39.362			
3,800.0	3,793.6	4,186.3	3,974.3	7.5	23.7	86.91	964.4	227.5	975.4	949.2	26.18	37.257			
3,900.0	3,893.4	4,271.2	4,055.1	7.7	24.2	85.94	959.1	201.6	956.0	929.0	27.02	35.380			
4,000.0	3,993.2	4,362.4	4,142.3	7.9	24.7	84.96	953.8	175.6	938.1	910.3	27.86	33.676			
4,100.0	4,093.0	4,473.4	4,248.7	8.2	25.3	83.84	945.4	145.2	919.4	890.6	28.81	31.915			
4,200.0	4,192.8	4,579.7	4,350.3	8.4	26.0	82.67	936.9	115.0	900.3	870.5	29.79	30.223			
4,300.0	4,292.6	4,685.0	4,450.3	8.6	26.6	81.37	927.7	83.5	880.2	849.4	30.80	28.576			
4,400.0	4,392.4	4,777.0	4,537.8	8.8	27.1	80.23	919.3	56.5	860.3	828.6	31.70	27.141			
4,500.0	4,492.2	4,878.4	4,634.5	9.0	27.7	78.98	909.4	27.6	840.6	808.0	32.66	25.737			
4,600.0	4,592.0	4,968.6	4,720.6	9.2	28.2	77.79	901.2	1.7	821.7	788.2	33.57	24.479			
4,700.0	4,691.8	5,065.8	4,813.1	9.4	28.8	76.42	892.3	-26.8	803.2	768.6	34.57	23.234			
4,800.0	4,791.6	5,152.7	4,895.6	9.6	29.3	75.04	885.5	-53.4	786.0	750.4	35.52	22.125			
4,900.0	4,891.4	5,241.1	4,980.1	9.8	29.8	73.74	878.9	-78.2	770.2	733.8	36.40	21.158			
5,000.0	4,991.2	5,323.6	5,060.0	10.0	30.1	72.71	873.2	-98.3	756.4	719.2	37.16	20.355			
5,100.0	5,090.9	5,402.5	5,136.8	10.2	30.5	71.79	869.4	-116.0	745.2	707.4	37.86	19.685			
5,200.0	5,190.7	5,484.2	5,216.6	10.4	30.8	70.93	867.0	-132.6	736.7	698.2	38.52	19.126			
5,300.0	5,290.5	5,562.4	5,293.7	10.6	31.0	70.28	866.4	-145.8	731.0	691.9	39.08	18.707			
5,400.0	5,390.3	5,659.0	5,389.5	10.8	31.2	69.75	866.7	-158.5	727.0	687.4	39.61	18.355			
5,500.0	5,490.1	5,754.8	5,484.8	11.0	31.4	69.44	866.9	-168.2	723.5	683.4	40.06	18.059			
5,600.0	5,589.9	5,846.9	5,576.6	11.3	31.6	69.29	867.6	-175.6	720.9	680.4	40.45	17.823			
5,700.0	5,689.7	5,939.1	5,668.7	11.5	31.7	69.34	868.9	-180.3	719.3	678.6	40.76	17.647			
5,800.0	5,789.5	6,036.1	5,765.5	11.7	31.8	69.47	871.1	-184.0	718.7	677.7	41.06	17.503			
5,900.0	5,889.3	6,143.4	5,872.7	11.9	31.9	69.67	873.0	-187.7	717.8	676.4	41.36	17.356			
6,000.0	5,989.1	6,251.6	5,980.9	12.1	32.0	69.93	873.5	-190.9	715.6	674.0	41.63	17.189			
6,100.0	6,088.9	6,343.0	6,072.3	12.3	32.0	70.25	873.7	-192.4	713.4	671.5	41.84	17.049			
6,200.0	6,188.7	6,442.0	6,171.4	12.5	32.1	70.69	874.4	-192.7	711.9	669.9	42.04	16.935			
6,300.0	6,288.5	6,543.0	6,272.3	12.7	32.2	71.14	875.2	-193.1	710.5	668.3	42.24	16.820			
6,400.0	6,388.3	6,642.5	6,371.8	12.9	32.2	71.56	875.9	-193.7	709.1	666.6	42.45	16.705			
6,500.0	6,488.1	6,742.6	6,471.9	13.1	32.3	72.00	876.6	-194.2	707.7	665.1	42.65	16.595			
6,600.0	6,587.9	6,844.0	6,573.3	13.3	32.4	72.45	877.2	-194.7	706.2	663.4	42.85	16.483			
6,700.0	6,687.7	6,944.9	6,674.2	13.5	32.5	72.89	877.6	-195.3	704.6	661.6	43.05	16.368			
6,800.0	6,787.5	7,045.2	6,774.5	13.7	32.5	73.34	877.9	-195.8	702.9	659.7	43.24	16.255 CC			
6,833.2	6,820.6	7,078.5	6,807.8	13.8	32.5	110.20	878.0	-196.0	703.0	659.7	43.34	16.221 ES, SF			
6,900.0	6,887.3	7,145.6	6,874.9	13.9	32.6	158.59	878.1	-196.2	705.0	661.7	43.35	16.264			
7,000.0	6,985.5	7,245.8	6,975.1	14.0	32.7	179.91	878.0	-196.6	722.9	680.5	42.40	17.050			
7,100.0	7,079.2	7,340.8	7,070.1	14.1	32.7	-174.77	877.8	-197.0	757.0	716.7	40.30	18.787			
7,200.0	7,165.6	7,427.2	7,156.5	14.2	32.8	-171.98	877.7	-198.0	806.5	769.4	37.13	21.720			
7,300.0	7,242.1	7,504.3	7,233.6	14.3	32.9	-169.71	877.7	-199.3	870.1	837.0	33.06	26.315			
7,400.0	7,306.2	7,570.5	7,299.8	14.6	32.9	-166.97	877.5	-200.1	945.6	917.2	28.38	33.325			
7,500.0	7,356.2	7,622.7	7,351.9	15.0	33.0	-162.55	877.2	-200.5	1,031.0	1,007.3	23.73	43.449			

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
Survey Program: 62-MWD													Offset Well Error:		0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS															
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			
7,600.0	7,390.4	7,658.4	7,387.7	15.5	33.0	-153.30	876.9	-200.5	1,123.7	1,102.6	21.13	53.182			
7,700.0	7,407.8	7,675.9	7,405.1	16.3	33.0	-125.64	876.8	-200.5	1,221.0	1,194.3	26.75	45.648			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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	-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 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	-89.52	0.2	-29.6	29.7	28.7	1.00	29.595		
400.0	400.0	397.8	397.6	0.7	0.7	-88.37	1.0	-34.7	34.8	33.4	1.36	25.537		
500.0	500.0	496.1	495.5	0.8	0.9	-87.07	2.2	-43.1	43.4	41.6	1.74	24.868		
600.0	600.0	593.9	592.6	1.0	1.2	-25.56	3.9	-54.7	53.8	51.7	2.04	26.358		
700.0	699.8	691.3	688.9	1.2	1.5	-26.28	6.1	-69.5	64.5	62.1	2.39	26.995		
800.0	799.6	788.1	783.9	1.4	1.8	-26.96	8.7	-87.5	77.5	74.8	2.74	28.284		
900.0	899.4	886.1	879.7	1.6	2.2	-27.27	11.7	-108.0	93.0	89.9	3.09	30.048		
1,000.0	999.2	984.9	976.2	1.8	2.6	-27.48	14.7	-128.9	108.6	105.2	3.45	31.466		
1,100.0	1,099.0	1,083.6	1,072.7	2.0	3.0	-27.64	17.8	-149.7	124.3	120.5	3.81	32.610		
1,200.0	1,198.8	1,182.4	1,169.2	2.2	3.4	-27.77	20.8	-170.6	139.9	135.7	4.17	33.553		
1,300.0	1,298.6	1,281.2	1,265.7	2.4	3.8	-27.87	23.8	-191.4	155.6	151.0	4.53	34.342		
1,400.0	1,398.4	1,379.9	1,362.2	2.6	4.2	-27.95	26.9	-212.3	171.2	166.3	4.89	35.012		
1,500.0	1,498.2	1,478.7	1,458.7	2.8	4.6	-28.02	29.9	-233.1	186.8	181.6	5.25	35.588		
1,600.0	1,598.0	1,577.5	1,555.2	3.0	5.0	-28.07	33.0	-254.0	202.5	196.9	5.61	36.088		
1,700.0	1,697.8	1,676.2	1,651.7	3.2	5.5	-28.12	36.0	-274.8	218.1	212.1	5.97	36.527		
1,800.0	1,797.6	1,775.0	1,748.2	3.4	5.9	-28.16	39.1	-295.7	233.8	227.4	6.33	36.914		
1,900.0	1,897.4	1,873.8	1,844.7	3.6	6.3	-28.20	42.1	-316.5	249.4	242.7	6.69	37.259		
2,000.0	1,997.2	1,972.5	1,941.2	3.8	6.7	-28.23	45.1	-337.4	265.0	258.0	7.06	37.568		
2,100.0	2,097.0	2,071.3	2,037.7	4.0	7.1	-28.26	48.2	-358.2	280.7	273.3	7.42	37.846		
2,200.0	2,196.8	2,170.1	2,134.2	4.2	7.5	-28.29	51.2	-379.1	296.3	288.6	7.78	38.098		
2,300.0	2,296.6	2,268.9	2,230.7	4.4	7.9	-28.31	54.3	-399.9	312.0	303.8	8.14	38.327		
2,400.0	2,396.4	2,367.6	2,327.2	4.6	8.3	-28.33	57.3	-420.8	327.6	319.1	8.50	38.536		
2,500.0	2,496.2	2,466.4	2,423.7	4.9	8.7	-28.35	60.3	-441.6	343.3	334.4	8.86	38.728		
2,600.0	2,596.0	2,565.2	2,520.2	5.1	9.2	-28.37	63.4	-462.5	358.9	349.7	9.23	38.904		
2,700.0	2,695.8	2,663.9	2,616.6	5.3	9.6	-28.39	66.4	-483.3	374.5	365.0	9.59	39.067		
2,800.0	2,795.6	2,762.7	2,713.1	5.5	10.0	-28.40	69.5	-504.2	390.2	380.2	9.95	39.218		
2,900.0	2,895.4	2,861.5	2,809.6	5.7	10.4	-28.42	72.5	-525.0	405.8	395.5	10.31	39.359		
3,000.0	2,995.2	2,960.2	2,906.1	5.9	10.8	-28.43	75.6	-545.9	421.5	410.8	10.67	39.489		
3,100.0	3,095.0	3,059.0	3,002.6	6.1	11.2	-28.44	78.6	-566.7	437.1	426.1	11.04	39.611		
3,200.0	3,194.8	3,157.8	3,099.1	6.3	11.6	-28.45	81.6	-587.6	452.8	441.4	11.40	39.725		
3,300.0	3,294.6	3,256.5	3,195.6	6.5	12.0	-28.46	84.7	-608.4	468.4	456.6	11.76	39.832		
3,400.0	3,394.4	3,355.3	3,292.1	6.7	12.5	-28.47	87.7	-629.3	484.0	471.9	12.12	39.933		
3,500.0	3,494.2	3,454.1	3,388.6	6.9	12.9	-28.48	90.8	-650.1	499.7	487.2	12.48	40.027		
3,600.0	3,594.0	3,552.8	3,485.1	7.1	13.3	-28.49	93.8	-671.0	515.3	502.5	12.85	40.116		
3,700.0	3,693.8	3,651.6	3,581.6	7.3	13.7	-28.50	96.8	-691.8	531.0	517.8	13.21	40.201		
3,800.0	3,793.6	3,750.4	3,678.1	7.5	14.1	-28.50	99.9	-712.7	546.6	533.0	13.57	40.280		
3,900.0	3,893.4	3,849.2	3,774.6	7.7	14.5	-28.51	102.9	-733.5	562.3	548.3	13.93	40.356		
4,000.0	3,993.2	3,947.9	3,871.1	7.9	14.9	-28.52	106.0	-754.4	577.9	563.6	14.29	40.427		
4,100.0	4,093.0	4,046.7	3,967.6	8.2	15.4	-28.52	109.0	-775.2	593.5	578.9	14.66	40.495		
4,200.0	4,192.8	4,145.5	4,064.1	8.4	15.8	-28.53	112.1	-796.1	609.2	594.2	15.02	40.560		
4,300.0	4,292.6	4,244.2	4,160.6	8.6	16.2	-28.54	115.1	-816.9	624.8	609.4	15.38	40.622		
4,400.0	4,392.4	4,343.0	4,257.1	8.8	16.6	-28.54	118.1	-837.8	640.5	624.7	15.74	40.681		
4,500.0	4,492.2	4,441.8	4,353.6	9.0	17.0	-28.55	121.2	-858.6	656.1	640.0	16.11	40.737		
4,600.0	4,592.0	4,540.5	4,450.1	9.2	17.4	-28.55	124.2	-879.5	671.8	655.3	16.47	40.790		
4,700.0	4,691.8	4,639.3	4,546.6	9.4	17.8	-28.56	127.3	-900.3	687.4	670.6	16.83	40.842		
4,800.0	4,791.6	4,738.1	4,643.0	9.6	18.2	-28.56	130.3	-921.2	703.0	685.8	17.19	40.891		
4,900.0	4,891.4	4,836.8	4,739.5	9.8	18.7	-28.56	133.3	-942.0	718.7	701.1	17.56	40.938		
5,000.0	4,991.2	4,935.6	4,836.0	10.0	19.1	-28.57	136.4	-962.9	734.3	716.4	17.92	40.983		
5,100.0	5,090.9	5,034.4	4,932.5	10.2	19.5	-28.57	139.4	-983.7	750.0	731.7	18.28	41.026		

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 2D-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 2D-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	5,190.7	5,133.1	5,029.0	10.4	19.9	-28.58	142.5	-1,004.6	765.6	747.0	18.64	41.068		
5,300.0	5,290.5	5,231.9	5,125.5	10.6	20.3	-28.58	145.5	-1,025.4	781.3	762.2	19.01	41.108		
5,400.0	5,390.3	5,330.7	5,222.0	10.8	20.7	-28.58	148.5	-1,046.3	796.9	777.5	19.37	41.146		
5,500.0	5,490.1	5,429.5	5,318.5	11.0	21.1	-28.59	151.6	-1,067.1	812.5	792.8	19.73	41.183		
5,600.0	5,589.9	5,528.2	5,415.0	11.3	21.5	-28.59	154.6	-1,088.0	828.2	808.1	20.09	41.219		
5,700.0	5,689.7	5,627.0	5,511.5	11.5	22.0	-28.59	157.7	-1,108.8	843.8	823.4	20.45	41.254		
5,800.0	5,789.5	5,725.8	5,608.0	11.7	22.4	-28.60	160.7	-1,129.7	859.5	838.7	20.82	41.287		
5,900.0	5,889.3	5,824.5	5,704.5	11.9	22.8	-28.60	163.8	-1,150.5	875.1	853.9	21.18	41.319		
6,000.0	5,989.1	5,923.3	5,801.0	12.1	23.2	-28.60	166.8	-1,171.4	890.8	869.2	21.54	41.350		
6,100.0	6,088.9	6,022.1	5,897.5	12.3	23.6	-28.60	169.8	-1,192.2	906.4	884.5	21.90	41.380		
6,200.0	6,188.7	6,120.8	5,994.0	12.5	24.0	-28.61	172.9	-1,213.1	922.0	899.8	22.27	41.409		
6,300.0	6,288.5	6,219.6	6,090.5	12.7	24.4	-28.61	175.9	-1,233.9	937.7	915.1	22.63	41.437		
6,400.0	6,388.3	6,318.4	6,187.0	12.9	24.9	-28.61	179.0	-1,254.8	953.3	930.3	22.99	41.464		
6,500.0	6,488.1	6,417.1	6,283.5	13.1	25.3	-28.61	182.0	-1,275.6	969.0	945.6	23.35	41.491		
6,600.0	6,587.9	6,515.9	6,380.0	13.3	25.7	-28.62	185.0	-1,296.5	984.6	960.9	23.72	41.516		
6,700.0	6,687.7	6,614.7	6,476.5	13.5	26.1	-28.62	188.1	-1,317.3	1,000.3	976.2	24.08	41.541		
6,800.0	6,787.5	6,713.5	6,573.0	13.7	26.5	-28.62	191.1	-1,338.2	1,015.9	991.5	24.44	41.565		
6,900.0	6,887.3	6,812.3	6,669.5	13.9	26.9	55.23	192.2	-1,359.1	1,031.5	1,006.6	24.90	41.433		
7,000.0	6,985.5	6,911.7	6,765.7	14.0	27.3	74.71	178.4	-1,379.8	1,046.5	1,021.3	25.24	41.467		
7,100.0	7,079.2	7,011.9	6,858.7	14.1	27.6	78.20	147.5	-1,399.9	1,060.6	1,035.2	25.40	41.762		
7,200.0	7,165.6	7,113.0	6,945.8	14.2	27.9	79.10	100.0	-1,418.8	1,073.3	1,047.9	25.43	42.212		
7,300.0	7,242.1	7,214.9	7,024.0	14.3	28.2	79.25	37.1	-1,435.7	1,084.2	1,058.8	25.44	42.616		
7,400.0	7,306.2	7,317.7	7,090.5	14.6	28.5	79.15	-39.7	-1,450.0	1,093.0	1,067.3	25.70	42.532		
7,500.0	7,356.2	7,421.1	7,142.9	15.0	28.9	79.02	-128.0	-1,461.4	1,099.3	1,073.0	26.34	41.735		
7,600.0	7,390.4	7,525.1	7,179.1	15.5	29.2	78.94	-225.0	-1,469.2	1,103.1	1,075.6	27.56	40.032		
7,700.0	7,407.8	7,629.4	7,197.6	16.3	29.7	78.97	-327.4	-1,473.2	1,104.2	1,074.8	29.37	37.589		
7,800.0	7,410.0	7,731.5	7,200.0	17.2	30.2	79.02	-429.5	-1,473.7	1,102.8	1,071.3	31.49	35.024		
7,900.0	7,410.0	7,831.5	7,200.0	18.2	30.7	79.01	-529.5	-1,473.7	1,101.4	1,068.0	33.41	32.962		
7,917.2	7,410.0	7,848.7	7,200.0	18.4	30.8	79.01	-546.6	-1,473.7	1,101.4	1,067.6	33.73	32.653		
8,000.0	7,410.0	7,931.5	7,200.0	19.3	31.4	79.01	-629.4	-1,473.7	1,102.2	1,067.0	35.24	31.279		
8,100.0	7,410.0	8,031.4	7,200.0	20.4	32.1	79.04	-729.4	-1,473.7	1,105.7	1,068.5	37.15	29.759		
8,200.0	7,410.0	8,131.2	7,200.0	21.7	32.9	79.08	-829.2	-1,473.7	1,111.6	1,072.5	39.14	28.403		
8,300.0	7,410.0	8,230.9	7,200.0	23.0	33.8	79.15	-928.8	-1,473.7	1,119.9	1,078.4	41.49	26.994		
8,400.0	7,410.0	8,330.5	7,200.0	24.3	34.8	79.23	-1,028.5	-1,473.7	1,128.4	1,084.2	44.24	25.505		
8,500.0	7,410.0	8,430.1	7,200.0	25.7	35.8	79.32	-1,128.1	-1,473.7	1,137.0	1,089.9	47.09	24.143		
8,600.0	7,410.0	8,529.8	7,200.0	27.2	36.8	79.40	-1,227.7	-1,473.7	1,145.6	1,095.5	50.02	22.901		
8,700.0	7,410.0	8,629.4	7,200.0	28.7	37.9	79.48	-1,327.3	-1,473.7	1,154.1	1,101.1	53.01	21.770		
8,800.0	7,410.0	8,729.0	7,200.0	30.2	39.1	79.56	-1,426.9	-1,473.7	1,162.7	1,106.6	56.06	20.740		
8,900.0	7,410.0	8,828.6	7,200.0	31.7	40.3	79.63	-1,526.6	-1,473.7	1,171.3	1,112.1	59.15	19.801		
9,000.0	7,410.0	8,928.2	7,200.0	33.3	41.6	79.71	-1,626.2	-1,473.7	1,179.9	1,117.6	62.29	18.943		
9,100.0	7,410.0	9,027.8	7,200.0	34.9	42.8	79.78	-1,725.8	-1,473.7	1,188.4	1,123.0	65.45	18.158		
9,200.0	7,410.0	9,127.5	7,200.0	36.4	44.1	79.86	-1,825.4	-1,473.7	1,197.0	1,128.4	68.65	17.437		
9,300.0	7,410.0	9,227.1	7,200.0	38.1	45.5	79.93	-1,925.0	-1,473.7	1,205.6	1,133.7	71.87	16.775		
9,400.0	7,410.0	9,326.7	7,200.0	39.7	46.8	80.00	-2,024.7	-1,473.7	1,214.2	1,139.1	75.11	16.165		
9,500.0	7,410.0	9,426.3	7,200.0	41.3	48.2	80.07	-2,124.3	-1,473.7	1,222.8	1,144.4	78.38	15.601		
9,600.0	7,410.0	9,525.9	7,200.0	43.0	49.7	80.14	-2,223.9	-1,473.7	1,231.4	1,149.7	81.66	15.080		
9,700.0	7,410.0	9,625.6	7,200.0	44.6	51.1	80.21	-2,323.5	-1,473.7	1,239.9	1,155.0	84.95	14.595		
9,800.0	7,410.0	9,725.2	7,200.0	46.3	52.6	80.28	-2,423.1	-1,473.7	1,248.5	1,160.3	88.26	14.145		
9,900.0	7,410.0	9,824.8	7,200.0	47.9	54.0	80.35	-2,522.8	-1,473.7	1,257.1	1,165.5	91.59	13.726		
10,000.0	7,410.0	9,924.4	7,200.0	49.6	55.5	80.41	-2,622.4	-1,473.7	1,265.7	1,170.8	94.92	13.334		
10,100.0	7,410.0	10,024.0	7,200.0	51.3	57.0	80.48	-2,722.0	-1,473.7	1,274.3	1,176.0	98.27	12.968		
11,600.0	7,410.0	11,522.7	7,200.0	77.0	80.9	80.52	-4,220.6	-1,473.7	1,276.3	1,123.8	152.57	8.365		

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 2D-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 2D-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													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		
11,700.0	7,410.0	11,622.6	7,200.0	78.7	82.5	80.50	-4,320.6	-1,473.7	1,273.0	1,117.0	155.97	8.162			
11,800.0	7,410.0	11,722.6	7,200.0	80.5	84.1	80.47	-4,420.5	-1,473.7	1,269.6	1,110.3	159.38	7.966			
11,900.0	7,410.0	11,822.5	7,200.0	82.2	85.8	80.45	-4,520.5	-1,473.7	1,266.3	1,103.5	162.78	7.779			
12,000.0	7,410.0	11,922.5	7,200.0	83.9	87.4	80.42	-4,620.4	-1,473.7	1,263.0	1,096.8	166.19	7.600			
12,100.0	7,410.0	12,022.4	7,200.0	85.7	89.1	80.40	-4,720.4	-1,473.7	1,259.6	1,090.0	169.60	7.427			
12,200.0	7,410.0	12,122.4	7,200.0	87.4	90.8	80.37	-4,820.3	-1,473.7	1,256.3	1,083.3	173.00	7.262			
12,300.0	7,410.0	12,222.3	7,200.0	89.1	92.4	80.35	-4,920.2	-1,473.7	1,252.9	1,076.5	176.41	7.102			
12,400.0	7,410.0	12,322.2	7,200.0	90.9	94.1	80.32	-5,020.2	-1,473.7	1,249.6	1,069.8	179.82	6.949			
12,500.0	7,410.0	12,422.2	7,200.0	92.6	95.8	80.29	-5,120.1	-1,473.7	1,246.2	1,063.0	183.23	6.801			
12,600.0	7,410.0	12,522.1	7,200.0	94.3	97.5	80.27	-5,220.1	-1,473.7	1,242.9	1,056.3	186.64	6.659			
12,700.0	7,410.0	12,622.1	7,200.0	96.1	99.1	80.24	-5,320.0	-1,473.7	1,239.6	1,049.5	190.05	6.522			
12,800.0	7,410.0	12,722.0	7,200.0	97.8	100.8	80.21	-5,420.0	-1,473.7	1,236.2	1,042.7	193.47	6.390			
12,900.0	7,410.0	12,821.9	7,200.0	99.6	102.5	80.19	-5,519.9	-1,473.7	1,232.9	1,036.0	196.88	6.262			
13,000.0	7,410.0	12,921.9	7,200.0	101.3	104.2	80.16	-5,619.8	-1,473.7	1,229.5	1,029.2	200.29	6.139			
13,100.0	7,410.0	13,021.8	7,200.0	103.0	105.9	80.13	-5,719.8	-1,473.7	1,226.2	1,022.5	203.70	6.019			
13,200.0	7,410.0	13,121.8	7,200.0	104.8	107.6	80.11	-5,819.7	-1,473.7	1,222.9	1,015.7	207.12	5.904			
13,300.0	7,410.0	13,221.7	7,200.0	106.5	109.3	80.08	-5,919.7	-1,473.7	1,219.5	1,009.0	210.53	5.793			
13,400.0	7,410.0	13,321.7	7,200.0	108.3	110.9	80.05	-6,019.6	-1,473.7	1,216.2	1,002.2	213.94	5.685			
13,500.0	7,410.0	13,421.6	7,200.0	110.0	112.6	80.02	-6,119.5	-1,473.7	1,212.8	995.5	217.36	5.580			
13,600.0	7,410.0	13,521.5	7,200.0	111.8	114.3	80.00	-6,219.5	-1,473.7	1,209.5	988.7	220.77	5.479			
13,700.0	7,410.0	13,621.5	7,200.0	113.5	116.0	79.97	-6,319.4	-1,473.7	1,206.2	982.0	224.18	5.380			
13,800.0	7,410.0	13,721.4	7,200.0	115.2	117.7	79.94	-6,419.4	-1,473.7	1,202.8	975.2	227.60	5.285			
13,900.0	7,410.0	13,821.4	7,200.0	117.0	119.4	79.91	-6,519.3	-1,473.7	1,199.5	968.5	231.01	5.192			
14,000.0	7,410.0	13,921.3	7,200.0	118.7	121.1	79.88	-6,619.3	-1,473.7	1,196.1	961.7	234.42	5.102			
14,090.8	7,410.0	14,012.0	7,200.0	120.3	122.7	79.86	-6,710.0	-1,473.7	1,193.1	955.6	237.52	5.023 SF			

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 2D-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 2D-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													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	Warning									
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	CC, ES									
400.0	400.0	399.3	399.3	0.7	0.7	-89.12	0.3	-21.3	21.3	19.9	1.35	15.743										
500.0	500.0	498.4	498.2	0.8	0.9	-87.15	1.3	-26.3	26.4	24.7	1.71	15.446										
600.0	600.0	597.1	596.6	1.0	1.1	-25.27	2.9	-34.7	33.4	31.3	2.05	16.328										
700.0	699.8	695.6	694.3	1.2	1.3	-26.15	5.2	-46.3	40.7	38.3	2.40	16.992										
800.0	799.6	794.2	791.8	1.4	1.6	-26.84	8.1	-61.1	50.1	47.4	2.75	18.225										
900.0	899.4	893.7	890.0	1.6	1.9	-27.21	11.1	-76.6	60.2	57.1	3.11	19.375										
1,000.0	999.2	993.2	988.2	1.8	2.2	-27.48	14.1	-92.1	70.3	66.8	3.47	20.279										
1,100.0	1,099.0	1,092.6	1,086.4	2.0	2.5	-27.68	17.1	-107.7	80.4	76.6	3.83	21.009										
1,200.0	1,198.8	1,192.1	1,184.7	2.2	2.9	-27.83	20.1	-123.2	90.5	86.3	4.19	21.610										
1,300.0	1,298.6	1,291.6	1,282.9	2.4	3.2	-27.95	23.2	-138.7	100.6	96.0	4.55	22.113										
1,400.0	1,398.4	1,391.1	1,381.1	2.6	3.5	-28.05	26.2	-154.3	110.7	105.8	4.91	22.540										
1,500.0	1,498.2	1,490.6	1,479.3	2.8	3.8	-28.14	29.2	-169.8	120.8	115.5	5.27	22.906										
1,600.0	1,598.0	1,590.1	1,577.5	3.0	4.2	-28.21	32.2	-185.3	130.9	125.2	5.63	23.225										
1,700.0	1,697.8	1,689.6	1,675.8	3.2	4.5	-28.27	35.2	-200.9	141.0	135.0	6.00	23.504										
1,800.0	1,797.6	1,789.1	1,774.0	3.4	4.8	-28.32	38.3	-216.4	151.1	144.7	6.36	23.750										
1,900.0	1,897.4	1,888.6	1,872.2	3.6	5.1	-28.37	41.3	-231.9	161.2	154.4	6.72	23.969										
2,000.0	1,997.2	1,988.0	1,970.4	3.8	5.5	-28.41	44.3	-247.5	171.3	164.2	7.09	24.165										
2,100.0	2,097.0	2,087.5	2,068.7	4.0	5.8	-28.44	47.3	-263.0	181.3	173.9	7.45	24.342										
2,200.0	2,196.8	2,187.0	2,166.9	4.2	6.1	-28.48	50.3	-278.5	191.4	183.6	7.81	24.502										
2,300.0	2,296.6	2,286.5	2,265.1	4.4	6.4	-28.50	53.4	-294.1	201.5	193.4	8.18	24.648										
2,400.0	2,396.4	2,386.0	2,363.3	4.6	6.8	-28.53	56.4	-309.6	211.6	203.1	8.54	24.780										
2,500.0	2,496.2	2,485.5	2,461.5	4.9	7.1	-28.55	59.4	-325.1	221.7	212.8	8.90	24.902										
2,600.0	2,596.0	2,585.0	2,559.8	5.1	7.4	-28.58	62.4	-340.7	231.8	222.6	9.27	25.014										
2,700.0	2,695.8	2,684.5	2,658.0	5.3	7.7	-28.60	65.4	-356.2	241.9	232.3	9.63	25.118										
2,800.0	2,795.6	2,784.0	2,756.2	5.5	8.1	-28.61	68.4	-371.7	252.0	242.0	10.00	25.214										
2,900.0	2,895.4	2,883.4	2,854.4	5.7	8.4	-28.63	71.5	-387.3	262.1	251.8	10.36	25.302										
3,000.0	2,995.2	2,982.9	2,952.7	5.9	8.7	-28.65	74.5	-402.8	272.2	261.5	10.72	25.385										
3,100.0	3,095.0	3,082.4	3,050.9	6.1	9.1	-28.66	77.5	-418.3	282.3	271.2	11.09	25.463										
3,200.0	3,194.8	3,181.9	3,149.1	6.3	9.4	-28.68	80.5	-433.9	292.4	281.0	11.45	25.535										
3,300.0	3,294.6	3,281.4	3,247.3	6.5	9.7	-28.69	83.5	-449.4	302.5	290.7	11.82	25.603										
3,400.0	3,394.4	3,380.9	3,345.6	6.7	10.0	-28.70	86.6	-464.9	312.6	300.4	12.18	25.666										
3,500.0	3,494.2	3,480.4	3,443.8	6.9	10.4	-28.71	89.6	-480.5	322.7	310.2	12.54	25.726										
3,600.0	3,594.0	3,579.9	3,542.0	7.1	10.7	-28.72	92.6	-496.0	332.8	319.9	12.91	25.783										
3,700.0	3,693.8	3,679.4	3,640.2	7.3	11.0	-28.73	95.6	-511.5	342.9	329.6	13.27	25.836										
3,800.0	3,793.6	3,778.8	3,738.4	7.5	11.4	-28.74	98.6	-527.1	353.0	339.4	13.64	25.887										
3,900.0	3,893.4	3,878.3	3,836.7	7.7	11.7	-28.75	101.7	-542.6	363.1	349.1	14.00	25.935										
4,000.0	3,993.2	3,977.8	3,934.9	7.9	12.0	-28.76	104.7	-558.1	373.2	358.8	14.36	25.980										
4,100.0	4,093.0	4,077.3	4,033.1	8.2	12.3	-28.77	107.7	-573.7	383.3	368.6	14.73	26.023										
4,200.0	4,192.8	4,176.8	4,131.3	8.4	12.7	-28.77	110.7	-589.2	393.4	378.3	15.09	26.064										
4,300.0	4,292.6	4,276.3	4,229.6	8.6	13.0	-28.78	113.7	-604.7	403.5	388.0	15.46	26.103										
4,400.0	4,392.4	4,375.8	4,327.8	8.8	13.3	-28.79	116.8	-620.3	413.6	397.8	15.82	26.140										
4,500.0	4,492.2	4,475.3	4,426.0	9.0	13.7	-28.79	119.8	-635.8	423.7	407.5	16.19	26.176										
4,600.0	4,592.0	4,574.8	4,524.2	9.2	14.0	-28.80	122.8	-651.3	433.8	417.2	16.55	26.210										
4,700.0	4,691.8	4,674.2	4,622.4	9.4	14.3	-28.80	125.8	-666.9	443.9	427.0	16.91	26.242										
4,800.0	4,791.6	4,773.7	4,720.7	9.6	14.6	-28.81	128.8	-682.4	454.0	436.7	17.28	26.273										
4,900.0	4,891.4	4,873.2	4,818.9	9.8	15.0	-28.82	131.8	-697.9	464.1	446.4	17.64	26.303										
5,000.0	4,991.2	4,972.7	4,917.1	10.0	15.3	-28.82	134.9	-713.5	474.2	456.2	18.01	26.332										
5,100.0	5,090.9	5,072.2	5,015.3	10.2	15.6	-28.83	137.9	-729.0	484.3	465.9	18.37	26.359										

