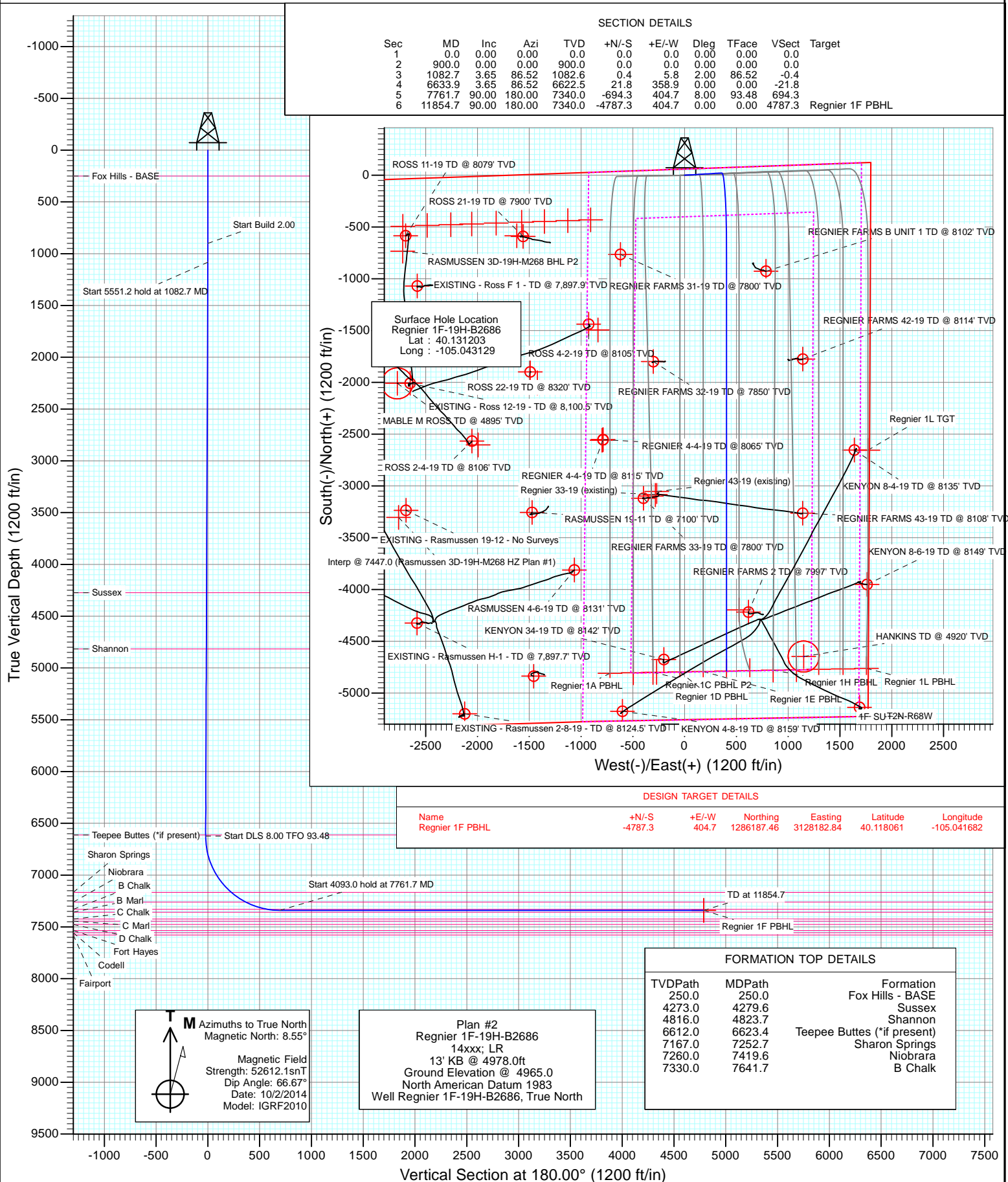




Project: DJ Wattenberg
Site: S19-T2N-R68W (Rasmussen/Regnier)
Well: Regnier 1F-19H-B2686
Vellbore: Hz
Design: Plan #2



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4978.0ft
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1F-19H-B2686	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		S19-T2N-R68W (Rasmussen/Regnier)			
Site Position:		Northing:	1,285,957.96 ft	Latitude:	40.117468
From:	Lat/Long	Easting:	3,125,548.08 ft	Longitude:	-105.051107
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Regnier 1F-19H-B2686					
Well Position	+N/-S	0.0 ft	Northing:	1,290,972.65 ft	Latitude:	40.131203
	+E/-W	0.0 ft	Easting:	3,127,753.50 ft	Longitude:	-105.043129
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,965.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/2/2014	8.55	66.67	52,612

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,082.7	3.65	86.52	1,082.6	0.4	5.8	2.00	2.00	0.00	86.52	
6,633.9	3.65	86.52	6,622.5	21.8	358.9	0.00	0.00	0.00	0.00	
7,761.7	90.00	180.00	7,340.0	-694.3	404.7	8.00	7.66	8.29	93.48	
11,854.7	90.00	180.00	7,340.0	-4,787.3	404.7	0.00	0.00	0.00	0.00	Regnier 1F PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4978.0ft
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1F-19H-B2686	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	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
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	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	Start Build 2.00
1,000.0	2.00	86.52	1,000.0	0.1	1.7	-0.1	2.00	2.00	Start 5551.2 hold at 1082.7 MD
1,082.7	3.65	86.52	1,082.6	0.4	5.8	-0.4	2.00	2.00	
1,100.0	3.65	86.52	1,099.8	0.4	6.9	-0.4	0.00	0.00	
1,200.0	3.65	86.52	1,199.6	0.8	13.3	-0.8	0.00	0.00	
1,300.0	3.65	86.52	1,299.4	1.2	19.6	-1.2	0.00	0.00	
1,400.0	3.65	86.52	1,399.2	1.6	26.0	-1.6	0.00	0.00	
1,500.0	3.65	86.52	1,499.0	2.0	32.4	-2.0	0.00	0.00	
1,600.0	3.65	86.52	1,598.8	2.4	38.7	-2.4	0.00	0.00	
1,700.0	3.65	86.52	1,698.6	2.7	45.1	-2.7	0.00	0.00	
1,800.0	3.65	86.52	1,798.4	3.1	51.4	-3.1	0.00	0.00	
1,900.0	3.65	86.52	1,898.2	3.5	57.8	-3.5	0.00	0.00	
2,000.0	3.65	86.52	1,998.0	3.9	64.2	-3.9	0.00	0.00	
2,100.0	3.65	86.52	2,097.8	4.3	70.5	-4.3	0.00	0.00	
2,200.0	3.65	86.52	2,197.6	4.7	76.9	-4.7	0.00	0.00	
2,300.0	3.65	86.52	2,297.4	5.1	83.2	-5.1	0.00	0.00	
2,400.0	3.65	86.52	2,397.2	5.5	89.6	-5.5	0.00	0.00	
2,500.0	3.65	86.52	2,497.0	5.8	96.0	-5.8	0.00	0.00	
2,600.0	3.65	86.52	2,596.8	6.2	102.3	-6.2	0.00	0.00	
2,700.0	3.65	86.52	2,696.6	6.6	108.7	-6.6	0.00	0.00	
2,800.0	3.65	86.52	2,796.4	7.0	115.1	-7.0	0.00	0.00	
2,900.0	3.65	86.52	2,896.2	7.4	121.4	-7.4	0.00	0.00	
3,000.0	3.65	86.52	2,996.0	7.8	127.8	-7.8	0.00	0.00	
3,100.0	3.65	86.52	3,095.8	8.2	134.1	-8.2	0.00	0.00	
3,200.0	3.65	86.52	3,195.6	8.6	140.5	-8.6	0.00	0.00	
3,300.0	3.65	86.52	3,295.4	8.9	146.9	-8.9	0.00	0.00	
3,400.0	3.65	86.52	3,395.2	9.3	153.2	-9.3	0.00	0.00	
3,500.0	3.65	86.52	3,495.0	9.7	159.6	-9.7	0.00	0.00	
3,600.0	3.65	86.52	3,594.8	10.1	165.9	-10.1	0.00	0.00	
3,700.0	3.65	86.52	3,694.6	10.5	172.3	-10.5	0.00	0.00	
3,800.0	3.65	86.52	3,794.4	10.9	178.7	-10.9	0.00	0.00	
3,900.0	3.65	86.52	3,894.1	11.3	185.0	-11.3	0.00	0.00	
4,000.0	3.65	86.52	3,993.9	11.7	191.4	-11.7	0.00	0.00	
4,100.0	3.65	86.52	4,093.7	12.0	197.8	-12.0	0.00	0.00	
4,200.0	3.65	86.52	4,193.5	12.4	204.1	-12.4	0.00	0.00	
4,279.6	3.65	86.52	4,273.0	12.7	209.2	-12.7	0.00	0.00	Sussex
4,300.0	3.65	86.52	4,293.3	12.8	210.5	-12.8	0.00	0.00	
4,400.0	3.65	86.52	4,393.1	13.2	216.8	-13.2	0.00	0.00	
4,500.0	3.65	86.52	4,492.9	13.6	223.2	-13.6	0.00	0.00	
4,600.0	3.65	86.52	4,592.7	14.0	229.6	-14.0	0.00	0.00	
4,700.0	3.65	86.52	4,692.5	14.4	235.9	-14.4	0.00	0.00	
4,800.0	3.65	86.52	4,792.3	14.7	242.3	-14.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4978.0ft
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1F-19H-B2686	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
4,823.7	3.65	86.52	4,816.0	14.8	243.8	-14.8	0.00	0.00	Shannon
4,900.0	3.65	86.52	4,892.1	15.1	248.6	-15.1	0.00	0.00	
5,000.0	3.65	86.52	4,991.9	15.5	255.0	-15.5	0.00	0.00	
5,100.0	3.65	86.52	5,091.7	15.9	261.4	-15.9	0.00	0.00	
5,200.0	3.65	86.52	5,191.5	16.3	267.7	-16.3	0.00	0.00	
5,300.0	3.65	86.52	5,291.3	16.7	274.1	-16.7	0.00	0.00	
5,400.0	3.65	86.52	5,391.1	17.1	280.5	-17.1	0.00	0.00	
5,500.0	3.65	86.52	5,490.9	17.5	286.8	-17.5	0.00	0.00	
5,600.0	3.65	86.52	5,590.7	17.8	293.2	-17.8	0.00	0.00	
5,700.0	3.65	86.52	5,690.5	18.2	299.5	-18.2	0.00	0.00	
5,800.0	3.65	86.52	5,790.3	18.6	305.9	-18.6	0.00	0.00	
5,900.0	3.65	86.52	5,890.1	19.0	312.3	-19.0	0.00	0.00	
6,000.0	3.65	86.52	5,989.9	19.4	318.6	-19.4	0.00	0.00	
6,100.0	3.65	86.52	6,089.7	19.8	325.0	-19.8	0.00	0.00	
6,200.0	3.65	86.52	6,189.5	20.2	331.3	-20.2	0.00	0.00	
6,300.0	3.65	86.52	6,289.3	20.6	337.7	-20.6	0.00	0.00	
6,400.0	3.65	86.52	6,389.1	20.9	344.1	-20.9	0.00	0.00	
6,500.0	3.65	86.52	6,488.9	21.3	350.4	-21.3	0.00	0.00	
6,600.0	3.65	86.52	6,588.7	21.7	356.8	-21.7	0.00	0.00	
6,623.4	3.65	86.52	6,612.0	21.8	358.3	-21.8	0.00	0.00	Teepee Buttes (*if present)
6,633.9	3.65	86.52	6,622.5	21.8	358.9	-21.8	0.00	0.00	Start DLS 8.00 TFO 93.48
6,700.0	6.24	144.34	6,688.4	19.1	363.1	-19.1	8.00	3.91	
6,800.0	13.56	164.67	6,786.8	3.3	369.4	-3.3	8.00	7.32	
6,900.0	21.37	170.62	6,882.2	-26.0	375.5	26.0	8.00	7.81	
7,000.0	29.27	173.47	6,972.5	-68.3	381.3	68.3	8.00	7.91	
7,100.0	37.22	175.19	7,056.1	-122.9	386.6	122.9	8.00	7.95	
7,200.0	45.18	176.37	7,131.2	-188.5	391.4	188.5	8.00	7.96	
7,252.7	49.38	176.87	7,167.0	-227.2	393.7	227.2	8.00	7.97	Sharon Springs
7,300.0	53.15	177.26	7,196.6	-264.0	395.5	264.0	8.00	7.97	
7,400.0	61.13	177.99	7,250.8	-347.9	399.0	347.9	8.00	7.98	
7,419.6	62.69	178.11	7,260.0	-365.1	399.6	365.1	8.00	7.98	Niobrara
7,500.0	69.11	178.61	7,292.8	-438.5	401.7	438.5	8.00	7.98	
7,600.0	77.09	179.16	7,321.9	-534.0	403.5	534.0	8.00	7.98	
7,641.7	80.42	179.38	7,330.0	-575.0	404.0	575.0	8.00	7.98	B Chalk
7,700.0	85.08	179.69	7,337.4	-632.8	404.5	632.8	8.00	7.98	
7,761.7	90.00	180.00	7,340.0	-694.3	404.7	694.3	8.00	7.98	Start 4093.0 hold at 7761.7 MD
7,800.0	90.00	180.00	7,340.0	-732.7	404.7	732.7	0.00	0.00	
7,900.0	90.00	180.00	7,340.0	-832.7	404.7	832.7	0.00	0.00	
8,000.0	90.00	180.00	7,340.0	-932.7	404.7	932.7	0.00	0.00	
8,100.0	90.00	180.00	7,340.0	-1,032.7	404.7	1,032.7	0.00	0.00	
8,200.0	90.00	180.00	7,340.0	-1,132.7	404.7	1,132.7	0.00	0.00	
8,300.0	90.00	180.00	7,340.0	-1,232.7	404.7	1,232.7	0.00	0.00	
8,400.0	90.00	180.00	7,340.0	-1,332.7	404.7	1,332.7	0.00	0.00	
8,500.0	90.00	180.00	7,340.0	-1,432.7	404.7	1,432.7	0.00	0.00	
8,600.0	90.00	180.00	7,340.0	-1,532.7	404.7	1,532.7	0.00	0.00	
8,700.0	90.00	180.00	7,340.0	-1,632.7	404.7	1,632.7	0.00	0.00	
8,800.0	90.00	180.00	7,340.0	-1,732.7	404.7	1,732.7	0.00	0.00	
8,900.0	90.00	180.00	7,340.0	-1,832.7	404.7	1,832.7	0.00	0.00	
9,000.0	90.00	180.00	7,340.0	-1,932.7	404.7	1,932.7	0.00	0.00	
9,100.0	90.00	180.00	7,340.0	-2,032.7	404.7	2,032.7	0.00	0.00	
9,200.0	90.00	180.00	7,340.0	-2,132.7	404.7	2,132.7	0.00	0.00	
9,300.0	90.00	180.00	7,340.0	-2,232.7	404.7	2,232.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4978.0ft
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1F-19H-B2686	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
9,400.0	90.00	180.00	7,340.0	-2,332.7	404.7	2,332.7	0.00	0.00	
9,500.0	90.00	180.00	7,340.0	-2,432.7	404.7	2,432.7	0.00	0.00	
9,600.0	90.00	180.00	7,340.0	-2,532.7	404.7	2,532.7	0.00	0.00	
9,700.0	90.00	180.00	7,340.0	-2,632.7	404.7	2,632.7	0.00	0.00	
9,800.0	90.00	180.00	7,340.0	-2,732.7	404.7	2,732.7	0.00	0.00	
9,900.0	90.00	180.00	7,340.0	-2,832.7	404.7	2,832.7	0.00	0.00	
10,000.0	90.00	180.00	7,340.0	-2,932.7	404.7	2,932.7	0.00	0.00	
10,100.0	90.00	180.00	7,340.0	-3,032.7	404.7	3,032.7	0.00	0.00	
10,200.0	90.00	180.00	7,340.0	-3,132.7	404.7	3,132.7	0.00	0.00	
10,300.0	90.00	180.00	7,340.0	-3,232.7	404.7	3,232.7	0.00	0.00	
10,400.0	90.00	180.00	7,340.0	-3,332.7	404.7	3,332.7	0.00	0.00	
10,500.0	90.00	180.00	7,340.0	-3,432.7	404.7	3,432.7	0.00	0.00	
10,600.0	90.00	180.00	7,340.0	-3,532.7	404.7	3,532.7	0.00	0.00	
10,700.0	90.00	180.00	7,340.0	-3,632.7	404.7	3,632.7	0.00	0.00	
10,800.0	90.00	180.00	7,340.0	-3,732.7	404.7	3,732.7	0.00	0.00	
10,900.0	90.00	180.00	7,340.0	-3,832.7	404.7	3,832.7	0.00	0.00	
11,000.0	90.00	180.00	7,340.0	-3,932.7	404.7	3,932.7	0.00	0.00	
11,100.0	90.00	180.00	7,340.0	-4,032.7	404.7	4,032.7	0.00	0.00	
11,200.0	90.00	180.00	7,340.0	-4,132.7	404.7	4,132.7	0.00	0.00	
11,300.0	90.00	180.00	7,340.0	-4,232.7	404.7	4,232.7	0.00	0.00	
11,400.0	90.00	180.00	7,340.0	-4,332.7	404.7	4,332.7	0.00	0.00	
11,500.0	90.00	180.00	7,340.0	-4,432.7	404.7	4,432.7	0.00	0.00	
11,600.0	90.00	180.00	7,340.0	-4,532.7	404.7	4,532.7	0.00	0.00	
11,700.0	90.00	180.00	7,340.0	-4,632.7	404.7	4,632.7	0.00	0.00	
11,800.0	90.00	180.00	7,340.0	-4,732.7	404.7	4,732.7	0.00	0.00	
11,854.7	90.00	180.00	7,340.0	-4,787.3	404.7	4,787.3	0.00	0.00	TD at 11854.7

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Regnier 1F PBHL	0.00	0.30	7,340.0	-4,787.3	404.7	1,286,187.46	3,128,182.84	40.118061	-105.041682
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
250.0	250.0	Fox Hills - BASE			
4,279.6	4,273.0	Sussex			
4,823.7	4,816.0	Shannon			
6,623.4	6,612.0	Teepee Buttes (*if present)			
7,252.7	7,167.0	Sharon Springs			
7,419.6	7,260.0	Niobrara			
7,641.7	7,330.0	B Chalk			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4978.0ft
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1F-19H-B2686	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)	
900.0	900.0	0.0	0.0	Start Build 2.00
1,082.7	1,082.6	0.4	5.8	Start 5551.2 hold at 1082.7 MD
6,633.9	6,622.5	21.8	358.9	Start DLS 8.00 TFO 93.48
7,761.7	7,340.0	-694.3	404.7	Start 4093.0 hold at 7761.7 MD
11,854.7	7,340.0	-4,787.3	404.7	TD at 11854.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1F-19H-B2686

Hz

Plan #2

Anticollision Report

10 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	12/10/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,854.7	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S18-T2N-R68W (Williams)						
Williams 34-18 (Existing) - DD - DD	6,161.6	6,322.0	840.0	811.6	29.557	CC, ES
Williams 34-18 (Existing) - DD - DD	6,650.0	6,780.8	854.9	824.7	28.306	SF
S19-T2N-R68W (Rasmussen/Regnier)						
HANKINS 1 - ENCANA - NO SURVEYS						Out of range
KENYON 34-19 - ENCANA - ENCANA	11,745.8	7,505.9	609.5	510.1	6.132	CC, ES
KENYON 34-19 - ENCANA - ENCANA	11,800.0	7,505.2	611.9	511.6	6.098	SF
KENYON 4-8-19 - ENCANA - ENCANA						Out of range
KENYON 8-4-19 - ENCANA - SURVEYS						Out of range
KENYON 8-6-19 - ENCANA - SURVEYS						Out of range
KENYON 8-8-19 - ENCANA - SURVEYS						Out of range
LABER 44-24 - ENCANA - NO SURVEYS						Out of range
MABLE M ROSS 1 - AMOCO WELL - NO SURVEYS						Out of range
RASMUSSEN 0-4-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN 0-6-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN 19-11 - ENCANA - GYRO						Out of range
RASMUSSEN 19-12 - ENCANA - NO SURVEYS						Out of range
RASMUSSEN 19-14 - ENCANA - GYRO						Out of range
RASMUSSEN 2-8-19 - ENCANA WELL - SURVEYS						Out of range
Rasmussen 3A-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3B-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3C-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3D-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3E-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3F-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3G-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3H-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3I-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3J-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3K-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3L-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3L-19H-M268 - HZ - Plan #2						Out of range
RASMUSSEN 4-6-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN H UNIT 1 - ENCANA - GYRO						Out of range
Regnier 1A-19H-B268 - Hz - Plan #2	200.0	200.0	50.1	49.4	76.750	CC, ES
Regnier 1A-19H-B268 - Hz - Plan #2	900.0	892.6	103.0	99.6	30.499	SF
Regnier 1B-19H-B268 - Hz - Plan #2	300.0	300.0	40.0	39.0	39.939	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	11,854.7	12,052.8	928.2	760.1	5.523	SF
Regnier 1C-19H-B2689 - Hz - Plan #2	400.0	400.0	30.2	28.9	22.369	CC, ES
Regnier 1C-19H-B2689 - Hz - Plan #2	11,854.7	11,834.3	710.2	537.1	4.104	SF
Regnier 1D-19H-B2688 - Hz - Plan #2	500.0	500.0	20.1	18.4	11.851	CC
Regnier 1D-19H-B2688 - Hz - Plan #2	600.0	599.9	20.5	18.4	10.000	ES
Regnier 1D-19H-B2688 - Hz - Plan #2	11,854.7	11,915.8	459.9	290.5	2.714	SF
Regnier 1E-19H-B2687 - Hz - Plan #2	900.0	900.0	10.1	7.0	3.253	CC, ES
Regnier 1E-19H-B2687 - Hz - Plan #2	11,854.7	12,055.9	319.0	194.0	2.553	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	700.0	700.0	9.8	7.4	4.084	CC, ES
Regnier 1G-19H-B2685 - Hz - Plan #2	11,400.0	11,490.8	157.2	30.6	1.241	Level 2, SF
Regnier 1H-19H-B2684 - Hz - Plan #2	600.0	600.0	19.9	17.8	9.696	CC, ES
Regnier 1H-19H-B2684 - Hz - Plan #2	11,854.7	12,125.7	503.6	348.3	3.242	SF
Regnier 1I-19H-B2683 - Hz - Plan #2	500.0	500.0	29.9	28.2	17.612	CC, ES
Regnier 1I-19H-B2683 - Hz - Plan #2	11,854.7	11,918.2	675.2	502.4	3.907	SF
Regnier 1J-19H-B2682 - Hz - Plan #2	400.0	400.0	40.0	38.7	29.619	CC, ES
Regnier 1J-19H-B2682 - Hz - Plan #2	11,854.7	12,057.8	895.4	723.6	5.211	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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S19-T2N-R68W (Rasmussen/Regnier)						
Regnier 1K-19H-B2681 - Hz - Plan #2	300.0	300.0	49.8	48.8	49.715	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	700.0	690.7	77.1	74.6	30.599	SF
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	59.9	59.2	91.731	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	800.0	779.7	120.8	117.6	37.991	SF
REGNIER FARMS 2 - ENCANA - GYRO	11,289.8	7,353.8	213.4	123.8	2.383	CC, ES
REGNIER FARMS 2 - ENCANA - GYRO	11,300.0	7,353.7	213.6	123.9	2.381	SF
REGNIER FARMS 32-19 - ENCANA - GYRO	8,867.2	7,330.7	705.8	657.7	14.649	CC, ES
REGNIER FARMS 32-19 - ENCANA - GYRO	9,000.0	7,330.6	718.2	667.8	14.257	SF
REGNIER FARMS 33-19 - ENCANA - GYRO	10,187.1	7,340.9	802.1	731.6	11.379	CC
REGNIER FARMS 33-19 - ENCANA - GYRO	10,200.0	7,340.9	802.2	731.5	11.345	ES
REGNIER FARMS 33-19 - ENCANA - GYRO	10,300.0	7,340.6	810.0	737.6	11.184	SF
REGNIER FARMS 42-19 - ENCANA - GYRO	8,845.9	7,324.4	595.2	547.3	12.446	CC, ES
REGNIER FARMS 42-19 - ENCANA - GYRO	9,000.0	7,323.4	614.8	564.4	12.207	SF
REGNIER FARMS 43-19 - ENCANA - SURVEYS	10,333.9	7,573.8	729.4	655.5	9.876	CC, ES
REGNIER FARMS 43-19 - ENCANA - SURVEYS	10,500.0	7,573.2	748.1	671.4	9.752	SF
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	7,914.6	7,328.1	260.3	226.9	7.794	CC, ES, SF
ROSS 0-2-19 - ENCANA - SURVEYS						Out of range
ROSS 11-19 - ENCANA - SURVEYS						Out of range
Ross 12-19 - ENCANA - SURVEYS						Out of range
ROSS 12-19 - ENCANA - SURVEYS						Out of range
ROSS 21-19 - ENCANA - GYRO						Out of range
ROSS 22-19 - ENCANA - NO SURVEYS						Out of range
ROSS 2-4-19 - ENCANA - SURVEYS						Out of range
ROSS 41-24 - ENCANA - NO SURVEYS						Out of range
ROSS 4-2-19 - ENCANA WELL - SURVEYS						Out of range
ROSS F 1 - ENCANA - GYRO						Out of range
STROMQUIST 43-24 - ENCANA - NO SURVEYS						Out of range

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S18-T2N-R68W (Williams) - Williams 34-18 (Existing) - DD - DD													Offset Site Error: 0.0 ft	
Survey Program: 847-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		
4,700.0	4,692.5	5,011.2	4,881.4	9.2	19.2	-111.38	907.7	-166.0	999.0	978.4	20.57	48.557		
4,800.0	4,792.3	5,115.1	4,982.7	9.4	19.6	-112.32	884.8	-166.2	981.3	960.1	21.18	46.327		
4,900.0	4,892.1	5,200.0	5,065.7	9.6	20.0	-113.08	866.8	-166.0	964.3	942.6	21.71	44.422		
5,000.0	4,991.9	5,294.2	5,157.9	9.8	20.3	-113.91	847.9	-165.7	948.5	926.3	22.28	42.580		
5,100.0	5,091.7	5,397.4	5,258.9	10.0	20.8	-114.90	826.2	-165.7	932.3	909.4	22.91	40.699		
5,200.0	5,191.5	5,489.2	5,348.7	10.2	21.1	-115.78	807.3	-165.6	916.8	893.3	23.50	39.017		
5,300.0	5,291.3	5,586.4	5,443.8	10.4	21.5	-116.77	787.5	-165.8	901.8	877.6	24.12	37.381		
5,400.0	5,391.1	5,678.3	5,533.8	10.6	21.9	-117.70	769.1	-165.6	887.1	862.4	24.72	35.880		
5,500.0	5,490.9	5,751.5	5,605.9	10.8	22.1	-118.43	755.7	-165.7	874.5	849.2	25.24	34.644		
5,600.0	5,590.7	5,831.0	5,684.4	11.0	22.4	-119.21	743.4	-166.7	864.9	839.1	25.78	33.553		
5,700.0	5,690.5	5,920.9	5,773.5	11.3	22.6	-120.02	731.1	-167.2	856.8	830.5	26.32	32.548		
5,800.0	5,790.3	6,002.2	5,854.2	11.5	22.8	-120.65	722.1	-167.2	850.7	823.9	26.80	31.742		
5,900.0	5,890.1	6,096.5	5,948.1	11.7	23.0	-121.32	713.3	-166.9	846.1	818.8	27.30	30.994		
6,000.0	5,989.9	6,183.8	6,035.1	11.9	23.2	-121.90	706.1	-166.5	842.3	814.6	27.75	30.349		
6,100.0	6,089.7	6,270.6	6,121.8	12.1	23.3	-122.41	700.7	-166.1	840.4	812.2	28.18	29.818		
6,161.6	6,151.2	6,322.0	6,173.1	12.2	23.4	-122.67	698.4	-165.7	840.0	811.6	28.42	29.557 CC, ES		
6,200.0	6,189.5	6,353.5	6,204.5	12.3	23.4	-122.80	697.4	-165.4	840.2	811.6	28.56	29.418		
6,300.0	6,289.3	6,437.8	6,288.9	12.5	23.5	-123.12	696.2	-164.7	842.0	813.1	28.91	29.121		
6,400.0	6,389.1	6,529.0	6,380.0	12.7	23.6	-123.42	696.4	-164.3	845.3	816.1	29.27	28.883		
6,500.0	6,488.9	6,628.5	6,479.6	12.9	23.6	-123.75	696.9	-164.1	849.2	819.6	29.64	28.654		
6,600.0	6,588.7	6,730.2	6,581.3	13.1	23.7	-124.09	697.2	-164.0	852.9	822.9	30.02	28.415		
6,633.9	6,622.5	6,764.5	6,615.6	13.2	23.8	-124.21	697.2	-164.0	854.2	824.0	30.15	28.334		
6,650.0	6,638.6	6,780.8	6,631.9	13.2	23.8	-144.05	697.2	-164.0	854.9	824.7	30.20	28.306 SF		
6,700.0	6,688.4	6,831.4	6,682.4	13.3	23.8	177.78	697.1	-164.0	858.9	828.6	30.33	28.323		
6,750.0	6,737.9	6,882.1	6,733.2	13.4	23.9	163.73	697.0	-164.1	865.6	835.2	30.38	28.488		
6,800.0	6,786.8	6,932.7	6,783.7	13.5	23.9	157.21	696.7	-164.1	874.9	844.5	30.38	28.798		
6,850.0	6,835.0	6,980.3	6,831.3	13.6	24.0	153.45	696.5	-164.0	886.9	856.6	30.32	29.250		
6,900.0	6,882.2	7,025.8	6,876.8	13.7	24.0	150.94	696.3	-164.1	901.6	871.4	30.22	29.839		
6,950.0	6,928.1	7,071.5	6,922.5	13.9	24.0	149.09	696.1	-164.2	919.0	889.0	30.07	30.560		
7,000.0	6,972.5	7,116.6	6,967.7	14.0	24.1	147.61	695.9	-164.4	939.0	909.1	29.90	31.402		
7,050.0	7,015.2	7,160.4	7,011.4	14.1	24.1	146.31	695.7	-164.5	961.6	931.9	29.72	32.351		
7,100.0	7,056.1	7,202.6	7,053.6	14.3	24.2	145.10	695.4	-164.6	986.6	957.0	29.55	33.385		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - KENYON 34-19 - ENCANA - ENCANA													Offset Site Error:	0.0 ft
Survey Program: 92-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,000.0	7,340.0	7,516.2	7,380.0	72.0	22.2	91.13	-4,678.4	-204.8	963.1	876.7	86.46	11.140		
11,100.0	7,340.0	7,514.8	7,378.6	73.7	22.2	91.00	-4,678.4	-204.8	888.0	799.8	88.19	10.069		
11,200.0	7,340.0	7,513.4	7,377.3	75.5	22.2	90.87	-4,678.4	-204.8	818.1	728.2	89.93	9.098		
11,300.0	7,340.0	7,512.1	7,375.9	77.2	22.2	90.74	-4,678.4	-204.8	755.1	663.5	91.66	8.238		
11,400.0	7,340.0	7,510.7	7,374.5	78.9	22.2	90.61	-4,678.4	-204.8	700.8	607.4	93.39	7.503		
11,500.0	7,340.0	7,509.3	7,373.1	80.6	22.2	90.48	-4,678.5	-204.8	657.2	562.1	95.13	6.908		
11,600.0	7,340.0	7,507.9	7,371.8	82.4	22.2	90.35	-4,678.5	-204.8	626.7	529.8	96.87	6.470		
11,700.0	7,340.0	7,506.5	7,370.4	84.1	22.2	90.22	-4,678.5	-204.8	611.2	512.6	98.60	6.199		
11,745.8	7,340.0	7,505.9	7,369.7	84.9	22.2	90.16	-4,678.5	-204.8	609.5	510.1	99.40	6.132 CC, ES		
11,800.0	7,340.0	7,505.2	7,369.0	85.8	22.2	90.09	-4,678.5	-204.8	611.9	511.6	100.34	6.098 SF		
11,854.7	7,340.0	7,504.4	7,368.2	86.8	22.2	90.02	-4,678.5	-204.8	619.1	517.9	101.29	6.113		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink 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	-92.50	-2.2	-50.1	50.1						
100.0	100.0	100.0	100.0	0.2	0.2	-92.50	-2.2	-50.1	50.1	49.8	0.30	164.968			
200.0	200.0	200.0	200.0	0.3	0.3	-92.50	-2.2	-50.1	50.1	49.4	0.65	76.750 CC, ES			
300.0	300.0	298.2	298.2	0.5	0.5	-92.44	-2.2	-51.7	51.8	50.8	1.00	51.690			
400.0	400.0	396.3	396.1	0.7	0.7	-92.31	-2.3	-56.8	56.9	55.6	1.37	41.633			
500.0	500.0	494.4	493.9	0.8	0.9	-92.13	-2.4	-65.1	65.4	63.6	1.76	37.244			
600.0	600.0	593.9	593.0	1.0	1.1	-91.98	-2.6	-74.4	74.8	72.6	2.16	34.687			
700.0	700.0	693.5	692.1	1.2	1.4	-91.86	-2.7	-83.8	84.2	81.6	2.56	32.876			
800.0	800.0	793.0	791.2	1.4	1.6	-91.77	-2.9	-93.1	93.6	90.6	2.97	31.532			
900.0	900.0	892.6	890.3	1.5	1.8	-91.69	-3.0	-102.5	103.0	99.6	3.38	30.499 SF			
1,000.0	1,000.0	992.0	989.3	1.7	2.1	-178.17	-3.2	-111.8	114.1	110.7	3.43	33.307			
1,082.7	1,082.6	1,073.8	1,070.7	1.9	2.3	-178.17	-3.3	-119.5	125.9	122.2	3.71	33.972			
1,100.0	1,099.8	1,090.9	1,087.7	1.9	2.3	-178.18	-3.3	-121.1	128.7	124.9	3.77	34.154			
1,200.0	1,199.6	1,189.7	1,186.1	2.1	2.5	-178.21	-3.5	-130.4	144.4	140.3	4.11	35.104			
1,300.0	1,299.4	1,288.4	1,284.4	2.3	2.8	-178.24	-3.6	-139.7	160.1	155.7	4.46	35.907			
1,400.0	1,399.2	1,387.2	1,382.7	2.5	3.0	-178.26	-3.8	-149.0	175.8	171.0	4.80	36.594			
1,500.0	1,499.0	1,485.9	1,481.0	2.7	3.2	-178.27	-3.9	-158.3	191.6	186.4	5.15	37.190			
1,600.0	1,598.8	1,584.7	1,579.3	2.9	3.5	-178.29	-4.1	-167.5	207.3	201.8	5.50	37.710			
1,700.0	1,698.6	1,683.4	1,677.7	3.1	3.7	-178.30	-4.2	-176.8	223.0	217.2	5.84	38.169			
1,800.0	1,798.4	1,782.2	1,776.0	3.3	3.9	-178.31	-4.4	-186.1	238.7	232.5	6.19	38.577			
1,900.0	1,898.2	1,880.9	1,874.3	3.5	4.2	-178.32	-4.5	-195.4	254.5	247.9	6.53	38.941			
2,000.0	1,998.0	1,979.7	1,972.6	3.7	4.4	-178.33	-4.7	-204.7	270.2	263.3	6.88	39.269			
2,100.0	2,097.8	2,078.5	2,070.9	3.9	4.7	-178.34	-4.8	-214.0	285.9	278.7	7.23	39.566			
2,200.0	2,197.6	2,177.2	2,169.3	4.1	4.9	-178.35	-5.0	-223.2	301.6	294.0	7.57	39.835			
2,300.0	2,297.4	2,276.0	2,267.6	4.3	5.1	-178.35	-5.1	-232.5	317.3	309.4	7.92	40.081			
2,400.0	2,397.2	2,374.7	2,365.9	4.5	5.4	-178.36	-5.3	-241.8	333.1	324.8	8.26	40.306			
2,500.0	2,497.0	2,473.5	2,464.2	4.7	5.6	-178.36	-5.4	-251.1	348.8	340.2	8.61	40.514			
2,600.0	2,596.8	2,572.2	2,562.5	4.9	5.8	-178.37	-5.6	-260.4	364.5	355.6	8.95	40.705			
2,700.0	2,696.6	2,671.0	2,660.8	5.1	6.1	-178.37	-5.7	-269.7	380.2	370.9	9.30	40.882			
2,800.0	2,796.4	2,769.8	2,759.2	5.3	6.3	-178.38	-5.9	-278.9	396.0	386.3	9.65	41.046			
2,900.0	2,896.2	2,868.5	2,857.5	5.5	6.6	-178.38	-6.0	-288.2	411.7	401.7	9.99	41.199			
3,000.0	2,996.0	2,967.3	2,955.8	5.7	6.8	-178.38	-6.2	-297.5	427.4	417.1	10.34	41.342			
3,100.0	3,095.8	3,066.0	3,054.1	5.9	7.0	-178.39	-6.3	-306.8	443.1	432.4	10.68	41.476			
3,200.0	3,195.6	3,164.8	3,152.4	6.1	7.3	-178.39	-6.5	-316.1	458.9	447.8	11.03	41.601			
3,300.0	3,295.4	3,263.5	3,250.8	6.3	7.5	-178.39	-6.6	-325.4	474.6	463.2	11.38	41.719			
3,400.0	3,395.2	3,362.3	3,349.1	6.5	7.7	-178.39	-6.8	-334.6	490.3	478.6	11.72	41.829			
3,500.0	3,495.0	3,461.0	3,447.4	6.7	8.0	-178.40	-6.9	-343.9	506.0	494.0	12.07	41.934			
3,600.0	3,594.8	3,559.8	3,545.7	6.9	8.2	-178.40	-7.1	-353.2	521.7	509.3	12.41	42.032			
3,700.0	3,694.6	3,658.6	3,644.0	7.1	8.4	-178.40	-7.2	-362.5	537.5	524.7	12.76	42.125			
3,800.0	3,794.4	3,757.3	3,742.4	7.3	8.7	-178.40	-7.4	-371.8	553.2	540.1	13.10	42.213			
3,900.0	3,894.1	3,856.1	3,840.7	7.5	8.9	-178.40	-7.5	-381.1	568.9	555.5	13.45	42.297			
4,000.0	3,993.9	3,954.8	3,939.0	7.7	9.2	-178.41	-7.7	-390.3	584.6	570.8	13.80	42.377			
4,100.0	4,093.7	4,053.6	4,037.3	8.0	9.4	-178.41	-7.8	-399.6	600.4	586.2	14.14	42.452			
4,200.0	4,193.5	4,152.3	4,135.6	8.2	9.6	-178.41	-8.0	-408.9	616.1	601.6	14.49	42.524			
4,300.0	4,293.3	4,251.1	4,233.9	8.4	9.9	-178.41	-8.1	-418.2	631.8	617.0	14.83	42.593			
4,400.0	4,393.1	4,349.8	4,332.3	8.6	10.1	-178.41	-8.3	-427.5	647.5	632.3	15.18	42.658			
4,500.0	4,492.9	4,448.6	4,430.6	8.8	10.3	-178.41	-8.4	-436.7	663.3	647.7	15.53	42.721			
4,600.0	4,592.7	4,547.4	4,528.9	9.0	10.6	-178.41	-8.6	-446.0	679.0	663.1	15.87	42.781			
4,700.0	4,692.5	4,646.1	4,627.2	9.2	10.8	-178.42	-8.7	-455.3	694.7	678.5	16.22	42.838			
4,800.0	4,792.3	4,744.9	4,725.5	9.4	11.1	-178.42	-8.9	-464.6	710.4	693.9	16.56	42.893			
4,900.0	4,892.1	4,843.6	4,823.9	9.6	11.3	-178.42	-9.0	-473.9	726.1	709.2	16.91	42.946			
5,000.0	4,991.9	4,942.4	4,922.2	9.8	11.5	-178.42	-9.2	-483.2	741.9	724.6	17.25	42.997			