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 2D-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 2D-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													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	Warning									
5,200.0	5,190.7	5,171.7	5,113.6	10.4	16.0	-28.83	140.9	-744.5	494.4	475.6	18.74	26.386										
5,300.0	5,290.5	5,271.2	5,211.8	10.6	16.3	-28.83	143.9	-760.1	504.4	485.3	19.10	26.411										
5,400.0	5,390.3	5,370.7	5,310.0	10.8	16.6	-28.84	146.9	-775.6	514.5	495.1	19.46	26.435										
5,500.0	5,490.1	5,470.2	5,408.2	11.0	16.9	-28.84	150.0	-791.1	524.6	504.8	19.83	26.459										
5,600.0	5,589.9	5,569.6	5,506.4	11.3	17.3	-28.85	153.0	-806.7	534.7	514.5	20.19	26.481										
5,700.0	5,689.7	5,669.1	5,604.7	11.5	17.6	-28.85	156.0	-822.2	544.8	524.3	20.56	26.503										
5,800.0	5,789.5	5,768.6	5,702.9	11.7	17.9	-28.85	159.0	-837.7	554.9	534.0	20.92	26.524										
5,900.0	5,889.3	5,868.1	5,801.1	11.9	18.3	-28.86	162.0	-853.3	565.0	543.7	21.29	26.545										
6,000.0	5,989.1	5,967.6	5,899.3	12.1	18.6	-28.86	165.1	-868.8	575.1	553.5	21.65	26.564										
6,100.0	6,088.9	6,067.1	5,997.6	12.3	18.9	-28.87	168.1	-884.3	585.2	563.2	22.01	26.583										
6,200.0	6,188.7	6,166.6	6,095.8	12.5	19.2	-28.87	171.1	-899.9	595.3	572.9	22.38	26.602										
6,300.0	6,288.5	6,266.1	6,194.0	12.7	19.6	-28.87	174.1	-915.4	605.4	582.7	22.74	26.619										
6,400.0	6,388.3	6,365.6	6,292.2	12.9	19.9	-28.87	177.1	-930.9	615.5	592.4	23.11	26.637										
6,500.0	6,488.1	6,465.0	6,390.4	13.1	20.2	-28.88	180.2	-946.5	625.6	602.1	23.47	26.653										
6,600.0	6,587.9	6,564.5	6,488.7	13.3	20.6	-28.88	183.2	-962.0	635.7	611.9	23.84	26.669										
6,700.0	6,687.7	6,664.0	6,586.9	13.5	20.9	-28.88	186.2	-977.5	645.8	621.6	24.20	26.685										
6,800.0	6,787.5	6,763.5	6,685.1	13.7	21.2	-28.89	189.2	-993.1	655.9	631.3	24.57	26.700										
6,900.0	6,887.3	6,862.9	6,783.2	13.9	21.5	55.57	192.2	-1,008.6	665.9	641.0	24.94	26.702										
7,000.0	6,985.5	6,961.5	6,880.5	14.0	21.9	76.88	192.7	-1,024.0	675.8	650.7	25.11	26.910										
7,100.0	7,079.2	7,063.1	6,979.6	14.1	22.1	82.25	177.4	-1,039.9	685.7	660.5	25.17	27.238										
7,200.0	7,165.6	7,168.6	7,078.0	14.2	22.4	84.90	143.0	-1,055.8	695.2	670.0	25.23	27.552										
7,300.0	7,242.1	7,278.3	7,171.7	14.3	22.6	86.62	88.6	-1,071.2	704.0	678.5	25.41	27.699										
7,400.0	7,306.2	7,392.1	7,256.4	14.6	22.9	87.85	14.1	-1,085.4	711.6	685.7	25.86	27.520										
7,500.0	7,356.2	7,509.9	7,326.8	15.0	23.2	88.78	-79.2	-1,097.6	717.6	690.9	26.68	26.897										
7,600.0	7,390.4	7,631.1	7,378.0	15.5	23.7	89.45	-188.4	-1,106.8	721.7	693.8	27.95	25.821										
7,700.0	7,407.8	7,754.5	7,405.8	16.3	24.3	89.88	-308.3	-1,112.5	723.6	694.0	29.65	24.403										
7,800.0	7,410.0	7,868.3	7,410.0	17.2	25.0	90.00	-421.9	-1,114.3	723.3	691.7	31.67	22.837										
7,879.0	7,410.0	7,947.3	7,410.0	18.0	25.5	90.00	-500.9	-1,115.2	723.2	689.9	33.26	21.746										
7,900.0	7,410.0	7,968.3	7,410.0	18.2	25.7	90.00	-521.9	-1,115.4	722.9	689.3	33.68	21.466										
8,000.0	7,410.0	8,068.3	7,410.0	19.3	26.5	90.00	-621.9	-1,116.4	724.9	689.2	35.63	20.344										
8,100.0	7,410.0	8,168.2	7,410.0	20.4	27.4	90.00	-721.7	-1,117.5	729.4	691.7	37.68	19.356										
8,200.0	7,410.0	8,267.9	7,410.0	21.7	28.3	90.00	-821.5	-1,118.5	736.5	696.7	39.81	18.501										
8,300.0	7,410.0	8,367.5	7,410.0	23.0	29.4	90.00	-921.0	-1,119.6	745.9	703.7	42.26	17.650										
8,400.0	7,410.0	8,467.0	7,410.0	24.3	30.5	90.00	-1,020.5	-1,120.6	755.7	710.6	45.08	16.763										
8,500.0	7,410.0	8,566.5	7,410.0	25.7	31.6	90.00	-1,120.1	-1,121.7	765.5	717.5	47.99	15.950										
8,600.0	7,410.0	8,666.0	7,410.0	27.2	32.8	90.00	-1,219.6	-1,122.7	775.2	724.2	50.97	15.208										
8,700.0	7,410.0	8,765.6	7,410.0	28.7	34.1	90.00	-1,319.1	-1,123.7	785.0	731.0	54.02	14.532										
8,800.0	7,410.0	8,865.1	7,410.0	30.2	35.4	90.00	-1,418.6	-1,124.8	794.7	737.6	57.11	13.915										
8,900.0	7,410.0	8,964.6	7,410.0	31.7	36.7	90.00	-1,518.1	-1,125.8	804.5	744.2	60.26	13.351										
9,000.0	7,410.0	9,064.1	7,410.0	33.3	38.1	90.00	-1,617.6	-1,126.9	814.2	750.8	63.43	12.836										
9,100.0	7,410.0	9,163.7	7,410.0	34.9	39.5	90.00	-1,717.2	-1,127.9	824.0	757.4	66.64	12.364										
9,200.0	7,410.0	9,263.2	7,410.0	36.4	40.9	90.00	-1,816.7	-1,129.0	833.8	763.9	69.88	11.931										
9,300.0	7,410.0	9,362.7	7,410.0	38.1	42.4	90.00	-1,916.2	-1,130.0	843.5	770.4	73.14	11.532										
9,400.0	7,410.0	9,462.2	7,410.0	39.7	43.8	90.00	-2,015.7	-1,131.0	853.3	776.9	76.43	11.165										
9,500.0	7,410.0	9,561.8	7,410.0	41.3	45.3	90.00	-2,115.2	-1,132.1	863.0	783.3	79.73	10.825										
9,600.0	7,410.0	9,661.3	7,410.0	43.0	46.8	90.00	-2,214.8	-1,133.1	872.8	789.7	83.05	10.510										
9,700.0	7,410.0	9,760.8	7,410.0	44.6	48.4	90.00	-2,314.3	-1,134.2	882.6	796.2	86.38	10.217										
9,800.0	7,410.0	9,860.3	7,410.0	46.3	49.9	90.00	-2,413.8	-1,135.2	892.3	802.6	89.72	9.945										
9,900.0	7,410.0	9,959.8	7,410.0	47.9	51.5	90.00	-2,513.3	-1,136.3	902.1	809.0	93.08	9.692										
10,000.0	7,410.0	10,059.4	7,410.0	49.6	53.0	90.00	-2,612.8	-1,137.3	911.8	815.4	96.44	9.455										
10,100.0	7,410.0	10,158.9	7,410.0	51.3	54.6	90.00	-2,712.3	-1,138.3	921.6	821.8	99.82	9.233										
10,200.0	7,410.0	10,258.4	7,410.0	53.0	56.2	90.00	-2,811.9	-1,139.4	931.3	828.1	103.20	9.025										

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 2D-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 2D-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2B-14H-C268 - Hz - Plan #2													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
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	
10,300.0	7,410.0	10,358.0	7,410.0	54.7	57.8	90.00	-2,911.4	-1,140.4	940.8	833.8	106.97	8.794		
10,400.0	7,410.0	10,457.7	7,410.0	56.4	59.4	90.00	-3,011.1	-1,141.5	947.9	836.8	111.11	8.532		
10,500.0	7,410.0	10,557.6	7,410.0	58.1	61.0	90.00	-3,111.0	-1,142.5	952.5	837.3	115.19	8.269		
10,600.0	7,410.0	10,657.6	7,410.0	59.8	62.6	90.00	-3,211.0	-1,143.6	954.4	835.2	119.21	8.007		
10,700.0	7,410.0	10,757.6	7,410.0	61.5	64.3	90.00	-3,311.0	-1,144.6	953.9	830.9	122.98	7.757		
10,800.0	7,410.0	10,857.6	7,410.0	63.2	65.9	90.00	-3,411.0	-1,145.7	952.9	826.5	126.41	7.538		
10,900.0	7,410.0	10,957.6	7,410.0	64.9	67.6	90.00	-3,511.0	-1,146.7	951.8	822.0	129.85	7.330		
11,000.0	7,410.0	11,057.6	7,410.0	66.6	69.2	90.00	-3,611.0	-1,147.7	950.8	817.5	133.29	7.133		
11,100.0	7,410.0	11,157.6	7,410.0	68.4	70.9	90.00	-3,710.9	-1,148.8	949.7	813.0	136.73	6.946		
11,200.0	7,410.0	11,257.5	7,410.0	70.1	72.5	90.00	-3,810.9	-1,149.8	948.6	808.3	140.30	6.761		
11,300.0	7,410.0	11,357.5	7,410.0	71.8	74.2	90.00	-3,910.9	-1,150.9	946.4	802.5	143.88	6.577		
11,400.0	7,410.0	11,457.5	7,410.0	73.5	75.9	90.00	-4,010.9	-1,151.9	944.0	796.7	147.33	6.407		
11,500.0	7,410.0	11,557.5	7,410.0	75.3	77.5	90.00	-4,110.8	-1,153.0	941.7	790.9	150.79	6.245		
11,600.0	7,410.0	11,657.4	7,410.0	77.0	79.2	90.00	-4,210.8	-1,154.0	939.3	785.1	154.25	6.090		
11,700.0	7,410.0	11,757.4	7,410.0	78.7	80.9	90.00	-4,310.8	-1,155.1	937.0	779.3	157.71	5.941		
11,800.0	7,410.0	11,857.4	7,410.0	80.5	82.6	90.00	-4,410.7	-1,156.1	934.6	773.5	161.17	5.799		
11,900.0	7,410.0	11,957.4	7,410.0	82.2	84.3	90.00	-4,510.7	-1,157.2	932.3	767.7	164.63	5.663		
12,000.0	7,410.0	12,057.3	7,410.0	83.9	85.9	90.00	-4,610.7	-1,158.2	929.9	761.8	168.10	5.532		
12,100.0	7,410.0	12,157.3	7,410.0	85.7	87.6	90.00	-4,710.6	-1,159.3	927.6	756.0	171.57	5.407		
12,200.0	7,410.0	12,264.5	7,410.0	87.4	89.4	90.00	-4,817.9	-1,160.2	925.1	749.9	175.16	5.281		
12,300.0	7,410.0	12,383.6	7,410.0	89.1	91.5	90.00	-4,937.0	-1,159.3	920.9	742.0	178.96	5.146		
12,400.0	7,410.0	12,498.4	7,410.0	90.9	93.4	90.00	-5,051.7	-1,156.1	914.8	732.1	182.69	5.007		
12,500.0	7,410.0	12,598.2	7,410.0	92.6	95.1	90.00	-5,151.4	-1,152.7	907.9	721.8	186.16	4.877		
12,600.0	7,410.0	12,697.9	7,410.0	94.3	96.7	90.00	-5,251.1	-1,149.2	901.1	711.5	189.63	4.752		
12,700.0	7,410.0	12,797.7	7,410.0	96.1	98.4	90.00	-5,350.8	-1,145.8	894.3	701.2	193.10	4.631		
12,800.0	7,410.0	12,897.5	7,410.0	97.8	100.1	90.00	-5,450.5	-1,142.4	887.4	690.9	196.57	4.515		
12,900.0	7,410.0	12,997.2	7,410.0	99.6	101.8	90.00	-5,550.2	-1,138.9	880.6	680.6	200.04	4.402		
13,000.0	7,410.0	13,097.0	7,410.0	101.3	103.5	90.00	-5,649.9	-1,135.5	873.8	670.3	203.52	4.293		
13,100.0	7,410.0	13,196.8	7,410.0	103.0	105.2	90.00	-5,749.6	-1,132.1	867.0	660.0	206.99	4.188		
13,200.0	7,410.0	13,296.5	7,410.0	104.8	106.9	90.00	-5,849.3	-1,128.6	860.1	649.7	210.47	4.087		
13,300.0	7,410.0	13,396.3	7,410.0	106.5	108.6	90.00	-5,949.0	-1,125.2	853.3	639.4	213.94	3.988		
13,400.0	7,410.0	13,496.0	7,410.0	108.3	110.3	90.00	-6,048.7	-1,121.8	846.5	629.0	217.42	3.893		
13,500.0	7,410.0	13,595.8	7,410.0	110.0	112.0	90.00	-6,148.5	-1,118.3	839.6	618.7	220.90	3.801		
13,600.0	7,410.0	13,695.6	7,410.0	111.8	113.7	90.00	-6,248.2	-1,114.9	832.8	608.4	224.37	3.712		
13,700.0	7,410.0	13,795.3	7,410.0	113.5	115.4	90.00	-6,347.9	-1,111.5	826.0	598.1	227.85	3.625		
13,800.0	7,410.0	13,895.1	7,410.0	115.2	117.1	90.00	-6,447.6	-1,108.0	819.2	587.8	231.33	3.541		
13,900.0	7,410.0	13,994.9	7,410.0	117.0	118.8	90.00	-6,547.3	-1,104.6	812.3	577.5	234.81	3.459		
14,000.0	7,410.0	14,094.6	7,410.0	118.7	120.5	90.00	-6,647.0	-1,101.2	805.5	567.2	238.30	3.380		
14,090.8	7,410.0	14,157.7	7,410.0	120.3	121.6	90.00	-6,710.0	-1,099.0	799.8	558.8	240.98	3.319 SF		

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 2D-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 2D-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													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	499.7	499.7	0.8	0.9	-86.97	0.5	-10.0	10.1	8.4	1.70	5.914			
600.0	600.0	599.2	599.1	1.0	1.0	-23.48	2.1	-15.0	13.5	11.5	2.05	6.612			
700.0	699.8	698.7	698.1	1.2	1.2	-24.12	4.8	-23.2	17.3	14.9	2.40	7.201			
800.0	799.6	798.6	797.5	1.4	1.5	-24.85	7.9	-33.0	21.5	18.8	2.75	7.807			
900.0	899.4	898.5	896.9	1.6	1.7	-25.34	11.1	-42.7	25.7	22.6	3.11	8.270			
1,000.0	999.2	998.4	996.3	1.8	1.9	-25.69	14.2	-52.5	30.0	26.5	3.47	8.636			
1,100.0	1,099.0	1,098.3	1,095.6	2.0	2.2	-25.95	17.4	-62.3	34.2	30.4	3.83	8.930			
1,200.0	1,198.8	1,198.2	1,195.0	2.2	2.4	-26.16	20.5	-72.1	38.4	34.3	4.19	9.173			
1,300.0	1,298.6	1,298.1	1,294.4	2.4	2.7	-26.33	23.7	-81.9	42.7	38.1	4.55	9.376			
1,400.0	1,398.4	1,398.0	1,393.8	2.6	2.9	-26.46	26.8	-91.6	46.9	42.0	4.91	9.549			
1,500.0	1,498.2	1,497.9	1,493.2	2.8	3.2	-26.57	30.0	-101.4	51.2	45.9	5.28	9.697			
1,600.0	1,598.0	1,597.8	1,592.5	3.0	3.4	-26.67	33.1	-111.2	55.4	49.8	5.64	9.826			
1,700.0	1,697.8	1,697.8	1,691.9	3.2	3.6	-26.75	36.3	-121.0	59.6	53.6	6.00	9.939			
1,800.0	1,797.6	1,797.7	1,791.3	3.4	3.9	-26.82	39.4	-130.7	63.9	57.5	6.36	10.038			
1,900.0	1,897.4	1,897.6	1,890.7	3.6	4.1	-26.89	42.6	-140.5	68.1	61.4	6.73	10.127			
2,000.0	1,997.2	1,997.5	1,990.1	3.8	4.4	-26.94	45.7	-150.3	72.3	65.3	7.09	10.207			
2,100.0	2,097.0	2,097.4	2,089.4	4.0	4.6	-26.99	48.9	-160.1	76.6	69.1	7.45	10.278			
2,200.0	2,196.8	2,197.3	2,188.8	4.2	4.9	-27.03	52.0	-169.8	80.8	73.0	7.81	10.343			
2,300.0	2,296.6	2,297.2	2,288.2	4.4	5.1	-27.07	55.2	-179.6	85.1	76.9	8.18	10.402			
2,400.0	2,396.4	2,397.1	2,387.6	4.6	5.4	-27.11	58.3	-189.4	89.3	80.8	8.54	10.456			
2,500.0	2,496.2	2,497.0	2,487.0	4.9	5.6	-27.14	61.5	-199.2	93.5	84.6	8.90	10.505			
2,600.0	2,596.0	2,596.9	2,586.3	5.1	5.9	-27.17	64.6	-209.0	97.8	88.5	9.27	10.550			
2,700.0	2,695.8	2,696.9	2,685.7	5.3	6.1	-27.20	67.8	-218.7	102.0	92.4	9.63	10.592			
2,800.0	2,795.6	2,796.8	2,785.1	5.5	6.4	-27.22	70.9	-228.5	106.3	96.3	9.99	10.631			
2,900.0	2,895.4	2,896.7	2,884.5	5.7	6.6	-27.25	74.1	-238.3	110.5	100.1	10.36	10.667			
3,000.0	2,995.2	2,996.6	2,983.9	5.9	6.9	-27.27	77.2	-248.1	114.7	104.0	10.72	10.700			
3,100.0	3,095.0	3,096.5	3,083.2	6.1	7.1	-27.29	80.4	-257.8	119.0	107.9	11.09	10.732			
3,200.0	3,194.8	3,196.4	3,182.6	6.3	7.4	-27.31	83.5	-267.6	123.2	111.8	11.45	10.761			
3,300.0	3,294.6	3,296.3	3,282.0	6.5	7.6	-27.32	86.7	-277.4	127.4	115.6	11.81	10.788			
3,400.0	3,394.4	3,396.2	3,381.4	6.7	7.9	-27.34	89.8	-287.2	131.7	119.5	12.18	10.814			
3,500.0	3,494.2	3,496.1	3,480.8	6.9	8.1	-27.35	93.0	-297.0	135.9	123.4	12.54	10.839			
3,600.0	3,594.0	3,596.0	3,580.1	7.1	8.4	-27.37	96.1	-306.7	140.2	127.3	12.90	10.861			
3,700.0	3,693.8	3,696.0	3,679.5	7.3	8.6	-27.38	99.3	-316.5	144.4	131.1	13.27	10.883			
3,800.0	3,793.6	3,795.9	3,778.9	7.5	8.9	-27.39	102.4	-326.3	148.6	135.0	13.63	10.904			
3,900.0	3,893.4	3,895.8	3,878.3	7.7	9.1	-27.41	105.6	-336.1	152.9	138.9	14.00	10.923			
4,000.0	3,993.2	3,995.7	3,977.7	7.9	9.4	-27.42	108.7	-345.8	157.1	142.8	14.36	10.941			
4,100.0	4,093.0	4,095.6	4,077.1	8.2	9.6	-27.43	111.9	-355.6	161.4	146.6	14.72	10.959			
4,200.0	4,192.8	4,195.5	4,176.4	8.4	9.9	-27.44	115.0	-365.4	165.6	150.5	15.09	10.975			
4,300.0	4,292.6	4,295.4	4,275.8	8.6	10.1	-27.45	118.2	-375.2	169.8	154.4	15.45	10.991			
4,400.0	4,392.4	4,395.3	4,375.2	8.8	10.4	-27.46	121.3	-384.9	174.1	158.3	15.82	11.006			
4,500.0	4,492.2	4,495.2	4,474.6	9.0	10.6	-27.47	124.5	-394.7	178.3	162.1	16.18	11.021			
4,600.0	4,592.0	4,595.1	4,574.0	9.2	10.9	-27.47	127.6	-404.5	182.5	166.0	16.54	11.034			
4,700.0	4,691.8	4,695.1	4,673.3	9.4	11.1	-27.48	130.8	-414.3	186.8	169.9	16.91	11.048			
4,800.0	4,791.6	4,795.0	4,772.7	9.6	11.4	-27.49	133.9	-424.1	191.0	173.8	17.27	11.060			
4,900.0	4,891.4	4,894.9	4,872.1	9.8	11.6	-27.50	137.1	-433.8	195.3	177.6	17.64	11.072			
5,000.0	4,991.2	4,994.8	4,971.5	10.0	11.9	-27.50	140.2	-443.6	199.5	181.5	18.00	11.084			
5,100.0	5,090.9	5,094.7	5,070.9	10.2	12.1	-27.51	143.4	-453.4	203.7	185.4	18.36	11.095			

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 2D-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 2D-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													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	5,190.7	5,194.6	5,170.2	10.4	12.4	-27.52	146.6	-463.2	208.0	189.2	18.73	11.106									
5,300.0	5,290.5	5,294.5	5,269.6	10.6	12.6	-27.52	149.7	-472.9	212.2	193.1	19.09	11.116									
5,400.0	5,390.3	5,394.4	5,369.0	10.8	12.9	-27.53	152.9	-482.7	216.5	197.0	19.46	11.126									
5,500.0	5,490.1	5,494.3	5,468.4	11.0	13.1	-27.54	156.0	-492.5	220.7	200.9	19.82	11.135									
5,600.0	5,589.9	5,594.2	5,567.8	11.3	13.4	-27.54	159.2	-502.3	224.9	204.7	20.18	11.144									
5,700.0	5,689.7	5,694.2	5,667.1	11.5	13.6	-27.55	162.3	-512.1	229.2	208.6	20.55	11.153									
5,800.0	5,789.5	5,794.1	5,766.5	11.7	13.9	-27.55	165.5	-521.8	233.4	212.5	20.91	11.162									
5,900.0	5,889.3	5,894.0	5,865.9	11.9	14.1	-27.56	168.6	-531.6	237.6	216.4	21.28	11.170									
6,000.0	5,989.1	5,993.9	5,965.3	12.1	14.4	-27.56	171.8	-541.4	241.9	220.2	21.64	11.178									
6,100.0	6,088.9	6,093.8	6,064.7	12.3	14.6	-27.57	174.9	-551.2	246.1	224.1	22.00	11.186									
6,200.0	6,188.7	6,193.7	6,164.0	12.5	14.9	-27.57	178.1	-560.9	250.4	228.0	22.37	11.193									
6,300.0	6,288.5	6,293.6	6,263.4	12.7	15.1	-27.57	181.2	-570.7	254.6	231.9	22.73	11.200									
6,400.0	6,388.3	6,393.5	6,362.8	12.9	15.4	-27.58	184.4	-580.5	258.8	235.7	23.10	11.207									
6,500.0	6,488.1	6,493.4	6,462.2	13.1	15.6	-27.58	187.5	-590.3	263.1	239.6	23.46	11.214									
6,600.0	6,587.9	6,593.3	6,561.6	13.3	15.9	-27.59	190.7	-600.0	267.3	243.5	23.82	11.220									
6,700.0	6,687.7	6,693.5	6,661.2	13.5	16.1	-28.04	191.7	-609.9	271.5	247.3	24.20	11.219									
6,800.0	6,787.5	6,791.0	6,757.2	13.7	16.3	-31.49	178.1	-619.4	276.1	251.4	24.74	11.161									
6,900.0	6,887.3	6,882.0	6,843.4	13.9	16.4	47.43	150.9	-628.0	283.4	258.0	25.39	11.160									
7,000.0	6,985.5	6,969.0	6,920.9	14.0	16.5	62.59	112.4	-635.9	292.9	267.1	25.80	11.355									
7,100.0	7,079.2	7,050.0	6,987.1	14.1	16.6	62.50	66.3	-642.6	303.7	277.9	25.82	11.762									
7,200.0	7,165.6	7,134.6	7,048.6	14.2	16.8	60.22	8.6	-649.0	314.7	289.2	25.51	12.337									
7,300.0	7,242.1	7,214.3	7,098.3	14.3	17.0	57.90	-53.5	-654.2	325.0	300.0	24.91	13.043									
7,400.0	7,306.2	7,292.6	7,138.2	14.6	17.3	55.88	-120.7	-658.5	333.8	309.4	24.35	13.711									
7,500.0	7,356.2	7,369.9	7,168.3	15.0	17.6	54.33	-191.6	-661.8	340.6	316.5	24.11	14.127									
7,600.0	7,390.4	7,450.0	7,189.2	15.5	18.1	53.25	-268.9	-664.3	345.1	320.6	24.52	14.072									
7,700.0	7,407.8	7,522.4	7,198.6	16.3	18.6	52.76	-340.6	-665.6	346.8	321.0	25.75	13.469									
7,800.0	7,410.0	7,609.9	7,200.0	17.2	19.3	52.65	-428.0	-666.2	346.1	318.7	27.47	12.601									
7,897.7	7,410.0	7,707.6	7,200.0	18.1	20.2	52.59	-525.7	-666.7	345.7	316.6	29.05	11.899									
7,900.0	7,410.0	7,709.9	7,200.0	18.2	20.2	52.56	-528.0	-666.7	345.4	316.3	29.08	11.878									
8,000.0	7,410.0	7,809.8	7,200.0	19.3	21.2	52.69	-628.0	-667.2	346.5	315.7	30.77	11.261									
8,100.0	7,410.0	7,909.8	7,200.0	20.4	22.3	53.05	-727.9	-667.8	349.7	317.1	32.62	10.719									
8,200.0	7,410.0	8,009.5	7,200.0	21.7	23.5	53.65	-827.7	-668.3	355.0	320.4	34.63	10.252									
8,300.0	7,410.0	8,109.1	7,200.0	23.0	24.7	54.45	-927.3	-668.8	362.2	325.3	36.92	9.811									
8,400.0	7,410.0	8,208.7	7,200.0	24.3	26.0	55.28	-1,026.9	-669.3	369.8	330.3	39.49	9.364									
8,500.0	7,410.0	8,308.3	7,200.0	25.7	27.3	56.08	-1,126.4	-669.9	377.4	335.3	42.16	8.952									
8,600.0	7,410.0	8,407.9	7,200.0	27.2	28.7	56.85	-1,226.0	-670.4	385.1	340.2	44.92	8.573									
8,700.0	7,410.0	8,507.4	7,200.0	28.7	30.2	57.58	-1,325.6	-670.9	392.9	345.2	47.77	8.226									
8,800.0	7,410.0	8,607.0	7,200.0	30.2	31.6	58.29	-1,425.2	-671.4	400.8	350.1	50.68	7.908									
8,900.0	7,410.0	8,706.6	7,200.0	31.7	33.1	58.97	-1,524.7	-671.9	408.6	355.0	53.65	7.617									
9,000.0	7,410.0	8,806.1	7,200.0	33.3	34.6	59.62	-1,624.3	-672.5	416.6	359.9	56.68	7.350									
9,100.0	7,410.0	8,905.7	7,200.0	34.9	36.2	60.25	-1,723.9	-673.0	424.6	364.8	59.76	7.105									
9,200.0	7,410.0	9,005.3	7,200.0	36.4	37.7	60.86	-1,823.4	-673.5	432.7	369.8	62.88	6.881									
9,300.0	7,410.0	9,104.9	7,200.0	38.1	39.3	61.44	-1,923.0	-674.0	440.8	374.7	66.04	6.674									
9,400.0	7,410.0	9,204.4	7,200.0	39.7	40.9	62.01	-2,022.6	-674.6	448.9	379.7	69.23	6.484									
9,500.0	7,410.0	9,304.0	7,200.0	41.3	42.5	62.55	-2,122.1	-675.1	457.1	384.6	72.45	6.309									
9,600.0	7,410.0	9,403.6	7,200.0	43.0	44.1	63.07	-2,221.7	-675.6	465.3	389.6	75.70	6.147									
9,700.0	7,410.0	9,503.2	7,200.0	44.6	45.7	63.58	-2,321.3	-676.1	473.6	394.6	78.98	5.996									
9,800.0	7,410.0	9,602.7	7,200.0	46.3	47.3	64.07	-2,420.9	-676.6	481.9	399.6	82.28	5.857									
9,900.0	7,410.0	9,702.3	7,200.0	47.9	48.9	64.54	-2,520.4	-677.2	490.2	404.6	85.59	5.727									
10,000.0	7,410.0	9,801.9	7,200.0	49.6	50.6	64.99	-2,620.0	-677.7	498.6	409.6	88.93	5.606									
10,100.0	7,410.0	9,901.4	7,200.0	51.3	52.2	65.44	-2,719.6	-678.2	506.9	414.7	92.28	5.493									
10,200.0	7,410.0	10,001.0	7,200.0	53.0	53.9	65.86	-2,819.1	-678.7	515.4	419.7	95.65	5.388									

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 2D-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 2D-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												Offset Site Error:	0.0 ft	
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference												Warning		
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		
10,300.0	7,410.0	10,100.6	7,200.0	54.7	55.6	66.28	-2,918.7	-679.2	523.5	424.2	99.29	5.273		
10,400.0	7,410.0	10,200.4	7,200.0	56.4	57.2	66.61	-3,018.5	-679.8	529.6	426.5	103.11	5.137		
10,500.0	7,410.0	10,300.3	7,200.0	58.1	58.9	66.80	-3,118.4	-680.3	533.3	426.5	106.80	4.994		
10,600.0	7,410.0	10,400.3	7,200.0	59.8	60.6	66.87	-3,218.4	-680.8	534.6	424.3	110.34	4.845		
10,700.0	7,410.0	10,500.3	7,200.0	61.5	62.3	66.82	-3,318.4	-681.3	533.7	420.0	113.65	4.696		
10,800.0	7,410.0	10,600.3	7,200.0	63.2	64.0	66.76	-3,418.4	-681.9	532.2	415.5	116.75	4.559		
10,900.0	7,410.0	10,700.3	7,200.0	64.9	65.6	66.69	-3,518.4	-682.4	530.8	410.9	119.85	4.429		
11,000.0	7,410.0	10,800.2	7,200.0	66.6	67.3	66.62	-3,618.4	-682.9	529.3	406.4	122.96	4.305		
11,100.0	7,410.0	10,900.2	7,200.0	68.4	69.0	66.56	-3,718.4	-683.4	527.9	401.8	126.06	4.188		
11,200.0	7,410.0	11,000.2	7,200.0	70.1	70.7	66.48	-3,818.3	-684.0	526.3	397.1	129.22	4.073		
11,300.0	7,410.0	11,100.2	7,200.0	71.8	72.4	66.36	-3,918.3	-684.5	523.8	391.5	132.33	3.959		
11,400.0	7,410.0	11,200.1	7,200.0	73.5	74.2	66.23	-4,018.3	-685.0	521.2	385.8	135.37	3.850		
11,500.0	7,410.0	11,300.1	7,200.0	75.3	75.9	66.10	-4,118.2	-685.5	518.6	380.2	138.41	3.747		
11,600.0	7,410.0	11,400.1	7,200.0	77.0	77.6	65.97	-4,218.2	-686.0	516.0	374.5	141.44	3.648		
11,700.0	7,410.0	11,500.0	7,200.0	78.7	79.3	65.84	-4,318.1	-686.6	513.3	368.9	144.46	3.554		
11,800.0	7,410.0	11,600.0	7,200.0	80.5	81.0	65.71	-4,418.1	-687.1	510.7	363.3	147.48	3.463		
11,900.0	7,410.0	11,699.9	7,200.0	82.2	82.7	65.58	-4,518.0	-687.6	508.1	357.6	150.49	3.376		
12,000.0	7,410.0	11,799.9	7,200.0	83.9	84.4	65.45	-4,618.0	-688.1	505.5	352.0	153.49	3.293		
12,100.0	7,410.0	11,899.9	7,200.0	85.7	86.2	65.31	-4,718.0	-688.7	502.9	346.4	156.49	3.214		
12,200.0	7,410.0	11,999.8	7,200.0	87.4	87.9	65.17	-4,817.9	-689.2	500.3	340.8	159.48	3.137		
12,300.0	7,410.0	12,099.8	7,200.0	89.1	89.6	65.03	-4,917.9	-689.7	497.7	335.2	162.46	3.064		
12,400.0	7,410.0	12,199.7	7,200.0	90.9	91.3	64.89	-5,017.8	-690.2	495.1	329.7	165.43	2.993		
12,500.0	7,410.0	12,299.7	7,200.0	92.6	93.0	64.75	-5,117.8	-690.8	492.5	324.1	168.39	2.925		
12,600.0	7,410.0	12,399.7	7,200.0	94.3	94.8	64.61	-5,217.8	-691.3	489.9	318.6	171.35	2.859		
12,700.0	7,410.0	12,499.6	7,200.0	96.1	96.5	64.46	-5,317.7	-691.8	487.3	313.0	174.29	2.796		
12,800.0	7,410.0	12,599.6	7,200.0	97.8	98.2	64.32	-5,417.7	-692.3	484.7	307.5	177.23	2.735		
12,900.0	7,410.0	12,699.5	7,200.0	99.6	99.9	64.17	-5,517.6	-692.9	482.2	302.0	180.15	2.676		
13,000.0	7,410.0	12,799.5	7,200.0	101.3	101.7	64.02	-5,617.6	-693.4	479.6	296.5	183.07	2.620		
13,100.0	7,410.0	12,899.4	7,200.0	103.0	103.4	63.87	-5,717.5	-693.9	477.0	291.0	185.97	2.565		
13,200.0	7,410.0	12,999.4	7,200.0	104.8	105.1	63.72	-5,817.5	-694.4	474.4	285.6	188.86	2.512		
13,300.0	7,410.0	13,099.4	7,200.0	106.5	106.9	63.56	-5,917.5	-694.9	471.9	280.1	191.75	2.461		
13,400.0	7,410.0	13,199.3	7,200.0	108.3	108.6	63.41	-6,017.4	-695.5	469.3	274.7	194.62	2.411		
13,500.0	7,410.0	13,299.3	7,200.0	110.0	110.3	63.25	-6,117.4	-696.0	466.7	269.3	197.48	2.363		
13,600.0	7,410.0	13,399.2	7,200.0	111.8	112.1	63.09	-6,217.3	-696.5	464.2	263.8	200.32	2.317		
13,700.0	7,410.0	13,499.2	7,200.0	113.5	113.8	62.93	-6,317.3	-697.0	461.6	258.5	203.16	2.272		
13,800.0	7,410.0	13,599.2	7,200.0	115.2	115.5	62.77	-6,417.2	-697.6	459.1	253.1	205.98	2.229		
13,900.0	7,410.0	13,699.1	7,200.0	117.0	117.3	62.60	-6,517.2	-698.1	456.5	247.7	208.79	2.187		
14,000.0	7,410.0	13,799.1	7,200.0	118.7	119.0	62.44	-6,617.2	-698.6	454.0	242.4	211.58	2.146		
14,090.8	7,410.0	13,889.9	7,200.0	120.3	120.6	62.28	-6,707.9	-699.1	451.7	237.6	214.11	2.110 SF		

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 2D-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 2D-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													Offset Site Error:	0.0 ft					
Survey Program: 0-MWD													Offset Well Error:		0.0 ft				
Reference													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	Factor							
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							
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	11.2	11.2	9.8	1.35	8.278							
500.0	500.0	500.0	500.0	0.8	0.8	90.00	0.0	11.2	11.2	9.5	1.70	6.578	CC, ES						
600.0	600.0	600.0	600.0	1.0	1.0	154.83	0.0	11.2	12.7	10.7	2.05	6.218							
700.0	699.8	699.6	699.6	1.2	1.2	156.84	1.5	12.1	18.2	15.8	2.40	7.595							
800.0	799.6	799.3	799.2	1.4	1.4	154.83	4.7	14.0	25.6	22.9	2.75	9.309							
900.0	899.4	899.0	898.9	1.6	1.6	153.71	7.9	15.9	33.1	30.0	3.11	10.630							
1,000.0	999.2	998.7	998.5	1.8	1.7	153.00	11.1	17.8	40.5	37.1	3.47	11.675							
1,100.0	1,099.0	1,098.5	1,098.2	2.0	1.9	152.51	14.4	19.7	48.0	44.1	3.83	12.522							
1,200.0	1,198.8	1,198.2	1,197.8	2.2	2.1	152.15	17.6	21.5	55.4	51.2	4.19	13.220							
1,300.0	1,298.6	1,297.9	1,297.5	2.4	2.3	151.88	20.8	23.4	62.9	58.3	4.55	13.806							
1,400.0	1,398.4	1,397.6	1,397.1	2.6	2.5	151.66	24.0	25.3	70.3	65.4	4.92	14.305							
1,500.0	1,498.2	1,497.3	1,496.8	2.8	2.7	151.49	27.2	27.2	77.8	72.5	5.28	14.734							
1,600.0	1,598.0	1,597.1	1,596.4	3.0	2.8	151.35	30.5	29.1	85.3	79.6	5.64	15.107							
1,700.0	1,697.8	1,696.8	1,696.1	3.2	3.0	151.23	33.7	31.0	92.7	86.7	6.01	15.434							
1,800.0	1,797.6	1,796.5	1,795.7	3.4	3.2	151.12	36.9	32.9	100.2	93.8	6.37	15.723							
1,900.0	1,897.4	1,896.2	1,895.4	3.6	3.4	151.04	40.1	34.8	107.6	100.9	6.74	15.981							
2,000.0	1,997.2	1,996.0	1,995.0	3.8	3.6	150.96	43.4	36.7	115.1	108.0	7.10	16.212							
2,100.0	2,097.0	2,095.7	2,094.7	4.0	3.8	150.89	46.6	38.6	122.6	115.1	7.46	16.420							
2,200.0	2,196.8	2,195.4	2,194.3	4.2	3.9	150.83	49.8	40.5	130.0	122.2	7.83	16.608							
2,300.0	2,296.6	2,295.1	2,294.0	4.4	4.1	150.78	53.0	42.4	137.5	129.3	8.19	16.780							
2,400.0	2,396.4	2,394.8	2,393.6	4.6	4.3	150.73	56.2	44.3	144.9	136.4	8.56	16.937							
2,500.0	2,496.2	2,494.6	2,493.3	4.9	4.5	150.69	59.5	46.2	152.4	143.5	8.92	17.080							
2,600.0	2,596.0	2,594.3	2,592.9	5.1	4.7	150.65	62.7	48.1	159.9	150.6	9.29	17.213							
2,700.0	2,695.8	2,694.0	2,692.6	5.3	4.9	150.61	65.9	50.0	167.3	157.7	9.65	17.335							
2,800.0	2,795.6	2,793.7	2,792.2	5.5	5.1	150.58	69.1	51.9	174.8	164.8	10.02	17.448							
2,900.0	2,895.4	2,893.4	2,891.9	5.7	5.2	150.55	72.3	53.8	182.2	171.9	10.38	17.553							
3,000.0	2,995.2	2,993.2	2,991.5	5.9	5.4	150.52	75.6	55.7	189.7	179.0	10.75	17.651							
3,100.0	3,095.0	3,092.9	3,091.2	6.1	5.6	150.50	78.8	57.6	197.2	186.1	11.11	17.743							
3,200.0	3,194.8	3,192.6	3,190.8	6.3	5.8	150.47	82.0	59.5	204.6	193.1	11.48	17.829							
3,300.0	3,294.6	3,292.3	3,290.5	6.5	6.0	150.45	85.2	61.4	212.1	200.2	11.84	17.909							
3,400.0	3,394.4	3,392.0	3,390.1	6.7	6.2	150.43	88.4	63.3	219.5	207.3	12.21	17.984							
3,500.0	3,494.2	3,491.8	3,489.8	6.9	6.4	150.41	91.7	65.2	227.0	214.4	12.57	18.055							
3,600.0	3,594.0	3,591.5	3,589.4	7.1	6.5	150.39	94.9	67.1	234.5	221.5	12.94	18.122							
3,700.0	3,693.8	3,691.2	3,689.1	7.3	6.7	150.38	98.1	69.0	241.9	228.6	13.30	18.186							
3,800.0	3,793.6	3,790.9	3,788.7	7.5	6.9	150.36	101.3	70.9	249.4	235.7	13.67	18.245							
3,900.0	3,893.4	3,890.7	3,888.4	7.7	7.1	150.35	104.5	72.8	256.9	242.8	14.03	18.302							
4,000.0	3,993.2	3,990.4	3,988.0	7.9	7.3	150.33	107.8	74.7	264.3	249.9	14.40	18.356							
4,100.0	4,093.0	4,090.1	4,087.7	8.2	7.5	150.32	111.0	76.6	271.8	257.0	14.76	18.407							
4,200.0	4,192.8	4,189.8	4,187.3	8.4	7.7	150.31	114.2	78.5	279.2	264.1	15.13	18.456							
4,300.0	4,292.6	4,289.5	4,287.0	8.6	7.8	150.29	117.4	80.4	286.7	271.2	15.50	18.502							
4,400.0	4,392.4	4,389.3	4,386.6	8.8	8.0	150.28	120.6	82.3	294.2	278.3	15.86	18.546							
4,500.0	4,492.2	4,489.0	4,486.3	9.0	8.2	150.27	123.9	84.2	301.6	285.4	16.23	18.589							
4,600.0	4,592.0	4,588.7	4,586.0	9.2	8.4	150.26	127.1	86.1	309.1	292.5	16.59	18.629							
4,700.0	4,691.8	4,688.4	4,685.6	9.4	8.6	150.25	130.3	88.0	316.5	299.6	16.96	18.668							
4,800.0	4,791.6	4,788.1	4,785.3	9.6	8.8	150.24	133.5	89.9	324.0	306.7	17.32	18.704							
4,900.0	4,891.4	4,887.9	4,884.9	9.8	9.0	150.23	136.8	91.8	331.5	313.8	17.69	18.740							
5,000.0	4,991.2	4,987.6	4,984.6	10.0	9.1	150.23	140.0	93.7	338.9	320.9	18.05	18.774							
5,100.0	5,090.9	5,087.3	5,084.2	10.2	9.3	150.22	143.2	95.6	346.4	328.0	18.42	18.806							

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 2D-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 2D-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													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Offset Well Error:		0.0 ft	
Reference													S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2			
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			
5,200.0	5,190.7	5,187.0	5,183.9	10.4	9.5	150.21	146.4	97.5	353.8	335.1	18.78	18.838				
5,300.0	5,290.5	5,286.8	5,283.5	10.6	9.7	150.20	149.6	99.4	361.3	342.2	19.15	18.868				
5,400.0	5,390.3	5,386.5	5,383.2	10.8	9.9	150.20	152.9	101.3	368.8	349.3	19.51	18.897				
5,500.0	5,490.1	5,486.2	5,482.8	11.0	10.1	150.19	156.1	103.2	376.2	356.3	19.88	18.925				
5,600.0	5,589.9	5,585.9	5,582.5	11.3	10.3	150.18	159.3	105.1	383.7	363.4	20.25	18.952				
5,700.0	5,689.7	5,685.6	5,682.1	11.5	10.4	150.18	162.5	107.0	391.2	370.5	20.61	18.978				
5,800.0	5,789.5	5,785.4	5,781.8	11.7	10.6	150.17	165.7	108.9	398.6	377.6	20.98	19.003				
5,900.0	5,889.3	5,885.1	5,881.4	11.9	10.8	150.16	169.0	110.8	406.1	384.7	21.34	19.027				
6,000.0	5,989.1	5,984.8	5,981.1	12.1	11.0	150.16	172.2	112.7	413.5	391.8	21.71	19.050				
6,100.0	6,088.9	6,084.5	6,080.7	12.3	11.2	150.15	175.4	114.6	421.0	398.9	22.07	19.073				
6,200.0	6,188.7	6,184.2	6,180.4	12.5	11.4	150.15	178.6	116.5	428.5	406.0	22.44	19.095				
6,300.0	6,288.5	6,284.0	6,280.0	12.7	11.6	150.14	181.8	118.4	435.9	413.1	22.80	19.116				
6,400.0	6,388.3	6,383.7	6,379.7	12.9	11.7	150.14	185.1	120.3	443.4	420.2	23.17	19.136				
6,500.0	6,488.1	6,483.4	6,479.3	13.1	11.9	150.13	188.3	122.2	450.8	427.3	23.54	19.156				
6,600.0	6,587.9	6,583.1	6,579.0	13.3	12.1	150.13	191.5	124.1	458.3	434.4	23.90	19.175				
6,700.0	6,687.7	6,683.8	6,679.6	13.5	12.3	150.67	190.3	125.9	465.7	441.5	24.22	19.192				
6,800.0	6,787.5	6,780.9	6,775.0	13.7	12.3	153.10	173.3	127.6	473.3	448.9	24.43	19.377				
6,900.0	6,887.3	6,870.5	6,859.4	13.9	12.4	-117.98	143.5	128.9	482.8	458.3	24.53	19.682				
7,000.0	6,985.5	6,955.9	6,934.6	14.0	12.4	-92.98	103.2	130.0	494.3	469.7	24.59	20.098				
7,100.0	7,079.2	7,038.2	7,000.6	14.1	12.5	-84.49	54.2	130.8	506.7	482.0	24.67	20.536				
7,200.0	7,165.6	7,118.1	7,057.4	14.2	12.6	-79.18	-1.9	131.4	519.3	494.5	24.82	20.923				
7,300.0	7,242.1	7,200.0	7,106.9	14.3	12.8	-75.25	-67.1	131.7	531.3	506.2	25.06	21.204				
7,400.0	7,306.2	7,272.6	7,142.6	14.6	13.1	-72.43	-130.2	131.8	541.9	516.4	25.43	21.311				
7,500.0	7,356.2	7,350.0	7,171.6	15.0	13.6	-70.31	-202.0	131.8	550.6	524.6	26.00	21.177				
7,600.0	7,390.4	7,422.8	7,189.7	15.5	14.1	-68.92	-272.4	131.5	557.0	530.2	26.81	20.774				
7,700.0	7,407.8	7,500.0	7,199.1	16.3	14.7	-68.17	-349.0	131.0	560.8	532.9	27.93	20.077				
7,800.0	7,410.0	7,585.1	7,200.0	17.2	15.6	-68.06	-434.0	130.3	562.1	532.5	29.52	19.037				
7,900.0	7,410.0	7,685.1	7,200.0	18.2	16.7	-68.08	-534.0	129.4	562.6	531.0	31.54	17.835				
8,000.0	7,410.0	7,785.0	7,200.0	19.3	17.9	-68.01	-634.0	128.5	561.0	527.3	33.68	16.655				
8,100.0	7,410.0	7,885.0	7,200.0	20.4	19.2	-67.82	-733.9	127.7	556.9	521.0	35.93	15.502				
8,200.0	7,410.0	7,984.7	7,200.0	21.7	20.5	-67.51	-833.6	126.8	550.5	512.3	38.24	14.395				
8,300.0	7,410.0	8,084.3	7,200.0	23.0	21.9	-67.11	-933.2	125.9	542.0	501.3	40.67	13.326				
8,400.0	7,410.0	8,183.8	7,200.0	24.3	23.4	-66.71	-1,032.7	125.0	533.1	489.9	43.23	12.333				
8,500.0	7,410.0	8,283.4	7,200.0	25.7	24.9	-66.29	-1,132.3	124.2	524.3	478.5	45.84	11.438				
8,600.0	7,410.0	8,382.9	7,200.0	27.2	26.4	-65.86	-1,231.8	123.3	515.6	467.1	48.49	10.633				
8,700.0	7,410.0	8,482.4	7,200.0	28.7	28.0	-65.42	-1,331.3	122.4	506.8	455.7	51.16	9.907				
8,800.0	7,410.0	8,582.0	7,200.0	30.2	29.5	-64.96	-1,430.9	121.6	498.1	444.3	53.84	9.252				
8,900.0	7,410.0	8,681.5	7,200.0	31.7	31.1	-64.49	-1,530.4	120.7	489.4	432.9	56.53	8.658				
9,000.0	7,410.0	8,781.1	7,200.0	33.3	32.7	-64.00	-1,630.0	119.8	480.8	421.6	59.21	8.120				
9,100.0	7,410.0	8,880.6	7,200.0	34.9	34.3	-63.49	-1,729.5	119.0	472.2	410.3	61.89	7.630				
9,200.0	7,410.0	8,980.1	7,200.0	36.4	36.0	-62.96	-1,829.0	118.1	463.6	399.1	64.54	7.183				
9,300.0	7,410.0	9,079.7	7,200.0	38.1	37.6	-62.41	-1,928.6	117.2	455.1	387.9	67.18	6.775				
9,400.0	7,410.0	9,179.2	7,200.0	39.7	39.3	-61.84	-2,028.1	116.4	446.6	376.9	69.78	6.401				
9,500.0	7,410.0	9,278.8	7,200.0	41.3	40.9	-61.25	-2,127.6	115.5	438.2	365.8	72.35	6.057				
9,600.0	7,410.0	9,378.3	7,200.0	43.0	42.6	-60.64	-2,227.2	114.6	429.8	354.9	74.87	5.740				
9,700.0	7,410.0	9,477.8	7,200.0	44.6	44.3	-60.00	-2,326.7	113.8	421.5	344.1	77.35	5.449				
9,800.0	7,410.0	9,577.4	7,200.0	46.3	45.9	-59.34	-2,426.2	112.9	413.2	333.4	79.78	5.179				
9,900.0	7,410.0	9,676.9	7,200.0	47.9	47.6	-58.65	-2,525.8	112.0	405.0	322.8	82.14	4.930				
10,000.0	7,410.0	9,776.4	7,200.0	49.6	49.3	-57.93	-2,625.3	111.1	396.8	312.4	84.44	4.699				
10,100.0	7,410.0	9,876.0	7,200.0	51.3	51.0	-57.18	-2,724.8	110.3	388.7	302.0	86.66	4.486				
10,200.0	7,410.0	9,975.5	7,200.0	53.0	52.7	-56.40	-2,824.4	109.4	380.7	291.9	88.79	4.287				
10,300.0	7,410.0	10,075.1	7,200.0	54.7	54.4	-55.64	-2,923.9	108.5	373.0	282.0	91.01	4.098				

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference													Warning		
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			
10,400.0	7,410.0	10,174.8	7,200.0	56.4	56.1	-55.08	-3,023.7	107.7	367.2	273.8	93.43	3.930			
10,500.0	7,410.0	10,274.8	7,200.0	58.1	57.8	-54.71	-3,123.6	106.8	363.6	267.7	95.98	3.789			
10,600.0	7,410.0	10,374.7	7,200.0	59.8	59.5	-54.56	-3,223.6	105.9	362.2	263.5	98.69	3.670			
10,618.9	7,410.0	10,393.7	7,200.0	60.1	59.8	-54.56	-3,242.5	105.8	362.2	262.9	99.22	3.650			
10,700.0	7,410.0	10,474.7	7,200.0	61.5	61.2	-54.63	-3,323.6	105.1	362.8	261.2	101.58	3.571			
10,800.0	7,410.0	10,574.7	7,200.0	63.2	62.9	-54.74	-3,423.6	104.2	363.8	259.3	104.51	3.481			
10,900.0	7,410.0	10,674.7	7,200.0	64.9	64.7	-54.85	-3,523.5	103.3	364.8	257.3	107.45	3.395			
11,000.0	7,410.0	10,774.7	7,200.0	66.6	66.4	-54.96	-3,623.5	102.4	365.8	255.4	110.41	3.313			
11,100.0	7,410.0	10,874.7	7,200.0	68.4	68.1	-55.07	-3,723.5	101.6	366.8	253.4	113.37	3.235			
11,200.0	7,410.0	10,974.7	7,200.0	70.1	69.8	-55.18	-3,823.5	100.7	367.9	251.5	116.35	3.162			
11,300.0	7,410.0	11,074.7	7,200.0	71.8	71.6	-55.39	-3,923.5	99.8	369.8	250.4	119.46	3.096			
11,400.0	7,410.0	11,174.6	7,200.0	73.5	73.3	-55.61	-4,023.4	98.9	371.9	249.3	122.60	3.033			
11,500.0	7,410.0	11,274.6	7,200.0	75.3	75.0	-55.83	-4,123.4	98.1	374.0	248.2	125.76	2.974			
11,600.0	7,410.0	11,374.6	7,200.0	77.0	76.7	-56.05	-4,223.4	97.2	376.1	247.1	128.93	2.917			
11,700.0	7,410.0	11,474.5	7,200.0	78.7	78.5	-56.26	-4,323.3	96.3	378.2	246.1	132.11	2.862			
11,800.0	7,410.0	11,574.5	7,200.0	80.5	80.2	-56.47	-4,423.3	95.5	380.3	245.0	135.30	2.810			
11,900.0	7,410.0	11,674.5	7,200.0	82.2	81.9	-56.68	-4,523.3	94.6	382.4	243.9	138.50	2.761			
12,000.0	7,410.0	11,774.4	7,200.0	83.9	83.7	-56.88	-4,623.2	93.7	384.5	242.8	141.72	2.713			
12,100.0	7,410.0	11,874.4	7,200.0	85.7	85.4	-57.09	-4,723.2	92.8	386.6	241.6	144.94	2.667			
12,200.0	7,410.0	11,974.4	7,200.0	87.4	87.1	-57.29	-4,823.2	92.0	388.7	240.5	148.17	2.623			
12,300.0	7,410.0	12,074.3	7,200.0	89.1	88.9	-57.49	-4,923.1	91.1	390.8	239.4	151.41	2.581			
12,400.0	7,410.0	12,174.3	7,200.0	90.9	90.6	-57.69	-5,023.1	90.2	392.9	238.3	154.66	2.541			
12,500.0	7,410.0	12,274.3	7,200.0	92.6	92.3	-57.88	-5,123.0	89.4	395.1	237.2	157.92	2.502			
12,600.0	7,410.0	12,374.2	7,200.0	94.3	94.1	-58.07	-5,223.0	88.5	397.2	236.0	161.19	2.464			
12,700.0	7,410.0	12,474.2	7,200.0	96.1	95.8	-58.27	-5,323.0	87.6	399.3	234.9	164.46	2.428			
12,800.0	7,410.0	12,574.2	7,200.0	97.8	97.6	-58.46	-5,422.9	86.7	401.5	233.7	167.75	2.393			
12,900.0	7,410.0	12,674.2	7,200.0	99.6	99.3	-58.64	-5,522.9	85.9	403.6	232.6	171.04	2.360			
13,000.0	7,410.0	12,774.1	7,200.0	101.3	101.0	-58.83	-5,622.9	85.0	405.8	231.5	174.34	2.328			
13,100.0	7,410.0	12,874.1	7,200.0	103.0	102.8	-59.01	-5,722.8	84.1	408.0	230.3	177.64	2.296			
13,200.0	7,410.0	12,974.1	7,200.0	104.8	104.5	-59.19	-5,822.8	83.2	410.1	229.2	180.96	2.266			
13,300.0	7,410.0	13,074.0	7,200.0	106.5	106.3	-59.37	-5,922.8	82.4	412.3	228.0	184.28	2.237			
13,400.0	7,410.0	13,174.0	7,200.0	108.3	108.0	-59.55	-6,022.7	81.5	414.4	226.8	187.60	2.209			
13,500.0	7,410.0	13,274.0	7,200.0	110.0	109.7	-59.72	-6,122.7	80.6	416.6	225.7	190.94	2.182			
13,600.0	7,410.0	13,373.9	7,200.0	111.8	111.5	-59.90	-6,222.7	79.8	418.8	224.5	194.28	2.156			
13,700.0	7,410.0	13,473.9	7,200.0	113.5	113.2	-60.07	-6,322.6	78.9	421.0	223.4	197.62	2.130			
13,800.0	7,410.0	13,573.9	7,200.0	115.2	115.0	-60.24	-6,422.6	78.0	423.2	222.2	200.97	2.106			
13,900.0	7,410.0	13,673.8	7,200.0	117.0	116.7	-60.41	-6,522.5	77.1	425.4	221.0	204.33	2.082			
14,000.0	7,410.0	13,773.8	7,200.0	118.7	118.5	-60.57	-6,622.5	76.3	427.5	219.9	207.69	2.059			
14,090.8	7,410.0	13,861.3	7,200.0	120.3	120.0	-60.72	-6,710.0	75.5	429.5	218.9	210.69	2.039 SF			