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,041.1	5,020.5	10.0	11.8	-178.42	-9.3	-492.4	757.6	740.0	17.60	43.045		
5,200.0	5,191.5	5,139.9	5,118.8	10.2	12.0	-178.42	-9.5	-501.7	773.3	755.4	17.95	43.092		
5,300.0	5,291.3	5,238.7	5,217.1	10.4	12.2	-178.42	-9.6	-511.0	789.0	770.7	18.29	43.137		
5,400.0	5,391.1	5,337.4	5,315.5	10.6	12.5	-178.42	-9.8	-520.3	804.8	786.1	18.64	43.180		
5,500.0	5,490.9	5,436.2	5,413.8	10.8	12.7	-178.42	-9.9	-529.6	820.5	801.5	18.98	43.222		
5,600.0	5,590.7	5,534.9	5,512.1	11.0	12.9	-178.43	-10.1	-538.9	836.2	816.9	19.33	43.262		
5,700.0	5,690.5	5,633.7	5,610.4	11.3	13.2	-178.43	-10.2	-548.1	851.9	832.3	19.67	43.301		
5,800.0	5,790.3	5,732.4	5,708.7	11.5	13.4	-178.43	-10.4	-557.4	867.7	847.6	20.02	43.338		
5,900.0	5,890.1	5,831.2	5,807.0	11.7	13.7	-178.43	-10.5	-566.7	883.4	863.0	20.37	43.375		
6,000.0	5,989.9	5,929.9	5,905.4	11.9	13.9	-178.43	-10.7	-576.0	899.1	878.4	20.71	43.410		
6,100.0	6,089.7	6,028.7	6,003.7	12.1	14.1	-178.43	-10.8	-585.3	914.8	893.8	21.06	43.443		
6,200.0	6,189.5	6,127.5	6,102.0	12.3	14.4	-178.43	-11.0	-594.6	930.5	909.1	21.40	43.476		
6,300.0	6,289.3	6,226.2	6,200.3	12.5	14.6	-178.43	-11.1	-603.8	946.3	924.5	21.75	43.508		
6,400.0	6,389.1	6,325.0	6,298.6	12.7	14.8	-178.43	-11.3	-613.1	962.0	939.9	22.10	43.539		
6,500.0	6,488.9	6,423.7	6,397.0	12.9	15.1	-178.43	-11.4	-622.4	977.7	955.3	22.44	43.568		
6,600.0	6,588.7	6,522.5	6,495.3	13.1	15.3	-178.43	-11.6	-631.7	993.4	970.7	22.79	43.597		
6,633.9	6,622.5	6,556.0	6,528.6	13.2	15.4	-178.43	-11.6	-634.8	998.8	975.9	22.90	43.607		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink 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	-92.08	-1.4	-40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.08	-1.4	-40.0	40.0	39.7	0.30	131.751		
200.0	200.0	200.0	200.0	0.3	0.3	-92.08	-1.4	-40.0	40.0	39.4	0.65	61.296		
300.0	300.0	300.0	300.0	0.5	0.5	-92.08	-1.4	-40.0	40.0	39.0	1.00	39.939 CC, ES		
400.0	400.0	398.6	398.6	0.7	0.7	-92.03	-1.5	-41.7	41.7	40.4	1.35	30.887		
500.0	500.0	497.2	497.0	0.8	0.9	-91.90	-1.5	-46.7	46.8	45.1	1.71	27.368		
600.0	600.0	597.0	596.6	1.0	1.1	-91.77	-1.6	-53.0	53.2	51.1	2.08	25.552		
700.0	700.0	696.8	696.2	1.2	1.3	-91.68	-1.7	-59.4	59.5	57.1	2.45	24.249		
800.0	800.0	796.6	795.8	1.4	1.5	-91.60	-1.8	-65.7	65.9	63.0	2.83	23.273		
900.0	900.0	896.4	895.4	1.5	1.7	-91.53	-1.9	-72.0	72.2	69.0	3.21	22.516		
1,000.0	1,000.0	996.0	994.9	1.7	1.9	-178.03	-2.0	-78.3	80.3	76.8	3.44	23.367		
1,082.7	1,082.6	1,078.2	1,076.9	1.9	2.0	-178.08	-2.1	-83.5	89.6	85.9	3.72	24.093		
1,100.0	1,099.8	1,095.4	1,094.0	1.9	2.1	-178.09	-2.1	-84.6	91.8	88.0	3.78	24.291		
1,200.0	1,199.6	1,194.6	1,193.0	2.1	2.3	-178.16	-2.2	-90.9	104.4	100.3	4.12	25.321		
1,300.0	1,299.4	1,293.8	1,292.0	2.3	2.5	-178.22	-2.3	-97.2	117.1	112.7	4.47	26.192		
1,400.0	1,399.2	1,393.0	1,391.0	2.5	2.7	-178.26	-2.4	-103.5	129.8	125.0	4.82	26.937		
1,500.0	1,499.0	1,492.2	1,490.0	2.7	2.9	-178.30	-2.5	-109.8	142.5	137.3	5.17	27.582		
1,600.0	1,598.8	1,591.3	1,589.0	2.9	3.1	-178.33	-2.6	-116.1	155.2	149.7	5.51	28.146		
1,700.0	1,698.6	1,690.5	1,688.0	3.1	3.3	-178.36	-2.7	-122.3	167.9	162.0	5.86	28.644		
1,800.0	1,798.4	1,789.7	1,787.0	3.3	3.5	-178.38	-2.8	-128.6	180.5	174.3	6.21	29.086		
1,900.0	1,898.2	1,888.9	1,886.0	3.5	3.7	-178.40	-2.9	-134.9	193.2	186.7	6.55	29.481		
2,000.0	1,998.0	1,988.1	1,985.0	3.7	3.9	-178.42	-3.0	-141.2	205.9	199.0	6.90	29.836		
2,100.0	2,097.8	2,087.3	2,084.0	3.9	4.1	-178.44	-3.0	-147.5	218.6	211.3	7.25	30.157		
2,200.0	2,197.6	2,186.5	2,183.0	4.1	4.3	-178.45	-3.1	-153.8	231.3	223.7	7.59	30.449		
2,300.0	2,297.4	2,285.7	2,281.9	4.3	4.5	-178.46	-3.2	-160.1	243.9	236.0	7.94	30.716		
2,400.0	2,397.2	2,384.9	2,380.9	4.5	4.7	-178.47	-3.3	-166.3	256.6	248.3	8.29	30.960		
2,500.0	2,497.0	2,484.1	2,479.9	4.7	4.9	-178.48	-3.4	-172.6	269.3	260.7	8.64	31.185		
2,600.0	2,596.8	2,583.3	2,578.9	4.9	5.1	-178.49	-3.5	-178.9	282.0	273.0	8.98	31.392		
2,700.0	2,696.6	2,682.5	2,677.9	5.1	5.3	-178.50	-3.6	-185.2	294.7	285.3	9.33	31.584		
2,800.0	2,796.4	2,781.7	2,776.9	5.3	5.5	-178.51	-3.7	-191.5	307.3	297.7	9.68	31.762		
2,900.0	2,896.2	2,880.8	2,875.9	5.5	5.7	-178.51	-3.8	-197.8	320.0	310.0	10.02	31.928		
3,000.0	2,996.0	2,980.0	2,974.9	5.7	5.9	-178.52	-3.9	-204.1	332.7	322.3	10.37	32.082		
3,100.0	3,095.8	3,079.2	3,073.9	5.9	6.1	-178.53	-4.0	-210.3	345.4	334.7	10.72	32.227		
3,200.0	3,195.6	3,178.4	3,172.9	6.1	6.4	-178.53	-4.1	-216.6	358.1	347.0	11.06	32.363		
3,300.0	3,295.4	3,277.6	3,271.9	6.3	6.6	-178.54	-4.2	-222.9	370.8	359.3	11.41	32.490		
3,400.0	3,395.2	3,376.8	3,370.9	6.5	6.8	-178.54	-4.3	-229.2	383.4	371.7	11.76	32.610		
3,500.0	3,495.0	3,476.0	3,469.9	6.7	7.0	-178.55	-4.4	-235.5	396.1	384.0	12.11	32.723		
3,600.0	3,594.8	3,575.2	3,568.9	6.9	7.2	-178.55	-4.4	-241.8	408.8	396.3	12.45	32.829		
3,700.0	3,694.6	3,674.4	3,667.9	7.1	7.4	-178.56	-4.5	-248.1	421.5	408.7	12.80	32.930		
3,800.0	3,794.4	3,773.6	3,766.8	7.3	7.6	-178.56	-4.6	-254.3	434.2	421.0	13.15	33.026		
3,900.0	3,894.1	3,872.8	3,865.8	7.5	7.8	-178.56	-4.7	-260.6	446.8	433.3	13.49	33.117		
4,000.0	3,993.9	3,972.0	3,964.8	7.7	8.0	-178.57	-4.8	-266.9	459.5	445.7	13.84	33.203		
4,100.0	4,093.7	4,071.2	4,063.8	8.0	8.2	-178.57	-4.9	-273.2	472.2	458.0	14.19	33.285		
4,200.0	4,193.5	4,170.4	4,162.8	8.2	8.4	-178.57	-5.0	-279.5	484.9	470.4	14.53	33.363		
4,300.0	4,293.3	4,269.5	4,261.8	8.4	8.6	-178.58	-5.1	-285.8	497.6	482.7	14.88	33.437		
4,400.0	4,393.1	4,368.7	4,360.8	8.6	8.8	-178.58	-5.2	-292.1	510.2	495.0	15.23	33.508		
4,500.0	4,492.9	4,467.9	4,459.8	8.8	9.0	-178.58	-5.3	-298.3	522.9	507.4	15.57	33.576		
4,600.0	4,592.7	4,567.1	4,558.8	9.0	9.2	-178.58	-5.4	-304.6	535.6	519.7	15.92	33.641		
4,700.0	4,692.5	4,666.3	4,657.8	9.2	9.4	-178.59	-5.5	-310.9	548.3	532.0	16.27	33.703		
4,800.0	4,792.3	4,765.5	4,756.8	9.4	9.6	-178.59	-5.6	-317.2	561.0	544.4	16.62	33.762		
4,900.0	4,892.1	4,864.7	4,855.8	9.6	9.8	-178.59	-5.7	-323.5	573.7	556.7	16.96	33.819		
5,000.0	4,991.9	4,963.9	4,954.8	9.8	10.0	-178.59	-5.8	-329.8	586.3	569.0	17.31	33.874		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,063.1	5,053.8	10.0	10.2	-178.59	-5.8	-336.1	599.0	581.4	17.66	33.927		
5,200.0	5,191.5	5,162.3	5,152.7	10.2	10.5	-178.60	-5.9	-342.3	611.7	593.7	18.00	33.977		
5,300.0	5,291.3	5,261.5	5,251.7	10.4	10.7	-178.60	-6.0	-348.6	624.4	606.0	18.35	34.026		
5,400.0	5,391.1	5,360.7	5,350.7	10.6	10.9	-178.60	-6.1	-354.9	637.1	618.4	18.70	34.073		
5,500.0	5,490.9	5,459.9	5,449.7	10.8	11.1	-178.60	-6.2	-361.2	649.7	630.7	19.04	34.118		
5,600.0	5,590.7	5,559.1	5,548.7	11.0	11.3	-178.60	-6.3	-367.5	662.4	643.0	19.39	34.162		
5,700.0	5,690.5	5,658.2	5,647.7	11.3	11.5	-178.60	-6.4	-373.8	675.1	655.4	19.74	34.204		
5,800.0	5,790.3	5,757.4	5,746.7	11.5	11.7	-178.61	-6.5	-380.1	687.8	667.7	20.08	34.244		
5,900.0	5,890.1	5,856.6	5,845.7	11.7	11.9	-178.61	-6.6	-386.3	700.5	680.0	20.43	34.283		
6,000.0	5,989.9	5,955.8	5,944.7	11.9	12.1	-178.61	-6.7	-392.6	713.2	692.4	20.78	34.321		
6,100.0	6,089.7	6,055.0	6,043.7	12.1	12.3	-178.61	-6.8	-398.9	725.8	704.7	21.13	34.358		
6,200.0	6,189.5	6,154.2	6,142.7	12.3	12.5	-178.61	-6.9	-405.2	738.5	717.0	21.47	34.393		
6,300.0	6,289.3	6,253.4	6,241.7	12.5	12.7	-178.61	-7.0	-411.5	751.2	729.4	21.82	34.428		
6,400.0	6,389.1	6,352.6	6,340.7	12.7	12.9	-178.61	-7.1	-417.8	763.9	741.7	22.17	34.461		
6,500.0	6,488.9	6,451.8	6,439.7	12.9	13.1	-178.61	-7.2	-424.1	776.6	754.0	22.51	34.493		
6,600.0	6,588.7	6,551.0	6,538.7	13.1	13.3	-178.62	-7.2	-430.3	789.2	766.4	22.86	34.525		
6,633.9	6,622.5	6,584.6	6,572.2	13.2	13.4	-178.62	-7.3	-432.5	793.5	770.6	22.98	34.535		
6,650.0	6,638.6	6,600.6	6,588.2	13.2	13.4	161.48	-7.3	-433.5	795.6	772.5	23.03	34.538		
6,700.0	6,688.4	6,650.1	6,637.6	13.3	13.5	123.28	-7.3	-436.6	801.8	778.6	23.21	34.544		
6,750.0	6,737.9	6,699.3	6,686.7	13.4	13.6	109.44	-7.4	-439.7	807.9	784.5	23.39	34.545		
6,800.0	6,786.8	6,748.0	6,735.3	13.5	13.7	103.35	-7.4	-442.8	813.9	790.4	23.56	34.542		
6,850.0	6,835.0	6,795.9	6,783.1	13.6	13.8	100.26	-7.5	-445.9	820.0	796.3	23.74	34.538		
6,900.0	6,882.2	6,842.8	6,829.8	13.7	13.9	98.63	-7.5	-448.8	826.2	802.3	23.92	34.537		
6,950.0	6,928.1	6,889.7	6,876.7	13.9	14.0	97.86	-8.0	-451.8	832.7	808.6	24.11	34.538		
7,000.0	6,972.5	6,938.6	6,925.4	14.0	14.1	97.55	-11.4	-454.9	839.4	815.1	24.31	34.529		
7,050.0	7,015.2	6,989.0	6,975.1	14.1	14.2	97.51	-18.4	-458.0	846.4	821.8	24.53	34.498		
7,100.0	7,056.1	7,041.0	7,025.9	14.3	14.3	97.67	-29.2	-461.3	853.5	828.8	24.79	34.436		
7,150.0	7,094.8	7,094.7	7,077.4	14.5	14.5	97.96	-44.3	-464.5	860.8	835.8	25.08	34.327		
7,200.0	7,131.2	7,150.5	7,129.4	14.8	14.6	98.35	-64.0	-467.8	868.2	842.8	25.42	34.160		
7,250.0	7,165.2	7,208.3	7,181.6	15.0	14.8	98.81	-88.6	-471.2	875.6	849.7	25.82	33.915		
7,300.0	7,196.6	7,268.4	7,233.6	15.3	15.0	99.33	-118.6	-474.5	882.8	856.5	26.29	33.582		
7,350.0	7,225.1	7,330.9	7,284.7	15.7	15.2	99.89	-154.3	-477.7	889.9	863.1	26.85	33.150		
7,400.0	7,250.8	7,396.0	7,334.5	16.0	15.5	100.47	-196.0	-480.9	896.8	869.3	27.50	32.610		
7,450.0	7,273.4	7,463.6	7,382.0	16.4	15.8	101.06	-244.1	-483.9	903.2	875.0	28.27	31.949		
7,500.0	7,292.8	7,534.0	7,426.4	16.9	16.3	101.65	-298.6	-486.7	909.2	880.0	29.16	31.175		
7,550.0	7,309.0	7,607.0	7,466.6	17.4	16.8	102.22	-359.4	-489.3	914.5	884.4	30.19	30.295		
7,600.0	7,321.9	7,682.5	7,501.5	17.9	17.4	102.74	-426.3	-491.5	919.2	887.8	31.35	29.316		
7,650.0	7,331.3	7,760.4	7,529.8	18.4	18.1	103.22	-498.8	-493.3	923.0	890.3	32.65	28.265		
7,700.0	7,337.4	7,840.2	7,550.6	19.0	19.0	103.62	-575.8	-494.6	925.8	891.7	34.09	27.161		
7,750.0	7,339.9	7,921.6	7,562.8	19.6	19.9	103.94	-656.2	-495.4	927.6	892.0	35.64	26.031		
7,761.7	7,340.0	7,940.7	7,564.4	19.8	20.1	104.00	-675.3	-495.5	927.9	891.9	36.01	25.767		
7,800.0	7,340.0	7,998.1	7,566.0	20.2	20.8	104.09	-732.7	-495.6	928.2	891.0	37.22	24.938		
7,900.0	7,340.0	8,098.1	7,566.0	21.5	22.0	104.09	-832.7	-495.6	928.2	888.3	39.87	23.281		
8,000.0	7,340.0	8,198.1	7,566.0	22.9	23.4	104.09	-932.7	-495.6	928.2	885.6	42.62	21.776		
8,100.0	7,340.0	8,298.1	7,566.0	24.3	24.7	104.09	-1,032.7	-495.6	928.2	882.7	45.47	20.414		
8,200.0	7,340.0	8,398.1	7,566.0	25.7	26.2	104.09	-1,132.7	-495.6	928.2	879.8	48.39	19.183		
8,300.0	7,340.0	8,498.1	7,566.0	27.2	27.6	104.09	-1,232.7	-495.6	928.2	876.8	51.36	18.072		
8,400.0	7,340.0	8,598.1	7,566.0	28.7	29.1	104.09	-1,332.7	-495.6	928.2	873.8	54.39	17.066		
8,500.0	7,340.0	8,698.1	7,566.0	30.3	30.6	104.09	-1,432.7	-495.6	928.2	870.7	57.46	16.155		
8,600.0	7,340.0	8,798.1	7,566.0	31.8	32.2	104.09	-1,532.7	-495.6	928.2	867.6	60.56	15.326		
8,700.0	7,340.0	8,898.1	7,566.0	33.4	33.8	104.09	-1,632.7	-495.6	928.2	864.5	63.70	14.572		
8,800.0	7,340.0	8,998.1	7,566.0	35.0	35.3	104.09	-1,732.7	-495.6	928.2	861.3	66.86	13.883		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink 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		
8,900.0	7,340.0	9,098.1	7,566.0	36.6	36.9	104.09	-1,832.7	-495.6	928.2	858.1	70.04	13.252		
9,000.0	7,340.0	9,198.1	7,566.0	38.3	38.5	104.09	-1,932.7	-495.6	928.2	854.9	73.25	12.672		
9,100.0	7,340.0	9,298.1	7,566.0	39.9	40.2	104.09	-2,032.7	-495.6	928.2	851.7	76.47	12.138		
9,200.0	7,340.0	9,398.1	7,566.0	41.5	41.8	104.09	-2,132.7	-495.6	928.2	848.5	79.70	11.645		
9,300.0	7,340.0	9,498.1	7,566.0	43.2	43.4	104.09	-2,232.7	-495.6	928.2	845.2	82.95	11.189		
9,400.0	7,340.0	9,598.1	7,566.0	44.8	45.1	104.09	-2,332.7	-495.6	928.2	842.0	86.21	10.766		
9,500.0	7,340.0	9,698.1	7,566.0	46.5	46.8	104.09	-2,432.7	-495.6	928.2	838.7	89.49	10.372		
9,600.0	7,340.0	9,798.1	7,566.0	48.2	48.4	104.09	-2,532.7	-495.6	928.2	835.4	92.77	10.005		
9,700.0	7,340.0	9,898.1	7,566.0	49.9	50.1	104.09	-2,632.7	-495.6	928.2	832.1	96.06	9.663		
9,800.0	7,340.0	9,998.1	7,566.0	51.6	51.8	104.09	-2,732.7	-495.6	928.2	828.8	99.36	9.342		
9,900.0	7,340.0	10,098.1	7,566.0	53.2	53.5	104.09	-2,832.7	-495.6	928.2	825.5	102.66	9.041		
10,000.0	7,340.0	10,198.1	7,566.0	54.9	55.1	104.09	-2,932.7	-495.6	928.2	822.2	105.97	8.759		
10,100.0	7,340.0	10,298.1	7,566.0	56.6	56.8	104.09	-3,032.7	-495.6	928.2	818.9	109.29	8.493		
10,200.0	7,340.0	10,398.1	7,566.0	58.3	58.5	104.09	-3,132.7	-495.6	928.2	815.6	112.61	8.242		
10,300.0	7,340.0	10,498.1	7,566.0	60.0	60.2	104.09	-3,232.7	-495.6	928.2	812.2	115.94	8.006		
10,400.0	7,340.0	10,598.1	7,566.0	61.7	61.9	104.09	-3,332.7	-495.6	928.2	808.9	119.27	7.782		
10,500.0	7,340.0	10,698.1	7,566.0	63.4	63.6	104.09	-3,432.7	-495.6	928.2	805.6	122.60	7.571		
10,600.0	7,340.0	10,798.1	7,566.0	65.2	65.3	104.09	-3,532.7	-495.6	928.2	802.2	125.94	7.370		
10,700.0	7,340.0	10,898.1	7,566.0	66.9	67.0	104.09	-3,632.7	-495.6	928.2	798.9	129.29	7.179		
10,800.0	7,340.0	10,998.1	7,566.0	68.6	68.8	104.09	-3,732.7	-495.6	928.2	795.6	132.63	6.998		
10,900.0	7,340.0	11,098.1	7,566.0	70.3	70.5	104.09	-3,832.7	-495.6	928.2	792.2	135.98	6.826		
11,000.0	7,340.0	11,198.1	7,566.0	72.0	72.2	104.09	-3,932.7	-495.6	928.2	788.9	139.33	6.662		
11,100.0	7,340.0	11,298.1	7,566.0	73.7	73.9	104.09	-4,032.7	-495.6	928.2	785.5	142.68	6.505		
11,200.0	7,340.0	11,398.1	7,566.0	75.5	75.6	104.09	-4,132.7	-495.6	928.2	782.1	146.04	6.356		
11,300.0	7,340.0	11,498.1	7,566.0	77.2	77.3	104.09	-4,232.7	-495.6	928.2	778.8	149.40	6.213		
11,400.0	7,340.0	11,598.1	7,566.0	78.9	79.1	104.09	-4,332.7	-495.6	928.2	775.4	152.76	6.076		
11,500.0	7,340.0	11,698.1	7,566.0	80.6	80.8	104.09	-4,432.7	-495.6	928.2	772.1	156.12	5.945		
11,600.0	7,340.0	11,798.1	7,566.0	82.4	82.5	104.09	-4,532.7	-495.6	928.2	768.7	159.48	5.820		
11,700.0	7,340.0	11,898.1	7,566.0	84.1	84.2	104.09	-4,632.7	-495.6	928.2	765.3	162.85	5.700		
11,800.0	7,340.0	11,998.1	7,566.0	85.8	86.0	104.09	-4,732.7	-495.6	928.2	762.0	166.21	5.584		
11,854.7	7,340.0	12,052.8	7,566.0	86.8	86.9	104.09	-4,787.3	-495.6	928.2	760.1	168.06	5.523 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-92.06	-1.1	-30.2	30.2						
100.0	100.0	100.0	100.0	0.2	0.2	-92.06	-1.1	-30.2	30.2	29.9	0.30	99.503			
200.0	200.0	200.0	200.0	0.3	0.3	-92.06	-1.1	-30.2	30.2	29.6	0.65	46.293			
300.0	300.0	300.0	300.0	0.5	0.5	-92.06	-1.1	-30.2	30.2	29.2	1.00	30.163			
400.0	400.0	400.0	400.0	0.7	0.7	-92.06	-1.1	-30.2	30.2	28.9	1.35	22.369 CC, ES			
500.0	500.0	498.9	498.9	0.8	0.8	-91.95	-1.1	-31.9	31.9	30.2	1.70	18.788			
600.0	600.0	598.2	598.0	1.0	1.0	-91.71	-1.1	-36.7	36.8	34.7	2.06	17.884			
700.0	700.0	698.0	697.7	1.2	1.2	-91.50	-1.1	-42.1	42.2	39.8	2.42	17.435			
800.0	800.0	797.9	797.4	1.4	1.4	-91.34	-1.1	-47.5	47.6	44.8	2.79	17.087			
900.0	900.0	897.7	897.1	1.5	1.6	-91.22	-1.1	-52.9	53.0	49.8	3.15	16.810			
1,000.0	1,000.0	997.5	996.7	1.7	1.8	-177.69	-1.1	-58.3	60.1	56.7	3.44	17.492			
1,082.7	1,082.6	1,079.7	1,078.9	1.9	2.0	-177.75	-1.1	-62.7	68.7	64.9	3.72	18.453			
1,100.0	1,099.8	1,096.9	1,096.0	1.9	2.0	-177.77	-1.1	-63.7	70.7	66.9	3.78	18.697			
1,200.0	1,199.6	1,196.2	1,195.2	2.1	2.2	-177.87	-1.2	-69.0	82.5	78.3	4.13	19.970			
1,300.0	1,299.4	1,295.5	1,294.3	2.3	2.4	-177.94	-1.2	-74.4	94.2	89.7	4.48	21.045			
1,400.0	1,399.2	1,394.8	1,393.5	2.5	2.6	-178.00	-1.2	-79.8	106.0	101.1	4.82	21.966			
1,500.0	1,499.0	1,494.1	1,492.7	2.7	2.8	-178.04	-1.2	-85.1	117.7	112.5	5.17	22.763			
1,600.0	1,598.8	1,593.4	1,591.8	2.9	3.0	-178.08	-1.2	-90.5	129.5	123.9	5.52	23.459			
1,700.0	1,698.6	1,692.7	1,691.0	3.1	3.2	-178.11	-1.2	-95.9	141.2	135.3	5.87	24.074			
1,800.0	1,798.4	1,792.0	1,790.2	3.3	3.4	-178.13	-1.2	-101.2	153.0	146.7	6.21	24.619			
1,900.0	1,898.2	1,891.3	1,889.3	3.5	3.6	-178.16	-1.2	-106.6	164.7	158.1	6.56	25.107			
2,000.0	1,998.0	1,990.7	1,988.5	3.7	3.8	-178.18	-1.2	-112.0	176.5	169.5	6.91	25.546			
2,100.0	2,097.8	2,090.0	2,087.6	3.9	3.9	-178.19	-1.2	-117.3	188.2	181.0	7.25	25.943			
2,200.0	2,197.6	2,189.3	2,186.8	4.1	4.1	-178.21	-1.2	-122.7	200.0	192.4	7.60	26.303			
2,300.0	2,297.4	2,288.6	2,286.0	4.3	4.3	-178.22	-1.3	-128.1	211.7	203.8	7.95	26.632			
2,400.0	2,397.2	2,387.9	2,385.1	4.5	4.5	-178.23	-1.3	-133.4	223.5	215.2	8.30	26.934			
2,500.0	2,497.0	2,487.2	2,484.3	4.7	4.7	-178.24	-1.3	-138.8	235.2	226.6	8.64	27.211			
2,600.0	2,596.8	2,586.5	2,583.5	4.9	4.9	-178.25	-1.3	-144.2	247.0	238.0	8.99	27.467			
2,700.0	2,696.6	2,685.8	2,682.6	5.1	5.1	-178.26	-1.3	-149.5	258.7	249.4	9.34	27.704			
2,800.0	2,796.4	2,785.1	2,781.8	5.3	5.3	-178.27	-1.3	-154.9	270.5	260.8	9.69	27.924			
2,900.0	2,896.2	2,884.4	2,880.9	5.5	5.5	-178.28	-1.3	-160.2	282.2	272.2	10.03	28.128			
3,000.0	2,996.0	2,983.7	2,980.1	5.7	5.7	-178.28	-1.3	-165.6	294.0	283.6	10.38	28.319			
3,100.0	3,095.8	3,083.0	3,079.3	5.9	5.9	-178.29	-1.3	-171.0	305.7	295.0	10.73	28.498			
3,200.0	3,195.6	3,182.3	3,178.4	6.1	6.1	-178.29	-1.3	-176.3	317.5	306.4	11.07	28.665			
3,300.0	3,295.4	3,281.6	3,277.6	6.3	6.3	-178.30	-1.3	-181.7	329.2	317.8	11.42	28.823			
3,400.0	3,395.2	3,381.0	3,376.8	6.5	6.5	-178.31	-1.4	-187.1	341.0	329.2	11.77	28.971			
3,500.0	3,495.0	3,480.3	3,475.9	6.7	6.7	-178.31	-1.4	-192.4	352.7	340.6	12.12	29.110			
3,600.0	3,594.8	3,579.6	3,575.1	6.9	6.9	-178.31	-1.4	-197.8	364.5	352.0	12.46	29.242			
3,700.0	3,694.6	3,678.9	3,674.2	7.1	7.1	-178.32	-1.4	-203.2	376.2	363.4	12.81	29.366			
3,800.0	3,794.4	3,778.2	3,773.4	7.3	7.3	-178.32	-1.4	-208.5	388.0	374.8	13.16	29.484			
3,900.0	3,894.1	3,877.5	3,872.6	7.5	7.5	-178.33	-1.4	-213.9	399.7	386.2	13.51	29.596			
4,000.0	3,993.9	3,976.8	3,971.7	7.7	7.7	-178.33	-1.4	-219.3	411.5	397.6	13.85	29.703			
4,100.0	4,093.7	4,076.1	4,070.9	8.0	7.9	-178.33	-1.4	-224.6	423.2	409.0	14.20	29.804			
4,200.0	4,193.5	4,175.4	4,170.0	8.2	8.1	-178.34	-1.4	-230.0	435.0	420.4	14.55	29.900			
4,300.0	4,293.3	4,274.7	4,269.2	8.4	8.3	-178.34	-1.4	-235.4	446.7	431.8	14.89	29.992			
4,400.0	4,393.1	4,374.0	4,368.4	8.6	8.5	-178.34	-1.4	-240.7	458.5	443.2	15.24	30.080			
4,500.0	4,492.9	4,473.3	4,467.5	8.8	8.7	-178.34	-1.5	-246.1	470.2	454.6	15.59	30.163			
4,600.0	4,592.7	4,572.6	4,566.7	9.0	8.9	-178.35	-1.5	-251.5	482.0	466.0	15.94	30.243			
4,700.0	4,692.5	4,671.9	4,665.9	9.2	9.1	-178.35	-1.5	-256.8	493.7	477.4	16.28	30.320			
4,800.0	4,792.3	4,771.3	4,765.0	9.4	9.3	-178.35	-1.5	-262.2	505.5	488.8	16.63	30.393			
4,900.0	4,892.1	4,870.6	4,864.2	9.6	9.5	-178.35	-1.5	-267.6	517.2	500.2	16.98	30.464			
5,000.0	4,991.9	4,969.9	4,963.3	9.8	9.7	-178.35	-1.5	-272.9	529.0	511.7	17.33	30.532			