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 2D-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 2D-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	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		
500.0	500.0	500.0	500.0	0.8	0.8	90.00	0.0	19.6	19.6	17.9	1.70	11.512 CC, ES		
600.0	600.0	599.3	599.2	1.0	1.0	151.76	0.5	21.2	22.7	20.7	2.05	11.106		
700.0	699.8	697.9	697.8	1.2	1.2	153.01	2.2	26.1	32.2	29.8	2.40	13.438		
800.0	799.6	795.8	795.3	1.4	1.4	152.84	4.8	34.0	45.9	43.1	2.75	16.698		
900.0	899.4	894.7	893.6	1.6	1.6	152.25	8.0	43.5	61.0	57.9	3.10	19.654		
1,000.0	999.2	993.5	992.0	1.8	1.9	151.90	11.2	53.0	76.1	72.7	3.46	21.994		
1,100.0	1,099.0	1,092.4	1,090.3	2.0	2.1	151.66	14.3	62.5	91.3	87.4	3.82	23.891		
1,200.0	1,198.8	1,191.2	1,188.6	2.2	2.3	151.49	17.5	72.0	106.4	102.2	4.18	25.458		
1,300.0	1,298.6	1,290.1	1,287.0	2.4	2.5	151.36	20.7	81.5	121.5	117.0	4.54	26.774		
1,400.0	1,398.4	1,388.9	1,385.3	2.6	2.8	151.26	23.9	91.0	136.6	131.7	4.90	27.894		
1,500.0	1,498.2	1,487.8	1,483.7	2.8	3.0	151.18	27.0	100.5	151.8	146.5	5.26	28.859		
1,600.0	1,598.0	1,586.6	1,582.0	3.0	3.3	151.12	30.2	110.0	166.9	161.3	5.62	29.698		
1,700.0	1,697.8	1,685.4	1,680.3	3.2	3.5	151.06	33.4	119.5	182.0	176.0	5.98	30.436		
1,800.0	1,797.6	1,784.3	1,778.7	3.4	3.7	151.02	36.5	129.0	197.1	190.8	6.34	31.088		
1,900.0	1,897.4	1,883.1	1,877.0	3.6	4.0	150.98	39.7	138.5	212.3	205.6	6.70	31.669		
2,000.0	1,997.2	1,982.0	1,975.4	3.8	4.2	150.94	42.9	148.0	227.4	220.3	7.06	32.191		
2,100.0	2,097.0	2,080.8	2,073.7	4.0	4.5	150.91	46.0	157.5	242.5	235.1	7.43	32.661		
2,200.0	2,196.8	2,179.7	2,172.1	4.2	4.7	150.89	49.2	167.0	257.6	249.9	7.79	33.087		
2,300.0	2,296.6	2,278.5	2,270.4	4.4	5.0	150.86	52.4	176.5	272.8	264.6	8.15	33.474		
2,400.0	2,396.4	2,377.4	2,368.7	4.6	5.2	150.84	55.6	186.0	287.9	279.4	8.51	33.829		
2,500.0	2,496.2	2,476.2	2,467.1	4.9	5.4	150.82	58.7	195.5	303.0	294.2	8.87	34.154		
2,600.0	2,596.0	2,575.1	2,565.4	5.1	5.7	150.81	61.9	205.0	318.2	308.9	9.23	34.454		
2,700.0	2,695.8	2,673.9	2,663.8	5.3	5.9	150.79	65.1	214.5	333.3	323.7	9.60	34.731		
2,800.0	2,795.6	2,772.8	2,762.1	5.5	6.2	150.78	68.2	224.0	348.4	338.5	9.96	34.988		
2,900.0	2,895.4	2,871.6	2,860.4	5.7	6.4	150.76	71.4	233.5	363.5	353.2	10.32	35.226		
3,000.0	2,995.2	2,970.5	2,958.8	5.9	6.7	150.75	74.6	243.0	378.7	368.0	10.68	35.448		
3,100.0	3,095.0	3,069.3	3,057.1	6.1	6.9	150.74	77.8	252.5	393.8	382.8	11.04	35.656		
3,200.0	3,194.8	3,168.2	3,155.5	6.3	7.2	150.73	80.9	262.0	408.9	397.5	11.41	35.850		
3,300.0	3,294.6	3,267.0	3,253.8	6.5	7.4	150.72	84.1	271.5	424.0	412.3	11.77	36.032		
3,400.0	3,394.4	3,365.9	3,352.1	6.7	7.6	150.71	87.3	281.0	439.2	427.0	12.13	36.203		
3,500.0	3,494.2	3,464.7	3,450.5	6.9	7.9	150.70	90.4	290.5	454.3	441.8	12.49	36.365		
3,600.0	3,594.0	3,563.6	3,548.8	7.1	8.1	150.70	93.6	300.0	469.4	456.6	12.86	36.517		
3,700.0	3,693.8	3,662.4	3,647.2	7.3	8.4	150.69	96.8	309.5	484.6	471.3	13.22	36.660		
3,800.0	3,793.6	3,761.3	3,745.5	7.5	8.6	150.68	99.9	319.0	499.7	486.1	13.58	36.796		
3,900.0	3,893.4	3,860.1	3,843.8	7.7	8.9	150.67	103.1	328.4	514.8	500.9	13.94	36.925		
4,000.0	3,993.2	3,959.0	3,942.2	7.9	9.1	150.67	106.3	337.9	529.9	515.6	14.30	37.048		
4,100.0	4,093.0	4,057.8	4,040.5	8.2	9.4	150.66	109.5	347.4	545.1	530.4	14.67	37.164		
4,200.0	4,192.8	4,156.7	4,138.9	8.4	9.6	150.66	112.6	356.9	560.2	545.2	15.03	37.274		
4,300.0	4,292.6	4,255.5	4,237.2	8.6	9.9	150.65	115.8	366.4	575.3	559.9	15.39	37.380		
4,400.0	4,392.4	4,354.4	4,335.5	8.8	10.1	150.65	119.0	375.9	590.5	574.7	15.75	37.480		
4,500.0	4,492.2	4,453.2	4,433.9	9.0	10.3	150.64	122.1	385.4	605.6	589.5	16.12	37.576		
4,600.0	4,592.0	4,552.1	4,532.2	9.2	10.6	150.64	125.3	394.9	620.7	604.2	16.48	37.668		
4,700.0	4,691.8	4,650.9	4,630.6	9.4	10.8	150.63	128.5	404.4	635.8	619.0	16.84	37.756		
4,800.0	4,791.6	4,749.8	4,728.9	9.6	11.1	150.63	131.7	413.9	651.0	633.8	17.20	37.840		
4,900.0	4,891.4	4,848.6	4,827.3	9.8	11.3	150.63	134.8	423.4	666.1	648.5	17.57	37.920		
5,000.0	4,991.2	4,947.5	4,925.6	10.0	11.6	150.62	138.0	432.9	681.2	663.3	17.93	37.998		
5,100.0	5,090.9	5,046.3	5,023.9	10.2	11.8	150.62	141.2	442.4	696.3	678.1	18.29	38.072		

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 2D-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 2D-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													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Offset Well Error:		0.0 ft	
Reference: S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2F-14H-C268 - Hz - Plan #2																
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			
5,200.0	5,190.7	5,145.2	5,122.3	10.4	12.1	150.62	144.3	451.9	711.5	692.8	18.65	38.143				
5,300.0	5,290.5	5,244.0	5,220.6	10.6	12.3	150.61	147.5	461.4	726.6	707.6	19.02	38.212				
5,400.0	5,390.3	5,342.9	5,319.0	10.8	12.6	150.61	150.7	470.9	741.7	722.4	19.38	38.278				
5,500.0	5,490.1	5,441.7	5,417.3	11.0	12.8	150.61	153.8	480.4	756.9	737.1	19.74	38.341				
5,600.0	5,589.9	5,540.6	5,515.6	11.3	13.0	150.60	157.0	489.9	772.0	751.9	20.10	38.402				
5,700.0	5,689.7	5,639.4	5,614.0	11.5	13.3	150.60	160.2	499.4	787.1	766.6	20.46	38.461				
5,800.0	5,789.5	5,738.3	5,712.3	11.7	13.5	150.60	163.4	508.9	802.2	781.4	20.83	38.518				
5,900.0	5,889.3	5,837.1	5,810.7	11.9	13.8	150.60	166.5	518.4	817.4	796.2	21.19	38.574				
6,000.0	5,989.1	5,936.0	5,909.0	12.1	14.0	150.59	169.7	527.9	832.5	810.9	21.55	38.627				
6,100.0	6,088.9	6,034.8	6,007.3	12.3	14.3	150.59	172.9	537.4	847.6	825.7	21.91	38.678				
6,200.0	6,188.7	6,133.7	6,105.7	12.5	14.5	150.59	176.0	546.9	862.8	840.5	22.28	38.728				
6,300.0	6,288.5	6,232.5	6,204.0	12.7	14.8	150.59	179.2	556.4	877.9	855.2	22.64	38.776				
6,400.0	6,388.3	6,331.4	6,302.4	12.9	15.0	150.58	182.4	565.9	893.0	870.0	23.00	38.823				
6,500.0	6,488.1	6,430.2	6,400.7	13.1	15.3	150.58	185.5	575.4	908.1	884.8	23.36	38.868				
6,600.0	6,587.9	6,529.1	6,499.0	13.3	15.5	150.58	188.7	584.9	923.3	899.5	23.73	38.912				
6,700.0	6,687.7	6,627.9	6,597.4	13.5	15.7	150.58	191.9	594.4	938.4	914.3	24.09	38.954				
6,800.0	6,787.5	6,726.8	6,695.7	13.7	16.0	150.58	195.1	603.9	953.5	929.1	24.45	38.995				
6,900.0	6,887.3	6,825.4	6,793.9	13.9	16.2	-123.83	198.2	613.3	968.7	943.9	24.80	39.060				
7,000.0	6,985.5	6,927.1	6,895.0	14.0	16.5	-102.41	196.6	623.0	984.2	959.1	25.04	39.306				
7,100.0	7,079.2	7,033.2	6,998.6	14.1	16.6	-97.14	176.5	632.7	999.2	974.0	25.16	39.714				
7,200.0	7,165.6	7,142.9	7,099.9	14.2	16.7	-94.61	135.9	641.9	1,013.4	988.1	25.24	40.150				
7,300.0	7,242.1	7,256.1	7,194.5	14.3	16.9	-93.05	74.5	650.1	1,026.1	1,000.7	25.39	40.406				
7,400.0	7,306.2	7,372.7	7,277.4	14.6	17.1	-91.97	-6.8	657.0	1,036.9	1,011.1	25.79	40.211				
7,500.0	7,356.2	7,492.0	7,343.5	15.0	17.4	-91.17	-105.7	661.9	1,045.4	1,018.9	26.56	39.367				
7,600.0	7,390.4	7,613.1	7,388.4	15.5	18.0	-90.57	-218.0	664.7	1,051.3	1,023.4	27.82	37.787				
7,700.0	7,407.8	7,734.9	7,408.8	16.3	18.7	-90.13	-337.8	665.0	1,054.2	1,024.6	29.58	35.636				
7,800.0	7,410.0	7,841.3	7,410.0	17.2	19.5	-90.00	-444.2	663.6	1,054.8	1,023.2	31.59	33.385				
7,900.0	7,410.0	7,941.3	7,410.0	18.2	20.4	-90.00	-544.2	662.2	1,054.8	1,021.0	33.81	31.193				
8,000.0	7,410.0	8,041.3	7,410.0	19.3	21.4	-90.00	-644.1	660.8	1,052.5	1,016.3	36.29	29.007				
8,100.0	7,410.0	8,141.2	7,410.0	20.4	22.5	-90.00	-744.0	659.4	1,047.7	1,008.7	38.93	26.915				
8,200.0	7,410.0	8,240.9	7,410.0	21.7	23.7	-90.00	-843.7	658.0	1,040.2	998.5	41.69	24.949				
8,300.0	7,410.0	8,340.4	7,410.0	23.0	24.9	-90.00	-943.2	656.6	1,030.4	985.9	44.53	23.138				
8,400.0	7,410.0	8,439.9	7,410.0	24.3	26.2	-90.00	-1,042.7	655.2	1,020.3	972.9	47.44	21.508				
8,500.0	7,410.0	8,539.4	7,410.0	25.7	27.6	-90.00	-1,142.2	653.8	1,010.2	959.8	50.42	20.036				
8,600.0	7,410.0	8,638.9	7,410.0	27.2	28.9	-90.00	-1,241.7	652.5	1,000.1	946.6	53.46	18.706				
8,700.0	7,410.0	8,738.4	7,410.0	28.7	30.4	-90.00	-1,341.1	651.1	990.0	933.4	56.56	17.503				
8,800.0	7,410.0	8,837.9	7,410.0	30.2	31.8	-90.00	-1,440.6	649.7	979.9	920.2	59.70	16.413				
8,900.0	7,410.0	8,937.4	7,410.0	31.7	33.3	-90.00	-1,540.1	648.3	969.8	906.9	62.88	15.422				
9,000.0	7,410.0	9,036.8	7,410.0	33.3	34.8	-90.00	-1,639.6	646.9	959.7	893.6	66.09	14.520				
9,100.0	7,410.0	9,136.3	7,410.0	34.9	36.3	-90.00	-1,739.1	645.5	949.6	880.2	69.33	13.696				
9,200.0	7,410.0	9,235.8	7,410.0	36.4	37.9	-90.00	-1,838.5	644.1	939.5	866.9	72.60	12.941				
9,300.0	7,410.0	9,335.3	7,410.0	38.1	39.5	-90.00	-1,938.0	642.7	929.4	853.5	75.88	12.248				
9,400.0	7,410.0	9,434.8	7,410.0	39.7	41.0	-90.00	-2,037.5	641.3	919.2	840.1	79.18	11.609				
9,500.0	7,410.0	9,534.3	7,410.0	41.3	42.6	-90.00	-2,137.0	640.0	909.1	826.6	82.50	11.020				
9,600.0	7,410.0	9,633.8	7,410.0	43.0	44.2	-90.00	-2,236.4	638.6	899.0	813.2	85.83	10.474				
9,700.0	7,410.0	9,733.3	7,410.0	44.6	45.8	-90.00	-2,335.9	637.2	888.9	799.8	89.18	9.968				
9,800.0	7,410.0	9,832.8	7,410.0	46.3	47.5	-90.00	-2,435.4	635.8	878.8	786.3	92.53	9.497				
9,900.0	7,410.0	9,932.2	7,410.0	47.9	49.1	-90.00	-2,534.9	634.4	868.7	772.8	95.90	9.059				
10,000.0	7,410.0	10,031.7	7,410.0	49.6	50.7	-90.00	-2,634.4	633.0	858.6	759.3	99.27	8.649				
10,100.0	7,410.0	10,131.2	7,410.0	51.3	52.4	-90.00	-2,733.8	631.6	848.5	745.8	102.66	8.265				
10,200.0	7,410.0	10,230.7	7,410.0	53.0	54.0	-90.00	-2,833.3	630.2	838.4	732.4	106.05	7.906				
10,300.0	7,410.0	10,330.2	7,410.0	54.7	55.7	-90.00	-2,932.8	628.8	828.6	719.2	109.46	7.570				

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 2D-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 2D-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												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								
10,400.0	7,410.0	10,429.9	7,410.0	56.4	57.4	-90.00	-3,032.5	627.5	821.1	708.3	112.85	7.276								
10,500.0	7,410.0	10,529.8	7,410.0	58.1	59.0	-90.00	-3,132.4	626.1	816.2	700.0	116.17	7.026								
10,600.0	7,410.0	10,629.8	7,410.0	59.8	60.7	-90.00	-3,232.4	624.7	813.9	694.5	119.43	6.815								
10,638.9	7,410.0	10,668.7	7,410.0	60.4	61.4	-90.00	-3,271.3	624.1	813.7	693.0	120.72	6.740								
10,700.0	7,410.0	10,729.8	7,410.0	61.5	62.4	-90.00	-3,332.3	623.3	814.1	691.4	122.72	6.634								
10,800.0	7,410.0	10,829.8	7,410.0	63.2	64.1	-90.00	-3,432.3	621.9	814.8	688.6	126.15	6.459								
10,900.0	7,410.0	10,929.8	7,410.0	64.9	65.8	-90.00	-3,532.3	620.5	815.5	685.9	129.59	6.293								
11,000.0	7,410.0	11,029.8	7,410.0	66.6	67.5	-90.00	-3,632.3	619.1	816.2	683.2	133.03	6.135								
11,100.0	7,410.0	11,129.8	7,410.0	68.4	69.2	-90.00	-3,732.3	617.7	816.9	680.4	136.47	5.986								
11,200.0	7,410.0	11,229.8	7,410.0	70.1	70.9	-90.00	-3,832.3	616.3	817.7	677.8	139.86	5.847								
11,300.0	7,410.0	11,329.8	7,410.0	71.8	72.6	-90.00	-3,932.3	614.9	819.6	676.3	143.24	5.722								
11,400.0	7,410.0	11,429.7	7,410.0	73.5	74.3	-90.00	-4,032.2	613.5	821.6	674.9	146.69	5.601								
11,500.0	7,410.0	11,529.7	7,410.0	75.3	76.0	-90.00	-4,132.2	612.1	823.6	673.4	150.15	5.485								
11,600.0	7,410.0	11,629.7	7,410.0	77.0	77.7	-90.00	-4,232.2	610.7	825.5	671.9	153.61	5.374								
11,700.0	7,410.0	11,729.7	7,410.0	78.7	79.4	-90.00	-4,332.1	609.3	827.5	670.5	157.07	5.269								
11,800.0	7,410.0	11,829.7	7,410.0	80.5	81.1	-90.00	-4,432.1	607.9	829.5	669.0	160.53	5.168								
11,900.0	7,410.0	11,929.6	7,410.0	82.2	82.8	-90.00	-4,532.1	606.5	831.5	667.5	163.99	5.071								
12,000.0	7,410.0	12,029.6	7,410.0	83.9	84.6	-90.00	-4,632.1	605.1	833.5	666.1	167.46	4.977								
12,100.0	7,410.0	12,129.6	7,410.0	85.7	86.3	-90.00	-4,732.0	603.7	835.5	664.6	170.93	4.888								
12,200.0	7,410.0	12,229.6	7,410.0	87.4	88.0	-90.00	-4,832.0	602.3	837.5	663.1	174.40	4.802								
12,300.0	7,410.0	12,329.6	7,410.0	89.1	89.7	-90.00	-4,932.0	600.9	839.5	661.6	177.87	4.720								
12,400.0	7,410.0	12,429.5	7,410.0	90.9	91.4	-90.00	-5,031.9	599.5	841.5	660.2	181.34	4.640								
12,500.0	7,410.0	12,529.5	7,410.0	92.6	93.2	-90.00	-5,131.9	598.1	843.5	658.7	184.81	4.564								
12,600.0	7,410.0	12,629.5	7,410.0	94.3	94.9	-90.00	-5,231.9	596.7	845.5	657.2	188.29	4.490								
12,700.0	7,410.0	12,729.5	7,410.0	96.1	96.6	-90.00	-5,331.8	595.4	847.5	655.7	191.77	4.419								
12,800.0	7,410.0	12,829.5	7,410.0	97.8	98.3	-90.00	-5,431.8	594.0	849.5	654.2	195.24	4.351								
12,900.0	7,410.0	12,929.4	7,410.0	99.6	100.1	-90.00	-5,531.8	592.6	851.5	652.8	198.72	4.285								
13,000.0	7,410.0	13,029.4	7,410.0	101.3	101.8	-90.00	-5,631.8	591.2	853.5	651.3	202.20	4.221								
13,100.0	7,410.0	13,129.4	7,410.0	103.0	103.5	-90.00	-5,731.7	589.8	855.5	649.8	205.68	4.159								
13,200.0	7,410.0	13,229.4	7,410.0	104.8	105.3	-90.00	-5,831.7	588.4	857.5	648.3	209.16	4.099								
13,300.0	7,410.0	13,329.4	7,410.0	106.5	107.0	-90.00	-5,931.7	587.0	859.5	646.8	212.65	4.042								
13,400.0	7,410.0	13,429.3	7,410.0	108.3	108.7	-90.00	-6,031.6	585.6	861.5	645.3	216.13	3.986								
13,500.0	7,410.0	13,529.3	7,410.0	110.0	110.4	-90.00	-6,131.6	584.2	863.4	643.8	219.61	3.932								
13,600.0	7,410.0	13,629.3	7,410.0	111.8	112.2	-90.00	-6,231.6	582.8	865.4	642.3	223.10	3.879								
13,700.0	7,410.0	13,729.3	7,410.0	113.5	113.9	-90.00	-6,331.5	581.4	867.4	640.9	226.58	3.828								
13,800.0	7,410.0	13,829.3	7,410.0	115.2	115.6	-90.00	-6,431.5	580.0	869.4	639.4	230.07	3.779								
13,900.0	7,410.0	13,929.2	7,410.0	117.0	117.4	-90.00	-6,531.5	578.6	871.4	637.9	233.56	3.731								
14,000.0	7,410.0	14,029.2	7,410.0	118.7	119.1	-90.00	-6,631.5	577.2	873.4	636.4	237.05	3.685								
14,090.8	7,410.0	14,111.4	7,410.0	120.3	120.5	-90.00	-6,713.7	576.1	875.3	635.2	240.06	3.646 SF								

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 2D-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 2D-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	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	Factor		
0.0	0.0	11.0	11.0	0.0	0.0	89.99	0.0	30.8	30.8					
100.0	100.0	111.0	111.0	0.2	0.2	89.99	0.0	30.8	30.8	30.4	0.30	101.262		
200.0	200.0	211.0	211.0	0.3	0.3	89.99	0.0	30.8	30.8	30.1	0.65	47.111		
300.0	300.0	311.0	311.0	0.5	0.5	89.99	0.0	30.8	30.8	29.8	1.00	30.696		
362.5	362.5	373.5	373.5	0.6	0.6	89.99	0.0	30.8	30.8	29.5	1.22	25.203 CC		
400.0	400.0	410.9	410.9	0.7	0.7	89.98	0.0	30.8	30.8	29.4	1.35	22.780 ES		
500.0	500.0	509.8	509.8	0.8	0.9	89.17	0.5	32.8	32.8	31.1	1.70	19.298		
600.0	600.0	608.3	608.2	1.0	1.0	149.71	1.7	38.1	39.8	37.7	2.04	19.447		
700.0	699.8	705.9	705.3	1.2	1.3	150.45	3.7	46.7	53.0	50.6	2.39	22.156		
800.0	799.6	802.3	801.0	1.4	1.5	150.81	6.4	58.2	70.5	67.8	2.74	25.716		
900.0	899.4	900.0	897.6	1.6	1.8	150.71	9.5	72.0	90.1	87.0	3.10	29.117		
1,000.0	999.2	998.0	994.6	1.8	2.0	150.64	12.8	86.0	109.8	106.4	3.45	31.816		
1,100.0	1,099.0	1,096.1	1,091.6	2.0	2.3	150.60	16.0	99.9	129.5	125.7	3.81	34.003		
1,200.0	1,198.8	1,194.1	1,188.6	2.2	2.6	150.56	19.2	113.8	149.2	145.0	4.17	35.809		
1,300.0	1,298.6	1,292.2	1,285.6	2.4	2.9	150.53	22.4	127.7	168.8	164.3	4.52	37.325		
1,400.0	1,398.4	1,390.2	1,382.6	2.6	3.2	150.51	25.6	141.6	188.5	183.6	4.88	38.616		
1,500.0	1,498.2	1,488.3	1,479.6	2.8	3.5	150.49	28.8	155.5	208.2	202.9	5.24	39.728		
1,600.0	1,598.0	1,586.3	1,576.6	3.0	3.8	150.48	32.0	169.4	227.8	222.2	5.60	40.696		
1,700.0	1,697.8	1,684.4	1,673.6	3.2	4.1	150.47	35.3	183.3	247.5	241.6	5.96	41.546		
1,800.0	1,797.6	1,782.4	1,770.6	3.4	4.4	150.46	38.5	197.3	267.2	260.9	6.32	42.298		
1,900.0	1,897.4	1,880.5	1,867.6	3.6	4.7	150.45	41.7	211.2	286.9	280.2	6.68	42.968		
2,000.0	1,997.2	1,978.5	1,964.6	3.8	5.0	150.44	44.9	225.1	306.5	299.5	7.04	43.569		
2,100.0	2,097.0	2,076.5	2,061.6	4.0	5.3	150.43	48.1	239.0	326.2	318.8	7.40	44.110		
2,200.0	2,196.8	2,174.6	2,158.6	4.2	5.6	150.43	51.3	252.9	345.9	338.1	7.75	44.601		
2,300.0	2,296.6	2,272.6	2,255.6	4.4	5.9	150.42	54.6	266.8	365.5	357.4	8.11	45.048		
2,400.0	2,396.4	2,370.7	2,352.6	4.6	6.2	150.42	57.8	280.7	385.2	376.7	8.47	45.457		
2,500.0	2,496.2	2,468.7	2,449.6	4.9	6.5	150.41	61.0	294.6	404.9	396.1	8.83	45.832		
2,600.0	2,596.0	2,566.8	2,546.7	5.1	6.8	150.41	64.2	308.5	424.6	415.4	9.19	46.178		
2,700.0	2,695.8	2,664.8	2,643.7	5.3	7.1	150.41	67.4	322.5	444.2	434.7	9.55	46.497		
2,800.0	2,795.6	2,762.9	2,740.7	5.5	7.4	150.40	70.6	336.4	463.9	454.0	9.91	46.793		
2,900.0	2,895.4	2,860.9	2,837.7	5.7	7.7	150.40	73.8	350.3	483.6	473.3	10.27	47.068		
3,000.0	2,995.2	2,959.0	2,934.7	5.9	8.0	150.40	77.1	364.2	503.3	492.6	10.63	47.324		
3,100.0	3,095.0	3,057.0	3,031.7	6.1	8.3	150.39	80.3	378.1	522.9	511.9	10.99	47.563		
3,200.0	3,194.8	3,155.1	3,128.7	6.3	8.6	150.39	83.5	392.0	542.6	531.2	11.35	47.787		
3,300.0	3,294.6	3,253.1	3,225.7	6.5	8.9	150.39	86.7	405.9	562.3	550.6	11.71	47.997		
3,400.0	3,394.4	3,351.1	3,322.7	6.7	9.2	150.39	89.9	419.8	581.9	569.9	12.07	48.195		
3,500.0	3,494.2	3,449.2	3,419.7	6.9	9.5	150.39	93.1	433.8	601.6	589.2	12.44	48.381		
3,600.0	3,594.0	3,547.2	3,516.7	7.1	9.8	150.38	96.3	447.7	621.3	608.5	12.80	48.556		
3,700.0	3,693.8	3,645.3	3,613.7	7.3	10.1	150.38	99.6	461.6	641.0	627.8	13.16	48.722		
3,800.0	3,793.6	3,743.3	3,710.7	7.5	10.4	150.38	102.8	475.5	660.6	647.1	13.52	48.879		
3,900.0	3,893.4	3,841.4	3,807.7	7.7	10.7	150.38	106.0	489.4	680.3	666.4	13.88	49.027		
4,000.0	3,993.2	3,939.4	3,904.7	7.9	11.0	150.38	109.2	503.3	700.0	685.7	14.24	49.168		
4,100.0	4,093.0	4,037.5	4,001.7	8.2	11.3	150.38	112.4	517.2	719.6	705.0	14.60	49.302		
4,200.0	4,192.8	4,135.5	4,098.7	8.4	11.6	150.38	115.6	531.1	739.3	724.4	14.96	49.430		
4,300.0	4,292.6	4,233.6	4,195.7	8.6	12.0	150.37	118.8	545.0	759.0	743.7	15.32	49.551		
4,400.0	4,392.4	4,331.6	4,292.7	8.8	12.3	150.37	122.1	559.0	778.7	763.0	15.68	49.667		
4,500.0	4,492.2	4,429.6	4,389.7	9.0	12.6	150.37	125.3	572.9	798.3	782.3	16.04	49.778		
4,600.0	4,592.0	4,527.7	4,486.7	9.2	12.9	150.37	128.5	586.8	818.0	801.6	16.40	49.884		
4,700.0	4,691.8	4,625.7	4,583.7	9.4	13.2	150.37	131.7	600.7	837.7	820.9	16.76	49.985		
4,800.0	4,791.6	4,723.8	4,680.7	9.6	13.5	150.37	134.9	614.6	857.4	840.2	17.12	50.082		
4,900.0	4,891.4	4,821.8	4,777.7	9.8	13.8	150.37	138.1	628.5	877.0	859.5	17.48	50.175		
5,000.0	4,991.2	4,919.9	4,874.7	10.0	14.1	150.37	141.3	642.4	896.7	878.9	17.84	50.264		

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 2D-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 2D-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)				
5,100.0	5,090.9	5,017.9	4,971.7	10.2	14.4	150.37	144.6	656.3	916.4	898.2	18.20	50.349		
5,200.0	5,190.7	5,116.0	5,068.7	10.4	14.7	150.37	147.8	670.3	936.0	917.5	18.56	50.432		
5,300.0	5,290.5	5,214.0	5,165.7	10.6	15.0	150.36	151.0	684.2	955.7	936.8	18.92	50.511		
5,400.0	5,390.3	5,312.1	5,262.7	10.8	15.3	150.36	154.2	698.1	975.4	956.1	19.28	50.587		
5,500.0	5,490.1	5,410.1	5,359.7	11.0	15.6	150.36	157.4	712.0	995.1	975.4	19.64	50.660		
5,600.0	5,589.9	5,508.2	5,456.7	11.3	15.9	150.36	160.6	725.9	1,014.7	994.7	20.00	50.731		
5,700.0	5,689.7	5,606.2	5,553.7	11.5	16.2	150.36	163.8	739.8	1,034.4	1,014.0	20.36	50.799		
5,800.0	5,789.5	5,704.2	5,650.7	11.7	16.5	150.36	167.1	753.7	1,054.1	1,033.4	20.72	50.865		
5,900.0	5,889.3	5,802.3	5,747.7	11.9	16.8	150.36	170.3	767.6	1,073.7	1,052.7	21.08	50.928		
6,000.0	5,989.1	5,900.3	5,844.7	12.1	17.1	150.36	173.5	781.6	1,093.4	1,072.0	21.44	50.990		
6,100.0	6,088.9	5,998.4	5,941.7	12.3	17.4	150.36	176.7	795.5	1,113.1	1,091.3	21.80	51.049		
6,200.0	6,188.7	6,096.4	6,038.7	12.5	17.7	150.36	179.9	809.4	1,132.8	1,110.6	22.16	51.106		
6,300.0	6,288.5	6,194.5	6,135.7	12.7	18.0	150.36	183.1	823.3	1,152.4	1,129.9	22.53	51.162		
6,400.0	6,388.3	6,292.5	6,232.7	12.9	18.3	150.36	186.3	837.2	1,172.1	1,149.2	22.89	51.216		
6,500.0	6,488.1	6,390.6	6,329.7	13.1	18.6	150.36	189.6	851.1	1,191.8	1,168.5	23.25	51.268		
6,600.0	6,587.9	6,488.6	6,426.7	13.3	18.9	150.36	192.8	865.0	1,211.5	1,187.8	23.61	51.318		
6,700.0	6,687.7	6,586.7	6,523.7	13.5	19.2	150.36	196.0	878.9	1,231.1	1,207.2	23.97	51.367		
6,800.0	6,787.5	6,684.8	6,620.8	13.7	19.5	150.36	199.2	892.9	1,250.8	1,226.5	24.33	51.417		
6,900.0	6,887.3	6,783.6	6,718.3	13.9	19.8	-123.24	192.8	906.8	1,270.5	1,245.8	24.67	51.507		
9,400.0	7,410.0	9,248.0	7,200.0	39.7	42.6	-79.97	-2,024.7	975.9	1,273.1	1,194.9	78.21	16.278		
9,500.0	7,410.0	9,347.6	7,200.0	41.3	44.1	-79.90	-2,124.3	975.9	1,264.5	1,183.0	81.47	15.521		
9,600.0	7,410.0	9,447.2	7,200.0	43.0	45.7	-79.83	-2,223.9	975.9	1,255.9	1,171.2	84.74	14.821		
9,700.0	7,410.0	9,546.9	7,200.0	44.6	47.2	-79.76	-2,323.5	975.9	1,247.3	1,159.3	88.02	14.171		
9,800.0	7,410.0	9,646.5	7,200.0	46.3	48.8	-79.68	-2,423.1	975.9	1,238.8	1,147.4	91.31	13.566		
9,900.0	7,410.0	9,746.1	7,200.0	47.9	50.4	-79.61	-2,522.8	975.9	1,230.2	1,135.6	94.61	13.002		
10,000.0	7,410.0	9,845.7	7,200.0	49.6	52.0	-79.54	-2,622.4	975.9	1,221.6	1,123.7	97.92	12.476		
10,100.0	7,410.0	9,945.3	7,200.0	51.3	53.6	-79.46	-2,722.0	975.9	1,213.0	1,111.8	101.23	11.983		
10,200.0	7,410.0	10,044.9	7,200.0	53.0	55.2	-79.39	-2,821.6	975.9	1,204.5	1,099.9	104.55	11.521		
10,300.0	7,410.0	10,144.6	7,200.0	54.7	56.8	-79.32	-2,921.3	975.9	1,196.2	1,088.4	107.82	11.095		
10,400.0	7,410.0	10,244.4	7,200.0	56.4	58.5	-79.29	-3,021.1	975.9	1,190.2	1,079.2	111.00	10.723		
10,500.0	7,410.0	10,344.3	7,200.0	58.1	60.1	-79.27	-3,121.0	975.9	1,186.8	1,072.6	114.12	10.399		
10,583.9	7,410.0	10,428.2	7,200.0	59.5	61.5	-79.26	-3,204.9	975.9	1,185.9	1,069.2	116.70	10.162		
10,600.0	7,410.0	10,444.3	7,200.0	59.8	61.7	-79.26	-3,221.0	975.9	1,185.9	1,068.7	117.19	10.119		
10,700.0	7,410.0	10,544.3	7,200.0	61.5	63.4	-79.27	-3,321.0	975.9	1,187.4	1,067.1	120.34	9.867		
10,800.0	7,410.0	10,644.3	7,200.0	63.2	65.1	-79.29	-3,421.0	975.9	1,189.5	1,065.8	123.72	9.615		
10,900.0	7,410.0	10,744.3	7,200.0	64.9	66.7	-79.31	-3,520.9	975.9	1,191.5	1,064.4	127.10	9.375		
11,000.0	7,410.0	10,844.3	7,200.0	66.6	68.4	-79.33	-3,620.9	975.9	1,193.6	1,063.1	130.49	9.147		
11,100.0	7,410.0	10,944.2	7,200.0	68.4	70.1	-79.35	-3,720.9	975.9	1,195.7	1,061.8	133.88	8.931		
11,200.0	7,410.0	11,044.2	7,200.0	70.1	71.7	-79.36	-3,820.9	975.9	1,197.8	1,060.6	137.18	8.732		
11,300.0	7,410.0	11,144.2	7,200.0	71.8	73.4	-79.39	-3,920.8	975.9	1,201.0	1,060.6	140.47	8.550		
11,400.0	7,410.0	11,244.1	7,200.0	73.5	75.1	-79.42	-4,020.8	975.9	1,204.4	1,060.5	143.88	8.371		
11,500.0	7,410.0	11,344.0	7,200.0	75.3	76.8	-79.45	-4,120.7	975.9	1,207.7	1,060.4	147.29	8.199		
11,600.0	7,410.0	11,444.0	7,200.0	77.0	78.5	-79.48	-4,220.6	975.9	1,211.0	1,060.3	150.70	8.036		
11,700.0	7,410.0	11,543.9	7,200.0	78.7	80.2	-79.51	-4,320.6	975.9	1,214.4	1,060.2	154.12	7.879		
11,800.0	7,410.0	11,643.9	7,200.0	80.5	81.9	-79.54	-4,420.5	975.9	1,217.7	1,060.2	157.53	7.730		
11,900.0	7,410.0	11,743.8	7,200.0	82.2	83.6	-79.57	-4,520.5	975.9	1,221.0	1,060.1	160.95	7.586		
12,000.0	7,410.0	11,843.8	7,200.0	83.9	85.3	-79.60	-4,620.4	975.9	1,224.4	1,060.0	164.38	7.449		
12,100.0	7,410.0	11,943.7	7,200.0	85.7	87.0	-79.62	-4,720.4	975.9	1,227.7	1,059.9	167.80	7.316		
12,200.0	7,410.0	12,043.6	7,200.0	87.4	88.7	-79.65	-4,820.3	975.9	1,231.0	1,059.8	171.23	7.189		
12,300.0	7,410.0	12,143.6	7,200.0	89.1	90.4	-79.68	-4,920.2	975.9	1,234.4	1,059.7	174.66	7.067		
12,400.0	7,410.0	12,243.5	7,200.0	90.9	92.1	-79.71	-5,020.2	975.9	1,237.7	1,059.6	178.09	6.950		
12,500.0	7,410.0	12,343.5	7,200.0	92.6	93.8	-79.74	-5,120.1	975.9	1,241.0	1,059.5	181.52	6.837		