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,069.2	5,062.5	10.0	9.9	-178.36	-1.5	-278.3	540.7	523.1	17.67	30.597		
5,200.0	5,191.5	5,168.5	5,161.7	10.2	10.0	-178.36	-1.5	-283.7	552.5	534.5	18.02	30.659		
5,300.0	5,291.3	5,267.8	5,260.8	10.4	10.2	-178.36	-1.5	-289.0	564.2	545.9	18.37	30.719		
5,400.0	5,391.1	5,367.1	5,360.0	10.6	10.4	-178.36	-1.5	-294.4	576.0	557.3	18.71	30.777		
5,500.0	5,490.9	5,466.4	5,459.2	10.8	10.6	-178.36	-1.5	-299.8	587.7	568.7	19.06	30.833		
5,600.0	5,590.7	5,565.7	5,558.3	11.0	10.8	-178.37	-1.6	-305.1	599.5	580.1	19.41	30.887		
5,700.0	5,690.5	5,665.0	5,657.5	11.3	11.0	-178.37	-1.6	-310.5	611.2	591.5	19.76	30.938		
5,800.0	5,790.3	5,764.3	5,756.6	11.5	11.2	-178.37	-1.6	-315.9	623.0	602.9	20.10	30.989		
5,900.0	5,890.1	5,863.6	5,855.8	11.7	11.4	-178.37	-1.6	-321.2	634.7	614.3	20.45	31.037		
6,000.0	5,989.9	5,962.9	5,955.0	11.9	11.6	-178.37	-1.6	-326.6	646.5	625.7	20.80	31.084		
6,100.0	6,089.7	6,062.2	6,054.1	12.1	11.8	-178.37	-1.6	-331.9	658.2	637.1	21.15	31.129		
6,200.0	6,189.5	6,161.6	6,153.3	12.3	12.0	-178.37	-1.6	-337.3	670.0	648.5	21.49	31.173		
6,300.0	6,289.3	6,260.9	6,252.5	12.5	12.2	-178.37	-1.6	-342.7	681.7	659.9	21.84	31.215		
6,400.0	6,389.1	6,360.2	6,351.6	12.7	12.4	-178.38	-1.6	-348.0	693.5	671.3	22.19	31.256		
6,500.0	6,488.9	6,459.5	6,450.8	12.9	12.6	-178.38	-1.6	-353.4	705.2	682.7	22.53	31.296		
6,600.0	6,588.7	6,558.8	6,549.9	13.1	12.8	-178.38	-1.6	-358.8	717.0	694.1	22.88	31.335		
6,633.9	6,622.5	6,592.4	6,583.6	13.2	12.9	-178.38	-1.6	-360.6	721.0	698.0	23.00	31.347		
6,650.0	6,638.6	6,608.4	6,599.5	13.2	12.9	161.73	-1.7	-361.5	722.9	699.8	23.06	31.352		
6,700.0	6,688.4	6,657.9	6,648.9	13.3	13.0	123.55	-2.1	-364.1	728.6	705.4	23.23	31.365		
6,750.0	6,737.9	6,707.5	6,698.3	13.4	13.1	109.53	-5.5	-366.7	734.3	710.9	23.41	31.371		
6,800.0	6,786.8	6,757.3	6,747.5	13.5	13.2	103.03	-12.4	-369.2	739.8	716.2	23.59	31.365		
6,850.0	6,835.0	6,807.2	6,796.3	13.6	13.3	99.33	-22.8	-371.6	745.2	721.4	23.78	31.339		
6,900.0	6,882.2	6,857.5	6,844.6	13.7	13.4	96.95	-36.6	-373.8	750.3	726.3	23.98	31.285		
6,950.0	6,928.1	6,907.9	6,891.9	13.9	13.5	95.27	-53.8	-375.9	755.2	731.0	24.21	31.192		
7,000.0	6,972.5	6,958.6	6,938.2	14.0	13.7	94.03	-74.5	-377.9	759.9	735.5	24.47	31.050		
7,050.0	7,015.2	7,009.5	6,983.0	14.1	13.8	93.08	-98.4	-379.7	764.3	739.6	24.78	30.848		
7,100.0	7,056.1	7,060.7	7,026.3	14.3	14.0	92.33	-125.7	-381.3	768.5	743.3	25.13	30.577		
7,150.0	7,094.8	7,112.0	7,067.7	14.5	14.2	91.72	-156.1	-382.7	772.3	746.7	25.55	30.228		
7,200.0	7,131.2	7,163.7	7,107.0	14.8	14.4	91.24	-189.5	-384.0	775.8	749.7	26.03	29.799		
7,250.0	7,165.2	7,215.5	7,143.9	15.0	14.7	90.84	-225.8	-385.0	778.9	752.3	26.60	29.286		
7,300.0	7,196.6	7,267.5	7,178.2	15.3	15.0	90.53	-264.9	-385.9	781.6	754.4	27.24	28.693		
7,350.0	7,225.1	7,319.8	7,209.8	15.7	15.3	90.28	-306.5	-386.5	784.0	756.0	27.98	28.025		
7,400.0	7,250.8	7,372.2	7,238.3	16.0	15.7	90.08	-350.5	-386.9	786.0	757.2	28.80	27.293		
7,450.0	7,273.4	7,424.7	7,263.6	16.4	16.1	89.94	-396.5	-387.1	787.6	757.8	29.71	26.507		
7,500.0	7,292.8	7,477.5	7,285.5	16.9	16.6	89.85	-444.5	-387.0	788.7	758.0	30.71	25.682		
7,550.0	7,309.0	7,530.3	7,303.9	17.4	17.1	89.79	-494.0	-386.7	789.4	757.7	31.79	24.832		
7,600.0	7,321.9	7,583.3	7,318.6	17.9	17.7	89.78	-544.9	-386.1	789.8	756.8	32.95	23.968		
7,650.0	7,331.3	7,636.3	7,329.6	18.4	18.2	89.81	-596.7	-385.4	789.6	755.5	34.18	23.105		
7,700.0	7,337.4	7,689.4	7,336.6	19.0	18.9	89.87	-649.3	-384.4	789.1	753.6	35.46	22.253		
7,750.0	7,339.9	7,742.5	7,339.8	19.6	19.5	89.97	-702.3	-383.2	788.1	751.3	36.79	21.421		
7,761.7	7,340.0	7,754.9	7,340.0	19.8	19.7	90.00	-714.7	-382.9	787.8	750.7	37.11	21.230		
7,800.0	7,340.0	7,793.5	7,340.0	20.2	20.1	90.00	-753.3	-381.8	786.8	748.7	38.14	20.632		
7,900.0	7,340.0	7,893.4	7,340.0	21.5	21.5	90.00	-853.2	-379.2	784.2	743.3	40.90	19.175		
8,000.0	7,340.0	7,993.4	7,340.0	22.9	22.8	90.00	-953.1	-376.6	781.6	737.8	43.76	17.859		
8,100.0	7,340.0	8,093.4	7,340.0	24.3	24.3	90.00	-1,053.1	-374.0	778.9	732.2	46.72	16.674		
8,200.0	7,340.0	8,193.3	7,340.0	25.7	25.7	90.00	-1,153.0	-371.4	776.3	726.6	49.74	15.607		
8,300.0	7,340.0	8,293.3	7,340.0	27.2	27.2	90.00	-1,252.9	-368.8	773.7	720.9	52.83	14.646		
8,400.0	7,340.0	8,393.3	7,340.0	28.7	28.7	90.00	-1,352.9	-366.1	771.1	715.1	55.96	13.778		
8,500.0	7,340.0	8,493.2	7,340.0	30.3	30.3	90.00	-1,452.8	-363.5	768.5	709.3	59.14	12.994		
8,600.0	7,340.0	8,593.2	7,340.0	31.8	31.9	90.00	-1,552.7	-360.9	765.9	703.5	62.35	12.282		
8,700.0	7,340.0	8,693.2	7,340.0	33.4	33.4	90.00	-1,652.7	-358.3	763.2	697.6	65.60	11.635		
8,800.0	7,340.0	8,793.1	7,340.0	35.0	35.0	90.00	-1,752.6	-355.7	760.6	691.8	68.87	11.045		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink 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		
8,900.0	7,340.0	8,893.1	7,340.0	36.6	36.7	90.00	-1,852.5	-353.1	758.0	685.8	72.16	10.505		
9,000.0	7,340.0	8,993.1	7,340.0	38.3	38.3	90.00	-1,952.5	-350.4	755.4	679.9	75.47	10.009		
9,100.0	7,340.0	9,093.0	7,340.0	39.9	39.9	90.00	-2,052.4	-347.8	752.8	674.0	78.80	9.553		
9,200.0	7,340.0	9,193.0	7,340.0	41.5	41.6	90.00	-2,152.3	-345.2	750.2	668.0	82.14	9.133		
9,300.0	7,340.0	9,293.0	7,340.0	43.2	43.2	90.00	-2,252.2	-342.6	747.5	662.0	85.49	8.744		
9,400.0	7,340.0	9,392.9	7,340.0	44.8	44.9	90.00	-2,352.2	-340.0	744.9	656.1	88.86	8.383		
9,500.0	7,340.0	9,492.9	7,340.0	46.5	46.6	90.00	-2,452.1	-337.4	742.3	650.1	92.24	8.047		
9,600.0	7,340.0	9,592.9	7,340.0	48.2	48.3	90.00	-2,552.0	-334.7	739.7	644.1	95.63	7.735		
9,700.0	7,340.0	9,692.8	7,340.0	49.9	49.9	90.00	-2,652.0	-332.1	737.1	638.0	99.02	7.443		
9,800.0	7,340.0	9,792.8	7,340.0	51.6	51.6	90.00	-2,751.9	-329.5	734.4	632.0	102.43	7.170		
9,900.0	7,340.0	9,892.8	7,340.0	53.2	53.3	90.00	-2,851.8	-326.9	731.8	626.0	105.84	6.915		
10,000.0	7,340.0	9,992.7	7,340.0	54.9	55.0	90.00	-2,951.8	-324.3	729.2	620.0	109.25	6.675		
10,100.0	7,340.0	10,092.7	7,340.0	56.6	56.7	90.00	-3,051.7	-321.7	726.6	613.9	112.67	6.449		
10,200.0	7,340.0	10,186.6	7,340.0	58.3	58.3	90.00	-3,145.6	-319.4	724.2	608.2	116.00	6.243		
10,300.0	7,340.0	10,279.7	7,340.0	60.0	59.9	90.00	-3,238.7	-318.4	723.1	603.8	119.31	6.060		
10,400.0	7,340.0	10,379.7	7,340.0	61.7	61.6	90.00	-3,338.7	-317.5	722.2	599.5	122.75	5.884		
10,500.0	7,340.0	10,479.7	7,340.0	63.4	63.3	90.00	-3,438.7	-316.7	721.4	595.2	126.19	5.717		
10,600.0	7,340.0	10,579.7	7,340.0	65.2	65.1	90.00	-3,538.7	-315.9	720.6	591.0	129.63	5.559		
10,700.0	7,340.0	10,679.7	7,340.0	66.9	66.8	90.00	-3,638.7	-315.0	719.8	586.7	133.08	5.409		
10,800.0	7,340.0	10,779.7	7,340.0	68.6	68.5	90.00	-3,738.6	-314.2	718.9	582.4	136.53	5.266		
10,900.0	7,340.0	10,879.7	7,340.0	70.3	70.2	90.00	-3,838.6	-313.4	718.1	578.1	139.98	5.130		
11,000.0	7,340.0	10,979.7	7,340.0	72.0	71.9	90.00	-3,938.6	-312.6	717.3	573.8	143.44	5.001		
11,100.0	7,340.0	11,079.7	7,340.0	73.7	73.7	90.00	-4,038.6	-311.7	716.4	569.5	146.89	4.877		
11,200.0	7,340.0	11,179.7	7,340.0	75.5	75.4	90.00	-4,138.6	-310.9	715.6	565.2	150.35	4.759		
11,300.0	7,340.0	11,279.7	7,340.0	77.2	77.1	90.00	-4,238.6	-310.1	714.8	561.0	153.82	4.647		
11,400.0	7,340.0	11,379.7	7,340.0	78.9	78.8	90.00	-4,338.6	-309.2	713.9	556.7	157.28	4.539		
11,500.0	7,340.0	11,479.7	7,340.0	80.6	80.6	90.00	-4,438.6	-308.4	713.1	552.4	160.75	4.436		
11,600.0	7,340.0	11,579.7	7,340.0	82.4	82.3	90.00	-4,538.6	-307.6	712.3	548.1	164.22	4.337		
11,700.0	7,340.0	11,679.7	7,340.0	84.1	84.0	90.00	-4,638.6	-306.7	711.4	543.8	167.69	4.243		
11,800.0	7,340.0	11,779.7	7,340.0	85.8	85.8	90.00	-4,738.6	-305.9	710.6	539.5	171.16	4.152		
11,854.7	7,340.0	11,834.3	7,340.0	86.8	86.7	90.00	-4,793.2	-305.5	710.2	537.1	173.06	4.104 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-92.06	-0.7	-20.1	20.1						
100.0	100.0	100.0	100.0	0.2	0.2	-92.06	-0.7	-20.1	20.1	19.8	0.30	66.336			
200.0	200.0	200.0	200.0	0.3	0.3	-92.06	-0.7	-20.1	20.1	19.5	0.65	30.862			
300.0	300.0	300.0	300.0	0.5	0.5	-92.06	-0.7	-20.1	20.1	19.1	1.00	20.109			
400.0	400.0	400.0	400.0	0.7	0.7	-92.06	-0.7	-20.1	20.1	18.8	1.35	14.913			
500.0	500.0	500.0	500.0	0.8	0.8	-92.06	-0.7	-20.1	20.1	18.4	1.70	11.851 CC			
600.0	600.0	599.9	599.9	1.0	1.0	-91.96	-0.7	-20.5	20.5	18.4	2.05	10.000 ES			
700.0	700.0	699.9	699.9	1.2	1.2	-91.86	-0.7	-20.8	20.9	18.5	2.40	8.695			
800.0	800.0	799.9	799.9	1.4	1.4	-91.76	-0.7	-21.2	21.2	18.5	2.75	7.722			
900.0	900.0	899.9	899.9	1.5	1.5	-91.66	-0.6	-21.6	21.6	18.5	3.10	6.968			
1,000.0	1,000.0	999.9	999.9	1.7	1.7	-178.23	-0.6	-21.9	23.7	20.2	3.44	6.877			
1,082.7	1,082.6	1,082.5	1,082.5	1.9	1.9	-178.42	-0.6	-22.2	28.1	24.3	3.73	7.525			
1,100.0	1,099.8	1,099.7	1,099.7	1.9	1.9	-178.47	-0.6	-22.3	29.2	25.4	3.79	7.712			
1,200.0	1,199.6	1,199.5	1,199.5	2.1	2.1	-178.68	-0.6	-22.7	36.0	31.8	4.14	8.690			
1,300.0	1,299.4	1,299.3	1,299.3	2.3	2.2	-178.82	-0.5	-23.0	42.7	38.2	4.49	9.515			
1,400.0	1,399.2	1,399.1	1,399.1	2.5	2.4	-178.93	-0.5	-23.4	49.4	44.6	4.83	10.222			
1,500.0	1,499.0	1,498.8	1,498.8	2.7	2.6	-179.01	-0.5	-23.7	56.2	51.0	5.18	10.833			
1,600.0	1,598.8	1,598.6	1,598.6	2.9	2.8	-179.07	-0.5	-24.1	62.9	57.4	5.53	11.368			
1,700.0	1,698.6	1,698.4	1,698.4	3.1	2.9	-179.12	-0.4	-24.5	69.6	63.7	5.88	11.839			
1,800.0	1,798.4	1,798.2	1,798.1	3.3	3.1	-179.17	-0.4	-24.8	76.4	70.1	6.23	12.258			
1,900.0	1,898.2	1,897.9	1,897.9	3.5	3.3	-179.20	-0.4	-25.2	83.1	76.5	6.58	12.632			
2,000.0	1,998.0	1,997.7	1,997.7	3.7	3.5	-179.23	-0.4	-25.6	89.8	82.9	6.93	12.968			
2,100.0	2,097.8	2,097.5	2,097.5	3.9	3.6	-179.26	-0.3	-25.9	96.6	89.3	7.27	13.273			
2,200.0	2,197.6	2,197.2	2,197.2	4.1	3.8	-179.28	-0.3	-26.3	103.3	95.7	7.62	13.549			
2,300.0	2,297.4	2,297.0	2,297.0	4.3	4.0	-179.30	-0.3	-26.6	110.0	102.0	7.97	13.801			
2,400.0	2,397.2	2,396.8	2,396.8	4.5	4.2	-179.32	-0.3	-27.0	116.8	108.4	8.32	14.033			
2,500.0	2,497.0	2,496.6	2,496.5	4.7	4.3	-179.33	-0.2	-27.4	123.5	114.8	8.67	14.245			
2,600.0	2,596.8	2,596.3	2,596.3	4.9	4.5	-179.35	-0.2	-27.7	130.2	121.2	9.02	14.441			
2,700.0	2,696.6	2,696.1	2,696.1	5.1	4.7	-179.36	-0.2	-28.1	137.0	127.6	9.37	14.623			
2,800.0	2,796.4	2,795.9	2,795.9	5.3	4.9	-179.37	-0.2	-28.5	143.7	134.0	9.71	14.791			
2,900.0	2,896.2	2,895.7	2,895.6	5.5	5.0	-179.38	-0.1	-28.8	150.4	140.4	10.06	14.948			
3,000.0	2,996.0	2,995.4	2,995.4	5.7	5.2	-179.39	-0.1	-29.2	157.2	146.7	10.41	15.095			
3,100.0	3,095.8	3,095.2	3,095.2	5.9	5.4	-179.40	-0.1	-29.5	163.9	153.1	10.76	15.231			
3,200.0	3,195.6	3,195.0	3,195.0	6.1	5.6	-179.41	-0.1	-29.9	170.6	159.5	11.11	15.360			
3,300.0	3,295.4	3,294.7	3,294.7	6.3	5.7	-179.41	0.0	-30.3	177.4	165.9	11.46	15.480			
3,400.0	3,395.2	3,394.5	3,394.5	6.5	5.9	-179.42	0.0	-30.6	184.1	172.3	11.81	15.594			
3,500.0	3,495.0	3,494.3	3,494.3	6.7	6.1	-179.43	0.0	-31.0	190.8	178.7	12.15	15.700			
3,600.0	3,594.8	3,594.1	3,594.0	6.9	6.3	-179.43	0.0	-31.4	197.6	185.1	12.50	15.801			
3,700.0	3,694.6	3,693.8	3,693.8	7.1	6.4	-179.44	0.1	-31.7	204.3	191.4	12.85	15.897			
3,800.0	3,794.4	3,793.6	3,793.6	7.3	6.6	-179.44	0.1	-32.1	211.0	197.8	13.20	15.987			
3,900.0	3,894.1	3,893.4	3,893.4	7.5	6.8	-179.45	0.1	-32.4	217.8	204.2	13.55	16.073			
4,000.0	3,993.9	3,993.2	3,993.1	7.7	7.0	-179.45	0.1	-32.8	224.5	210.6	13.90	16.154			
4,100.0	4,093.7	4,092.9	4,092.9	8.0	7.1	-179.46	0.2	-33.2	231.2	217.0	14.24	16.232			
4,200.0	4,193.5	4,192.7	4,192.7	8.2	7.3	-179.46	0.2	-33.5	238.0	223.4	14.59	16.306			
4,300.0	4,293.3	4,292.5	4,292.5	8.4	7.5	-179.46	0.2	-33.9	244.7	229.7	14.94	16.376			
4,400.0	4,393.1	4,392.2	4,392.2	8.6	7.6	-179.47	0.2	-34.3	251.4	236.1	15.29	16.443			
4,500.0	4,492.9	4,492.0	4,492.0	8.8	7.8	-179.47	0.3	-34.6	258.2	242.5	15.64	16.507			
4,600.0	4,592.7	4,591.8	4,591.8	9.0	8.0	-179.47	0.3	-35.0	264.9	248.9	15.99	16.569			
4,700.0	4,692.5	4,691.6	4,691.5	9.2	8.2	-179.48	0.3	-35.3	271.6	255.3	16.34	16.627			
4,800.0	4,792.3	4,791.3	4,791.3	9.4	8.3	-179.48	0.3	-35.7	278.4	261.7	16.68	16.684			
4,900.0	4,892.1	4,891.1	4,891.1	9.6	8.5	-179.48	0.4	-36.1	285.1	268.1	17.03	16.738			
5,000.0	4,991.9	4,990.9	4,990.9	9.8	8.7	-179.49	0.4	-36.4	291.8	274.4	17.38	16.789			

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,090.7	5,090.6	10.0	8.9	-179.49	0.4	-36.8	298.6	280.8	17.73	16.839		
5,200.0	5,191.5	5,190.4	5,190.4	10.2	9.0	-179.49	0.4	-37.1	305.3	287.2	18.08	16.887		
5,300.0	5,291.3	5,290.2	5,290.2	10.4	9.2	-179.49	0.5	-37.5	312.0	293.6	18.43	16.933		
5,400.0	5,391.1	5,390.0	5,389.9	10.6	9.4	-179.50	0.5	-37.9	318.8	300.0	18.78	16.977		
5,500.0	5,490.9	5,489.8	5,489.7	10.8	9.6	-179.50	0.5	-38.2	325.5	306.4	19.12	17.020		
5,600.0	5,590.7	5,589.5	5,589.5	11.0	9.7	-179.50	0.5	-38.6	332.2	312.8	19.47	17.061		
5,700.0	5,690.5	5,689.3	5,689.3	11.3	9.9	-179.50	0.6	-39.0	339.0	319.1	19.82	17.101		
5,800.0	5,790.3	5,789.1	5,789.0	11.5	10.1	-179.50	0.6	-39.3	345.7	325.5	20.17	17.139		
5,900.0	5,890.1	5,888.8	5,888.8	11.7	10.3	-179.51	0.6	-39.7	352.4	331.9	20.52	17.176		
6,000.0	5,989.9	5,988.6	5,988.6	11.9	10.4	-179.51	0.6	-40.0	359.2	338.3	20.87	17.212		
6,100.0	6,089.7	6,088.4	6,088.4	12.1	10.6	-179.51	0.7	-40.4	365.9	344.7	21.22	17.247		
6,200.0	6,189.5	6,188.2	6,188.1	12.3	10.8	-179.51	0.7	-40.8	372.6	351.1	21.56	17.280		
6,300.0	6,289.3	6,287.9	6,287.9	12.5	11.0	-179.51	0.7	-41.1	379.4	357.4	21.91	17.313		
6,400.0	6,389.1	6,387.7	6,387.7	12.7	11.1	-179.51	0.7	-41.5	386.1	363.8	22.26	17.344		
6,500.0	6,488.9	6,487.5	6,487.4	12.9	11.3	-179.52	0.8	-41.9	392.8	370.2	22.61	17.375		
6,600.0	6,588.7	6,587.3	6,587.2	13.1	11.5	-179.52	0.8	-42.2	399.6	376.6	22.96	17.404		
6,633.9	6,622.5	6,621.1	6,621.0	13.2	11.5	-179.52	0.8	-42.3	401.8	378.8	23.08	17.414		
6,650.0	6,638.6	6,637.1	6,637.1	13.2	11.6	160.67	0.8	-42.4	402.9	379.8	23.13	17.418		
6,700.0	6,688.4	6,686.9	6,686.9	13.3	11.7	122.91	0.8	-42.6	406.1	382.8	23.31	17.425		
6,750.0	6,737.9	6,736.1	6,736.1	13.4	11.7	109.71	0.6	-42.8	409.3	385.8	23.48	17.428		
6,800.0	6,786.8	6,785.0	6,784.8	13.5	11.8	104.11	-2.2	-42.9	412.4	388.7	23.66	17.433		
6,850.0	6,835.0	6,834.3	6,833.7	13.6	11.9	101.29	-8.4	-43.1	415.6	391.8	23.84	17.437		
6,900.0	6,882.2	6,884.0	6,882.5	13.7	12.0	99.77	-18.1	-43.3	418.9	394.8	24.02	17.436		
6,950.0	6,928.1	6,934.2	6,931.0	13.9	12.1	98.94	-31.3	-43.5	422.1	397.9	24.23	17.425		
7,000.0	6,972.5	6,985.0	6,978.9	14.0	12.2	98.51	-48.1	-43.6	425.4	401.0	24.45	17.399		
7,050.0	7,015.2	7,036.2	7,025.9	14.1	12.3	98.35	-68.4	-43.8	428.7	404.0	24.71	17.350		
7,100.0	7,056.1	7,088.0	7,071.9	14.3	12.5	98.35	-92.2	-44.0	431.9	406.9	25.01	17.273		
7,150.0	7,094.8	7,140.3	7,116.4	14.5	12.7	98.48	-119.7	-44.1	435.1	409.8	25.36	17.160		
7,200.0	7,131.2	7,193.2	7,159.2	14.8	12.9	98.67	-150.6	-44.3	438.2	412.4	25.77	17.006		
7,250.0	7,165.2	7,246.6	7,200.1	15.0	13.1	98.93	-185.0	-44.4	441.2	415.0	26.25	16.808		
7,300.0	7,196.6	7,300.5	7,238.6	15.3	13.4	99.21	-222.7	-44.6	444.1	417.2	26.81	16.561		
7,350.0	7,225.1	7,354.9	7,274.5	15.7	13.7	99.52	-263.5	-44.7	446.8	419.3	27.47	16.265		
7,400.0	7,250.8	7,409.9	7,307.5	16.0	14.1	99.84	-307.5	-44.8	449.3	421.0	28.22	15.923		
7,450.0	7,273.4	7,465.3	7,337.3	16.4	14.6	100.16	-354.2	-44.9	451.6	422.5	29.06	15.539		
7,500.0	7,292.8	7,521.1	7,363.5	16.9	15.1	100.47	-403.5	-45.0	453.6	423.6	30.00	15.120		
7,550.0	7,309.0	7,577.4	7,386.0	17.4	15.6	100.78	-455.1	-45.1	455.4	424.4	31.04	14.672		
7,600.0	7,321.9	7,634.1	7,404.5	17.9	16.2	101.07	-508.6	-45.2	457.0	424.8	32.17	14.205		
7,650.0	7,331.3	7,691.2	7,418.8	18.4	16.9	101.34	-563.8	-45.2	458.2	424.8	33.38	13.725		
7,700.0	7,337.4	7,748.5	7,428.7	19.0	17.6	101.59	-620.3	-45.3	459.1	424.5	34.68	13.241		
7,750.0	7,339.9	7,806.1	7,434.0	19.6	18.3	101.82	-677.6	-45.3	459.7	423.7	36.04	12.758		
7,761.7	7,340.0	7,819.6	7,434.6	19.8	18.5	101.87	-691.1	-45.3	459.8	423.5	36.36	12.646		
7,800.0	7,340.0	7,861.2	7,435.0	20.2	19.0	101.92	-732.7	-45.3	459.9	422.5	37.39	12.300		
7,900.0	7,340.0	7,961.2	7,435.0	21.5	20.4	101.92	-832.7	-45.3	459.9	419.8	40.07	11.476		
8,000.0	7,340.0	8,061.2	7,435.0	22.9	21.8	101.92	-932.7	-45.3	459.9	417.0	42.86	10.731		
8,100.0	7,340.0	8,161.2	7,435.0	24.3	23.3	101.92	-1,032.7	-45.3	459.9	414.2	45.73	10.057		
8,200.0	7,340.0	8,261.2	7,435.0	25.7	24.8	101.92	-1,132.7	-45.3	459.9	411.2	48.68	9.448		
8,300.0	7,340.0	8,361.2	7,435.0	27.2	26.3	101.92	-1,232.7	-45.3	459.9	408.2	51.68	8.899		
8,400.0	7,340.0	8,461.2	7,435.0	28.7	27.9	101.92	-1,332.7	-45.3	459.9	405.2	54.74	8.402		
8,500.0	7,340.0	8,561.2	7,435.0	30.3	29.5	101.92	-1,432.7	-45.3	459.9	402.1	57.84	7.952		
8,600.0	7,340.0	8,661.2	7,435.0	31.8	31.1	101.92	-1,532.7	-45.3	459.9	398.9	60.97	7.543		
8,700.0	7,340.0	8,761.2	7,435.0	33.4	32.7	101.92	-1,632.7	-45.3	459.9	395.8	64.14	7.171		
8,800.0	7,340.0	8,861.2	7,435.0	35.0	34.3	101.92	-1,732.7	-45.3	459.9	392.6	67.33	6.831		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink 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		
8,900.0	7,340.0	8,961.2	7,435.0	36.6	36.0	101.92	-1,832.7	-45.3	459.9	389.4	70.54	6.520		
9,000.0	7,340.0	9,061.2	7,435.0	38.3	37.6	101.92	-1,932.7	-45.3	459.9	386.1	73.78	6.234		
9,100.0	7,340.0	9,161.2	7,435.0	39.9	39.3	101.92	-2,032.7	-45.3	459.9	382.9	77.03	5.971		
9,200.0	7,340.0	9,261.2	7,435.0	41.5	41.0	101.92	-2,132.7	-45.3	459.9	379.6	80.29	5.728		
9,300.0	7,340.0	9,361.2	7,435.0	43.2	42.6	101.92	-2,232.7	-45.3	459.9	376.3	83.57	5.503		
9,400.0	7,340.0	9,461.2	7,435.0	44.8	44.3	101.92	-2,332.7	-45.3	459.9	373.0	86.86	5.295		
9,500.0	7,340.0	9,561.2	7,435.0	46.5	46.0	101.92	-2,432.7	-45.3	459.9	369.7	90.17	5.101		
9,600.0	7,340.0	9,661.2	7,435.0	48.2	47.7	101.92	-2,532.7	-45.3	459.9	366.4	93.48	4.920		
9,700.0	7,340.0	9,761.2	7,435.0	49.9	49.4	101.92	-2,632.7	-45.3	459.9	363.1	96.80	4.751		
9,800.0	7,340.0	9,861.2	7,435.0	51.6	51.1	101.92	-2,732.7	-45.3	459.9	359.8	100.13	4.593		
9,900.0	7,340.0	9,961.2	7,435.0	53.2	52.8	101.92	-2,832.7	-45.3	459.9	356.4	103.46	4.445		
10,000.0	7,340.0	10,061.2	7,435.0	54.9	54.5	101.92	-2,932.7	-45.3	459.9	353.1	106.80	4.306		
10,100.0	7,340.0	10,161.2	7,435.0	56.6	56.2	101.92	-3,032.7	-45.3	459.9	349.8	110.15	4.175		
10,200.0	7,340.0	10,261.2	7,435.0	58.3	57.9	101.92	-3,132.7	-45.3	459.9	346.4	113.50	4.052		
10,300.0	7,340.0	10,361.2	7,435.0	60.0	59.6	101.92	-3,232.7	-45.3	459.9	343.0	116.86	3.936		
10,400.0	7,340.0	10,461.2	7,435.0	61.7	61.4	101.92	-3,332.7	-45.3	459.9	339.7	120.22	3.826		
10,500.0	7,340.0	10,561.2	7,435.0	63.4	63.1	101.92	-3,432.7	-45.3	459.9	336.3	123.58	3.721		
10,600.0	7,340.0	10,661.2	7,435.0	65.2	64.8	101.92	-3,532.7	-45.3	459.9	333.0	126.95	3.623		
10,700.0	7,340.0	10,761.2	7,435.0	66.9	66.5	101.92	-3,632.7	-45.3	459.9	329.6	130.32	3.529		
10,800.0	7,340.0	10,861.2	7,435.0	68.6	68.2	101.92	-3,732.7	-45.3	459.9	326.2	133.70	3.440		
10,900.0	7,340.0	10,961.2	7,435.0	70.3	70.0	101.92	-3,832.7	-45.3	459.9	322.8	137.08	3.355		
11,000.0	7,340.0	11,061.2	7,435.0	72.0	71.7	101.92	-3,932.7	-45.3	459.9	319.4	140.46	3.274		
11,100.0	7,340.0	11,161.2	7,435.0	73.7	73.4	101.92	-4,032.7	-45.3	459.9	316.1	143.84	3.197		
11,200.0	7,340.0	11,261.2	7,435.0	75.5	75.2	101.92	-4,132.7	-45.3	459.9	312.7	147.23	3.124		
11,300.0	7,340.0	11,361.2	7,435.0	77.2	76.9	101.92	-4,232.7	-45.3	459.9	309.3	150.61	3.054		
11,400.0	7,340.0	11,461.2	7,435.0	78.9	78.6	101.92	-4,332.7	-45.3	459.9	305.9	154.00	2.986		
11,500.0	7,340.0	11,561.2	7,435.0	80.6	80.3	101.92	-4,432.7	-45.3	459.9	302.5	157.39	2.922		
11,600.0	7,340.0	11,661.2	7,435.0	82.4	82.1	101.92	-4,532.7	-45.3	459.9	299.1	160.79	2.860		
11,700.0	7,340.0	11,761.2	7,435.0	84.1	83.8	101.92	-4,632.7	-45.3	459.9	295.7	164.18	2.801		
11,800.0	7,340.0	11,861.2	7,435.0	85.8	85.6	101.92	-4,732.7	-45.3	459.9	292.3	167.58	2.744		
11,854.7	7,340.0	11,915.8	7,435.0	86.8	86.5	101.92	-4,787.3	-45.3	459.9	290.5	169.44	2.714 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-92.05	-0.4	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-92.05	-0.4	-10.1	10.1	9.8	0.30	33.168		
200.0	200.0	200.0	200.0	0.3	0.3	-92.05	-0.4	-10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	-92.05	-0.4	-10.1	10.1	9.1	1.00	10.054		
400.0	400.0	400.0	400.0	0.7	0.7	-92.05	-0.4	-10.1	10.1	8.7	1.35	7.456		
500.0	500.0	500.0	500.0	0.8	0.8	-92.05	-0.4	-10.1	10.1	8.4	1.70	5.925		
600.0	600.0	600.0	600.0	1.0	1.0	-92.05	-0.4	-10.1	10.1	8.0	2.05	4.916		
700.0	700.0	700.0	700.0	1.2	1.2	-92.05	-0.4	-10.1	10.1	7.7	2.40	4.200		
800.0	800.0	800.0	800.0	1.4	1.4	-92.05	-0.4	-10.1	10.1	7.3	2.75	3.667		
900.0	900.0	900.0	900.0	1.5	1.5	-92.05	-0.4	-10.1	10.1	7.0	3.10	3.253 CC, ES		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-178.78	-0.4	-10.1	11.8	8.4	3.44	3.431		
1,082.7	1,082.6	1,082.6	1,082.6	1.9	1.9	-179.09	-0.4	-10.1	15.9	12.2	3.73	4.263		
1,100.0	1,099.8	1,099.8	1,099.8	1.9	1.9	-179.15	-0.4	-10.1	17.0	13.2	3.79	4.486		
1,200.0	1,199.6	1,199.6	1,199.6	2.1	2.1	-179.38	-0.4	-10.1	23.4	19.2	4.14	5.648		
1,300.0	1,299.4	1,299.4	1,299.4	2.3	2.2	-179.51	-0.4	-10.1	29.7	25.3	4.49	6.629		
1,400.0	1,399.2	1,399.2	1,399.2	2.5	2.4	-179.60	-0.4	-10.1	36.1	31.3	4.84	7.469		
1,500.0	1,499.0	1,499.0	1,499.0	2.7	2.6	-179.66	-0.4	-10.1	42.5	37.3	5.18	8.196		
1,600.0	1,598.8	1,598.8	1,598.8	2.9	2.8	-179.70	-0.4	-10.1	48.9	43.3	5.53	8.832		
1,700.0	1,698.6	1,698.6	1,698.6	3.1	2.9	-179.74	-0.4	-10.1	55.2	49.4	5.88	9.392		
1,800.0	1,798.4	1,798.4	1,798.4	3.3	3.1	-179.77	-0.4	-10.1	61.6	55.4	6.23	9.889		
1,900.0	1,898.2	1,898.2	1,898.2	3.5	3.3	-179.79	-0.4	-10.1	68.0	61.4	6.58	10.334		
2,000.0	1,998.0	1,998.0	1,998.0	3.7	3.5	-179.81	-0.4	-10.1	74.4	67.4	6.93	10.734		
2,100.0	2,097.8	2,097.8	2,097.8	3.9	3.6	-179.82	-0.4	-10.1	80.7	73.5	7.28	11.096		
2,200.0	2,197.6	2,197.6	2,197.6	4.1	3.8	-179.83	-0.4	-10.1	87.1	79.5	7.62	11.424		
2,300.0	2,297.4	2,297.4	2,297.4	4.3	4.0	-179.85	-0.4	-10.1	93.5	85.5	7.97	11.724		
2,400.0	2,397.2	2,397.2	2,397.2	4.5	4.2	-179.86	-0.4	-10.1	99.8	91.5	8.32	11.999		
2,500.0	2,497.0	2,497.0	2,497.0	4.7	4.3	-179.86	-0.4	-10.1	106.2	97.5	8.67	12.251		
2,600.0	2,596.8	2,596.8	2,596.8	4.9	4.5	-179.87	-0.4	-10.1	112.6	103.6	9.02	12.485		
2,700.0	2,696.6	2,696.6	2,696.6	5.1	4.7	-179.88	-0.4	-10.1	119.0	109.6	9.37	12.700		
2,800.0	2,796.4	2,796.4	2,796.4	5.3	4.9	-179.88	-0.4	-10.1	125.3	115.6	9.72	12.901		
2,900.0	2,896.2	2,896.2	2,896.2	5.5	5.0	-179.89	-0.4	-10.1	131.7	121.6	10.06	13.087		
3,000.0	2,996.0	2,996.0	2,996.0	5.7	5.2	-179.90	-0.4	-10.1	138.1	127.7	10.41	13.261		
3,100.0	3,095.8	3,095.8	3,095.8	5.9	5.4	-179.90	-0.4	-10.1	144.5	133.7	10.76	13.424		
3,200.0	3,195.6	3,195.6	3,195.6	6.1	5.6	-179.90	-0.4	-10.1	150.8	139.7	11.11	13.576		
3,300.0	3,295.4	3,295.4	3,295.4	6.3	5.7	-179.91	-0.4	-10.1	157.2	145.7	11.46	13.719		
3,400.0	3,395.2	3,395.2	3,395.2	6.5	5.9	-179.91	-0.4	-10.1	163.6	151.8	11.81	13.854		
3,500.0	3,495.0	3,495.0	3,495.0	6.7	6.1	-179.91	-0.4	-10.1	170.0	157.8	12.16	13.981		
3,600.0	3,594.8	3,594.8	3,594.8	6.9	6.3	-179.92	-0.4	-10.1	176.3	163.8	12.50	14.101		
3,700.0	3,694.6	3,694.6	3,694.6	7.1	6.4	-179.92	-0.4	-10.1	182.7	169.8	12.85	14.214		
3,800.0	3,794.4	3,794.4	3,794.4	7.3	6.6	-179.92	-0.4	-10.1	189.1	175.9	13.20	14.322		
3,900.0	3,894.1	3,894.1	3,894.1	7.5	6.8	-179.93	-0.4	-10.1	195.4	181.9	13.55	14.424		
4,000.0	3,993.9	3,993.9	3,993.9	7.7	6.9	-179.93	-0.4	-10.1	201.8	187.9	13.90	14.521		
4,100.0	4,093.7	4,101.0	4,101.0	8.0	7.1	-179.94	-0.3	-8.3	206.5	192.3	14.26	14.484		
4,200.0	4,193.5	4,205.0	4,204.8	8.2	7.3	-179.98	-0.1	-3.2	208.0	193.3	14.62	14.228		
4,300.0	4,293.3	4,305.0	4,304.7	8.4	7.5	179.98	0.1	2.3	208.9	193.9	14.97	13.959		
4,400.0	4,393.1	4,405.0	4,404.5	8.6	7.7	179.94	0.3	7.7	209.9	194.5	15.31	13.703		
4,500.0	4,492.9	4,505.0	4,504.4	8.8	7.9	179.90	0.4	13.1	210.8	195.1	15.66	13.458		
4,600.0	4,592.7	4,605.0	4,604.2	9.0	8.0	179.86	0.6	18.5	211.7	195.7	16.01	13.223		
4,700.0	4,692.5	4,705.0	4,704.1	9.2	8.2	179.83	0.8	24.0	212.7	196.3	16.36	12.999		
4,800.0	4,792.3	4,805.0	4,803.9	9.4	8.4	179.79	1.0	29.4	213.6	196.9	16.71	12.784		
4,900.0	4,892.1	4,904.9	4,903.8	9.6	8.6	179.75	1.2	34.8	214.6	197.5	17.06	12.577		
5,000.0	4,991.9	5,004.9	5,003.6	9.8	8.8	179.71	1.4	40.3	215.5	198.1	17.41	12.379		