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2G-14H-C268 - Hz - Plan #2															
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		
12,600.0	7,410.0	12,443.4	7,200.0	94.3	95.5	-79.76	-5,220.1	975.9	1,244.4	1,059.4	184.95	6.728			
12,700.0	7,410.0	12,543.3	7,200.0	96.1	97.2	-79.79	-5,320.0	975.9	1,247.7	1,059.3	188.39	6.623			
12,800.0	7,410.0	12,643.3	7,200.0	97.8	98.9	-79.82	-5,420.0	975.9	1,251.1	1,059.2	191.83	6.522			
12,900.0	7,410.0	12,743.2	7,200.0	99.6	100.6	-79.85	-5,519.9	975.9	1,254.4	1,059.1	195.27	6.424			
13,000.0	7,410.0	12,843.2	7,200.0	101.3	102.4	-79.87	-5,619.8	975.9	1,257.7	1,059.0	198.71	6.330			
13,100.0	7,410.0	12,943.1	7,200.0	103.0	104.1	-79.90	-5,719.8	975.9	1,261.1	1,058.9	202.15	6.238			
13,200.0	7,410.0	13,043.1	7,200.0	104.8	105.8	-79.93	-5,819.7	975.9	1,264.4	1,058.8	205.59	6.150			
13,300.0	7,410.0	13,143.0	7,200.0	106.5	107.5	-79.95	-5,919.7	975.9	1,267.8	1,058.7	209.04	6.065			
13,400.0	7,410.0	13,242.9	7,200.0	108.3	109.2	-79.98	-6,019.6	975.9	1,271.1	1,058.6	212.48	5.982			
13,500.0	7,410.0	13,342.9	7,200.0	110.0	111.0	-80.01	-6,119.5	975.9	1,274.4	1,058.5	215.93	5.902			
13,600.0	7,410.0	13,442.8	7,200.0	111.8	112.7	-80.03	-6,219.5	975.9	1,277.8	1,058.4	219.38	5.825 SF			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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 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	-177.98	-553.7	-19.6	554.1					
100.0	100.0	100.0	100.0	0.2	0.2	-177.98	-553.7	-19.6	554.1	553.7	0.30	1,824.416		
200.0	200.0	200.0	200.0	0.3	0.3	-177.98	-553.7	-19.6	554.1	553.4	0.65	848.793	CC	
300.0	300.0	298.2	298.1	0.5	0.5	-177.80	-553.8	-21.2	554.2	553.2	1.00	554.665	ES	
400.0	400.0	396.1	395.9	0.7	0.7	-177.29	-554.1	-26.3	554.7	553.4	1.35	411.623		
500.0	500.0	493.6	493.1	0.8	0.9	-176.43	-554.6	-34.6	555.7	554.0	1.70	327.040		
600.0	600.0	590.5	589.3	1.0	1.2	-114.33	-555.3	-46.1	558.0	555.8	2.19	254.733		
700.0	699.8	687.1	684.7	1.2	1.5	-113.24	-556.2	-60.8	562.4	559.7	2.67	210.526		
800.0	799.6	782.9	778.9	1.4	1.8	-112.02	-557.2	-78.6	568.0	564.8	3.20	177.295		
900.0	899.4	878.0	871.7	1.6	2.2	-110.53	-558.5	-99.3	574.5	570.8	3.77	152.198		
1,000.0	999.2	976.3	976.3	1.8	2.6	-108.88	-559.8	-122.1	581.9	577.5	4.37	132.998		
1,100.0	1,099.0	1,074.6	1,062.9	2.0	3.1	-107.27	-561.2	-145.0	589.6	584.7	4.98	118.470		
1,200.0	1,198.8	1,172.9	1,158.5	2.2	3.5	-105.70	-562.6	-167.9	597.9	592.3	5.58	107.166		
1,300.0	1,298.6	1,271.2	1,254.1	2.4	3.9	-104.18	-563.9	-190.7	606.6	600.4	6.18	98.175		
1,400.0	1,398.4	1,369.5	1,349.7	2.6	4.4	-102.70	-565.3	-213.6	615.7	609.0	6.77	90.891		
1,500.0	1,498.2	1,467.8	1,445.3	2.8	4.8	-101.26	-566.6	-236.5	625.3	617.9	7.36	84.898		
1,600.0	1,598.0	1,566.1	1,540.9	3.0	5.2	-99.87	-568.0	-259.3	635.2	627.2	7.95	79.901		
1,700.0	1,697.8	1,664.4	1,636.4	3.2	5.7	-98.52	-569.4	-282.2	645.5	636.9	8.53	75.688		
1,800.0	1,797.6	1,762.7	1,732.0	3.4	6.1	-97.21	-570.7	-305.1	656.1	647.0	9.10	72.101		
1,900.0	1,897.4	1,861.0	1,827.6	3.6	6.6	-95.94	-572.1	-327.9	667.1	657.4	9.66	69.023		
2,000.0	1,997.2	1,959.3	1,923.2	3.8	7.0	-94.71	-573.5	-350.8	678.4	668.1	10.22	66.361		
2,100.0	2,097.0	2,057.6	2,018.8	4.0	7.4	-93.53	-574.8	-373.7	690.0	679.2	10.77	64.045		
2,200.0	2,196.8	2,155.9	2,114.4	4.2	7.9	-92.38	-576.2	-396.5	701.8	690.5	11.32	62.019		
2,300.0	2,296.6	2,254.2	2,210.0	4.4	8.3	-91.27	-577.6	-419.4	714.0	702.2	11.85	60.237		
2,400.0	2,396.4	2,352.5	2,305.6	4.6	8.8	-90.19	-578.9	-442.3	726.4	714.0	12.38	58.662		
2,500.0	2,496.2	2,450.8	2,401.2	4.9	9.2	-89.16	-580.3	-465.1	739.1	726.2	12.91	57.266		
2,600.0	2,596.0	2,549.1	2,496.8	5.1	9.7	-88.15	-581.7	-488.0	752.0	738.6	13.42	56.024		
2,700.0	2,695.8	2,647.4	2,592.4	5.3	10.1	-87.18	-583.0	-510.9	765.1	751.2	13.93	54.915		
2,800.0	2,795.6	2,745.7	2,688.0	5.5	10.5	-86.25	-584.4	-533.7	778.5	764.0	14.44	53.921		
2,900.0	2,895.4	2,844.0	2,783.6	5.7	11.0	-85.34	-585.7	-556.6	792.0	777.1	14.93	53.030		
3,000.0	2,995.2	2,942.3	2,879.2	5.9	11.4	-84.47	-587.1	-579.5	805.7	790.3	15.43	52.228		
3,100.0	3,095.0	3,040.6	2,974.8	6.1	11.9	-83.62	-588.5	-602.3	819.6	803.7	15.91	51.505		
3,200.0	3,194.8	3,138.9	3,070.4	6.3	12.3	-82.80	-589.8	-625.2	833.7	817.3	16.39	50.851		
3,300.0	3,294.6	3,237.2	3,166.0	6.5	12.8	-82.01	-591.2	-648.1	848.0	831.1	16.87	50.260		
3,400.0	3,394.4	3,335.5	3,261.6	6.7	13.2	-81.24	-592.6	-670.9	862.4	845.0	17.34	49.724		
3,500.0	3,494.2	3,433.8	3,357.2	6.9	13.7	-80.50	-593.9	-693.8	876.9	859.1	17.81	49.238		
3,600.0	3,594.0	3,532.1	3,452.7	7.1	14.1	-79.79	-595.3	-716.7	891.6	873.3	18.27	48.796		
3,700.0	3,693.8	3,630.4	3,548.3	7.3	14.5	-79.09	-596.7	-739.5	906.4	887.7	18.73	48.394		
3,800.0	3,793.6	3,728.7	3,643.9	7.5	15.0	-78.42	-598.0	-762.4	921.4	902.2	19.18	48.028		
3,900.0	3,893.4	3,827.0	3,739.5	7.7	15.4	-77.77	-599.4	-785.3	936.4	916.8	19.63	47.695		
4,000.0	3,993.2	3,925.3	3,835.1	7.9	15.9	-77.14	-600.8	-808.1	951.6	931.5	20.08	47.390		
4,100.0	4,093.0	4,023.6	3,930.7	8.2	16.3	-76.53	-602.1	-831.0	966.9	946.4	20.52	47.113		
4,200.0	4,192.8	4,121.9	4,026.3	8.4	16.8	-75.94	-603.5	-853.9	982.3	961.3	20.96	46.859		
4,300.0	4,292.6	4,220.2	4,121.9	8.6	17.2	-75.37	-604.8	-876.7	997.8	976.4	21.40	46.628		
4,400.0	4,392.4	4,318.5	4,217.5	8.8	17.7	-74.81	-606.2	-899.6	1,013.4	991.6	21.83	46.416		
4,500.0	4,492.2	4,416.8	4,313.1	9.0	18.1	-74.27	-607.6	-922.5	1,029.1	1,006.8	22.26	46.223		
4,600.0	4,592.0	4,515.1	4,408.7	9.2	18.5	-73.75	-608.9	-945.3	1,044.9	1,022.2	22.69	46.046		
4,700.0	4,691.8	4,613.4	4,504.3	9.4	19.0	-73.24	-610.3	-968.2	1,060.7	1,037.6	23.12	45.885		
4,800.0	4,791.6	4,711.7	4,599.9	9.6	19.4	-72.75	-611.7	-991.1	1,076.7	1,053.1	23.54	45.738		
4,900.0	4,891.4	4,810.0	4,695.5	9.8	19.9	-72.27	-613.0	-1,013.9	1,092.7	1,068.7	23.96	45.603		
5,000.0	4,991.2	4,908.3	4,791.1	10.0	20.3	-71.81	-614.4	-1,036.8	1,108.8	1,084.4	24.38	45.480		
5,100.0	5,090.9	5,006.6	4,886.7	10.2	20.8	-71.36	-615.8	-1,059.7	1,124.9	1,100.1	24.79	45.368		

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Cathedral Energy Services

Anticollision Report

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Reference Well:	Grant Elmquist 2D-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													Offset Site Error:	0.0 ft			
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference													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	5,190.7	5,104.9	4,982.3	10.4	21.2	-70.92	-617.1	-1,082.5	1,141.1	1,115.9	25.21	45.266					
5,300.0	5,290.5	5,203.2	5,077.9	10.6	21.7	-70.49	-618.5	-1,105.4	1,157.4	1,131.8	25.62	45.173					
5,400.0	5,390.3	5,301.5	5,173.5	10.8	22.1	-70.08	-619.9	-1,128.3	1,173.8	1,147.7	26.03	45.089					
5,500.0	5,490.1	5,399.8	5,269.0	11.0	22.5	-69.67	-621.2	-1,151.1	1,190.2	1,163.7	26.44	45.012					
5,600.0	5,589.9	5,498.2	5,364.6	11.3	23.0	-69.28	-622.6	-1,174.0	1,206.6	1,179.8	26.85	44.942					
5,700.0	5,689.7	5,596.5	5,460.2	11.5	23.4	-68.90	-623.9	-1,196.9	1,223.1	1,195.9	27.25	44.879					
5,800.0	5,789.5	5,694.8	5,555.8	11.7	23.9	-68.53	-625.3	-1,219.7	1,239.7	1,212.0	27.66	44.822					
5,900.0	5,889.3	5,793.1	5,651.4	11.9	24.3	-68.17	-626.7	-1,242.6	1,256.3	1,228.3	28.06	44.771					
6,000.0	5,989.1	5,891.4	5,747.0	12.1	24.8	-67.81	-628.0	-1,265.5	1,273.0	1,244.5	28.46	44.725					
7,600.0	7,390.4	7,636.3	7,352.9	15.5	32.3	86.17	-374.0	-1,645.7	1,267.9	1,240.2	27.63	45.881					
7,700.0	7,407.8	7,512.5	7,278.4	16.3	31.8	83.37	-471.2	-1,629.3	1,254.9	1,226.9	27.97	44.866					
7,800.0	7,410.0	7,417.7	7,208.7	17.2	31.5	80.64	-533.3	-1,613.5	1,243.3	1,214.6	28.68	43.345					
7,900.0	7,410.0	7,351.2	7,154.3	18.2	31.2	78.05	-569.4	-1,601.0	1,235.9	1,206.4	29.52	41.867					
7,942.5	7,410.0	7,329.1	7,135.4	18.6	31.2	77.15	-580.0	-1,596.6	1,235.1	1,205.2	29.90	41.313					
8,000.0	7,410.0	7,303.5	7,113.0	19.3	31.1	76.09	-591.2	-1,591.5	1,236.6	1,206.2	30.40	40.678					
8,100.0	7,410.0	7,268.0	7,081.2	20.4	30.9	74.54	-605.1	-1,584.0	1,246.5	1,215.1	31.36	39.743					
8,200.0	7,410.0	7,240.5	7,056.0	21.7	30.8	73.26	-614.5	-1,578.2	1,265.7	1,233.3	32.40	39.067 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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 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	-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		
300.0	300.0	300.0	300.0	0.5	0.5	-178.84	-553.7	-11.2	553.8	552.8	1.00	552.814	CC	
400.0	400.0	398.0	398.0	0.7	0.7	-178.67	-553.8	-12.9	554.0	552.7	1.35	411.030	ES	
500.0	500.0	495.8	495.6	0.8	0.9	-178.16	-554.3	-17.8	554.6	552.9	1.70	327.102		
600.0	600.0	593.2	592.7	1.0	1.1	-116.38	-554.9	-26.1	556.4	554.3	2.10	265.189		
700.0	699.8	690.4	689.2	1.2	1.3	-115.61	-555.9	-37.6	560.3	557.7	2.53	221.725		
800.0	799.6	787.0	784.7	1.4	1.6	-114.69	-557.1	-52.3	565.2	562.2	3.00	188.205		
900.0	899.4	885.1	881.2	1.6	1.9	-113.51	-558.6	-69.8	570.8	567.3	3.51	162.607		
1,000.0	999.2	984.2	978.6	1.8	2.3	-112.33	-560.1	-87.7	576.7	572.6	4.03	142.968		
1,100.0	1,099.0	1,083.3	1,076.1	2.0	2.6	-111.16	-561.5	-105.5	582.8	578.2	4.56	127.717		
1,200.0	1,198.8	1,182.4	1,173.6	2.2	3.0	-110.03	-563.0	-123.4	589.1	584.0	5.10	115.605		
1,300.0	1,298.6	1,281.5	1,271.1	2.4	3.3	-108.91	-564.5	-141.2	595.7	590.1	5.63	105.798		
1,400.0	1,398.4	1,380.6	1,368.5	2.6	3.7	-107.82	-566.0	-159.1	602.5	596.4	6.17	97.725		
1,500.0	1,498.2	1,479.7	1,466.0	2.8	4.0	-106.76	-567.5	-176.9	609.6	602.9	6.70	90.982		
1,600.0	1,598.0	1,578.8	1,563.5	3.0	4.4	-105.72	-569.0	-194.8	616.8	609.5	7.23	85.279		
1,700.0	1,697.8	1,678.0	1,661.0	3.2	4.7	-104.70	-570.4	-212.6	624.2	616.4	7.76	80.403		
1,800.0	1,797.6	1,777.1	1,758.5	3.4	5.1	-103.71	-571.9	-230.5	631.8	623.5	8.29	76.195		
1,900.0	1,897.4	1,876.2	1,855.9	3.6	5.4	-102.74	-573.4	-248.3	639.6	630.8	8.82	72.533		
2,000.0	1,997.2	1,975.3	1,953.4	3.8	5.8	-101.79	-574.9	-266.2	647.6	638.3	9.34	69.323		
2,100.0	2,097.0	2,074.4	2,050.9	4.0	6.2	-100.87	-576.4	-284.0	655.8	645.9	9.86	66.491		
2,200.0	2,196.8	2,173.5	2,148.4	4.2	6.5	-99.97	-577.9	-301.9	664.1	653.7	10.38	63.978		
2,300.0	2,296.6	2,272.6	2,245.8	4.4	6.9	-99.09	-579.3	-319.7	672.6	661.7	10.89	61.735		
2,400.0	2,396.4	2,371.7	2,343.3	4.6	7.2	-98.24	-580.8	-337.6	681.2	669.8	11.41	59.726		
2,500.0	2,496.2	2,470.8	2,440.8	4.9	7.6	-97.40	-582.3	-355.4	690.0	678.1	11.91	57.916		
2,600.0	2,596.0	2,569.9	2,538.3	5.1	8.0	-96.59	-583.8	-373.3	699.0	686.5	12.42	56.281		
2,700.0	2,695.8	2,669.1	2,635.8	5.3	8.3	-95.79	-585.3	-391.1	708.0	695.1	12.92	54.799		
2,800.0	2,795.6	2,768.2	2,733.2	5.5	8.7	-95.02	-586.8	-409.0	717.2	703.8	13.42	53.450		
2,900.0	2,895.4	2,867.3	2,830.7	5.7	9.0	-94.27	-588.2	-426.8	726.6	712.6	13.91	52.218		
3,000.0	2,995.2	2,966.4	2,928.2	5.9	9.4	-93.53	-589.7	-444.7	736.0	721.6	14.41	51.091		
3,100.0	3,095.0	3,065.5	3,025.7	6.1	9.8	-92.82	-591.2	-462.5	745.6	730.7	14.89	50.057		
3,200.0	3,194.8	3,164.6	3,123.1	6.3	10.1	-92.12	-592.7	-480.4	755.3	739.9	15.38	49.106		
3,300.0	3,294.6	3,263.7	3,220.6	6.5	10.5	-91.44	-594.2	-498.2	765.1	749.2	15.86	48.230		
3,400.0	3,394.4	3,362.8	3,318.1	6.7	10.8	-90.78	-595.7	-516.1	775.0	758.6	16.34	47.420		
3,500.0	3,494.2	3,461.9	3,415.6	6.9	11.2	-90.13	-597.1	-533.9	785.0	768.1	16.82	46.670		
3,600.0	3,594.0	3,561.0	3,513.1	7.1	11.6	-89.50	-598.6	-551.8	795.1	777.8	17.29	45.975		
3,700.0	3,693.8	3,660.2	3,610.5	7.3	11.9	-88.88	-600.1	-569.6	805.2	787.5	17.76	45.330		
3,800.0	3,793.6	3,759.3	3,708.0	7.5	12.3	-88.29	-601.6	-587.5	815.5	797.3	18.23	44.729		
3,900.0	3,893.4	3,858.4	3,805.5	7.7	12.6	-87.70	-603.1	-605.3	825.9	807.2	18.70	44.169		
4,000.0	3,993.2	3,957.5	3,903.0	7.9	13.0	-87.13	-604.6	-623.2	836.3	817.2	19.16	43.647		
4,100.0	4,093.0	4,056.6	4,000.4	8.2	13.4	-86.58	-606.0	-641.0	846.9	827.2	19.62	43.159		
4,200.0	4,192.8	4,155.7	4,097.9	8.4	13.7	-86.03	-607.5	-658.9	857.5	837.4	20.08	42.702		
4,300.0	4,292.6	4,254.8	4,195.4	8.6	14.1	-85.50	-609.0	-676.7	868.2	847.6	20.54	42.275		
4,400.0	4,392.4	4,353.9	4,292.9	8.8	14.5	-84.99	-610.5	-694.6	878.9	857.9	20.99	41.873		
4,500.0	4,492.2	4,453.0	4,390.4	9.0	14.8	-84.48	-612.0	-712.4	889.7	868.3	21.44	41.497		
4,600.0	4,592.0	4,552.1	4,487.8	9.2	15.2	-83.99	-613.5	-730.3	900.6	878.7	21.89	41.142		
4,700.0	4,691.8	4,651.3	4,585.3	9.4	15.5	-83.51	-614.9	-748.1	911.6	889.2	22.34	40.809		
4,800.0	4,791.6	4,750.4	4,682.8	9.6	15.9	-83.04	-616.4	-766.0	922.6	899.8	22.78	40.495		
4,900.0	4,891.4	4,849.5	4,780.3	9.8	16.3	-82.59	-617.9	-783.8	933.7	910.4	23.23	40.199		
5,000.0	4,991.2	4,948.6	4,877.8	10.0	16.6	-82.14	-619.4	-801.7	944.8	921.1	23.67	39.920		
5,100.0	5,090.9	5,047.7	4,975.2	10.2	17.0	-81.70	-620.9	-819.5	956.0	931.9	24.11	39.657		

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 2D-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 2D-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 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	5,190.7	5,146.8	5,072.7	10.4	17.3	-81.28	-622.4	-837.4	967.2	942.7	24.54	39.407		
5,300.0	5,290.5	5,245.9	5,170.2	10.6	17.7	-80.86	-623.8	-855.2	978.5	953.5	24.98	39.172		
5,400.0	5,390.3	5,345.0	5,267.7	10.8	18.1	-80.45	-625.3	-873.1	989.9	964.5	25.41	38.948		
5,500.0	5,490.1	5,444.1	5,365.1	11.0	18.4	-80.06	-626.8	-890.9	1,001.3	975.4	25.85	38.737		
5,600.0	5,589.9	5,543.2	5,462.6	11.3	18.8	-79.67	-628.3	-908.8	1,012.7	986.4	26.28	38.536		
5,700.0	5,689.7	5,642.4	5,560.1	11.5	19.1	-79.29	-629.8	-926.6	1,024.2	997.5	26.71	38.346		
5,800.0	5,789.5	5,741.5	5,657.6	11.7	19.5	-78.91	-631.3	-944.5	1,035.7	1,008.6	27.14	38.166		
5,900.0	5,889.3	5,840.6	5,755.1	11.9	19.9	-78.55	-632.7	-962.3	1,047.3	1,019.7	27.56	37.994		
6,000.0	5,989.1	5,939.7	5,852.5	12.1	20.2	-78.20	-634.2	-980.2	1,058.9	1,030.9	27.99	37.831		
6,100.0	6,088.9	6,038.8	5,950.0	12.3	20.6	-77.85	-635.7	-998.0	1,070.6	1,042.1	28.41	37.676		
6,200.0	6,188.7	6,137.9	6,047.5	12.5	21.0	-77.51	-637.2	-1,015.9	1,082.2	1,053.4	28.84	37.529		
6,300.0	6,288.5	6,237.0	6,145.0	12.7	21.3	-77.17	-638.7	-1,033.7	1,094.0	1,064.7	29.26	37.388		
6,400.0	6,388.3	6,336.1	6,242.4	12.9	21.7	-76.85	-640.2	-1,051.6	1,105.7	1,076.1	29.68	37.254		
6,500.0	6,488.1	6,435.2	6,339.9	13.1	22.0	-76.53	-641.6	-1,069.4	1,117.5	1,087.4	30.10	37.127		
6,600.0	6,587.9	7,926.7	7,231.0	13.3	28.9	-30.32	184.9	-1,232.6	1,104.9	1,073.4	31.54	35.034		
6,700.0	6,687.7	7,929.7	7,231.0	13.5	29.0	-30.12	187.9	-1,232.6	1,045.2	1,013.5	31.70	32.968		
6,800.0	6,787.5	7,932.8	7,231.0	13.7	29.0	-29.91	191.0	-1,232.6	992.0	960.2	31.87	31.128		
6,900.0	6,887.3	7,932.0	7,231.0	13.9	29.0	58.12	190.2	-1,232.6	946.4	915.3	31.08	30.454		
7,000.0	6,985.5	7,914.9	7,231.0	14.0	28.8	81.76	173.1	-1,232.6	909.7	879.5	30.18	30.140		
7,100.0	7,079.2	7,880.9	7,231.0	14.1	28.6	87.11	139.1	-1,232.6	883.2	853.5	29.73	29.706		
7,200.0	7,165.6	7,831.1	7,231.0	14.2	28.1	87.91	89.3	-1,232.6	866.8	837.2	29.56	29.321		
7,300.0	7,242.1	7,767.1	7,231.0	14.3	27.7	86.49	25.3	-1,232.6	859.0	829.5	29.47	29.150 SF		
7,388.3	7,299.4	7,700.2	7,231.0	14.5	27.2	84.33	-41.6	-1,232.6	857.3	828.0	29.29	29.272		
7,400.0	7,306.2	7,690.7	7,231.0	14.6	27.1	84.01	-51.1	-1,232.6	857.3	828.0	29.24	29.315		
7,500.0	7,356.2	7,601.1	7,227.1	15.0	26.5	81.03	-140.5	-1,231.9	858.7	829.9	28.84	29.779		
7,600.0	7,390.4	7,515.5	7,211.1	15.5	26.1	78.03	-224.5	-1,229.0	861.3	832.9	28.48	30.247		
7,700.0	7,407.8	7,435.4	7,185.1	16.3	25.6	75.19	-300.0	-1,224.2	864.7	836.4	28.32	30.531		
7,800.0	7,410.0	7,360.4	7,151.6	17.2	25.3	72.67	-366.8	-1,218.1	868.7	840.1	28.56	30.418		
7,900.0	7,410.0	7,300.0	7,118.6	18.2	25.0	70.44	-417.0	-1,212.0	877.0	847.9	29.12	30.113		
8,000.0	7,410.0	7,238.9	7,080.1	19.3	24.8	67.83	-463.8	-1,205.0	893.2	863.5	29.71	30.064		
8,100.0	7,410.0	7,200.0	7,053.1	20.4	24.7	65.94	-491.4	-1,200.0	918.2	887.8	30.46	30.142		
8,200.0	7,410.0	7,150.0	7,015.8	21.7	24.5	63.37	-524.0	-1,193.2	952.1	921.0	31.07	30.643		
8,300.0	7,410.0	7,116.2	6,989.0	23.0	24.4	61.58	-544.1	-1,188.3	994.4	962.5	31.85	31.222		
8,400.0	7,410.0	7,086.5	6,964.7	24.3	24.3	60.11	-560.4	-1,183.8	1,043.0	1,010.3	32.72	31.883		
8,500.0	7,410.0	7,050.0	6,933.6	25.7	24.2	58.28	-578.6	-1,178.1	1,097.4	1,064.0	33.48	32.777		
8,600.0	7,410.0	7,050.0	6,933.6	27.2	24.2	58.28	-578.6	-1,178.1	1,156.8	1,122.0	34.76	33.283		
8,700.0	7,410.0	7,019.5	6,906.7	28.7	24.1	56.74	-592.3	-1,173.2	1,220.5	1,185.0	35.58	34.303		