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

Cathedral Energy Services

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Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink 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	Separation Factor		
5,100.0	5,091.7	5,104.9	5,103.5	10.0	8.9	179.68	1.6	45.7	216.5	198.7	17.76	12.189		
5,200.0	5,191.5	5,204.9	5,203.3	10.2	9.1	179.64	1.7	51.1	217.4	199.3	18.11	12.006		
5,300.0	5,291.3	5,304.9	5,303.2	10.4	9.3	179.61	1.9	56.5	218.4	199.9	18.46	11.830		
5,400.0	5,391.1	5,404.9	5,403.0	10.6	9.5	179.57	2.1	62.0	219.3	200.5	18.81	11.661		
5,500.0	5,490.9	5,504.9	5,502.9	10.8	9.7	179.54	2.3	67.4	220.3	201.1	19.16	11.498		
5,600.0	5,590.7	5,604.9	5,602.7	11.0	9.9	179.50	2.5	72.8	221.2	201.7	19.51	11.340		
5,700.0	5,690.5	5,704.9	5,702.5	11.3	10.1	179.47	2.7	78.3	222.2	202.3	19.86	11.188		
5,800.0	5,790.3	5,804.9	5,802.4	11.5	10.2	179.43	2.9	83.7	223.1	202.9	20.21	11.042		
5,900.0	5,890.1	5,904.9	5,902.2	11.7	10.4	179.40	3.1	89.1	224.1	203.5	20.55	10.900		
6,000.0	5,989.9	6,004.9	6,002.1	11.9	10.6	179.36	3.2	94.5	225.0	204.1	20.90	10.763		
6,100.0	6,089.7	6,104.9	6,101.9	12.1	10.8	179.33	3.4	100.0	225.9	204.7	21.25	10.631		
6,200.0	6,189.5	6,204.9	6,201.8	12.3	11.0	179.30	3.6	105.4	226.9	205.3	21.60	10.503		
6,300.0	6,289.3	6,304.9	6,301.6	12.5	11.2	179.26	3.8	110.8	227.8	205.9	21.95	10.379		
6,400.0	6,389.1	6,404.9	6,401.5	12.7	11.4	179.23	4.0	116.2	228.8	206.5	22.30	10.259		
6,500.0	6,488.9	6,504.9	6,501.3	12.9	11.6	179.20	4.2	121.7	229.7	207.1	22.65	10.143		
6,600.0	6,588.7	6,604.9	6,601.2	13.1	11.8	179.17	4.4	127.1	230.7	207.7	23.00	10.030		
6,633.9	6,622.5	6,638.8	6,635.0	13.2	11.8	179.15	4.4	128.9	231.0	207.9	23.12	9.992		
6,650.0	6,638.6	6,654.9	6,651.1	13.2	11.9	159.43	4.5	129.8	231.1	208.0	23.18	9.974		
6,700.0	6,688.4	6,704.8	6,700.9	13.3	12.0	122.20	4.6	132.5	231.4	208.1	23.35	9.910		
6,750.0	6,737.9	6,754.4	6,750.5	13.4	12.0	109.92	4.7	135.2	231.6	208.0	23.52	9.844		
6,800.0	6,786.8	6,803.4	6,799.4	13.5	12.1	105.97	4.7	137.9	231.9	208.2	23.69	9.786		
6,850.0	6,835.0	6,851.7	6,847.6	13.6	12.2	105.51	4.8	140.5	232.8	208.9	23.86	9.756		
6,900.0	6,882.2	6,900.8	6,896.7	13.7	12.3	106.75	3.4	143.2	234.6	210.6	24.01	9.771		
6,950.0	6,928.1	6,951.2	6,946.7	13.9	12.4	108.63	-1.6	145.9	237.4	213.2	24.15	9.831		
7,000.0	6,972.5	7,002.6	6,997.3	14.0	12.5	110.84	-10.3	148.6	241.0	216.8	24.25	9.939		
7,050.0	7,015.2	7,055.3	7,048.3	14.1	12.6	113.21	-23.0	151.4	245.4	221.1	24.32	10.093		
7,100.0	7,056.1	7,109.3	7,099.5	14.3	12.8	115.62	-39.9	154.2	250.6	226.2	24.35	10.289		
7,150.0	7,094.8	7,164.6	7,150.5	14.5	12.9	118.00	-61.1	157.0	256.3	231.9	24.36	10.521		
7,200.0	7,131.2	7,221.3	7,201.0	14.8	13.0	120.29	-86.9	159.7	262.4	238.1	24.34	10.781		
7,250.0	7,165.2	7,279.6	7,250.5	15.0	13.2	122.48	-117.4	162.4	268.9	244.6	24.32	11.055		
7,300.0	7,196.6	7,339.3	7,298.5	15.3	13.5	124.52	-152.8	165.0	275.5	251.2	24.32	11.330		
7,350.0	7,225.1	7,400.5	7,344.5	15.7	13.8	126.41	-193.1	167.5	282.1	257.8	24.35	11.586		
7,400.0	7,250.8	7,463.3	7,387.9	16.0	14.1	128.14	-238.4	169.9	288.6	264.1	24.45	11.801		
7,450.0	7,273.4	7,527.6	7,428.1	16.4	14.5	129.68	-288.5	172.1	294.8	270.1	24.65	11.959		
7,500.0	7,292.8	7,593.3	7,464.3	16.9	15.0	131.04	-343.3	174.0	300.5	275.5	24.96	12.040		
7,550.0	7,309.0	7,660.4	7,496.0	17.4	15.6	132.22	-402.3	175.7	305.7	280.3	25.41	12.029		
7,600.0	7,321.9	7,728.7	7,522.5	17.9	16.3	133.20	-465.3	177.2	310.2	284.1	26.02	11.918		
7,650.0	7,331.3	7,798.0	7,543.1	18.4	17.0	134.00	-531.4	178.3	313.8	287.0	26.80	11.709		
7,700.0	7,337.4	7,868.3	7,557.3	19.0	17.8	134.59	-600.2	179.1	316.7	288.9	27.77	11.404		
7,750.0	7,339.9	7,939.1	7,564.8	19.6	18.7	134.99	-670.6	179.5	318.5	289.6	28.90	11.020		
7,761.7	7,340.0	7,955.7	7,565.6	19.8	18.9	135.06	-687.1	179.5	318.8	289.6	29.19	10.920		
7,800.0	7,340.0	8,001.2	7,566.0	20.2	19.5	135.11	-732.7	179.5	319.0	289.1	29.95	10.652		
7,900.0	7,340.0	8,101.2	7,566.0	21.5	20.8	135.11	-832.7	179.5	319.0	287.1	31.85	10.016		
8,000.0	7,340.0	8,201.2	7,566.0	22.9	22.2	135.11	-932.7	179.5	319.0	285.2	33.83	9.430		
8,100.0	7,340.0	8,301.2	7,566.0	24.3	23.7	135.11	-1,032.7	179.5	319.0	283.1	35.87	8.893		
8,200.0	7,340.0	8,401.2	7,566.0	25.7	25.2	135.11	-1,132.7	179.5	319.0	281.0	37.97	8.402		
8,300.0	7,340.0	8,501.2	7,566.0	27.2	26.7	135.11	-1,232.7	179.5	319.0	278.9	40.11	7.953		
8,400.0	7,340.0	8,601.2	7,566.0	28.7	28.2	135.11	-1,332.7	179.5	319.0	276.7	42.29	7.543		
8,500.0	7,340.0	8,701.2	7,566.0	30.3	29.8	135.11	-1,432.7	179.5	319.0	274.5	44.50	7.168		
8,600.0	7,340.0	8,801.2	7,566.0	31.8	31.4	135.11	-1,532.7	179.5	319.0	272.3	46.74	6.824		
8,700.0	7,340.0	8,901.2	7,566.0	33.4	33.0	135.11	-1,632.7	179.5	319.0	270.0	49.01	6.509		
8,800.0	7,340.0	9,001.2	7,566.0	35.0	34.6	135.11	-1,732.7	179.5	319.0	267.7	51.30	6.219		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink 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		
8,900.0	7,340.0	9,101.2	7,566.0	36.6	36.2	135.11	-1,832.7	179.5	319.0	265.4	53.60	5.952		
9,000.0	7,340.0	9,201.2	7,566.0	38.3	37.9	135.11	-1,932.7	179.5	319.0	263.1	55.92	5.705		
9,100.0	7,340.0	9,301.2	7,566.0	39.9	39.5	135.11	-2,032.7	179.5	319.0	260.7	58.25	5.476		
9,200.0	7,340.0	9,401.2	7,566.0	41.5	41.2	135.11	-2,132.7	179.5	319.0	258.4	60.60	5.264		
9,300.0	7,340.0	9,501.2	7,566.0	43.2	42.9	135.11	-2,232.7	179.5	319.0	256.0	62.96	5.067		
9,400.0	7,340.0	9,601.2	7,566.0	44.8	44.5	135.11	-2,332.7	179.5	319.0	253.7	65.33	4.883		
9,500.0	7,340.0	9,701.2	7,566.0	46.5	46.2	135.11	-2,432.7	179.5	319.0	251.3	67.70	4.712		
9,600.0	7,340.0	9,801.2	7,566.0	48.2	47.9	135.11	-2,532.7	179.5	319.0	248.9	70.09	4.551		
9,700.0	7,340.0	9,901.2	7,566.0	49.9	49.6	135.11	-2,632.7	179.5	319.0	246.5	72.48	4.401		
9,800.0	7,340.0	10,001.2	7,566.0	51.6	51.3	135.11	-2,732.7	179.5	319.0	244.1	74.88	4.260		
9,900.0	7,340.0	10,101.2	7,566.0	53.2	53.0	135.11	-2,832.7	179.5	319.0	241.7	77.28	4.128		
10,000.0	7,340.0	10,201.2	7,566.0	54.9	54.7	135.11	-2,932.7	179.5	319.0	239.3	79.69	4.003		
10,100.0	7,340.0	10,301.2	7,566.0	56.6	56.4	135.11	-3,032.7	179.5	319.0	236.9	82.11	3.885		
10,200.0	7,340.0	10,401.2	7,566.0	58.3	58.1	135.11	-3,132.7	179.5	319.0	234.5	84.53	3.774		
10,300.0	7,340.0	10,501.2	7,566.0	60.0	59.8	135.11	-3,232.7	179.5	319.0	232.1	86.95	3.669		
10,400.0	7,340.0	10,601.2	7,566.0	61.7	61.5	135.11	-3,332.7	179.5	319.0	229.6	89.38	3.569		
10,500.0	7,340.0	10,701.2	7,566.0	63.4	63.2	135.11	-3,432.7	179.5	319.0	227.2	91.81	3.475		
10,600.0	7,340.0	10,801.2	7,566.0	65.2	65.0	135.11	-3,532.7	179.5	319.0	224.8	94.24	3.385		
10,700.0	7,340.0	10,901.2	7,566.0	66.9	66.7	135.11	-3,632.7	179.5	319.0	222.3	96.67	3.300		
10,800.0	7,340.0	11,001.2	7,566.0	68.6	68.4	135.11	-3,732.7	179.5	319.0	219.9	99.11	3.219		
10,900.0	7,340.0	11,101.2	7,566.0	70.3	70.1	135.11	-3,832.7	179.5	319.0	217.4	101.56	3.141		
11,000.0	7,340.0	11,201.2	7,566.0	72.0	71.8	135.11	-3,932.7	179.5	319.0	215.0	104.00	3.067		
11,100.0	7,340.0	11,301.2	7,566.0	73.7	73.6	135.11	-4,032.7	179.5	319.0	212.6	106.45	2.997		
11,200.0	7,340.0	11,401.2	7,566.0	75.5	75.3	135.11	-4,132.7	179.5	319.0	210.1	108.89	2.929		
11,300.0	7,340.0	11,501.2	7,566.0	77.2	77.0	135.11	-4,232.7	179.5	319.0	207.7	111.34	2.865		
11,400.0	7,340.0	11,601.2	7,566.0	78.9	78.8	135.11	-4,332.7	179.5	319.0	205.2	113.80	2.803		
11,500.0	7,340.0	11,701.2	7,566.0	80.6	80.5	135.11	-4,432.7	179.5	319.0	202.8	116.25	2.744		
11,600.0	7,340.0	11,801.2	7,566.0	82.4	82.2	135.11	-4,532.7	179.5	319.0	200.3	118.70	2.687		
11,700.0	7,340.0	11,901.2	7,566.0	84.1	84.0	135.11	-4,632.7	179.5	319.0	197.8	121.16	2.633		
11,800.0	7,340.0	12,001.2	7,566.0	85.8	85.7	135.11	-4,732.7	179.5	319.0	195.4	123.62	2.581		
11,854.7	7,340.0	12,055.9	7,566.0	86.8	86.6	135.11	-4,787.3	179.5	319.0	194.0	124.96	2.553 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink 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	87.84	0.4	9.8	9.8						
100.0	100.0	100.0	100.0	0.2	0.2	87.84	0.4	9.8	9.8	9.5	0.30	32.248			
200.0	200.0	200.0	200.0	0.3	0.3	87.84	0.4	9.8	9.8	9.1	0.65	15.003			
300.0	300.0	300.0	300.0	0.5	0.5	87.84	0.4	9.8	9.8	8.8	1.00	9.776			
400.0	400.0	400.0	400.0	0.7	0.7	87.84	0.4	9.8	9.8	8.4	1.35	7.250			
500.0	500.0	500.0	500.0	0.8	0.8	87.84	0.4	9.8	9.8	8.1	1.70	5.761			
600.0	600.0	600.0	600.0	1.0	1.0	87.84	0.4	9.8	9.8	7.7	2.05	4.780			
700.0	700.0	700.0	700.0	1.2	1.2	87.84	0.4	9.8	9.8	7.4	2.40	4.084 CC, ES			
800.0	800.0	799.6	799.6	1.4	1.4	87.80	0.4	11.5	11.5	8.8	2.75	4.197			
900.0	900.0	899.0	898.8	1.5	1.6	87.73	0.7	16.7	16.7	13.6	3.11	5.392			
1,000.0	1,000.0	998.7	998.2	1.7	1.7	1.25	1.0	24.3	22.7	19.2	3.44	6.584			
1,082.7	1,082.6	1,081.3	1,080.6	1.9	1.9	1.40	1.3	30.7	25.0	21.3	3.73	6.708			
1,100.0	1,099.8	1,098.6	1,097.9	1.9	1.9	1.45	1.3	32.1	25.2	21.5	3.79	6.664			
1,200.0	1,199.6	1,198.6	1,197.6	2.1	2.2	1.68	1.6	39.8	26.6	22.5	4.14	6.438			
1,300.0	1,299.4	1,298.6	1,297.3	2.3	2.4	1.89	2.0	47.6	28.0	23.5	4.49	6.246			
1,400.0	1,399.2	1,398.6	1,396.9	2.5	2.6	2.08	2.3	55.3	29.4	24.6	4.84	6.083			
1,500.0	1,499.0	1,498.6	1,496.6	2.7	2.8	2.25	2.6	63.1	30.8	25.6	5.19	5.942			
1,600.0	1,598.8	1,598.6	1,596.3	2.9	3.0	2.40	3.0	70.8	32.2	26.7	5.54	5.818			
1,700.0	1,698.6	1,698.6	1,696.0	3.1	3.2	2.55	3.3	78.6	33.6	27.7	5.89	5.709			
1,800.0	1,798.4	1,798.6	1,795.7	3.3	3.4	2.68	3.6	86.3	35.0	28.8	6.24	5.613			
1,900.0	1,898.2	1,898.6	1,895.4	3.5	3.6	2.80	3.9	94.1	36.4	29.8	6.58	5.527			
2,000.0	1,998.0	1,998.5	1,995.1	3.7	3.8	2.92	4.3	101.8	37.8	30.9	6.93	5.449			
2,100.0	2,097.8	2,098.5	2,094.8	3.9	4.1	3.02	4.6	109.6	39.2	31.9	7.28	5.379			
2,200.0	2,197.6	2,198.5	2,194.5	4.1	4.3	3.12	4.9	117.3	40.6	32.9	7.63	5.315			
2,300.0	2,297.4	2,298.5	2,294.1	4.3	4.5	3.21	5.3	125.1	42.0	34.0	7.98	5.257			
2,400.0	2,397.2	2,398.5	2,393.8	4.5	4.7	3.30	5.6	132.8	43.4	35.0	8.33	5.204			
2,500.0	2,497.0	2,498.5	2,493.5	4.7	4.9	3.38	5.9	140.6	44.8	36.1	8.68	5.155			
2,600.0	2,596.8	2,598.5	2,593.2	4.9	5.2	3.45	6.2	148.3	46.2	37.1	9.03	5.110			
2,700.0	2,696.6	2,698.5	2,692.9	5.1	5.4	3.52	6.6	156.1	47.5	38.2	9.38	5.068			
2,800.0	2,796.4	2,798.5	2,792.6	5.3	5.6	3.59	6.9	163.8	48.9	39.2	9.73	5.029			
2,900.0	2,896.2	2,898.5	2,892.3	5.5	5.8	3.65	7.2	171.6	50.3	40.3	10.08	4.993			
3,000.0	2,996.0	2,998.5	2,992.0	5.7	6.0	3.71	7.6	179.4	51.7	41.3	10.43	4.959			
3,100.0	3,095.8	3,098.4	3,091.7	5.9	6.2	3.77	7.9	187.1	53.1	42.3	10.78	4.928			
3,200.0	3,195.6	3,198.4	3,191.3	6.1	6.5	3.82	8.2	194.9	54.5	43.4	11.13	4.898			
3,300.0	3,295.4	3,298.4	3,291.0	6.3	6.7	3.88	8.5	202.6	55.9	44.4	11.48	4.871			
3,400.0	3,395.2	3,398.4	3,390.7	6.5	6.9	3.92	8.9	210.4	57.3	45.5	11.83	4.845			
3,500.0	3,495.0	3,498.4	3,490.4	6.7	7.1	3.97	9.2	218.1	58.7	46.5	12.18	4.820			
3,600.0	3,594.8	3,598.4	3,590.1	6.9	7.3	4.02	9.5	225.9	60.1	47.6	12.53	4.797			
3,700.0	3,694.6	3,698.4	3,689.8	7.1	7.6	4.06	9.9	233.6	61.5	48.6	12.88	4.775			
3,800.0	3,794.4	3,798.4	3,789.5	7.3	7.8	4.10	10.2	241.4	62.9	49.7	13.23	4.754			
3,900.0	3,894.1	3,898.4	3,889.2	7.5	8.0	4.14	10.5	249.1	64.3	50.7	13.58	4.734			
4,000.0	3,993.9	3,998.4	3,988.9	7.7	8.2	4.17	10.8	256.9	65.7	51.8	13.93	4.716			
4,100.0	4,093.7	4,098.3	4,088.5	8.0	8.4	4.21	11.2	264.6	67.1	52.8	14.28	4.698			
4,200.0	4,193.5	4,198.3	4,188.2	8.2	8.7	4.24	11.5	272.4	68.5	53.8	14.63	4.681			
4,300.0	4,293.3	4,298.3	4,287.9	8.4	8.9	4.27	11.8	280.1	69.9	54.9	14.98	4.665			
4,400.0	4,393.1	4,398.3	4,387.6	8.6	9.1	4.31	12.2	287.9	71.3	55.9	15.33	4.649			
4,500.0	4,492.9	4,498.3	4,487.3	8.8	9.3	4.34	12.5	295.6	72.7	57.0	15.68	4.635			
4,600.0	4,592.7	4,598.3	4,587.0	9.0	9.5	4.37	12.8	303.4	74.0	58.0	16.03	4.620			
4,700.0	4,692.5	4,698.3	4,686.7	9.2	9.8	4.39	13.1	311.1	75.4	59.1	16.38	4.607			
4,800.0	4,792.3	4,798.3	4,786.4	9.4	10.0	4.42	13.5	318.9	76.8	60.1	16.73	4.594			
4,900.0	4,892.1	4,898.3	4,886.1	9.6	10.2	4.45	13.8	326.6	78.2	61.2	17.08	4.582			
5,000.0	4,991.9	4,998.3	4,985.7	9.8	10.4	4.47	14.1	334.4	79.6	62.2	17.43	4.570			