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 2D-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 2D-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			Offset Wellbore Centre		Distance		Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-553.7	0.0	553.7					
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-553.7	0.0	553.7	553.4	0.30	1,823.277		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-553.7	0.0	553.7	553.1	0.65	848.263		
300.0	300.0	300.0	300.0	0.5	0.5	-180.00	-553.7	0.0	553.7	552.7	1.00	552.701		
400.0	400.0	400.0	400.0	0.7	0.7	-180.00	-553.7	0.0	553.7	552.4	1.35	409.884		
500.0	500.0	497.7	497.7	0.8	0.8	-179.83	-553.9	-1.7	553.9	552.2	1.70	326.559		
600.0	600.0	595.2	595.1	1.0	1.0	-118.40	-554.5	-6.6	555.4	553.3	2.06	269.984		
700.0	699.8	692.6	692.0	1.2	1.2	-117.96	-555.5	-14.8	559.0	556.5	2.44	228.639		
800.0	799.6	790.5	789.4	1.4	1.5	-117.37	-556.9	-26.2	563.6	560.7	2.86	196.874		
900.0	899.4	890.2	888.3	1.6	1.7	-116.70	-558.4	-38.4	568.4	565.1	3.30	172.192		
1,000.0	999.2	989.9	987.2	1.8	2.0	-116.05	-559.9	-50.7	573.2	569.5	3.75	152.935		
1,100.0	1,099.0	1,089.6	1,086.1	2.0	2.2	-115.41	-561.3	-62.9	578.2	574.0	4.20	137.595		
1,200.0	1,198.8	1,189.2	1,185.0	2.2	2.5	-114.77	-562.8	-75.1	583.2	578.5	4.66	125.145		
1,300.0	1,298.6	1,288.9	1,283.9	2.4	2.8	-114.15	-564.3	-87.4	588.3	583.2	5.12	114.870		
1,400.0	1,398.4	1,388.6	1,382.8	2.6	3.0	-113.54	-565.8	-99.6	593.4	587.8	5.58	106.265		
1,500.0	1,498.2	1,488.2	1,481.7	2.8	3.3	-112.94	-567.3	-111.9	598.6	592.6	6.05	98.965		
1,600.0	1,598.0	1,587.9	1,580.6	3.0	3.6	-112.35	-568.8	-124.1	603.9	597.4	6.51	92.702		
1,700.0	1,697.8	1,687.6	1,679.5	3.2	3.9	-111.77	-570.3	-136.4	609.3	602.3	6.98	87.276		
1,800.0	1,797.6	1,787.2	1,778.4	3.4	4.1	-111.20	-571.8	-148.6	614.7	607.2	7.45	82.533		
1,900.0	1,897.4	1,886.9	1,877.3	3.6	4.4	-110.64	-573.2	-160.8	620.1	612.2	7.91	78.355		
2,000.0	1,997.2	1,986.6	1,976.2	3.8	4.7	-110.09	-574.7	-173.1	625.6	617.3	8.38	74.650		
2,100.0	2,097.0	2,086.2	2,075.1	4.0	5.0	-109.55	-576.2	-185.3	631.2	622.4	8.85	71.342		
2,200.0	2,196.8	2,185.9	2,174.0	4.2	5.2	-109.02	-577.7	-197.6	636.9	627.5	9.31	68.374		
2,300.0	2,296.6	2,285.6	2,272.9	4.4	5.5	-108.50	-579.2	-209.8	642.5	632.8	9.78	65.697		
2,400.0	2,396.4	2,385.2	2,371.8	4.6	5.8	-107.98	-580.7	-222.0	648.3	638.0	10.25	63.271		
2,500.0	2,496.2	2,484.9	2,470.7	4.9	6.1	-107.48	-582.2	-234.3	654.1	643.4	10.71	61.063		
2,600.0	2,596.0	2,584.6	2,569.6	5.1	6.3	-106.98	-583.7	-246.5	659.9	648.7	11.18	59.046		
2,700.0	2,695.8	2,684.2	2,668.5	5.3	6.6	-106.50	-585.1	-258.8	665.8	654.2	11.64	57.197		
2,800.0	2,795.6	2,783.9	2,767.4	5.5	6.9	-106.02	-586.6	-271.0	671.7	659.6	12.10	55.497		
2,900.0	2,895.4	2,883.6	2,866.3	5.7	7.2	-105.55	-588.1	-283.3	677.7	665.2	12.57	53.928		
3,000.0	2,995.2	2,983.2	2,965.2	5.9	7.4	-105.09	-589.6	-295.5	683.8	670.7	13.03	52.477		
3,100.0	3,095.0	3,082.9	3,064.1	6.1	7.7	-104.64	-591.1	-307.7	689.8	676.3	13.49	51.131		
3,200.0	3,194.8	3,182.6	3,163.0	6.3	8.0	-104.19	-592.6	-320.0	695.9	682.0	13.95	49.880		
3,300.0	3,294.6	3,282.2	3,261.9	6.5	8.3	-103.76	-594.1	-332.2	702.1	687.7	14.41	48.714		
3,400.0	3,394.4	3,381.9	3,360.8	6.7	8.5	-103.33	-595.6	-344.5	708.3	693.4	14.87	47.625		
3,500.0	3,494.2	3,481.6	3,459.7	6.9	8.8	-102.90	-597.0	-356.7	714.5	699.2	15.33	46.607		
3,600.0	3,594.0	3,581.3	3,558.6	7.1	9.1	-102.49	-598.5	-369.0	720.8	705.0	15.79	45.652		
3,700.0	3,693.8	3,680.9	3,657.5	7.3	9.4	-102.08	-600.0	-381.2	727.1	710.8	16.25	44.755		
3,800.0	3,793.6	3,780.6	3,756.4	7.5	9.7	-101.68	-601.5	-393.4	733.4	716.7	16.70	43.912		
3,900.0	3,893.4	3,880.3	3,855.3	7.7	9.9	-101.29	-603.0	-405.7	739.8	722.7	17.16	43.117		
4,000.0	3,993.2	3,979.9	3,954.2	7.9	10.2	-100.90	-604.5	-417.9	746.2	728.6	17.61	42.368		
4,100.0	4,093.0	4,079.6	4,053.1	8.2	10.5	-100.52	-606.0	-430.2	752.7	734.6	18.07	41.659		
4,200.0	4,192.8	4,179.3	4,152.0	8.4	10.8	-100.15	-607.5	-442.4	759.2	740.6	18.52	40.989		
4,300.0	4,292.6	4,278.9	4,250.9	8.6	11.0	-99.78	-608.9	-454.7	765.7	746.7	18.97	40.355		
4,400.0	4,392.4	4,378.6	4,349.8	8.8	11.3	-99.42	-610.4	-466.9	772.2	752.8	19.43	39.753		
4,500.0	4,492.2	4,478.3	4,448.7	9.0	11.6	-99.06	-611.9	-479.1	778.8	758.9	19.88	39.181		
4,600.0	4,592.0	4,577.9	4,547.6	9.2	11.9	-98.71	-613.4	-491.4	785.4	765.0	20.33	38.638		
4,700.0	4,691.8	4,677.6	4,646.6	9.4	12.2	-98.37	-614.9	-503.6	792.0	771.2	20.78	38.120		
4,800.0	4,791.6	4,777.3	4,745.5	9.6	12.4	-98.03	-616.4	-515.9	798.7	777.4	21.23	37.628		
4,900.0	4,891.4	4,876.9	4,844.4	9.8	12.7	-97.70	-617.9	-528.1	805.3	783.7	21.67	37.158		
5,000.0	4,991.2	4,976.6	4,943.3	10.0	13.0	-97.37	-619.3	-540.3	812.1	789.9	22.12	36.710		
5,100.0	5,090.9	5,076.3	5,042.2	10.2	13.3	-97.05	-620.8	-552.6	818.8	796.2	22.57	36.282		

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference													Warning		
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			
5,200.0	5,190.7	5,175.9	5,141.1	10.4	13.5	-96.73	-622.3	-564.8	825.6	802.5	23.01	35.872			
5,300.0	5,290.5	5,275.6	5,240.0	10.6	13.8	-96.42	-623.8	-577.1	832.3	808.9	23.46	35.481			
5,400.0	5,390.3	5,375.3	5,338.9	10.8	14.1	-96.12	-625.3	-589.3	839.2	815.3	23.90	35.106			
5,500.0	5,490.1	5,474.9	5,437.8	11.0	14.4	-95.81	-626.8	-601.6	846.0	821.6	24.35	34.746			
5,600.0	5,589.9	5,574.6	5,536.7	11.3	14.6	-95.52	-628.3	-613.8	852.9	828.1	24.79	34.402			
5,700.0	5,689.7	5,674.3	5,635.6	11.5	14.9	-95.23	-629.8	-626.0	859.7	834.5	25.23	34.071			
5,800.0	5,789.5	5,774.0	5,734.5	11.7	15.2	-94.94	-631.2	-638.3	866.6	841.0	25.68	33.753			
5,900.0	5,889.3	5,873.6	5,833.4	11.9	15.5	-94.66	-632.7	-650.5	873.6	847.4	26.12	33.448			
6,000.0	5,989.1	5,973.3	5,932.3	12.1	15.8	-94.38	-634.2	-662.8	880.5	853.9	26.56	33.154			
6,100.0	6,088.9	6,073.0	6,031.2	12.3	16.0	-94.11	-635.7	-675.0	887.5	860.5	27.00	32.872			
6,200.0	6,188.7	6,172.6	6,130.1	12.5	16.3	-93.84	-637.2	-687.3	894.5	867.0	27.44	32.600			
6,300.0	6,288.5	6,272.3	6,229.0	12.7	16.6	-93.57	-638.7	-699.5	901.5	873.6	27.88	32.338			
6,400.0	6,388.3	6,372.0	6,327.9	12.9	16.9	-93.31	-640.2	-711.7	908.5	880.2	28.31	32.085			
6,500.0	6,488.1	6,471.6	6,426.8	13.1	17.1	-93.05	-641.7	-724.0	915.5	886.8	28.75	31.842			
6,600.0	6,587.9	7,901.2	7,269.0	13.3	24.1	-32.14	180.5	-835.5	845.8	814.1	31.71	26.675			
6,700.0	6,687.7	7,904.4	7,269.0	13.5	24.1	-31.76	183.6	-835.5	764.1	732.2	31.86	23.986			
6,800.0	6,787.5	7,907.5	7,269.0	13.7	24.2	-31.37	186.7	-835.6	687.2	655.2	32.00	21.474			
6,900.0	6,887.3	7,906.7	7,269.0	13.9	24.2	59.68	186.0	-835.6	617.0	586.1	30.85	19.997			
7,000.0	6,985.5	7,889.6	7,269.0	14.0	24.0	86.05	168.9	-835.4	556.4	526.8	29.66	18.760			
7,100.0	7,079.2	7,855.7	7,269.0	14.1	23.6	92.24	135.0	-835.1	509.3	480.1	29.16	17.464			
7,200.0	7,165.6	7,806.0	7,269.0	14.2	23.1	92.33	85.3	-834.7	477.8	448.7	29.11	16.414			
7,300.0	7,242.1	7,742.0	7,269.0	14.3	22.5	89.04	21.3	-834.1	461.3	432.0	29.23	15.780			
7,400.0	7,306.2	7,665.7	7,269.0	14.6	21.9	84.01	-55.1	-833.5	456.4	427.2	29.16	15.653 SF			
7,410.5	7,312.2	7,657.0	7,269.0	14.6	21.8	83.45	-63.7	-833.4	456.3	427.2	29.14	15.663 CC, ES			
7,500.0	7,356.2	7,583.1	7,265.4	15.0	21.2	78.60	-137.5	-832.3	458.4	429.7	28.77	15.935			
7,600.0	7,390.4	7,505.2	7,251.6	15.5	20.6	73.28	-214.0	-829.9	464.9	436.7	28.24	16.463			
7,700.0	7,407.8	7,431.2	7,229.0	16.3	20.2	68.24	-284.4	-826.5	474.6	446.8	27.77	17.091			
7,800.0	7,410.0	7,360.9	7,199.4	17.2	19.8	64.04	-348.0	-822.3	486.8	459.1	27.65	17.604			
7,900.0	7,410.0	7,300.0	7,167.7	18.2	19.5	60.37	-399.7	-817.9	506.5	478.7	27.78	18.231			
8,000.0	7,410.0	7,250.0	7,137.7	19.3	19.3	56.91	-439.5	-813.8	537.1	509.2	27.97	19.202			
8,100.0	7,410.0	7,200.0	7,104.3	20.4	19.1	53.20	-476.5	-809.4	578.7	550.6	28.05	20.629			
8,200.0	7,410.0	7,150.0	7,067.9	21.7	18.9	49.30	-510.4	-804.6	630.2	602.3	27.99	22.519			
8,300.0	7,410.0	7,121.4	7,045.8	23.0	18.9	47.07	-528.2	-801.7	690.1	661.8	28.33	24.363			
8,400.0	7,410.0	7,100.0	7,028.7	24.3	18.8	45.67	-540.9	-799.4	756.2	727.3	28.90	26.164			
8,500.0	7,410.0	7,064.9	6,999.7	25.7	18.7	43.42	-560.3	-795.7	827.0	797.8	29.16	28.365			
8,600.0	7,410.0	7,050.0	6,987.0	27.2	18.7	42.48	-567.9	-794.0	902.0	872.2	29.83	30.236			
8,700.0	7,410.0	7,021.8	6,962.5	28.7	18.6	40.73	-581.5	-790.9	980.2	950.1	30.17	32.487			
8,800.0	7,410.0	7,000.0	6,943.1	30.2	18.5	39.41	-591.2	-788.4	1,061.4	1,030.8	30.62	34.659			
8,900.0	7,410.0	7,000.0	6,943.1	31.7	18.5	39.41	-591.2	-788.4	1,145.0	1,113.4	31.61	36.218			
9,000.0	7,410.0	6,974.1	6,919.6	33.3	18.5	37.89	-601.7	-785.4	1,230.3	1,198.4	31.91	38.552			

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 2D-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 2D-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 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	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	496.5	496.5	0.8	0.8	179.30	-554.0	6.8	554.1	552.4	1.69	327.073		
600.0	600.0	592.9	592.7	1.0	1.0	-119.28	-555.0	2.0	555.9	553.9	2.05	270.677		
700.0	699.8	692.1	691.7	1.2	1.2	-118.96	-556.4	-5.0	559.9	557.4	2.43	230.332		
800.0	799.6	792.0	791.3	1.4	1.4	-118.80	-557.9	-12.2	564.4	561.6	2.82	200.157		
900.0	899.4	891.9	890.9	1.6	1.6	-118.64	-559.4	-19.4	568.9	565.7	3.22	176.953		
1,000.0	999.2	991.7	990.5	1.8	1.8	-118.48	-560.8	-26.5	573.5	569.9	3.61	158.645		
1,100.0	1,099.0	1,091.6	1,090.2	2.0	2.1	-118.32	-562.3	-33.7	578.1	574.0	4.02	143.875		
1,200.0	1,198.8	1,191.5	1,189.8	2.2	2.3	-118.17	-563.8	-40.9	582.6	578.2	4.42	131.732		
1,300.0	1,298.6	1,291.4	1,289.4	2.4	2.5	-118.02	-565.2	-48.0	587.2	582.3	4.83	121.585		
1,400.0	1,398.4	1,391.3	1,389.0	2.6	2.7	-117.87	-566.7	-55.2	591.7	586.5	5.24	112.987		
1,500.0	1,498.2	1,491.2	1,488.6	2.8	2.9	-117.72	-568.2	-62.4	596.3	590.7	5.65	105.614		
1,600.0	1,598.0	1,591.1	1,588.2	3.0	3.1	-117.58	-569.6	-69.5	600.9	594.8	6.06	99.224		
1,700.0	1,697.8	1,690.9	1,687.8	3.2	3.3	-117.43	-571.1	-76.7	605.5	599.0	6.47	93.634		
1,800.0	1,797.6	1,790.8	1,787.5	3.4	3.5	-117.29	-572.6	-83.8	610.1	603.2	6.88	88.706		
1,900.0	1,897.4	1,890.7	1,887.1	3.6	3.8	-117.15	-574.0	-91.0	614.6	607.4	7.29	84.328		
2,000.0	1,997.2	1,990.6	1,986.7	3.8	4.0	-117.02	-575.5	-98.2	619.2	611.5	7.70	80.415		
2,100.0	2,097.0	2,090.5	2,086.3	4.0	4.2	-116.88	-576.9	-105.3	623.8	615.7	8.11	76.896		
2,200.0	2,196.8	2,190.4	2,185.9	4.2	4.4	-116.75	-578.4	-112.5	628.4	619.9	8.52	73.715		
2,300.0	2,296.6	2,290.2	2,285.5	4.4	4.6	-116.62	-579.9	-119.7	633.0	624.1	8.94	70.826		
2,400.0	2,396.4	2,390.1	2,385.2	4.6	4.8	-116.49	-581.3	-126.8	637.6	628.3	9.35	68.191		
2,500.0	2,496.2	2,490.0	2,484.8	4.9	5.1	-116.36	-582.8	-134.0	642.2	632.5	9.76	65.778		
2,600.0	2,596.0	2,589.9	2,584.4	5.1	5.3	-116.24	-584.3	-141.2	646.8	636.7	10.18	63.560		
2,700.0	2,695.8	2,689.8	2,684.0	5.3	5.5	-116.12	-585.7	-148.3	651.5	640.9	10.59	61.515		
2,800.0	2,795.6	2,789.7	2,783.6	5.5	5.7	-116.00	-587.2	-155.5	656.1	645.1	11.00	59.623		
2,900.0	2,895.4	2,889.5	2,883.2	5.7	5.9	-115.88	-588.7	-162.7	660.7	649.3	11.42	57.867		
3,000.0	2,995.2	2,989.4	2,982.9	5.9	6.1	-115.76	-590.1	-169.8	665.3	653.5	11.83	56.234		
3,100.0	3,095.0	3,089.3	3,082.5	6.1	6.3	-115.64	-591.6	-177.0	669.9	657.7	12.24	54.711		
3,200.0	3,194.8	3,189.2	3,182.1	6.3	6.6	-115.53	-593.0	-184.1	674.6	661.9	12.66	53.288		
3,300.0	3,294.6	3,289.1	3,281.7	6.5	6.8	-115.41	-594.5	-191.3	679.2	666.1	13.07	51.955		
3,400.0	3,394.4	3,389.0	3,381.3	6.7	7.0	-115.30	-596.0	-198.5	683.8	670.3	13.49	50.703		
3,500.0	3,494.2	3,488.8	3,480.9	6.9	7.2	-115.19	-597.4	-205.6	688.5	674.6	13.90	49.526		
3,600.0	3,594.0	3,588.7	3,580.5	7.1	7.4	-115.08	-598.9	-212.8	693.1	678.8	14.31	48.417		
3,700.0	3,693.8	3,688.6	3,680.2	7.3	7.6	-114.97	-600.4	-220.0	697.7	683.0	14.73	47.370		
3,800.0	3,793.6	3,788.5	3,779.8	7.5	7.9	-114.87	-601.8	-227.1	702.4	687.2	15.14	46.381		
3,900.0	3,893.4	3,888.4	3,879.4	7.7	8.1	-114.76	-603.3	-234.3	707.0	691.5	15.56	45.445		
4,000.0	3,993.2	3,988.3	3,979.0	7.9	8.3	-114.66	-604.8	-241.5	711.7	695.7	15.97	44.557		
4,100.0	4,093.0	4,088.1	4,078.6	8.2	8.5	-114.56	-606.2	-248.6	716.3	699.9	16.39	43.714		
4,200.0	4,192.8	4,188.0	4,178.2	8.4	8.7	-114.46	-607.7	-255.8	721.0	704.2	16.80	42.912		
4,300.0	4,292.6	4,287.9	4,277.9	8.6	8.9	-114.36	-609.1	-263.0	725.6	708.4	17.22	42.150		
4,400.0	4,392.4	4,387.8	4,377.5	8.8	9.1	-114.26	-610.6	-270.1	730.3	712.6	17.63	41.423		
4,500.0	4,492.2	4,487.7	4,477.1	9.0	9.4	-114.16	-612.1	-277.3	734.9	716.9	18.04	40.729		
4,600.0	4,592.0	4,587.6	4,576.7	9.2	9.6	-114.07	-613.5	-284.4	739.6	721.1	18.46	40.067		
4,700.0	4,691.8	4,687.5	4,676.3	9.4	9.8	-113.97	-615.0	-291.6	744.2	725.4	18.87	39.434		
4,800.0	4,791.6	4,787.3	4,775.9	9.6	10.0	-113.88	-616.5	-298.8	748.9	729.6	19.29	38.829		
4,900.0	4,891.4	4,887.2	4,875.6	9.8	10.2	-113.79	-617.9	-305.9	753.6	733.9	19.70	38.248		
5,000.0	4,991.2	4,987.1	4,975.2	10.0	10.4	-113.70	-619.4	-313.1	758.2	738.1	20.12	37.692		
5,100.0	5,090.9	5,087.0	5,074.8	10.2	10.7	-113.61	-620.9	-320.3	762.9	742.4	20.53	37.159		

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 2D-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 2D-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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference													Warning		
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			
5,200.0	5,190.7	5,186.9	5,174.4	10.4	10.9	-113.52	-622.3	-327.4	767.6	746.6	20.95	36.646			
5,300.0	5,290.5	5,286.8	5,274.0	10.6	11.1	-113.43	-623.8	-334.6	772.3	750.9	21.36	36.154			
5,400.0	5,390.3	5,386.6	5,373.6	10.8	11.3	-113.35	-625.2	-341.8	776.9	755.2	21.77	35.680			
5,500.0	5,490.1	5,486.5	5,473.2	11.0	11.5	-113.26	-626.7	-348.9	781.6	759.4	22.19	35.224			
5,600.0	5,589.9	5,586.4	5,572.9	11.3	11.7	-113.18	-628.2	-356.1	786.3	763.7	22.60	34.785			
5,700.0	5,689.7	5,686.3	5,672.5	11.5	12.0	-113.09	-629.6	-363.3	791.0	767.9	23.02	34.362			
5,800.0	5,789.5	5,786.2	5,772.1	11.7	12.2	-113.01	-631.1	-370.4	795.6	772.2	23.43	33.954			
5,900.0	5,889.3	5,886.1	5,871.7	11.9	12.4	-112.93	-632.6	-377.6	800.3	776.5	23.85	33.560			
6,000.0	5,989.1	5,985.9	5,971.3	12.1	12.6	-112.85	-634.0	-384.7	805.0	780.8	24.26	33.180			
6,100.0	6,088.9	6,085.8	6,070.9	12.3	12.8	-112.77	-635.5	-391.9	809.7	785.0	24.68	32.812			
6,200.0	6,188.7	6,185.7	6,170.6	12.5	13.0	-112.69	-637.0	-399.1	814.4	789.3	25.09	32.457			
6,300.0	6,288.5	6,285.6	6,270.2	12.7	13.3	-112.61	-638.4	-406.2	819.1	793.6	25.51	32.113			
6,400.0	6,388.3	6,385.5	6,369.8	12.9	13.5	-112.54	-639.9	-413.4	823.8	797.9	25.92	31.780			
6,500.0	6,488.1	6,485.4	6,469.4	13.1	13.7	-112.46	-641.3	-420.6	828.5	802.1	26.34	31.458			
6,600.0	6,587.9	6,585.2	6,569.0	13.3	13.9	-112.38	-642.8	-427.7	833.2	806.4	26.75	31.146			
6,700.0	6,687.7	6,685.0	6,670.0	13.5	14.2	-112.30	-644.3	-434.8	837.9	810.7	27.16	30.834			
6,800.0	6,787.5	6,784.8	6,769.0	13.7	14.5	-112.22	-645.8	-441.8	842.6	815.0	27.57	30.522			
6,900.0	6,887.3	6,884.6	6,869.0	13.9	14.8	-112.14	-647.3	-448.8	847.3	819.3	27.98	30.210			
7,000.0	6,987.1	6,984.4	6,969.0	14.1	15.1	-112.06	-648.8	-455.8	852.0	823.6	28.39	29.898			
7,100.0	7,086.9	7,084.2	7,069.0	14.3	15.4	-111.98	-650.3	-462.8	856.7	827.9	28.80	29.586			
7,200.0	7,186.7	7,184.0	7,169.0	14.5	15.7	-111.90	-651.8	-469.8	861.4	832.2	29.21	29.274			
7,300.0	7,286.5	7,283.8	7,269.0	14.7	16.0	-111.82	-653.3	-476.8	866.1	836.5	29.62	28.962			
7,400.0	7,386.3	7,383.6	7,369.0	14.9	16.3	-111.74	-654.8	-483.8	870.8	840.8	30.03	28.650			
7,500.0	7,486.1	7,483.4	7,469.0	15.1	16.6	-111.66	-656.3	-490.8	875.5	845.1	30.44	28.338			
7,600.0	7,585.9	7,583.2	7,569.0	15.3	16.9	-111.58	-657.8	-497.8	880.2	849.4	30.85	28.026			
7,700.0	7,685.7	7,683.0	7,669.0	15.5	17.2	-111.50	-659.3	-504.8	884.9	853.7	31.26	27.714			
7,800.0	7,785.5	7,782.8	7,769.0	15.7	17.5	-111.42	-660.8	-511.8	889.6	858.0	31.67	27.402			
7,900.0	7,885.3	7,882.6	7,869.0	15.9	17.8	-111.34	-662.3	-518.8	894.3	862.3	32.08	27.090			
8,000.0	7,985.1	7,982.4	7,969.0	16.1	18.1	-111.26	-663.8	-525.8	899.0	866.6	32.49	26.778			
8,100.0	8,084.9	8,082.2	8,069.0	16.3	18.4	-111.18	-665.3	-532.8	903.7	870.9	32.90	26.466			
8,200.0	8,184.7	8,182.0	8,169.0	16.5	18.7	-111.10	-666.8	-539.8	908.4	875.2	33.31	26.154			
8,300.0	8,284.5	8,281.8	8,269.0	16.7	19.0	-111.02	-668.3	-546.8	913.1	879.5	33.72	25.842			
8,400.0	8,384.3	8,381.6	8,369.0	16.9	19.3	-110.94	-669.8	-553.8	917.8	883.8	34.13	25.530			
8,500.0	8,484.1	8,481.4	8,469.0	17.1	19.6	-110.86	-671.3	-560.8	922.5	888.1	34.54	25.218			
8,600.0	8,583.9	8,581.2	8,569.0	17.3	19.9	-110.78	-672.8	-567.8	927.2	892.4	34.95	24.906			
8,700.0	8,683.7	8,681.0	8,669.0	17.5	20.2	-110.70	-674.3	-574.8	931.9	896.7	35.36	24.594			
8,800.0	8,783.5	8,780.8	8,769.0	17.7	20.5	-110.62	-675.8	-581.8	936.6	901.0	35.77	24.282			
8,900.0	8,883.3	8,880.6	8,869.0	17.9	20.8	-110.54	-677.3	-588.8	941.3	905.3	36.18	23.970			
9,000.0	8,983.1	8,980.4	8,969.0	18.1	21.1	-110.46	-678.8	-595.8	946.0	909.6	36.59	23.658			
9,100.0	9,082.9	9,080.2	9,069.0	18.3	21.4	-110.38	-680.3	-602.8	950.7	913.9	37.00	23.346			
9,200.0	9,182.7	9,180.0	9,169.0	18.5	21.7	-110.30	-681.8	-609.8	955.4	918.2	37.41	23.034			
9,300.0	9,282.5	9,279.8	9,269.0	18.7	22.0	-110.22	-683.3	-616.8	960.1	922.5	37.82	22.722			
9,400.0	9,382.3	9,379.6	9,369.0	18.9	22.3	-110.14	-684.8	-623.8	964.8	926.8	38.23	22.410			
9,500.0	9,482.1	9,479.4	9,469.0	19.1	22.6	-110.06	-686.3	-630.8	969.5	931.1	38.64	22.098			
9,600.0	9,581.9	9,579.2	9,569.0	19.3	22.9	-110.00	-687.8	-637.8	974.2	935.4	39.05	21.786			
9,700.0	9,681.7	9,679.0	9,669.0	19.5	23.2	-109.92	-689.3	-644.8	978.9	939.7	39.46	21.474			
9,800.0	9,781.5	9,778.8	9,769.0	19.7	23.5	-109.84	-690.8	-651.8	983.6	944.0	39.87	21.162			
9,900.0	9,881.3	9,878.6	9,869.0	19.9	23.8	-109.76	-692.3	-658.8	988.3	948.3	40.28	20.850			
10,000.0	9,981.1	9,978.4	9,969.0	20.1	24.1	-109.68	-693.8	-665.8	993.0	952.6	40.69	20.538			
10,100.0	10,080.9	10,078.2	10,069.0	20.3	24.4	-109.60	-695.3	-672.8	997.7	956.9	41.10	20.226			
10,200.0	10,180.7	10,178.0	10,169.0	20.5	24.7	-109.52	-696.8	-679.8	1,002.4	961.2	41.51	19.914			
10,300.0	10,280.5	10,277.8	10,269.0	20.7	25.0	-109.44	-698.3	-686.8	1,007.1	965.5	41.92	19.602			
10,400.0	10,380.3	10,377.6	10,369.0	20.9	25.3	-109.36	-699.8	-693.8	1,011.8	969.8	42.33	19.290			
10,500.0	10,480.1	10,477.4	10,469.0	21.1	25.6	-109.28	-701.3	-700.8	1,016.5	974.1	42.74	18.978			
10,600.0	10,579.9	10,577.2	10,569.0	21.3	25.9	-109.20	-702.8	-707.8	1,021.2	978.4	43.15	18.666			
10,700.0	10,679.7	10,677.0	10,669.0	21.5	26.2	-109.12	-704.3	-714.8	1,025.9	982.7	43.56	18.354			
10,800.0	10,779.5	10,776.8	10,769.0	21.7	26.5	-109.04	-705.8	-721.8	1,030.6	987.0	43.97	18.042			
10,900.0	10,879.3	10,876.6	10,869.0	21.9	26.8	-108.96	-707.3	-728.8	1,035.3	991.3	44.38	17.730			
11,000.0	10,979.1	10,976.4	10,969.0	22.1	27.1	-108.88	-708.8	-735.8	1,040.0	995.6	44.79	17.418			
11,100.0	11,078.9	11,076.2	11,069.0	22.3	27.4	-108.80	-710.3	-742.8	1,044.7	1,000.0	45.20	17.106			
11,200.0	11,178.7	11,176.0	11,169.0	22.5	27.7	-108.72	-711.8	-749.8	1,049.4	1,004.3	45.61	16.794			
11,300.0	11,278.5	11,275.8	11,269.0	22.7	28.0	-108.64	-713.3	-756.8	1,054.1	1,008.6	46.02	16.482			
11,400.0	11,378.3	11,375.6	11,369.0	22.9	28.3	-108.56	-714.8	-763.8	1,058.8	1,012.9	46.43	16.170			
11,500.0	11,478.1	11,475.4	11,469.0	23.1	28.6	-108.48	-716.3	-770.8	1,063.5	1,017.3	46.84	15.858			
11,600.0	11,577.9	11,575.2	11,569.0	23.3	28.9	-108.40	-717.8	-777.8	1,068.2	1,021.6	47.25	15.546			
11,700.0	11,677.7	11,675.0	11,669.0	23.5	29.2	-108.32	-719.3	-784.8	1,072.9	1,025.9	47.66	15.234			
11,800.0	11,777.5	11,774.8	11,769.0	23.7	29.5	-108.24	-720.8	-791.8	1,077.6	1,030.2	48.07	14.922			
11,900.0	11,877.3	11,874.6	11,869.0	23.9	29.8	-108.16	-722.3	-798.8	1,082.3	1,034.5	48.48	14.610			
12,000.0	11,977.1	11,974.4	11,969.0	24.1	30.1	-108.08	-723.8	-805.8	1,087.0	1,038.8	48.89	14.298			
12,100.0	12,076.9	12,074.2	12,069.0	24.3	30.4	-108.00	-725.3	-812.8	1,091.7	1,043.1	49.30	13.986			
12,200.0	12,176.7	12,174.0	12,169.0	24.5	30.7	-107.92	-726.8	-819.8	1,096.4	1,047.4	49.71	13.674			
12,300.0	12,276.5	12,273.8	12,269.0	24.7	31.0	-107.84	-728.3	-826.8	1,101.1	1,051.7	50.12	13.362			
12,400.0	12,376.3	12,373.6	12,369.0	24.9	31.3	-107.76	-729.8	-833.8	1,105.8	1,056.0	50.53	13.050			
12,500.0	12,476.1	12,473.4	12,469.0	25.1	31.6	-107.68	-731.3	-840.8	1,110.5	1,060.3	50.94	12.738			
12,600.0	12,575.9	12													