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,098.2	5,085.4	10.0	10.6	4.50	14.5	342.1	81.0	63.3	17.78	4.558		
5,200.0	5,191.5	5,198.2	5,185.1	10.2	10.9	4.52	14.8	349.9	82.4	64.3	18.13	4.547		
5,300.0	5,291.3	5,298.2	5,284.8	10.4	11.1	4.54	15.1	357.6	83.8	65.3	18.48	4.537		
5,400.0	5,391.1	5,398.2	5,384.5	10.6	11.3	4.56	15.4	365.4	85.2	66.4	18.83	4.526		
5,500.0	5,490.9	5,498.2	5,484.2	10.8	11.5	4.58	15.8	373.1	86.6	67.4	19.18	4.517		
5,600.0	5,590.7	5,598.2	5,583.9	11.0	11.8	4.60	16.1	380.9	88.0	68.5	19.52	4.507		
5,700.0	5,690.5	5,698.2	5,683.6	11.3	12.0	4.62	16.4	388.6	89.4	69.5	19.87	4.498		
5,800.0	5,790.3	5,798.2	5,783.3	11.5	12.2	4.64	16.8	396.4	90.8	70.6	20.22	4.489		
5,900.0	5,890.1	5,898.2	5,882.9	11.7	12.4	4.66	17.1	404.2	92.2	71.6	20.57	4.481		
6,000.0	5,989.9	5,998.2	5,982.6	11.9	12.6	4.68	17.4	411.9	93.6	72.7	20.92	4.473		
6,100.0	6,089.7	6,098.1	6,082.3	12.1	12.9	4.70	17.7	419.7	95.0	73.7	21.27	4.465		
6,200.0	6,189.5	6,198.1	6,182.0	12.3	13.1	4.71	18.1	427.4	96.4	74.8	21.62	4.457		
6,300.0	6,289.3	6,298.1	6,281.7	12.5	13.3	4.73	18.4	435.2	97.8	75.8	21.97	4.449		
6,400.0	6,389.1	6,398.1	6,381.4	12.7	13.5	4.75	18.7	442.9	99.2	76.8	22.32	4.442		
6,500.0	6,488.9	6,498.1	6,481.1	12.9	13.7	4.76	19.1	450.7	100.6	77.9	22.67	4.435		
6,600.0	6,588.7	6,598.1	6,580.8	13.1	14.0	4.78	19.4	458.4	102.0	78.9	23.02	4.428		
6,633.9	6,622.5	6,632.0	6,614.6	13.2	14.0	4.78	19.5	461.0	102.4	79.3	23.14	4.426		
6,650.0	6,638.6	6,648.1	6,630.6	13.2	14.1	-15.05	19.6	462.3	102.7	79.5	23.20	4.425		
6,700.0	6,688.4	6,698.0	6,680.4	13.3	14.2	-54.48	19.7	466.2	103.3	80.0	23.36	4.424		
6,750.0	6,737.9	6,747.7	6,729.9	13.4	14.3	-71.60	19.8	470.0	104.2	80.7	23.53	4.431		
6,800.0	6,786.8	6,797.9	6,779.9	13.5	14.4	-81.69	17.4	473.9	105.7	81.9	23.75	4.449		
6,850.0	6,835.0	6,848.6	6,830.1	13.6	14.5	-88.87	11.4	477.8	107.5	83.5	24.02	4.475		
6,900.0	6,882.2	6,899.9	6,880.3	13.7	14.6	-94.58	1.8	481.7	109.8	85.5	24.35	4.510		
6,950.0	6,928.1	6,951.7	6,930.2	13.9	14.7	-99.39	-11.6	485.6	112.4	87.7	24.70	4.552		
7,000.0	6,972.5	7,004.1	6,979.5	14.0	14.9	-103.57	-28.8	489.4	115.4	90.3	25.08	4.601		
7,050.0	7,015.2	7,057.0	7,028.0	14.1	15.0	-107.24	-49.7	493.2	118.6	93.1	25.46	4.658		
7,100.0	7,056.1	7,110.5	7,075.2	14.3	15.1	-110.49	-74.5	496.9	121.9	96.1	25.83	4.721		
7,150.0	7,094.8	7,164.6	7,120.9	14.5	15.3	-113.38	-103.1	500.4	125.4	99.2	26.18	4.789		
7,200.0	7,131.2	7,219.1	7,164.8	14.8	15.5	-115.93	-135.3	503.8	128.8	102.3	26.51	4.860		
7,250.0	7,165.2	7,274.3	7,206.5	15.0	15.8	-118.18	-171.2	507.1	132.3	105.5	26.82	4.932		
7,300.0	7,196.6	7,329.9	7,245.7	15.3	16.0	-120.16	-210.6	510.1	135.6	108.5	27.11	5.001		
7,350.0	7,225.1	7,386.0	7,282.0	15.7	16.3	-121.89	-253.3	512.9	138.8	111.4	27.39	5.066		
7,400.0	7,250.8	7,442.6	7,315.1	16.0	16.7	-123.38	-299.1	515.5	141.7	114.1	27.67	5.123		
7,450.0	7,273.4	7,499.6	7,344.7	16.4	17.1	-124.66	-347.7	517.8	144.4	116.5	27.95	5.168		
7,500.0	7,292.8	7,557.0	7,370.5	16.9	17.6	-125.73	-398.9	519.8	146.8	118.6	28.25	5.198		
7,550.0	7,309.0	7,614.7	7,392.3	17.4	18.1	-126.60	-452.3	521.5	148.9	120.3	28.57	5.211		
7,600.0	7,321.9	7,672.7	7,409.8	17.9	18.6	-127.29	-507.6	522.9	150.6	121.6	28.94	5.203		
7,650.0	7,331.3	7,730.9	7,422.8	18.4	19.2	-127.81	-564.3	523.9	151.8	122.5	29.35	5.174		
7,700.0	7,337.4	7,789.3	7,431.1	19.0	19.8	-128.15	-622.0	524.5	152.7	122.9	29.81	5.122		
7,750.0	7,339.9	7,847.7	7,434.8	19.6	20.5	-128.31	-680.4	524.8	153.1	122.8	30.34	5.047		
7,761.7	7,340.0	7,861.4	7,435.0	19.8	20.7	-128.33	-694.0	524.8	153.2	122.7	30.48	5.026		
7,800.0	7,340.0	7,900.0	7,435.0	20.2	21.1	-128.33	-732.7	524.8	153.2	121.9	31.29	4.896		
7,900.0	7,340.0	8,000.0	7,435.0	21.5	22.4	-128.33	-832.7	524.8	153.2	119.7	33.45	4.579		
8,000.0	7,340.0	8,100.0	7,435.0	22.9	23.7	-128.33	-932.7	524.8	153.2	117.5	35.70	4.290		
8,100.0	7,340.0	8,200.0	7,435.0	24.3	25.0	-128.33	-1,032.7	524.8	153.2	115.2	38.02	4.029		
8,200.0	7,340.0	8,300.0	7,435.0	25.7	26.4	-128.33	-1,132.7	524.8	153.2	112.8	40.39	3.792		
8,300.0	7,340.0	8,400.0	7,435.0	27.2	27.9	-128.33	-1,232.7	524.8	153.2	110.4	42.81	3.578		
8,400.0	7,340.0	8,500.0	7,435.0	28.7	29.4	-128.33	-1,332.7	524.8	153.2	107.9	45.27	3.384		
8,500.0	7,340.0	8,600.0	7,435.0	30.3	30.9	-128.33	-1,432.7	524.8	153.2	105.4	47.76	3.207		
8,600.0	7,340.0	8,700.0	7,435.0	31.8	32.4	-128.33	-1,532.7	524.8	153.2	102.9	50.28	3.046		
8,700.0	7,340.0	8,800.0	7,435.0	33.4	34.0	-128.33	-1,632.7	524.8	153.2	100.3	52.83	2.900		
8,800.0	7,340.0	8,900.0	7,435.0	35.0	35.5	-128.33	-1,732.7	524.8	153.2	97.8	55.39	2.765		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
8,900.0	7,340.0	9,000.0	7,435.0	36.6	37.1	-128.33	-1,832.7	524.8	153.2	95.2	57.98	2.642		
9,000.0	7,340.0	9,100.0	7,435.0	38.3	38.7	-128.33	-1,932.7	524.8	153.2	92.6	60.58	2.529		
9,100.0	7,340.0	9,200.0	7,435.0	39.9	40.4	-128.33	-2,032.7	524.8	153.2	90.0	63.19	2.424		
9,200.0	7,340.0	9,300.0	7,435.0	41.5	42.0	-128.33	-2,132.7	524.8	153.2	87.4	65.82	2.327		
9,300.0	7,340.0	9,400.0	7,435.0	43.2	43.6	-128.33	-2,232.7	524.8	153.2	84.7	68.45	2.238		
9,400.0	7,340.0	9,500.0	7,435.0	44.8	45.3	-128.33	-2,332.7	524.8	153.2	82.1	71.10	2.154		
9,500.0	7,340.0	9,600.0	7,435.0	46.5	46.9	-128.33	-2,432.7	524.8	153.2	79.4	73.75	2.077		
9,600.0	7,340.0	9,700.0	7,435.0	48.2	48.6	-128.33	-2,532.7	524.8	153.2	76.8	76.41	2.005		
9,700.0	7,340.0	9,800.0	7,435.0	49.9	50.2	-128.33	-2,632.7	524.8	153.2	74.1	79.08	1.937		
9,800.0	7,340.0	9,900.0	7,435.0	51.6	51.9	-128.33	-2,732.7	524.8	153.2	71.4	81.76	1.874		
9,900.0	7,340.0	10,000.0	7,435.0	53.2	53.6	-128.33	-2,832.7	524.8	153.2	68.7	84.44	1.814		
10,000.0	7,340.0	10,100.0	7,435.0	54.9	55.3	-128.33	-2,932.7	524.8	153.2	66.1	87.13	1.758		
10,100.0	7,340.0	10,200.0	7,435.0	56.6	57.0	-128.33	-3,032.7	524.8	153.2	63.4	89.82	1.705		
10,200.0	7,340.0	10,300.0	7,435.0	58.3	58.7	-128.33	-3,132.7	524.8	153.2	60.7	92.51	1.656		
10,300.0	7,340.0	10,400.0	7,435.0	60.0	60.4	-128.33	-3,232.7	524.8	153.2	58.0	95.21	1.609		
10,400.0	7,340.0	10,500.0	7,435.0	61.7	62.1	-128.33	-3,332.7	524.8	153.2	55.3	97.91	1.564		
10,500.0	7,340.0	10,600.0	7,435.0	63.4	63.8	-128.33	-3,432.7	524.8	153.2	52.6	100.62	1.522		
10,600.0	7,340.0	10,700.0	7,435.0	65.2	65.5	-128.33	-3,532.7	524.8	153.2	49.9	103.33	1.482 Level 3		
10,700.0	7,340.0	10,800.0	7,435.0	66.9	67.2	-128.33	-3,632.7	524.8	153.2	47.1	106.04	1.445 Level 3		
10,800.0	7,340.0	10,900.0	7,435.0	68.6	68.9	-128.33	-3,732.7	524.8	153.2	44.4	108.75	1.409 Level 3		
10,900.0	7,340.0	11,000.0	7,435.0	70.3	70.6	-128.33	-3,832.7	524.8	153.2	41.7	111.47	1.374 Level 3		
11,000.0	7,340.0	11,100.0	7,435.0	72.0	72.3	-128.33	-3,932.7	524.8	153.2	39.0	114.19	1.341 Level 3		
11,100.0	7,340.0	11,200.0	7,435.0	73.7	74.0	-128.33	-4,032.7	524.8	153.2	36.3	116.91	1.310 Level 3		
11,200.0	7,340.0	11,300.0	7,435.0	75.5	75.7	-128.33	-4,132.7	524.8	153.2	33.5	119.63	1.280 Level 3		
11,242.1	7,340.0	11,342.2	7,435.0	76.2	76.5	-128.33	-4,174.8	524.8	153.2	32.4	120.78	1.268 Level 3		
11,300.0	7,340.0	11,397.6	7,435.0	77.2	77.4	-128.25	-4,230.3	525.2	153.5	31.0	122.44	1.253 Level 3		
11,400.0	7,340.0	11,490.8	7,435.0	78.9	79.0	-127.25	-4,323.3	529.6	157.2	30.6	126.65	1.241 Level 2, SF		
11,500.0	7,340.0	11,583.2	7,435.0	80.6	80.6	-125.27	-4,415.2	539.0	165.5	33.1	132.40	1.250 Level 2		
11,600.0	7,340.0	11,674.3	7,435.0	82.4	82.2	-122.61	-4,505.2	553.2	178.4	39.3	139.10	1.283 Level 3		
11,700.0	7,340.0	11,763.6	7,435.0	84.1	83.7	-119.62	-4,592.5	571.8	196.4	50.3	146.10	1.344 Level 3		
11,800.0	7,340.0	11,850.7	7,435.0	85.8	85.2	-116.61	-4,676.7	594.3	219.3	66.5	152.88	1.435 Level 3		
11,854.7	7,340.0	11,900.0	7,435.0	86.8	86.1	-114.94	-4,723.7	608.9	234.1	77.5	156.53	1.495 Level 3		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.87	0.7	19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.87	0.7	19.9	19.9	19.6	0.30	65.417		
200.0	200.0	200.0	200.0	0.3	0.3	87.87	0.7	19.9	19.9	19.2	0.65	30.435		
300.0	300.0	300.0	300.0	0.5	0.5	87.87	0.7	19.9	19.9	18.9	1.00	19.830		
400.0	400.0	400.0	400.0	0.7	0.7	87.87	0.7	19.9	19.9	18.5	1.35	14.706		
500.0	500.0	500.0	500.0	0.8	0.8	87.87	0.7	19.9	19.9	18.2	1.70	11.686		
600.0	600.0	600.0	600.0	1.0	1.0	87.87	0.7	19.9	19.9	17.8	2.05	9.696 CC, ES		
700.0	700.0	699.3	699.3	1.2	1.2	87.84	0.8	21.6	21.6	19.2	2.40	9.006		
800.0	800.0	798.3	798.1	1.4	1.4	87.77	1.0	26.7	26.8	24.0	2.76	9.721		
900.0	900.0	896.9	896.3	1.5	1.6	87.70	1.4	35.2	35.4	32.3	3.13	11.309		
1,000.0	1,000.0	995.5	994.3	1.7	1.8	1.17	1.9	46.9	45.5	42.1	3.44	13.249		
1,082.7	1,082.6	1,077.9	1,076.0	1.9	2.0	1.21	2.4	57.2	51.9	48.2	3.72	13.935		
1,100.0	1,099.8	1,095.2	1,093.2	1.9	2.1	1.23	2.5	59.4	53.0	49.2	3.78	13.997		
1,200.0	1,199.6	1,195.0	1,192.2	2.1	2.3	1.30	3.0	72.0	59.2	55.1	4.13	14.323		
1,300.0	1,299.4	1,294.8	1,291.2	2.3	2.6	1.36	3.6	84.5	65.4	60.9	4.48	14.597		
1,400.0	1,399.2	1,394.6	1,390.2	2.5	2.8	1.41	4.1	97.0	71.7	66.8	4.83	14.832		
1,500.0	1,499.0	1,494.4	1,489.2	2.7	3.1	1.46	4.7	109.6	77.9	72.7	5.18	15.036		
1,600.0	1,598.8	1,594.2	1,588.2	2.9	3.4	1.49	5.2	122.1	84.1	78.6	5.53	15.214		
1,700.0	1,698.6	1,694.0	1,687.3	3.1	3.6	1.52	5.8	134.7	90.4	84.5	5.88	15.371		
1,800.0	1,798.4	1,793.8	1,786.3	3.3	3.9	1.55	6.4	147.2	96.6	90.4	6.23	15.510		
1,900.0	1,898.2	1,893.6	1,885.3	3.5	4.2	1.57	6.9	159.8	102.8	96.3	6.58	15.635		
2,000.0	1,998.0	1,993.4	1,984.3	3.7	4.4	1.59	7.5	172.3	109.1	102.1	6.93	15.747		
2,100.0	2,097.8	2,093.3	2,083.3	3.9	4.7	1.61	8.0	184.9	115.3	108.0	7.28	15.848		
2,200.0	2,197.6	2,193.1	2,182.3	4.1	5.0	1.63	8.6	197.4	121.5	113.9	7.62	15.940		
2,300.0	2,297.4	2,292.9	2,281.3	4.3	5.3	1.64	9.1	209.9	127.8	119.8	7.97	16.025		
2,400.0	2,397.2	2,392.7	2,380.3	4.5	5.5	1.66	9.7	222.5	134.0	125.7	8.32	16.102		
2,500.0	2,497.0	2,492.5	2,479.4	4.7	5.8	1.67	10.2	235.0	140.2	131.6	8.67	16.172		
2,600.0	2,596.8	2,592.3	2,578.4	4.9	6.1	1.68	10.8	247.6	146.5	137.5	9.02	16.238		
2,700.0	2,696.6	2,692.1	2,677.4	5.1	6.4	1.69	11.3	260.1	152.7	143.3	9.37	16.298		
2,800.0	2,796.4	2,791.9	2,776.4	5.3	6.7	1.70	11.9	272.7	159.0	149.2	9.72	16.354		
2,900.0	2,896.2	2,891.7	2,875.4	5.5	6.9	1.71	12.4	285.2	165.2	155.1	10.07	16.407		
3,000.0	2,996.0	2,991.5	2,974.4	5.7	7.2	1.72	13.0	297.8	171.4	161.0	10.42	16.455		
3,100.0	3,095.8	3,091.3	3,073.4	5.9	7.5	1.73	13.5	310.3	177.7	166.9	10.77	16.501		
3,200.0	3,195.6	3,191.1	3,172.4	6.1	7.8	1.73	14.1	322.9	183.9	172.8	11.12	16.544		
3,300.0	3,295.4	3,290.9	3,271.5	6.3	8.0	1.74	14.6	335.4	190.1	178.7	11.46	16.584		
3,400.0	3,395.2	3,390.7	3,370.5	6.5	8.3	1.75	15.2	347.9	196.4	184.6	11.81	16.622		
3,500.0	3,495.0	3,490.5	3,469.5	6.7	8.6	1.75	15.7	360.5	202.6	190.4	12.16	16.657		
3,600.0	3,594.8	3,590.3	3,568.5	6.9	8.9	1.76	16.3	373.0	208.8	196.3	12.51	16.691		
3,700.0	3,694.6	3,690.1	3,667.5	7.1	9.2	1.76	16.9	385.6	215.1	202.2	12.86	16.723		
3,800.0	3,794.4	3,789.9	3,766.5	7.3	9.4	1.77	17.4	398.1	221.3	208.1	13.21	16.753		
3,900.0	3,894.1	3,889.8	3,865.5	7.5	9.7	1.77	18.0	410.7	227.5	214.0	13.56	16.782		
4,000.0	3,993.9	3,989.6	3,964.5	7.7	10.0	1.78	18.5	423.2	233.8	219.9	13.91	16.809		
4,100.0	4,093.7	4,089.4	4,063.5	8.0	10.3	1.78	19.1	435.8	240.0	225.8	14.26	16.834		
4,200.0	4,193.5	4,189.2	4,162.6	8.2	10.6	1.78	19.6	448.3	246.2	231.6	14.61	16.859		
4,300.0	4,293.3	4,289.0	4,261.6	8.4	10.8	1.79	20.2	460.8	252.5	237.5	14.96	16.883		
4,400.0	4,393.1	4,388.8	4,360.6	8.6	11.1	1.79	20.7	473.4	258.7	243.4	15.30	16.905		
4,500.0	4,492.9	4,488.6	4,459.6	8.8	11.4	1.79	21.3	485.9	265.0	249.3	15.65	16.926		
4,600.0	4,592.7	4,588.4	4,558.6	9.0	11.7	1.80	21.8	498.5	271.2	255.2	16.00	16.947		
4,700.0	4,692.5	4,688.2	4,657.6	9.2	12.0	1.80	22.4	511.0	277.4	261.1	16.35	16.966		
4,800.0	4,792.3	4,788.0	4,756.6	9.4	12.2	1.80	22.9	523.6	283.7	267.0	16.70	16.985		
4,900.0	4,892.1	4,887.8	4,855.6	9.6	12.5	1.81	23.5	536.1	289.9	272.8	17.05	17.003		
5,000.0	4,991.9	4,987.6	4,954.7	9.8	12.8	1.81	24.0	548.7	296.1	278.7	17.40	17.020		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,087.4	5,053.7	10.0	13.1	1.81	24.6	561.2	302.4	284.6	17.75	17.037		
5,200.0	5,191.5	5,187.2	5,152.7	10.2	13.4	1.81	25.1	573.7	308.6	290.5	18.10	17.053		
5,300.0	5,291.3	5,287.0	5,251.7	10.4	13.6	1.82	25.7	586.3	314.8	296.4	18.45	17.068		
5,400.0	5,391.1	5,386.8	5,350.7	10.6	13.9	1.82	26.3	598.8	321.1	302.3	18.79	17.083		
5,500.0	5,490.9	5,486.6	5,449.7	10.8	14.2	1.82	26.8	611.4	327.3	308.2	19.14	17.097		
5,600.0	5,590.7	5,586.4	5,548.7	11.0	14.5	1.82	27.4	623.9	333.5	314.0	19.49	17.111		
5,700.0	5,690.5	5,686.2	5,647.7	11.3	14.8	1.83	27.9	636.5	339.8	319.9	19.84	17.124		
5,800.0	5,790.3	5,786.1	5,746.8	11.5	15.1	1.83	28.5	649.0	346.0	325.8	20.19	17.137		
5,900.0	5,890.1	5,885.9	5,845.8	11.7	15.3	1.83	29.0	661.6	352.2	331.7	20.54	17.149		
6,000.0	5,989.9	5,985.7	5,944.8	11.9	15.6	1.83	29.6	674.1	358.5	337.6	20.89	17.161		
6,100.0	6,089.7	6,085.5	6,043.8	12.1	15.9	1.83	30.1	686.6	364.7	343.5	21.24	17.173		
6,200.0	6,189.5	6,185.3	6,142.8	12.3	16.2	1.84	30.7	699.2	370.9	349.4	21.59	17.184		
6,300.0	6,289.3	6,285.1	6,241.8	12.5	16.5	1.84	31.2	711.7	377.2	355.2	21.94	17.195		
6,400.0	6,389.1	6,384.9	6,340.8	12.7	16.7	1.84	31.8	724.3	383.4	361.1	22.28	17.205		