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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 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	177.98	-553.7	19.6	554.1					
100.0	100.0	100.0	100.0	0.2	0.2	177.98	-553.7	19.6	554.1	553.7	0.30	1,824.416		
200.0	200.0	200.0	200.0	0.3	0.3	177.98	-553.7	19.6	554.1	553.4	0.65	848.793		
300.0	300.0	300.0	300.0	0.5	0.5	177.98	-553.7	19.6	554.1	553.1	1.00	553.046		
400.0	400.0	400.0	400.0	0.7	0.7	177.98	-553.7	19.6	554.1	552.7	1.35	410.140		
500.0	500.0	500.0	500.0	0.8	0.8	177.98	-553.7	19.6	554.1	552.4	1.70	325.923		
600.0	600.0	600.0	600.0	1.0	1.0	-121.12	-553.7	19.6	555.0	552.9	2.05	270.696		
700.0	699.8	699.8	699.8	1.2	1.2	-121.54	-553.7	19.6	557.6	555.2	2.41	231.777		
800.0	799.6	799.6	799.6	1.4	1.4	-122.09	-553.7	19.6	561.0	558.2	2.77	202.785		
900.0	899.4	899.4	899.4	1.6	1.5	-122.64	-553.7	19.6	564.4	561.3	3.13	180.347		
1,000.0	999.2	999.2	999.2	1.8	1.7	-123.18	-553.7	19.6	567.9	564.4	3.49	162.517		
1,100.0	1,099.0	1,099.0	1,099.0	2.0	1.9	-123.71	-553.7	19.6	571.4	567.5	3.86	148.033		
1,200.0	1,198.8	1,198.8	1,198.8	2.2	2.1	-124.23	-553.7	19.6	574.9	570.7	4.23	136.049		
1,300.0	1,298.6	1,298.6	1,298.6	2.4	2.2	-124.75	-553.7	19.6	578.5	573.9	4.59	125.979		
1,400.0	1,398.4	1,398.4	1,398.4	2.6	2.4	-125.27	-553.7	19.6	582.2	577.2	4.96	117.405		
1,500.0	1,498.2	1,498.2	1,498.2	2.8	2.6	-125.77	-553.7	19.6	585.9	580.6	5.33	110.019		
1,600.0	1,598.0	1,598.0	1,598.0	3.0	2.8	-126.27	-553.7	19.6	589.6	583.9	5.69	103.595		
1,700.0	1,697.8	1,697.8	1,697.8	3.2	2.9	-126.77	-553.7	19.6	593.4	587.3	6.06	97.959		
1,800.0	1,797.6	1,797.6	1,797.6	3.4	3.1	-127.26	-553.7	19.6	597.2	590.8	6.42	92.975		
1,900.0	1,897.4	1,897.4	1,897.4	3.6	3.3	-127.74	-553.7	19.6	601.1	594.3	6.79	88.538		
2,000.0	1,997.2	1,997.2	1,997.2	3.8	3.5	-128.21	-553.7	19.6	605.0	597.9	7.15	84.565		
2,100.0	2,097.0	2,097.0	2,097.0	4.0	3.6	-128.68	-553.7	19.6	609.0	601.5	7.52	80.986		
2,200.0	2,196.8	2,196.8	2,196.8	4.2	3.8	-129.14	-553.7	19.6	613.0	605.1	7.88	77.747		
2,300.0	2,296.6	2,296.6	2,296.6	4.4	4.0	-129.60	-553.7	19.6	617.0	608.8	8.25	74.803		
2,400.0	2,396.4	2,396.4	2,396.4	4.6	4.2	-130.05	-553.7	19.6	621.1	612.5	8.61	72.115		
2,500.0	2,496.2	2,496.2	2,496.2	4.9	4.3	-130.50	-553.7	19.6	625.2	616.2	8.98	69.652		
2,600.0	2,596.0	2,596.0	2,596.0	5.1	4.5	-130.94	-553.7	19.6	629.4	620.0	9.34	67.388		
2,700.0	2,695.8	2,695.8	2,695.8	5.3	4.7	-131.37	-553.7	19.6	633.5	623.8	9.70	65.300		
2,800.0	2,795.6	2,795.6	2,795.6	5.5	4.9	-131.80	-553.7	19.6	637.8	627.7	10.06	63.368		
2,900.0	2,895.4	2,895.4	2,895.4	5.7	5.0	-132.22	-553.7	19.6	642.0	631.6	10.43	61.576		
3,000.0	2,995.2	2,995.2	2,995.2	5.9	5.2	-132.64	-553.7	19.6	646.3	635.5	10.79	59.909		
3,100.0	3,095.0	3,095.0	3,095.0	6.1	5.4	-133.05	-553.7	19.6	650.6	639.5	11.15	58.355		
3,200.0	3,194.8	3,194.8	3,194.8	6.3	5.6	-133.45	-553.7	19.6	655.0	643.5	11.51	56.904		
3,300.0	3,294.6	3,294.6	3,294.6	6.5	5.7	-133.86	-553.7	19.6	659.4	647.5	11.87	55.545		
3,400.0	3,394.4	3,394.4	3,394.4	6.7	5.9	-134.25	-553.7	19.6	663.8	651.6	12.23	54.271		
3,500.0	3,494.2	3,494.2	3,494.2	6.9	6.1	-134.64	-553.7	19.6	668.3	655.7	12.59	53.073		
3,600.0	3,594.0	3,594.0	3,594.0	7.1	6.2	-135.02	-553.7	19.6	672.7	659.8	12.95	51.946		
3,700.0	3,693.8	3,693.8	3,693.8	7.3	6.4	-135.40	-553.7	19.6	677.3	664.0	13.31	50.883		
3,800.0	3,793.6	3,793.6	3,793.6	7.5	6.6	-135.78	-553.7	19.6	681.8	668.1	13.67	49.880		
3,900.0	3,893.4	3,893.4	3,893.4	7.7	6.8	-136.15	-553.7	19.6	686.4	672.3	14.03	48.931		
4,000.0	3,993.2	3,993.2	3,993.2	7.9	6.9	-136.51	-553.7	19.6	691.0	676.6	14.39	48.032		
4,100.0	4,093.0	4,093.0	4,093.0	8.2	7.1	-136.87	-553.7	19.6	695.6	680.9	14.74	47.180		
4,200.0	4,192.8	4,192.8	4,192.8	8.4	7.3	-137.23	-553.7	19.6	700.3	685.2	15.10	46.370		
4,300.0	4,292.6	4,292.6	4,292.6	8.6	7.5	-137.58	-553.7	19.6	704.9	689.5	15.46	45.601		
4,400.0	4,392.4	4,392.4	4,392.4	8.8	7.6	-137.92	-553.7	19.6	709.7	693.8	15.82	44.870		
4,500.0	4,492.2	4,492.2	4,492.2	9.0	7.8	-138.27	-553.7	19.6	714.4	698.2	16.17	44.172		
4,600.0	4,592.0	4,592.0	4,592.0	9.2	8.0	-138.60	-553.7	19.6	719.1	702.6	16.53	43.508		
4,700.0	4,691.8	4,691.8	4,691.8	9.4	8.2	-138.93	-553.7	19.6	723.9	707.0	16.89	42.873		
4,800.0	4,791.6	4,791.6	4,791.6	9.6	8.3	-139.26	-553.7	19.6	728.7	711.5	17.24	42.267		
4,900.0	4,891.4	4,891.4	4,891.4	9.8	8.5	-139.59	-553.7	19.6	733.6	716.0	17.60	41.687		
5,000.0	4,991.2	4,991.2	4,991.2	10.0	8.7	-139.91	-553.7	19.6	738.4	720.5	17.95	41.132		
5,100.0	5,090.9	5,076.4	5,076.4	10.2	8.8	-140.12	-554.7	19.2	744.2	725.9	18.28	40.700		

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 2D-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 2D-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													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		
5,200.0	5,190.7	5,160.1	5,160.0	10.4	9.0	-140.20	-557.9	17.9	752.1	733.5	18.62	40.397			
5,300.0	5,290.5	5,252.7	5,252.4	10.6	9.1	-140.17	-563.5	15.7	761.8	742.8	18.97	40.159			
5,400.0	5,390.3	5,352.2	5,351.7	10.8	9.3	-140.13	-569.9	13.2	771.7	752.3	19.33	39.914			
5,500.0	5,490.1	5,451.7	5,450.9	11.0	9.5	-140.09	-576.2	10.7	781.5	761.8	19.70	39.676			
5,600.0	5,589.9	5,551.2	5,550.2	11.3	9.7	-140.04	-582.5	8.2	791.4	771.4	20.06	39.445			
5,700.0	5,689.7	5,650.7	5,649.5	11.5	9.9	-140.00	-588.9	5.7	801.3	780.9	20.43	39.222			
5,800.0	5,789.5	5,750.2	5,748.8	11.7	10.0	-139.96	-595.2	3.2	811.2	790.4	20.80	39.006			
5,900.0	5,889.3	5,849.7	5,848.0	11.9	10.2	-139.93	-601.5	0.6	821.1	799.9	21.16	38.796			
6,000.0	5,989.1	5,949.2	5,947.3	12.1	10.4	-139.89	-607.9	-1.9	831.0	809.5	21.53	38.593			
6,100.0	6,088.9	6,048.7	6,046.6	12.3	10.6	-139.85	-614.2	-4.4	840.9	819.0	21.90	38.395			
6,200.0	6,188.7	6,148.2	6,145.9	12.5	10.8	-139.82	-620.5	-6.9	850.8	828.5	22.27	38.204			
6,300.0	6,288.5	6,247.7	6,245.1	12.7	11.0	-139.78	-626.8	-9.4	860.7	838.0	22.64	38.018			
6,400.0	6,388.3	6,347.7	6,345.0	12.9	11.2	-139.74	-633.1	-11.9	870.6	847.1	23.01	37.831			
6,500.0	6,488.1	6,447.7	6,445.0	13.1	11.4	-139.70	-639.4	-14.4	880.5	856.2	23.38	37.644			
6,600.0	6,587.9	6,547.7	6,545.0	13.3	11.6	-139.66	-645.7	-16.9	890.4	865.3	23.75	37.457			
6,700.0	6,687.7	6,647.7	6,645.0	13.5	11.8	-139.62	-652.0	-19.4	900.3	874.4	24.12	37.270			
6,800.0	6,787.5	6,747.7	6,745.0	13.7	12.0	-139.58	-658.3	-21.9	910.2	883.5	24.49	37.083			
6,900.0	6,887.3	6,847.7	6,845.0	13.9	12.2	-139.54	-664.6	-24.4	920.1	892.6	24.86	36.896			
7,000.0	6,987.1	6,947.7	6,945.0	14.1	12.4	-139.50	-670.9	-26.9	930.0	901.7	25.23	36.709			
7,100.0	7,086.9	7,047.7	7,045.0	14.3	12.6	-139.46	-677.2	-29.4	939.9	910.8	25.60	36.522			
7,200.0	7,186.7	7,147.7	7,145.0	14.5	12.8	-139.42	-683.5	-31.9	949.8	919.9	25.97	36.335			
7,300.0	7,286.5	7,247.7	7,245.0	14.7	13.0	-139.38	-689.8	-34.4	959.7	929.0	26.34	36.148			
7,400.0	7,386.3	7,347.7	7,345.0	14.9	13.2	-139.34	-696.1	-36.9	969.6	938.1	26.71	35.961			
7,500.0	7,486.1	7,447.7	7,445.0	15.1	13.4	-139.30	-702.4	-39.4	979.5	947.2	27.08	35.774			
7,600.0	7,585.9	7,547.7	7,545.0	15.3	13.6	-139.26	-708.7	-41.9	989.4	956.3	27.45	35.587			
7,700.0	7,685.7	7,647.7	7,645.0	15.5	13.8	-139.22	-715.0	-44.4	999.3	965.4	27.82	35.400			
7,800.0	7,785.5	7,747.7	7,745.0	15.7	14.0	-139.18	-721.3	-46.9	1,009.2	974.5	28.19	35.213			
7,900.0	7,885.3	7,847.7	7,845.0	15.9	14.2	-139.14	-727.6	-49.4	1,019.1	983.6	28.56	35.026			
8,000.0	7,985.1	7,947.7	7,945.0	16.1	14.4	-139.10	-733.9	-51.9	1,029.0	992.7	28.93	34.839			
8,100.0	8,084.9	8,047.7	8,045.0	16.3	14.6	-139.06	-740.2	-54.4	1,038.9	1,001.8	29.30	34.652			
8,200.0	8,184.7	8,147.7	8,145.0	16.5	14.8	-139.02	-746.5	-56.9	1,048.8	1,010.9	29.67	34.465			
8,300.0	8,284.5	8,247.7	8,245.0	16.7	15.0	-138.98	-752.8	-59.4	1,058.7	1,020.0	30.04	34.278			
8,400.0	8,384.3	8,347.7	8,345.0	16.9	15.2	-138.94	-759.1	-61.9	1,068.6	1,029.1	30.41	34.091			
8,500.0	8,484.1	8,447.7	8,445.0	17.1	15.4	-138.90	-765.4	-64.4	1,078.5	1,038.2	30.78	33.904			
8,600.0	8,583.9	8,547.7	8,545.0	17.3	15.6	-138.86	-771.7	-66.9	1,088.4	1,047.3	31.15	33.717			
8,700.0	8,683.7	8,647.7	8,645.0	17.5	15.8	-138.82	-778.0	-69.4	1,098.3	1,056.4	31.52	33.530			
8,800.0	8,783.5	8,747.7	8,745.0	17.7	16.0	-138.78	-784.3	-71.9	1,108.2	1,065.5	31.89	33.343			
8,900.0	8,883.3	8,847.7	8,845.0	17.9	16.2	-138.74	-790.6	-74.4	1,118.1	1,074.6	32.26	33.156			
9,000.0	8,983.1	8,947.7	8,945.0	18.1	16.4	-138.70	-796.9	-76.9	1,128.0	1,083.7	32.63	32.969			

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 2D-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 2D-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	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		Factor	
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		
500.0	500.0	500.0	500.0	0.8	0.8	177.11	-553.7	28.0	554.4	552.7	1.70	326.134	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	-121.98	-553.7	28.0	555.3	553.3	2.05	270.887		
700.0	699.8	692.6	692.6	1.2	1.2	-122.50	-554.2	29.4	558.7	556.4	2.39	233.371		
800.0	799.6	788.8	788.7	1.4	1.4	-123.41	-555.7	33.3	564.0	561.2	2.75	204.917		
900.0	899.4	888.2	888.0	1.6	1.5	-124.36	-557.3	37.6	569.5	566.4	3.12	182.507		
1,000.0	999.2	987.6	987.3	1.8	1.7	-125.30	-558.8	41.9	575.2	571.7	3.49	164.751		
1,100.0	1,099.0	1,087.0	1,086.6	2.0	1.9	-126.21	-560.4	46.3	581.0	577.2	3.86	150.387		
1,200.0	1,198.8	1,186.4	1,185.8	2.2	2.1	-127.11	-562.0	50.6	587.0	582.8	4.24	138.560		
1,300.0	1,298.6	1,285.8	1,285.1	2.4	2.3	-127.99	-563.6	54.9	593.1	588.5	4.61	128.671		
1,400.0	1,398.4	1,385.2	1,384.4	2.6	2.5	-128.85	-565.2	59.3	599.4	594.4	4.98	120.295		
1,500.0	1,498.2	1,484.6	1,483.7	2.8	2.7	-129.69	-566.8	63.6	605.8	600.4	5.36	113.119		
1,600.0	1,598.0	1,584.0	1,583.0	3.0	2.9	-130.52	-568.4	67.9	612.3	606.6	5.73	106.909		
1,700.0	1,697.8	1,683.4	1,682.3	3.2	3.0	-131.33	-570.0	72.2	619.0	612.9	6.10	101.488		
1,800.0	1,797.6	1,782.8	1,781.6	3.4	3.2	-132.12	-571.6	76.6	625.7	619.2	6.47	96.720		
1,900.0	1,897.4	1,882.2	1,880.9	3.6	3.4	-132.89	-573.2	80.9	632.6	625.8	6.84	92.496		
2,000.0	1,997.2	1,981.6	1,980.2	3.8	3.6	-133.65	-574.8	85.2	639.6	632.4	7.21	88.732		
2,100.0	2,097.0	2,081.0	2,079.5	4.0	3.8	-134.39	-576.3	89.6	646.7	639.1	7.58	85.358		
2,200.0	2,196.8	2,180.4	2,178.8	4.2	4.0	-135.12	-577.9	93.9	653.9	646.0	7.94	82.320		
2,300.0	2,296.6	2,279.8	2,278.1	4.4	4.2	-135.83	-579.5	98.2	661.2	652.9	8.31	79.571		
2,400.0	2,396.4	2,379.2	2,377.3	4.6	4.4	-136.52	-581.1	102.6	668.6	660.0	8.68	77.073		
2,500.0	2,496.2	2,478.6	2,476.6	4.9	4.6	-137.20	-582.7	106.9	676.2	667.1	9.04	74.794		
2,600.0	2,596.0	2,578.0	2,575.9	5.1	4.7	-137.86	-584.3	111.2	683.8	674.4	9.40	72.709		
2,700.0	2,695.8	2,677.4	2,675.2	5.3	4.9	-138.51	-585.9	115.5	691.5	681.7	9.77	70.794		
2,800.0	2,795.6	2,776.8	2,774.5	5.5	5.1	-139.14	-587.5	119.9	699.2	689.1	10.13	69.031		
2,900.0	2,895.4	2,876.2	2,873.8	5.7	5.3	-139.77	-589.1	124.2	707.1	696.6	10.49	67.402		
3,000.0	2,995.2	2,975.6	2,973.1	5.9	5.5	-140.37	-590.7	128.5	715.0	704.2	10.85	65.894		
3,100.0	3,095.0	3,075.0	3,072.4	6.1	5.7	-140.97	-592.2	132.9	723.1	711.9	11.21	64.494		
3,200.0	3,194.8	3,174.4	3,171.7	6.3	5.9	-141.55	-593.8	137.2	731.2	719.6	11.57	63.191		
3,300.0	3,294.6	3,273.8	3,271.0	6.5	6.1	-142.11	-595.4	141.5	739.3	727.4	11.93	61.977		
3,400.0	3,394.4	3,373.2	3,370.3	6.7	6.3	-142.67	-597.0	145.8	747.6	735.3	12.29	60.842		
3,500.0	3,494.2	3,472.6	3,469.6	6.9	6.5	-143.21	-598.6	150.2	755.9	743.2	12.64	59.781		
3,600.0	3,594.0	3,572.0	3,568.9	7.1	6.7	-143.75	-600.2	154.5	764.3	751.3	13.00	58.785		
3,700.0	3,693.8	3,671.4	3,668.1	7.3	6.8	-144.27	-601.8	158.8	772.7	759.4	13.36	57.850		
3,800.0	3,793.6	3,770.8	3,767.4	7.5	7.0	-144.77	-603.4	163.2	781.2	767.5	13.71	56.970		
3,900.0	3,893.4	3,870.2	3,866.7	7.7	7.2	-145.27	-605.0	167.5	789.8	775.7	14.07	56.141		
4,000.0	3,993.2	3,969.6	3,966.0	7.9	7.4	-145.76	-606.6	171.8	798.4	784.0	14.42	55.359		
4,100.0	4,093.0	4,069.0	4,065.3	8.2	7.6	-146.24	-608.2	176.2	807.1	792.3	14.78	54.620		
4,200.0	4,192.8	4,168.4	4,164.6	8.4	7.8	-146.70	-609.7	180.5	815.8	800.7	15.13	53.920		
4,300.0	4,292.6	4,267.8	4,263.9	8.6	8.0	-147.16	-611.3	184.8	824.6	809.1	15.48	53.258		
4,400.0	4,392.4	4,367.1	4,363.2	8.8	8.2	-147.61	-612.9	189.1	833.4	817.6	15.84	52.630		
4,500.0	4,492.2	4,466.5	4,462.5	9.0	8.4	-148.05	-614.5	193.5	842.3	826.1	16.19	52.034		
4,600.0	4,592.0	4,565.9	4,561.8	9.2	8.6	-148.47	-616.1	197.8	851.3	834.7	16.54	51.467		
4,700.0	4,691.8	4,665.3	4,661.1	9.4	8.8	-148.89	-617.7	202.1	860.3	843.4	16.89	50.927		
4,800.0	4,791.6	4,764.7	4,760.4	9.6	8.9	-149.31	-619.3	206.5	869.3	852.0	17.24	50.413		
4,900.0	4,891.4	4,864.1	4,859.6	9.8	9.1	-149.71	-620.9	210.8	878.3	860.8	17.59	49.923		
5,000.0	4,991.2	4,963.5	4,958.9	10.0	9.3	-150.10	-622.5	215.1	887.5	869.5	17.94	49.456		
5,100.0	5,090.9	5,062.9	5,058.2	10.2	9.5	-150.49	-624.1	219.4	896.6	878.3	18.29	49.009		

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 2D-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 2D-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													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		
5,200.0	5,190.7	5,162.3	5,157.5	10.4	9.7	-150.87	-625.6	223.8	905.8	887.2	18.64	48.582			
5,300.0	5,290.5	5,261.7	5,256.8	10.6	9.9	-151.24	-627.2	228.1	915.0	896.0	18.99	48.174			
5,400.0	5,390.3	5,361.1	5,356.1	10.8	10.1	-151.60	-628.8	232.4	924.3	905.0	19.34	47.783			
5,500.0	5,490.1	5,460.5	5,455.4	11.0	10.3	-151.96	-630.4	236.8	933.6	913.9	19.69	47.408			
5,600.0	5,589.9	5,559.9	5,554.7	11.3	10.5	-152.31	-632.0	241.1	943.0	922.9	20.04	47.049			
5,700.0	5,689.7	5,659.3	5,654.0	11.5	10.7	-152.65	-633.6	245.4	952.3	931.9	20.39	46.704			
5,800.0	5,789.5	5,758.7	5,753.3	11.7	10.9	-152.99	-635.2	249.8	961.7	941.0	20.74	46.372			
5,900.0	5,889.3	5,858.1	5,852.6	11.9	11.0	-153.32	-636.8	254.1	971.2	950.1	21.09	46.054			
6,000.0	5,989.1	5,957.5	5,951.9	12.1	11.2	-153.64	-638.4	258.4	980.7	959.2	21.44	45.748			
6,100.0	6,088.9	6,056.9	6,051.2	12.3	11.4	-153.96	-640.0	262.7	990.2	968.4	21.78	45.453			
6,200.0	6,188.7	6,156.3	6,150.4	12.5	11.6	-154.27	-641.6	267.1	999.7	977.6	22.13	45.170			
6,300.0	6,288.5	6,255.7	6,249.7	12.7	11.8	-154.57	-643.1	271.4	1,009.3	986.8	22.48	44.896			
6,400.0	6,388.3	6,355.1	6,349.0	12.9	12.0	-154.87	-644.7	275.7	1,018.8	996.0	22.83	44.633			
6,500.0	6,488.1	7,862.1	7,269.0	13.1	19.7	153.00	181.8	315.8	1,012.4	981.6	30.86	32.803			
6,600.0	6,587.9	7,865.2	7,269.0	13.3	19.8	152.75	184.9	315.8	941.4	910.4	31.08	30.292			
6,700.0	6,687.7	7,868.3	7,269.0	13.5	19.8	152.49	187.9	315.8	876.1	844.8	31.29	27.996			
6,800.0	6,787.5	7,871.3	7,269.0	13.7	19.8	152.23	191.0	315.8	817.8	786.3	31.51	25.955			
6,900.0	6,887.3	7,870.6	7,269.0	13.9	19.8	-126.55	190.2	315.8	768.2	736.7	31.52	24.373			
7,000.0	6,985.5	7,853.4	7,269.0	14.0	19.6	-108.50	173.1	315.8	729.8	698.6	31.22	23.379			
7,100.0	7,079.2	7,819.4	7,269.0	14.1	19.2	-103.78	139.1	315.8	704.4	673.7	30.77	22.896			
7,200.0	7,165.6	7,769.7	7,269.0	14.2	18.6	-99.50	89.3	315.8	691.9	661.6	30.28	22.847 SF			
7,268.9	7,219.5	7,727.0	7,269.0	14.3	18.0	-96.16	46.6	315.8	689.7	659.7	29.96	23.015			
7,300.0	7,242.1	7,705.6	7,269.0	14.3	17.8	-94.57	25.3	315.8	690.0	660.2	29.80	23.154			
7,400.0	7,306.2	7,629.3	7,269.0	14.6	16.9	-89.35	-51.1	315.8	695.5	666.1	29.33	23.711			
7,500.0	7,356.2	7,550.0	7,266.5	15.0	16.1	-84.65	-130.3	315.7	704.4	675.5	28.89	24.383			
7,600.0	7,390.4	7,472.4	7,254.2	15.5	15.4	-80.34	-206.8	315.2	715.2	686.7	28.55	25.053			
7,700.0	7,407.8	7,400.0	7,233.4	16.3	14.8	-76.57	-276.1	314.3	726.7	698.4	28.31	25.667			
7,800.0	7,410.0	7,330.3	7,205.3	17.2	14.3	-73.76	-339.9	313.1	738.7	710.3	28.40	26.015			
7,900.0	7,410.0	7,268.0	7,173.9	18.2	14.0	-71.45	-393.6	311.7	755.0	726.3	28.78	26.234			
8,000.0	7,410.0	7,213.5	7,141.7	19.3	13.7	-69.19	-437.5	310.3	775.6	746.3	29.25	26.514			
8,100.0	7,410.0	7,166.4	7,110.6	20.4	13.5	-67.10	-472.9	308.9	800.8	771.0	29.83	26.843			
8,200.0	7,410.0	7,125.7	7,081.6	21.7	13.4	-65.24	-501.3	307.7	831.3	800.8	30.51	27.249			
8,300.0	7,410.0	7,100.0	7,062.2	23.0	13.3	-64.02	-518.1	306.8	867.6	836.2	31.41	27.619			
8,400.0	7,410.0	7,050.0	7,022.4	24.3	13.2	-61.35	-548.4	305.1	910.9	878.8	32.06	28.409			
8,500.0	7,410.0	7,033.9	7,009.0	25.7	13.2	-60.47	-557.3	304.5	960.8	927.6	33.14	28.990			
8,600.0	7,410.0	7,000.0	6,980.1	27.2	13.1	-58.63	-575.0	303.2	1,017.0	983.1	33.94	29.963			
8,700.0	7,410.0	7,000.0	6,980.1	28.7	13.1	-58.63	-575.0	303.2	1,078.4	1,043.2	35.26	30.583			
8,800.0	7,410.0	6,972.4	6,955.9	30.2	13.1	-57.14	-588.1	302.2	1,144.4	1,108.3	36.13	31.677			
8,900.0	7,410.0	6,950.0	6,935.7	31.7	13.0	-55.93	-597.8	301.3	1,214.6	1,177.5	37.05	32.782			

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 2D-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 2D-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												Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS												Offset Well Error:	0.0 ft
Survey Program: 547-MWD													
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	7,410.0	7,700.9	7,446.8	56.4	23.0	90.87	-4,028.8	-857.4	1,206.8	1,129.1	77.71	15.529	
10,500.0	7,410.0	7,700.7	7,446.6	58.1	23.0	90.89	-4,028.8	-857.4	1,126.7	1,047.0	79.70	14.137	
10,600.0	7,410.0	7,700.5	7,446.4	59.8	23.0	90.90	-4,028.8	-857.4	1,048.4	966.7	81.65	12.839	
10,700.0	7,410.0	7,700.3	7,446.2	61.5	23.0	90.90	-4,028.8	-857.4	972.4	888.9	83.50	11.645	
10,800.0	7,410.0	7,700.0	7,446.0	63.2	23.0	90.88	-4,028.8	-857.4	900.7	815.4	85.22	10.569	
10,900.0	7,410.0	7,699.8	7,445.7	64.9	23.0	90.85	-4,028.8	-857.4	834.8	747.9	86.93	9.603	
11,000.0	7,410.0	7,699.5	7,445.5	66.6	23.0	90.83	-4,028.8	-857.4	776.2	687.6	88.65	8.756	
11,100.0	7,410.0	7,699.3	7,445.2	68.4	23.0	90.81	-4,028.8	-857.4	726.8	636.4	90.37	8.042	
11,200.0	7,410.0	7,699.1	7,445.0	70.1	23.0	90.79	-4,028.8	-857.4	688.3	596.2	92.14	7.470	
11,300.0	7,410.0	7,698.8	7,444.7	71.8	23.0	90.77	-4,028.8	-857.4	661.7	567.8	93.91	7.046	
11,400.0	7,410.0	7,698.5	7,444.5	73.5	23.0	90.75	-4,028.8	-857.4	649.5	553.9	95.64	6.791	
11,430.0	7,410.0	7,698.5	7,444.4	74.1	23.0	90.74	-4,028.8	-857.4	648.8	552.7	96.16	6.748 CC, ES	
11,500.0	7,410.0	7,698.3	7,444.2	75.3	23.0	90.73	-4,028.8	-857.4	652.6	555.2	97.37	6.702 SF	
11,600.0	7,410.0	7,698.0	7,444.0	77.0	23.0	90.70	-4,028.8	-857.4	670.7	571.6	99.10	6.768	
11,700.0	7,410.0	7,697.8	7,443.7	78.7	23.0	90.68	-4,028.8	-857.4	702.8	601.9	100.83	6.970	
11,800.0	7,410.0	7,697.5	7,443.4	80.5	23.0	90.66	-4,028.8	-857.4	746.9	644.3	102.56	7.282	
11,900.0	7,410.0	7,697.2	7,443.2	82.2	23.0	90.63	-4,028.8	-857.4	801.1	696.9	104.29	7.682	
12,000.0	7,410.0	7,697.0	7,442.9	83.9	23.0	90.61	-4,028.8	-857.4	863.6	757.6	106.03	8.145	
12,100.0	7,410.0	7,696.7	7,442.7	85.7	23.0	90.59	-4,028.8	-857.4	932.6	824.9	107.76	8.654	
12,200.0	7,410.0	7,696.5	7,442.4	87.4	23.0	90.56	-4,028.8	-857.4	1,006.9	897.4	109.50	9.195	
12,300.0	7,410.0	7,696.2	7,442.1	89.1	23.0	90.54	-4,028.8	-857.4	1,085.3	974.0	111.24	9.756	
12,400.0	7,410.0	7,695.9	7,441.9	90.9	23.0	90.52	-4,028.8	-857.4	1,167.0	1,054.0	112.97	10.329	
12,500.0	7,410.0	7,695.7	7,441.6	92.6	23.0	90.49	-4,028.8	-857.4	1,251.3	1,136.6	114.71	10.908	

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 2D-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 2D-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												Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - NELSON 23-23C (EXISTING) - EXISTING - NO SURVEYS												Offset Well Error:	0.0 ft
Survey Program: 7658-MWD													
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
14,090.8	7,410.0	7,426.0	7,426.0	120.3	13.0	-90.00	-7,837.5	145.1	1,211.9	1,078.6	133.27	9.093	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Elmquist 2D-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 2D-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													Offset Site Error:	0.0 ft		
Survey Program: 8035-MWD													S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS		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)						
9,200.0	7,410.0	7,417.0	7,417.0	36.4	12.9	90.00	-3,013.3	-387.8	1,191.5	1,143.0	48.52	24.556				
9,300.0	7,410.0	7,417.0	7,417.0	38.1	12.9	90.00	-3,013.3	-387.8	1,093.0	1,042.8	50.17	21.786				
9,400.0	7,410.0	7,417.0	7,417.0	39.7	12.9	90.00	-3,013.3	-387.8	994.8	942.9	51.83	19.194				
9,500.0	7,410.0	7,417.0	7,417.0	41.3	12.9	90.00	-3,013.3	-387.8	896.9	843.4	53.49	16.767				
9,600.0	7,410.0	7,417.0	7,417.0	43.0	12.9	90.00	-3,013.3	-387.8	799.7	744.5	55.17	14.495				
9,700.0	7,410.0	7,417.0	7,417.0	44.6	12.9	90.00	-3,013.3	-387.8	703.1	646.3	56.85	12.368				
9,800.0	7,410.0	7,417.0	7,417.0	46.3	12.9	90.00	-3,013.3	-387.8	607.7	549.2	58.53	10.382				
9,900.0	7,410.0	7,417.0	7,417.0	47.9	12.9	90.00	-3,013.3	-387.8	514.0	453.8	60.23	8.535				
10,000.0	7,410.0	7,417.0	7,417.0	49.6	12.9	90.00	-3,013.3	-387.8	423.3	361.4	61.92	6.836				
10,100.0	7,410.0	7,417.0	7,417.0	51.3	12.9	90.00	-3,013.3	-387.8	337.8	274.2	63.63	5.309				
10,200.0	7,410.0	7,417.0	7,417.0	53.0	12.9	90.00	-3,013.3	-387.8	262.8	197.4	65.33	4.022				
10,300.0	7,410.0	7,417.0	7,417.0	54.7	12.9	90.00	-3,013.3	-387.8	209.4	142.3	67.13	3.120				
10,382.0	7,410.0	7,417.0	7,417.0	56.1	12.9	90.00	-3,013.3	-387.8	193.6	124.9	68.67	2.819	CC, ES			
10,400.0	7,410.0	7,417.0	7,417.0	56.4	12.9	90.00	-3,013.3	-387.8	194.4	125.4	69.00	2.817	SF			
10,500.0	7,410.0	7,417.0	7,417.0	58.1	12.9	90.00	-3,013.3	-387.8	225.2	154.3	70.84	3.178				
10,600.0	7,410.0	7,417.0	7,417.0	59.8	12.9	90.00	-3,013.3	-387.8	287.4	214.7	72.65	3.956				
10,700.0	7,410.0	7,417.0	7,417.0	61.5	12.9	90.00	-3,013.3	-387.8	365.4	291.0	74.40	4.911				
10,800.0	7,410.0	7,417.0	7,417.0	63.2	12.9	90.00	-3,013.3	-387.8	451.9	375.7	76.12	5.936				
10,900.0	7,410.0	7,417.0	7,417.0	64.9	12.9	90.00	-3,013.3	-387.8	543.0	465.2	77.83	6.977				
11,000.0	7,410.0	7,417.0	7,417.0	66.6	12.9	90.00	-3,013.3	-387.8	636.8	557.3	79.55	8.005				
11,100.0	7,410.0	7,417.0	7,417.0	68.4	12.9	90.00	-3,013.3	-387.8	732.3	651.0	81.28	9.010				
11,200.0	7,410.0	7,417.0	7,417.0	70.1	12.9	90.00	-3,013.3	-387.8	828.8	745.8	83.01	9.984				
11,300.0	7,410.0	7,417.0	7,417.0	71.8	12.9	90.00	-3,013.3	-387.8	925.8	841.1	84.75	10.924				
11,400.0	7,410.0	7,417.0	7,417.0	73.5	12.9	90.00	-3,013.3	-387.8	1,023.4	936.9	86.47	11.834				
11,500.0	7,410.0	7,417.0	7,417.0	75.3	12.9	90.00	-3,013.3	-387.8	1,121.3	1,033.1	88.20	12.713				
11,600.0	7,410.0	7,417.0	7,417.0	77.0	12.9	90.00	-3,013.3	-387.8	1,219.7	1,129.7	89.93	13.562				

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 2D-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 2D-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				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	-149.25	-387.2	-230.4	450.6					
100.0	100.0	93.0	93.0	0.2	0.2	-149.25	-387.2	-230.4	450.6	450.3	0.31	1,433.309		
200.0	200.0	193.0	193.0	0.3	0.3	-149.25	-387.2	-230.4	450.6	449.9	0.66	679.163		
300.0	300.0	293.0	293.0	0.5	0.5	-149.25	-387.2	-230.4	450.6	449.6	1.01	445.015		
400.0	400.0	393.0	393.0	0.7	0.7	-149.25	-387.2	-230.4	450.6	449.2	1.36	330.926		
500.0	500.0	493.0	493.0	0.8	0.9	-149.25	-387.2	-230.4	450.6	448.9	1.71	263.398		
600.0	600.0	593.0	593.0	1.0	1.0	-88.43	-387.2	-230.4	450.5	448.5	2.06	218.545		
700.0	699.8	692.8	692.8	1.2	1.2	-89.09	-387.2	-230.4	450.4	448.0	2.42	186.063		
800.0	799.6	792.6	792.6	1.4	1.4	-89.90	-387.2	-230.4	450.4	447.6	2.79	161.646		
812.9	812.5	805.5	805.5	1.4	1.4	-90.00	-387.2	-230.4	450.4	447.5	2.83	158.936		
900.0	899.4	892.4	892.4	1.6	1.6	-90.70	-387.2	-230.4	450.4	447.2	3.16	142.741		
1,000.0	999.2	992.2	992.2	1.8	1.7	-91.51	-387.2	-230.4	450.5	447.0	3.53	127.727		
1,100.0	1,099.0	1,092.0	1,092.0	2.0	1.9	-92.32	-387.2	-230.4	450.7	446.8	3.90	115.547		
1,200.0	1,198.8	1,191.8	1,191.8	2.2	2.1	-93.12	-387.2	-230.4	451.0	446.7	4.28	105.487		
1,300.0	1,298.6	1,291.6	1,291.6	2.4	2.3	-93.92	-387.2	-230.4	451.4	446.8	4.65	97.049		
1,400.0	1,398.4	1,391.4	1,391.4	2.6	2.4	-94.73	-387.2	-230.4	451.9	446.9	5.03	89.879		
1,500.0	1,498.2	1,491.2	1,491.2	2.8	2.6	-95.53	-387.2	-230.4	452.5	447.1	5.40	83.718		
1,600.0	1,598.0	1,591.0	1,591.0	3.0	2.8	-96.32	-387.2	-230.4	453.1	447.3	5.78	78.372		
1,700.0	1,697.8	1,690.8	1,690.8	3.2	3.0	-97.12	-387.2	-230.4	453.9	447.7	6.16	73.693		
1,800.0	1,797.6	1,790.6	1,790.6	3.4	3.1	-97.91	-387.2	-230.4	454.7	448.2	6.54	69.567		
1,900.0	1,897.4	1,890.4	1,890.4	3.6	3.3	-98.70	-387.2	-230.4	455.6	448.7	6.91	65.905		
2,000.0	1,997.2	1,990.2	1,990.2	3.8	3.5	-99.49	-387.2	-230.4	456.6	449.3	7.29	62.634		
2,100.0	2,097.0	2,090.0	2,090.0	4.0	3.6	-100.27	-387.2	-230.4	457.7	450.0	7.67	59.698		
2,200.0	2,196.8	2,189.8	2,189.8	4.2	3.8	-101.05	-387.2	-230.4	458.9	450.9	8.04	57.049		
2,300.0	2,296.6	2,289.6	2,289.6	4.4	4.0	-101.83	-387.2	-230.4	460.2	451.7	8.42	54.650		
2,400.0	2,396.4	2,389.4	2,389.4	4.6	4.2	-102.60	-387.2	-230.4	461.5	452.7	8.80	52.467		
2,500.0	2,496.2	2,489.2	2,489.2	4.9	4.3	-103.36	-387.2	-230.4	462.9	453.8	9.17	50.474		
2,600.0	2,596.0	2,589.0	2,589.0	5.1	4.5	-104.13	-387.2	-230.4	464.4	454.9	9.55	48.648		
2,700.0	2,695.8	2,688.8	2,688.8	5.3	4.7	-104.88	-387.2	-230.4	466.0	456.1	9.92	46.971		
2,800.0	2,795.6	2,788.6	2,788.6	5.5	4.9	-105.63	-387.2	-230.4	467.7	457.4	10.30	45.426		
2,900.0	2,895.4	2,888.4	2,888.4	5.7	5.0	-106.38	-387.2	-230.4	469.5	458.8	10.67	43.999		
3,000.0	2,995.2	2,988.2	2,988.2	5.9	5.2	-107.12	-387.2	-230.4	471.3	460.3	11.04	42.678		
3,100.0	3,095.0	3,088.0	3,088.0	6.1	5.4	-107.85	-387.2	-230.4	473.2	461.8	11.42	41.452		
3,200.0	3,194.8	3,187.8	3,187.8	6.3	5.6	-108.58	-387.2	-230.4	475.2	463.4	11.79	40.311		
3,300.0	3,294.6	3,287.6	3,287.6	6.5	5.7	-109.30	-387.2	-230.4	477.3	465.1	12.16	39.249		
3,400.0	3,394.4	3,387.4	3,387.4	6.7	5.9	-110.02	-387.2	-230.4	479.4	466.9	12.53	38.258		
3,500.0	3,494.2	3,487.2	3,487.2	6.9	6.1	-110.73	-387.2	-230.4	481.6	468.7	12.90	37.330		
3,600.0	3,594.0	3,587.0	3,587.0	7.1	6.3	-111.43	-387.2	-230.4	483.9	470.7	13.27	36.462		
3,700.0	3,693.8	3,686.8	3,686.8	7.3	6.4	-112.12	-387.2	-230.4	486.3	472.6	13.64	35.648		
3,800.0	3,793.6	3,786.6	3,786.6	7.5	6.6	-112.81	-387.2	-230.4	488.7	474.7	14.01	34.883		
3,900.0	3,893.4	3,886.4	3,886.4	7.7	6.8	-113.49	-387.2	-230.4	491.2	476.8	14.38	34.164		
4,000.0	3,993.2	3,986.2	3,986.2	7.9	7.0	-114.17	-387.2	-230.4	493.8	479.0	14.75	33.487		
4,100.0	4,093.0	4,086.0	4,086.0	8.2	7.1	-114.84	-387.2	-230.4	496.4	481.3	15.11	32.848		
4,200.0	4,192.8	4,185.8	4,185.8	8.4	7.3	-115.50	-387.2	-230.4	499.1	483.7	15.48	32.246		
4,300.0	4,292.6	4,285.6	4,285.6	8.6	7.5	-116.15	-387.2	-230.4	501.9	486.1	15.84	31.677		
4,400.0	4,392.4	4,385.4	4,385.4	8.8	7.7	-116.80	-387.2	-230.4	504.7	488.5	16.21	31.138		
4,500.0	4,492.2	4,485.2	4,485.2	9.0	7.8	-117.44	-387.2	-230.4	507.6	491.1	16.57	30.628		
4,600.0	4,592.0	4,585.0	4,585.0	9.2	8.0	-118.07	-387.2	-230.4	510.6	493.7	16.94	30.145		
4,700.0	4,691.8	4,684.8	4,684.8	9.4	8.2	-118.69	-387.2	-230.4	513.6	496.3	17.30	29.687		
4,800.0	4,791.6	4,784.6	4,784.6	9.6	8.4	-119.31	-387.2	-230.4	516.7	499.1	17.66	29.252		
4,900.0	4,891.4	4,884.4	4,884.4	9.8	8.5	-119.92	-387.2	-230.4	519.9	501.8	18.03	28.839		
5,000.0	4,991.2	4,984.2	4,984.2	10.0	8.7	-120.52	-387.2	-230.4	523.1	504.7	18.39	28.446		

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 2D-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 2D-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													Offset Site Error:	0.0 ft		
Survey Program: 8028-MWD													S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS		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)						
5,100.0	5,090.9	5,083.9	5,083.9	10.2	8.9	-121.12	-387.2	-230.4	526.3	507.6	18.75	28.072				
5,200.0	5,190.7	5,183.7	5,183.7	10.4	9.0	-121.71	-387.2	-230.4	529.6	510.5	19.11	27.716				
5,300.0	5,290.5	5,283.5	5,283.5	10.6	9.2	-122.29	-387.2	-230.4	533.0	513.6	19.47	27.377				
5,400.0	5,390.3	5,383.3	5,383.3	10.8	9.4	-122.86	-387.2	-230.4	536.4	516.6	19.83	27.053				
5,500.0	5,490.1	5,483.1	5,483.1	11.0	9.6	-123.42	-387.2	-230.4	539.9	519.7	20.19	26.745				
5,600.0	5,589.9	5,582.9	5,582.9	11.3	9.7	-123.98	-387.2	-230.4	543.5	522.9	20.55	26.450				
5,700.0	5,689.7	5,682.7	5,682.7	11.5	9.9	-124.53	-387.2	-230.4	547.0	526.1	20.90	26.168				
5,800.0	5,789.5	5,782.5	5,782.5	11.7	10.1	-125.08	-387.2	-230.4	550.7	529.4	21.26	25.899				
5,900.0	5,889.3	5,882.3	5,882.3	11.9	10.3	-125.62	-387.2	-230.4	554.4	532.7	21.62	25.642				
6,000.0	5,989.1	5,982.1	5,982.1	12.1	10.4	-126.14	-387.2	-230.4	558.1	536.1	21.98	25.396				
6,100.0	6,088.9	6,081.9	6,081.9	12.3	10.6	-126.67	-387.2	-230.4	561.9	539.5	22.33	25.160				
6,200.0	6,188.7	6,181.7	6,181.7	12.5	10.8	-127.18	-387.2	-230.4	565.7	543.0	22.69	24.934				
6,300.0	6,288.5	6,281.5	6,281.5	12.7	11.0	-127.69	-387.2	-230.4	569.5	546.5	23.04	24.718				
6,400.0	6,388.3	6,381.3	6,381.3	12.9	11.1	-128.19	-387.2	-230.4	573.5	550.1	23.40	24.510				
6,500.0	6,488.1	6,481.1	6,481.1	13.1	11.3	-128.69	-387.2	-230.4	577.4	553.7	23.75	24.311				
6,600.0	6,587.9	6,580.9	6,580.9	13.3	11.5	-129.18	-387.2	-230.4	581.4	557.3	24.10	24.120				
6,700.0	6,687.7	6,680.7	6,680.7	13.5	11.7	-129.66	-387.2	-230.4	585.5	561.0	24.46	23.937				
6,800.0	6,787.5	6,780.5	6,780.5	13.7	11.8	-130.13	-387.2	-230.4	589.5	564.7	24.81	23.761				
6,900.0	6,887.3	6,880.3	6,880.3	13.9	12.0	-45.91	-387.2	-230.4	589.9	564.8	25.10	23.505				
7,000.0	6,985.5	6,978.5	6,978.5	14.0	12.2	-26.39	-387.2	-230.4	574.4	549.4	24.93	23.039				
7,100.0	7,079.2	7,072.2	7,072.2	14.1	12.3	-24.03	-387.2	-230.4	542.7	518.3	24.32	22.313				
7,200.0	7,165.6	7,158.6	7,158.6	14.2	12.5	-25.97	-387.2	-230.4	496.1	472.7	23.43	21.171				
7,300.0	7,242.1	7,235.1	7,235.1	14.3	12.6	-31.46	-387.2	-230.4	436.7	414.1	22.64	19.285				
7,400.0	7,306.2	7,299.2	7,299.2	14.6	12.7	-41.69	-387.2	-230.4	367.4	344.7	22.70	16.185				
7,500.0	7,356.2	7,349.2	7,349.2	15.0	12.8	-57.85	-387.2	-230.4	292.7	268.3	24.33	12.031				
7,600.0	7,390.4	7,383.4	7,383.4	15.5	12.9	-76.36	-387.2	-230.4	220.7	194.2	26.49	8.332				
7,700.0	7,407.8	7,400.8	7,400.8	16.3	12.9	-88.30	-387.2	-230.4	169.0	141.3	27.73	6.095				
7,754.7	7,411.3	7,404.3	7,404.3	16.7	12.9	-90.00	-387.2	-230.4	160.0	131.7	28.27	5.660	CC, ES, SF			
7,800.0	7,410.0	7,403.0	7,403.0	17.2	12.9	-90.00	-387.2	-230.4	166.2	137.5	28.70	5.790				
7,900.0	7,410.0	7,403.0	7,403.0	18.2	12.9	-90.00	-387.2	-230.4	215.7	185.9	29.75	7.250				
8,000.0	7,410.0	7,403.0	7,403.0	19.3	12.9	-90.00	-387.2	-230.4	291.0	260.2	30.83	9.439				
8,100.0	7,410.0	7,403.0	7,403.0	20.4	12.9	-90.00	-387.2	-230.4	376.8	344.8	31.97	11.785				
8,200.0	7,410.0	7,403.0	7,403.0	21.7	12.9	-90.00	-387.2	-230.4	467.3	434.1	33.17	14.087				
8,300.0	7,410.0	7,403.0	7,403.0	23.0	12.9	-90.00	-387.2	-230.4	560.3	525.8	34.49	16.246				
8,400.0	7,410.0	7,403.0	7,403.0	24.3	12.9	-90.00	-387.2	-230.4	655.2	619.3	35.92	18.238				
8,500.0	7,410.0	7,403.0	7,403.0	25.7	12.9	-90.00	-387.2	-230.4	751.5	714.1	37.41	20.089				
8,600.0	7,410.0	7,403.0	7,403.0	27.2	12.9	-90.00	-387.2	-230.4	848.6	809.7	38.92	21.802				
8,700.0	7,410.0	7,403.0	7,403.0	28.7	12.9	-90.00	-387.2	-230.4	946.3	905.9	40.47	23.384				
8,800.0	7,410.0	7,403.0	7,403.0	30.2	12.9	-90.00	-387.2	-230.4	1,044.5	1,002.4	42.04	24.846				
8,900.0	7,410.0	7,403.0	7,403.0	31.7	12.9	-90.00	-387.2	-230.4	1,143.0	1,099.3	43.63	26.197				
9,000.0	7,410.0	7,403.0	7,403.0	33.3	12.9	-90.00	-387.2	-230.4	1,241.7	1,196.4	45.24	27.448				

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 2D-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 2D-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER U 14-11 (EXISTING) - EXISTING - NO SURVE													Offset Well Error:	0.0 ft
Survey Program: 7625-MWD														
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	
8,900.0	7,410.0	7,406.0	7,406.0	31.7	12.9	-90.00	-2,519.4	438.4	1,250.2	1,206.5	43.63	28.651		
9,000.0	7,410.0	7,406.0	7,406.0	33.3	12.9	-90.00	-2,519.4	438.4	1,167.0	1,121.8	45.24	25.794		
9,100.0	7,410.0	7,406.0	7,406.0	34.9	12.9	-90.00	-2,519.4	438.4	1,086.7	1,039.8	46.87	23.187		
9,200.0	7,410.0	7,406.0	7,406.0	36.4	12.9	-90.00	-2,519.4	438.4	1,009.8	961.3	48.50	20.821		
9,300.0	7,410.0	7,406.0	7,406.0	38.1	12.9	-90.00	-2,519.4	438.4	937.4	887.3	50.15	18.692		
9,400.0	7,410.0	7,406.0	7,406.0	39.7	12.9	-90.00	-2,519.4	438.4	870.5	818.6	51.81	16.802		
9,500.0	7,410.0	7,406.0	7,406.0	41.3	12.9	-90.00	-2,519.4	438.4	810.3	756.9	53.47	15.154		
9,600.0	7,410.0	7,406.0	7,406.0	43.0	12.9	-90.00	-2,519.4	438.4	758.7	703.5	55.15	13.757		
9,700.0	7,410.0	7,406.0	7,406.0	44.6	12.9	-90.00	-2,519.4	438.4	717.3	660.5	56.83	12.622		
9,800.0	7,410.0	7,406.0	7,406.0	46.3	12.9	-90.00	-2,519.4	438.4	688.1	629.6	58.52	11.759		
9,900.0	7,410.0	7,406.0	7,406.0	47.9	12.9	-90.00	-2,519.4	438.4	672.6	612.4	60.21	11.172		
9,955.2	7,410.0	7,406.0	7,406.0	48.9	12.9	-90.00	-2,519.4	438.4	670.4	609.2	61.15	10.963	CC, ES	
10,000.0	7,410.0	7,406.0	7,406.0	49.6	12.9	-90.00	-2,519.4	438.4	671.9	610.0	61.90	10.853		
10,100.0	7,410.0	7,406.0	7,406.0	51.3	12.9	-90.00	-2,519.4	438.4	685.8	622.2	63.61	10.782	SF	
10,200.0	7,410.0	7,406.0	7,406.0	53.0	12.9	-90.00	-2,519.4	438.4	713.6	648.3	65.31	10.927		
10,300.0	7,410.0	7,406.0	7,406.0	54.7	12.9	-90.00	-2,519.4	438.4	754.1	687.0	67.11	11.236		
10,400.0	7,410.0	7,406.0	7,406.0	56.4	12.9	-90.00	-2,519.4	438.4	806.9	737.9	68.98	11.697		
10,500.0	7,410.0	7,406.0	7,406.0	58.1	12.9	-90.00	-2,519.4	438.4	870.0	799.2	70.82	12.285		
10,600.0	7,410.0	7,406.0	7,406.0	59.8	12.9	-90.00	-2,519.4	438.4	941.4	868.7	72.63	12.962		
10,700.0	7,410.0	7,406.0	7,406.0	61.5	12.9	-90.00	-2,519.4	438.4	1,019.0	944.6	74.38	13.700		
10,800.0	7,410.0	7,406.0	7,406.0	63.2	12.9	-90.00	-2,519.4	438.4	1,100.6	1,024.5	76.10	14.463		
10,900.0	7,410.0	7,406.0	7,406.0	64.9	12.9	-90.00	-2,519.4	438.4	1,185.0	1,107.2	77.82	15.229		
11,000.0	7,410.0	7,406.0	7,406.0	66.6	12.9	-90.00	-2,519.4	438.4	1,271.7	1,192.2	79.54	15.989		

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 2D-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 2D-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													Offset Site Error:	0.0 ft		
Survey Program: 7650-MWD													S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER U 14-14 (EXISTING) - EXISTING - NO SURVE		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				
10,300.0	7,410.0	7,411.0	7,411.0	54.7	12.9	-90.00	-4,051.9	278.8	1,227.7	1,160.6	67.12	18.291				
10,400.0	7,410.0	7,411.0	7,411.0	56.4	12.9	-90.00	-4,051.9	278.8	1,133.9	1,064.9	68.99	16.435				
10,500.0	7,410.0	7,411.0	7,411.0	58.1	12.9	-90.00	-4,051.9	278.8	1,042.3	971.5	70.83	14.715				
10,600.0	7,410.0	7,411.0	7,411.0	59.8	12.9	-90.00	-4,051.9	278.8	953.6	881.0	72.64	13.129				
10,700.0	7,410.0	7,411.0	7,411.0	61.5	12.9	-90.00	-4,051.9	278.8	868.7	794.3	74.39	11.678				
10,800.0	7,410.0	7,411.0	7,411.0	63.2	12.9	-90.00	-4,051.9	278.8	787.7	711.6	76.11	10.350				
10,900.0	7,410.0	7,411.0	7,411.0	64.9	12.9	-90.00	-4,051.9	278.8	711.5	633.7	77.82	9.143				
11,000.0	7,410.0	7,411.0	7,411.0	66.6	12.9	-90.00	-4,051.9	278.8	642.0	562.4	79.54	8.071				
11,100.0	7,410.0	7,411.0	7,411.0	68.4	12.9	-90.00	-4,051.9	278.8	581.3	500.1	81.27	7.153				
11,200.0	7,410.0	7,411.0	7,411.0	70.1	12.9	-90.00	-4,051.9	278.8	532.8	449.8	83.00	6.419				
11,300.0	7,410.0	7,411.0	7,411.0	71.8	12.9	-90.00	-4,051.9	278.8	500.8	416.1	84.74	5.910				
11,400.0	7,410.0	7,411.0	7,411.0	73.5	12.9	-90.00	-4,051.9	278.8	487.7	401.3	86.46	5.641				
11,414.6	7,410.0	7,411.0	7,411.0	73.8	12.9	-90.00	-4,051.9	278.8	487.5	400.8	86.72	5.622 CC, ES				
11,500.0	7,410.0	7,411.0	7,411.0	75.3	12.9	-90.00	-4,051.9	278.8	494.9	406.8	88.19	5.612 SF				
11,600.0	7,410.0	7,411.0	7,411.0	77.0	12.9	-90.00	-4,051.9	278.8	521.6	431.7	89.92	5.800				
11,700.0	7,410.0	7,411.0	7,411.0	78.7	12.9	-90.00	-4,051.9	278.8	564.9	473.3	91.65	6.164				
11,800.0	7,410.0	7,411.0	7,411.0	80.5	12.9	-90.00	-4,051.9	278.8	621.5	528.1	93.38	6.655				
11,900.0	7,410.0	7,411.0	7,411.0	82.2	12.9	-90.00	-4,051.9	278.8	688.0	592.8	95.12	7.233				
12,000.0	7,410.0	7,411.0	7,411.0	83.9	12.9	-90.00	-4,051.9	278.8	761.8	665.0	96.85	7.866				
12,100.0	7,410.0	7,411.0	7,411.0	85.7	12.9	-90.00	-4,051.9	278.8	841.1	742.5	98.59	8.532				
12,200.0	7,410.0	7,411.0	7,411.0	87.4	12.9	-90.00	-4,051.9	278.8	924.4	824.1	100.32	9.214				
12,300.0	7,410.0	7,411.0	7,411.0	89.1	12.9	-90.00	-4,051.9	278.8	1,010.7	908.7	102.06	9.904				
12,400.0	7,410.0	7,411.0	7,411.0	90.9	12.9	-90.00	-4,051.9	278.8	1,099.4	995.6	103.79	10.592				
12,500.0	7,410.0	7,411.0	7,411.0	92.6	12.9	-90.00	-4,051.9	278.8	1,189.9	1,084.3	105.53	11.275				

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

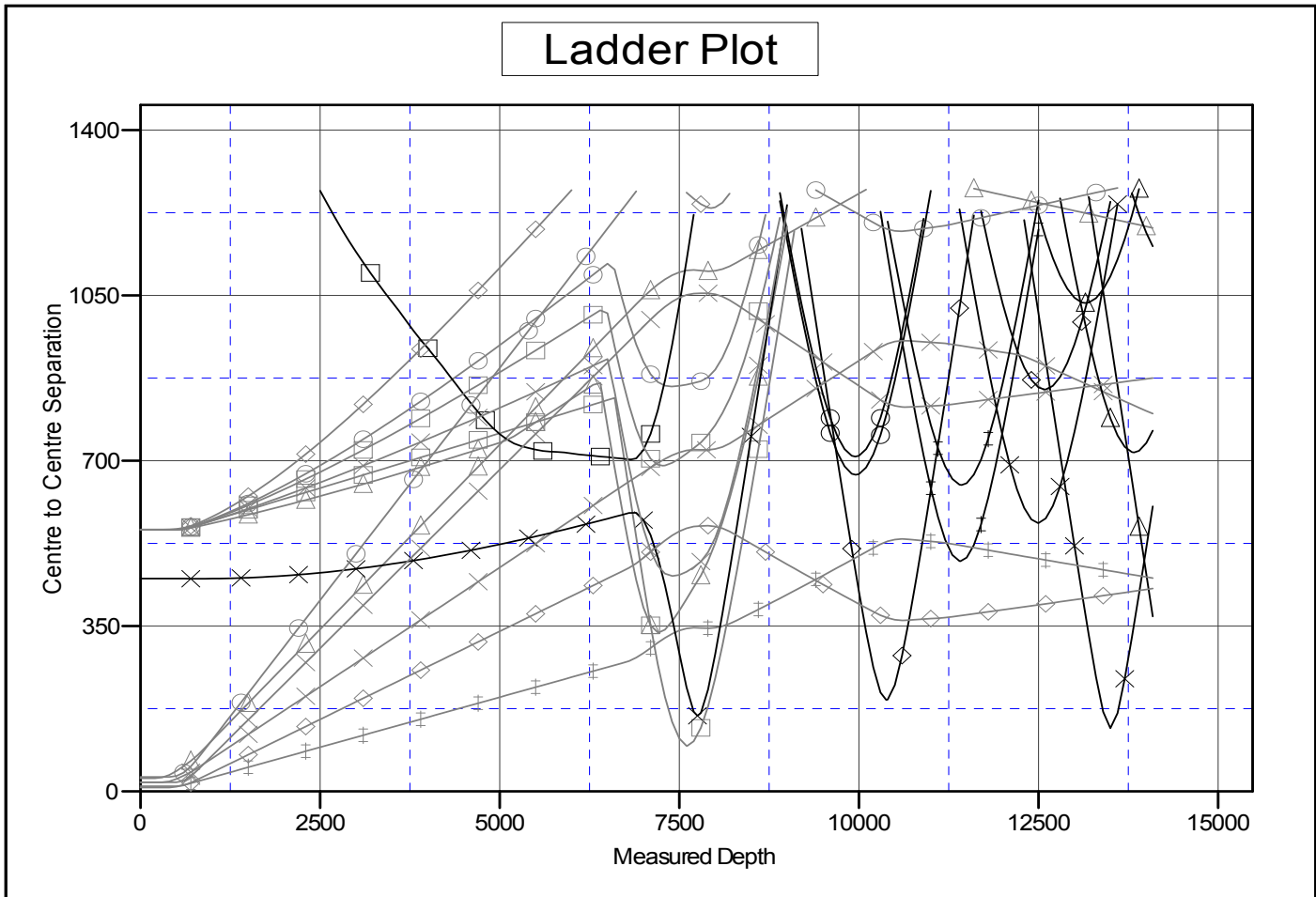
Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well Grant Elmquist 2D-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 2D-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 2D-14H-C268
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.34 °



LEGEND

- | | | |
|--|---|---|
| 3 (EXISTING), EXISTING, SURVEYS V0
1-14H-C268, Hz, Plan #1 V0
(EXISTING), EXISTING, GYRO V0
1-14H-C268, Hz, Plan #1 V0
STING), EXISTING, NO SURVEYS V0
ISTING), EXISTING, GYRO V0
(EXISTING), EXISTING, NO SURVEYS V0
-14H-C268, Hz, Plan #2 V0
3 (EXISTING), EXISTING, SURVEYS V0 | ✕ ELMQUIST 21-23 (EXISTING), EXISTING, SURVEYS V0
▲ ELMQUIST 2-4-23 (EXISTING), EXISTING, SURVEYS V0
✚ OLANDER U 14-14 (EXISTING), EXISTING, NO SURVEYS V0
● DEL CAMINO 11-14 (EXISTING), EXISTING, NO SURVEYS V0
■ GRANT 2-8-11 (EXISTING), EXISTING, SURVEYS V0
● OLANDER U 14-11 (EXISTING), EXISTING, NO SURVEYS V0
✕ Grant Elmquist 2B-14H-C268, Hz, Plan #2 V0
▲ Grant Salisbury 2E-14H-C268, Hz, Plan #1 V0
✚ HSR-BEAR 13-14A (EXISTING), EXISTING, SURVEYS V0 | ◆ Grant Salisbury 2A-14H-C268, Hz, Plan #
▲ ELMQUIST 12-23 (EXISTING), EXISTING
✚ Grant Elmquist 2C-14H-C268, Hz, Plan #
■ Grant Salisbury 2F-14H-C268, Hz, Plan #
✕ OLANDER 2 (EXISTING), EXISTING, N
✕ Grant Salisbury 2C-14H-C268, Hz, Plan #
◆ Grant Elmquist 2E-14H-C268, Hz, Plan #
✕ Grant Elmquist 2F-14H-C268, Hz, Plan #
● Grant Elmquist 2G-14H-C268, Hz, Plan # |
|--|---|---|

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