6,500.0	6,488.9	6,484.7	6,439.8	12.9	17.0	1.84	32.3	736.8	389.7	367.0	22.63	17.216		
6,600.0	6,588.7	6,584.5	6,538.9	13.1	17.3	1.84	32.9	749.4	395.9	372.9	22.98	17.225		
6,633.9	6,622.5	6,618.3	6,572.4	13.2	17.4	1.84	33.1	753.6	398.0	374.9	23.10	17.229		
6,650.0	6,638.6	6,634.4	6,588.4	13.2	17.4	-17.86	33.2	755.6	399.0	375.9	23.16	17.230		
6,700.0	6,688.4	6,684.2	6,637.8	13.3	17.6	-55.91	33.4	761.9	402.2	378.9	23.33	17.241		
6,750.0	6,737.9	6,733.7	6,686.9	13.4	17.7	-70.32	33.7	768.1	405.6	382.1	23.50	17.259		
6,800.0	6,786.8	6,782.6	6,735.4	13.5	17.9	-77.64	34.0	774.3	409.3	385.6	23.68	17.285		
6,850.0	6,835.0	6,830.7	6,783.1	13.6	18.0	-82.54	34.3	780.3	413.5	389.6	23.87	17.321		
6,900.0	6,882.2	6,877.8	6,829.8	13.7	18.1	-86.44	34.5	786.2	418.5	394.4	24.09	17.372		
6,950.0	6,928.1	6,926.7	6,878.4	13.9	18.3	-89.98	34.3	792.4	424.5	400.2	24.35	17.437		
7,000.0	6,972.5	6,979.4	6,930.5	14.0	18.4	-93.19	30.6	799.0	431.3	406.7	24.65	17.499		
7,050.0	7,015.2	7,033.9	6,984.0	14.1	18.5	-96.07	22.8	805.7	438.7	413.7	24.99	17.557		
7,100.0	7,056.1	7,090.3	7,038.6	14.3	18.7	-98.70	10.3	812.6	446.7	421.3	25.37	17.607		
7,150.0	7,094.8	7,148.9	7,094.1	14.5	18.9	-101.12	-7.1	819.5	454.9	429.2	25.77	17.656		
7,200.0	7,131.2	7,209.8	7,150.1	14.8	19.0	-103.35	-30.0	826.5	463.4	437.2	26.20	17.686		
7,250.0	7,165.2	7,273.1	7,206.0	15.0	19.2	-105.41	-58.8	833.4	472.0	445.3	26.67	17.697		
7,300.0	7,196.6	7,339.0	7,261.2	15.3	19.4	-107.30	-93.9	840.2	480.5	453.3	27.17	17.686		
7,350.0	7,225.1	7,407.4	7,315.1	15.7	19.7	-109.03	-135.6	846.8	488.6	460.9	27.69	17.644		
7,400.0	7,250.8	7,478.5	7,366.5	16.0	20.0	-110.58	-184.3	853.1	496.3	468.1	28.26	17.563		
7,450.0	7,273.4	7,552.2	7,414.5	16.4	20.3	-111.95	-239.8	858.9	503.4	474.5	28.86	17.439		
7,500.0	7,292.8	7,628.3	7,457.9	16.9	20.8	-113.12	-302.1	864.1	509.5	480.0	29.53	17.257		
7,550.0	7,309.0	7,706.7	7,495.4	17.4	21.3	-114.08	-370.7	868.5	514.7	484.4	30.24	17.018		
7,600.0	7,321.9	7,786.9	7,525.9	17.9	21.9	-114.83	-444.8	871.9	518.7	487.6	31.03	16.714		
7,650.0	7,331.3	7,868.5	7,548.3	18.4	22.5	-115.34	-523.2	874.4	521.3	489.5	31.89	16.346		
7,700.0	7,337.4	7,951.0	7,561.8	19.0	23.3	-115.60	-604.5	875.7	522.7	489.8	32.84	15.917		
7,750.0	7,339.9	8,031.8	7,566.0	19.6	24.0	-115.63	-685.1	875.8	522.6	488.7	33.84	15.441		
7,761.7	7,340.0	8,043.4	7,566.0	19.8	24.1	-115.63	-696.8	875.7	522.5	488.5	34.00	15.367		
7,800.0	7,340.0	8,081.8	7,566.0	20.2	24.5	-115.64	-735.1	875.5	522.3	487.4	34.92	14.957		
7,900.0	7,340.0	8,181.7	7,566.0	21.5	25.6	-115.67	-835.1	875.0	521.8	484.4	37.40	13.953		
8,000.0	7,340.0	8,281.7	7,566.0	22.9	26.8	-115.69	-935.1	874.5	521.3	481.4	39.97	13.044		
8,100.0	7,340.0	8,381.7	7,566.0	24.3	28.0	-115.71	-1,035.1	874.0	520.9	478.3	42.62	12.222		
8,200.0	7,340.0	8,481.7	7,566.0	25.7	29.2	-115.74	-1,135.1	873.5	520.4	475.1	45.33	11.480		
8,300.0	7,340.0	8,581.7	7,566.0	27.2	30.6	-115.76	-1,235.1	872.9	520.0	471.8	48.10	10.810		
8,400.0	7,340.0	8,681.7	7,566.0	28.7	31.9	-115.79	-1,335.1	872.4	519.5	468.6	50.91	10.203		
8,500.0	7,340.0	8,781.7	7,566.0	30.3	33.3	-115.81	-1,435.1	871.9	519.0	465.3	53.76	9.654		
8,600.0	7,340.0	8,881.7	7,566.0	31.8	34.7	-115.84	-1,535.1	871.4	518.6	461.9	56.64	9.155		
8,700.0	7,340.0	8,981.7	7,566.0	33.4	36.2	-115.86	-1,635.1	870.9	518.1	458.5	59.55	8.700		
8,800.0	7,340.0	9,081.7	7,566.0	35.0	37.7	-115.89	-1,735.1	870.4	517.6	455.2	62.48	8.285		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink 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	7,340.0	9,181.7	7,566.0	36.6	39.2	-115.91	-1,835.1	869.8	517.2	451.7	65.43	7.905		
9,000.0	7,340.0	9,281.7	7,566.0	38.3	40.7	-115.94	-1,935.1	869.3	516.7	448.3	68.39	7.555		
9,100.0	7,340.0	9,381.7	7,566.0	39.9	42.2	-115.96	-2,035.1	868.8	516.2	444.9	71.37	7.233		
9,200.0	7,340.0	9,481.7	7,566.0	41.5	43.8	-115.99	-2,135.1	868.3	515.8	441.4	74.36	6.936		
9,300.0	7,340.0	9,581.7	7,566.0	43.2	45.4	-116.01	-2,235.1	867.8	515.3	437.9	77.36	6.661		
9,400.0	7,340.0	9,681.7	7,566.0	44.8	47.0	-116.04	-2,335.1	867.3	514.8	434.5	80.38	6.406		
9,500.0	7,340.0	9,781.7	7,566.0	46.5	48.5	-116.06	-2,435.1	866.8	514.4	431.0	83.40	6.168		
9,600.0	7,340.0	9,881.7	7,566.0	48.2	50.2	-116.09	-2,535.1	866.2	513.9	427.5	86.42	5.947		
9,700.0	7,340.0	9,981.7	7,566.0	49.9	51.8	-116.11	-2,635.1	865.7	513.5	424.0	89.46	5.740		
9,800.0	7,340.0	10,081.7	7,566.0	51.6	53.4	-116.14	-2,735.1	865.2	513.0	420.5	92.50	5.546		
9,900.0	7,340.0	10,181.7	7,566.0	53.2	55.0	-116.16	-2,835.0	864.7	512.5	417.0	95.54	5.365		
10,000.0	7,340.0	10,281.7	7,566.0	54.9	56.7	-116.19	-2,935.0	864.2	512.1	413.5	98.59	5.194		
10,100.0	7,340.0	10,381.7	7,566.0	56.6	58.3	-116.22	-3,035.0	863.7	511.6	410.0	101.64	5.033		
10,200.0	7,340.0	10,481.7	7,566.0	58.3	60.0	-116.24	-3,135.0	863.1	511.1	406.4	104.70	4.882		
10,300.0	7,340.0	10,581.7	7,566.0	60.0	61.6	-116.27	-3,235.0	862.6	510.7	402.9	107.76	4.739		
10,400.0	7,340.0	10,681.7	7,566.0	61.7	63.3	-116.29	-3,335.0	862.1	510.2	399.4	110.82	4.604		
10,500.0	7,340.0	10,781.7	7,566.0	63.4	65.0	-116.32	-3,435.0	861.6	509.8	395.9	113.88	4.476		
10,600.0	7,340.0	10,881.7	7,566.0	65.2	66.6	-116.34	-3,535.0	861.1	509.3	392.3	116.95	4.355		
10,700.0	7,340.0	10,981.7	7,566.0	66.9	68.3	-116.37	-3,635.0	860.6	508.8	388.8	120.01	4.240		
10,800.0	7,340.0	11,081.7	7,566.0	68.6	70.0	-116.40	-3,735.0	860.1	508.4	385.3	123.08	4.130		
10,900.0	7,340.0	11,181.7	7,566.0	70.3	71.7	-116.42	-3,835.0	859.5	507.9	381.8	126.15	4.026		
11,000.0	7,340.0	11,281.7	7,566.0	72.0	73.4	-116.45	-3,935.0	859.0	507.4	378.2	129.22	3.927		
11,100.0	7,340.0	11,381.7	7,566.0	73.7	75.1	-116.47	-4,035.0	858.5	507.0	374.7	132.30	3.832		
11,200.0	7,340.0	11,481.7	7,566.0	75.5	76.8	-116.50	-4,135.0	858.0	506.5	371.2	135.37	3.742		
11,300.0	7,340.0	11,581.7	7,566.0	77.2	78.4	-116.52	-4,235.0	857.5	506.1	367.6	138.44	3.655		
11,400.0	7,340.0	11,681.7	7,566.0	78.9	80.1	-116.55	-4,335.0	857.0	505.6	364.1	141.51	3.573		
11,500.0	7,340.0	11,781.7	7,566.0	80.6	81.8	-116.58	-4,435.0	856.4	505.1	360.6	144.59	3.494		
11,600.0	7,340.0	11,881.7	7,566.0	82.4	83.6	-116.60	-4,535.0	855.9	504.7	357.0	147.66	3.418		
11,700.0	7,340.0	11,981.7	7,566.0	84.1	85.3	-116.63	-4,635.0	855.4	504.2	353.5	150.73	3.345		
11,800.0	7,340.0	12,081.7	7,566.0	85.8	87.0	-116.66	-4,735.0	854.9	503.8	350.0	153.81	3.275		
11,843.9	7,340.0	12,125.6	7,566.0	86.6	87.7	-116.67	-4,778.9	854.7	503.6	348.4	155.16	3.245		
11,854.7	7,340.0	12,125.7	7,566.0	86.8	87.7	-116.67	-4,779.0	854.7	503.6	348.3	155.33	3.242 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.90	1.1	29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.90	1.1	29.9	29.9	29.6	0.30	98.585		
200.0	200.0	200.0	200.0	0.3	0.3	87.90	1.1	29.9	29.9	29.3	0.65	45.866		
300.0	300.0	300.0	300.0	0.5	0.5	87.90	1.1	29.9	29.9	28.9	1.00	29.885		
400.0	400.0	400.0	400.0	0.7	0.7	87.90	1.1	29.9	29.9	28.6	1.35	22.162		
500.0	500.0	500.0	500.0	0.8	0.8	87.90	1.1	29.9	29.9	28.2	1.70	17.612 CC, ES		
600.0	600.0	598.9	598.9	1.0	1.0	87.88	1.2	31.6	31.7	29.6	2.05	15.455		
700.0	700.0	697.6	697.5	1.2	1.2	87.82	1.4	36.7	36.8	34.4	2.41	15.302		
800.0	800.0	795.8	795.3	1.4	1.4	87.76	1.8	45.2	45.4	42.7	2.79	16.309		
900.0	900.0	893.4	892.1	1.5	1.6	87.70	2.3	56.9	57.4	54.2	3.20	17.974		
1,000.0	1,000.0	992.1	989.9	1.7	1.9	1.16	2.9	71.0	70.1	66.6	3.43	20.417		
1,082.7	1,082.6	1,074.5	1,071.3	1.9	2.1	1.19	3.4	82.9	77.9	74.2	3.72	20.962		
1,100.0	1,099.8	1,091.7	1,088.4	1.9	2.2	1.20	3.5	85.4	79.3	75.6	3.78	20.997		
1,200.0	1,199.6	1,191.4	1,187.0	2.1	2.5	1.25	4.2	99.7	87.4	83.3	4.13	21.181		
1,300.0	1,299.4	1,291.0	1,285.7	2.3	2.7	1.29	4.8	114.1	95.5	91.0	4.48	21.336		
1,400.0	1,399.2	1,390.7	1,384.3	2.5	3.0	1.32	5.4	128.4	103.6	98.8	4.83	21.469		
1,500.0	1,499.0	1,490.4	1,482.9	2.7	3.3	1.35	6.1	142.8	111.7	106.5	5.17	21.585		
1,600.0	1,598.8	1,590.1	1,581.5	2.9	3.6	1.37	6.7	157.2	119.8	114.3	5.52	21.686		
1,700.0	1,698.6	1,689.7	1,680.2	3.1	3.9	1.39	7.3	171.5	127.9	122.0	5.87	21.775		
1,800.0	1,798.4	1,789.4	1,778.8	3.3	4.2	1.41	8.0	185.9	136.0	129.7	6.22	21.854		
1,900.0	1,898.2	1,889.1	1,877.4	3.5	4.5	1.43	8.6	200.3	144.0	137.5	6.57	21.925		
2,000.0	1,998.0	1,988.7	1,976.1	3.7	4.8	1.44	9.2	214.6	152.1	145.2	6.92	21.988		
2,100.0	2,097.8	2,088.4	2,074.7	3.9	5.1	1.46	9.9	229.0	160.2	153.0	7.27	22.046		
2,200.0	2,197.6	2,188.1	2,173.3	4.1	5.4	1.47	10.5	243.3	168.3	160.7	7.62	22.098		
2,300.0	2,297.4	2,287.8	2,272.0	4.3	5.7	1.48	11.1	257.7	176.4	168.4	7.97	22.146		
2,400.0	2,397.2	2,387.4	2,370.6	4.5	6.0	1.49	11.8	272.1	184.5	176.2	8.31	22.190		
2,500.0	2,497.0	2,487.1	2,469.2	4.7	6.3	1.50	12.4	286.4	192.6	183.9	8.66	22.230		
2,600.0	2,596.8	2,586.8	2,567.8	4.9	6.6	1.51	13.0	300.8	200.7	191.7	9.01	22.267		
2,700.0	2,696.6	2,686.5	2,666.5	5.1	7.0	1.52	13.7	315.2	208.8	199.4	9.36	22.302		
2,800.0	2,796.4	2,786.1	2,765.1	5.3	7.3	1.53	14.3	329.5	216.8	207.1	9.71	22.334		
2,900.0	2,896.2	2,885.8	2,863.7	5.5	7.6	1.53	14.9	343.9	224.9	214.9	10.06	22.364		
3,000.0	2,996.0	2,985.5	2,962.4	5.7	7.9	1.54	15.6	358.2	233.0	222.6	10.41	22.391		
3,100.0	3,095.8	3,085.1	3,061.0	5.9	8.2	1.54	16.2	372.6	241.1	230.4	10.76	22.417		
3,200.0	3,195.6	3,184.8	3,159.6	6.1	8.5	1.55	16.8	387.0	249.2	238.1	11.10	22.442		
3,300.0	3,295.4	3,284.5	3,258.3	6.3	8.8	1.55	17.5	401.3	257.3	245.8	11.45	22.465		
3,400.0	3,395.2	3,384.2	3,356.9	6.5	9.1	1.56	18.1	415.7	265.4	253.6	11.80	22.486		
3,500.0	3,495.0	3,483.8	3,455.5	6.7	9.4	1.56	18.7	430.0	273.5	261.3	12.15	22.507		
3,600.0	3,594.8	3,583.5	3,554.2	6.9	9.7	1.57	19.4	444.4	281.6	269.1	12.50	22.526		
3,700.0	3,694.6	3,683.2	3,652.8	7.1	10.0	1.57	20.0	458.8	289.7	276.8	12.85	22.544		
3,800.0	3,794.4	3,782.8	3,751.4	7.3	10.3	1.58	20.6	473.1	297.7	284.5	13.20	22.561		
3,900.0	3,894.1	3,882.5	3,850.0	7.5	10.6	1.58	21.2	487.5	305.8	292.3	13.55	22.577		
4,000.0	3,993.9	3,982.2	3,948.7	7.7	10.9	1.58	21.9	501.9	313.9	300.0	13.89	22.593		
4,100.0	4,093.7	4,081.9	4,047.3	8.0	11.2	1.59	22.5	516.2	322.0	307.8	14.24	22.608		
4,200.0	4,193.5	4,181.5	4,145.9	8.2	11.5	1.59	23.1	530.6	330.1	315.5	14.59	22.622		
4,300.0	4,293.3	4,281.2	4,244.6	8.4	11.8	1.59	23.8	544.9	338.2	323.2	14.94	22.635		
4,400.0	4,393.1	4,380.9	4,343.2	8.6	12.2	1.60	24.4	559.3	346.3	331.0	15.29	22.648		
4,500.0	4,492.9	4,480.6	4,441.8	8.8	12.5	1.60	25.0	573.7	354.4	338.7	15.64	22.660		
4,600.0	4,592.7	4,580.2	4,540.5	9.0	12.8	1.60	25.7	588.0	362.5	346.5	15.99	22.672		
4,700.0	4,692.5	4,679.9	4,639.1	9.2	13.1	1.60	26.3	602.4	370.5	354.2	16.34	22.683		
4,800.0	4,792.3	4,779.6	4,737.7	9.4	13.4	1.61	26.9	616.8	378.6	361.9	16.68	22.694		
4,900.0	4,892.1	4,879.2	4,836.3	9.6	13.7	1.61	27.6	631.1	386.7	369.7	17.03	22.704		
5,000.0	4,991.9	4,978.9	4,935.0	9.8	14.0	1.61	28.2	645.5	394.8	377.4	17.38	22.714		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,078.6	5,033.6	10.0	14.3	1.61	28.8	659.8	402.9	385.2	17.73	22.723		
5,200.0	5,191.5	5,178.3	5,132.2	10.2	14.6	1.61	29.5	674.2	411.0	392.9	18.08	22.732		
5,300.0	5,291.3	5,277.9	5,230.9	10.4	14.9	1.62	30.1	688.6	419.1	400.6	18.43	22.741		
5,400.0	5,391.1	5,377.6	5,329.5	10.6	15.2	1.62	30.7	702.9	427.2	408.4	18.78	22.750		
5,500.0	5,490.9	5,477.3	5,428.1	10.8	15.5	1.62	31.4	717.3	435.3	416.1	19.13	22.758		
5,600.0	5,590.7	5,576.9	5,526.8	11.0	15.8	1.62	32.0	731.7	443.3	423.9	19.47	22.766		
5,700.0	5,690.5	5,676.6	5,625.4	11.3	16.1	1.62	32.6	746.0	451.4	431.6	19.82	22.773		
5,800.0	5,790.3	5,776.3	5,724.0	11.5	16.4	1.62	33.3	760.4	459.5	439.4	20.17	22.781		
5,900.0	5,890.1	5,876.0	5,822.6	11.7	16.8	1.63	33.9	774.7	467.6	447.1	20.52	22.788		
6,000.0	5,989.9	5,975.6	5,921.3	11.9	17.1	1.63	34.5	789.1	475.7	454.8	20.87	22.794		
6,100.0	6,089.7	6,075.3	6,019.9	12.1	17.4	1.63	35.2	803.5	483.8	462.6	21.22	22.801		
6,200.0	6,189.5	6,175.0	6,118.5	12.3	17.7	1.63	35.8	817.8	491.9	470.3	21.57	22.807		
6,300.0	6,289.3	6,274.7	6,217.2	12.5	18.0	1.63	36.4	832.2	500.0	478.1	21.92	22.814		
6,400.0	6,389.1	6,374.3	6,315.8	12.7	18.3	1.63	37.1	846.6	508.1	485.8	22.26	22.820		
6,500.0	6,488.9	6,474.0	6,414.4	12.9	18.6	1.63	37.7	860.9	516.1	493.5	22.61	22.825		
6,600.0	6,588.7	6,573.7	6,513.1	13.1	18.9	1.64	38.3	875.3	524.2	501.3	22.96	22.831		
6,633.9	6,622.5	6,607.5	6,546.5	13.2	19.0	1.64	38.5	880.1	527.0	503.9	23.08	22.833		
6,650.0	6,638.6	6,623.5	6,562.4	13.2	19.1	-18.03	38.6	882.5	528.3	505.1	23.14	22.834		
6,700.0	6,688.4	6,673.2	6,611.6	13.3	19.2	-55.91	39.0	889.6	532.4	509.1	23.31	22.843		
6,750.0	6,737.9	6,723.4	6,661.2	13.4	19.4	-69.97	38.5	896.9	536.7	513.2	23.48	22.857		
6,800.0	6,786.8	6,774.3	6,711.4	13.5	19.5	-76.51	34.7	904.2	541.0	517.4	23.66	22.869		
6,850.0	6,835.0	6,825.6	6,761.6	13.6	19.7	-80.26	27.2	911.7	545.4	521.6	23.85	22.874		
6,900.0	6,882.2	6,877.3	6,811.5	13.7	19.8	-82.70	16.0	919.2	549.8	525.8	24.05	22.861		
6,950.0	6,928.1	6,929.5	6,860.9	13.9	20.0	-84.42	1.0	926.6	554.3	530.0	24.27	22.834		
7,000.0	6,972.5	6,982.1	6,909.5	14.0	20.2	-85.70	-17.7	934.0	558.7	534.1	24.54	22.765		
7,050.0	7,015.2	7,035.2	6,957.0	14.1	20.3	-86.69	-40.2	941.3	563.0	538.1	24.84	22.661		
7,100.0	7,056.1	7,088.7	7,003.1	14.3	20.5	-87.48	-66.4	948.5	567.2	542.0	25.20	22.511		
7,150.0	7,094.8	7,142.6	7,047.4	14.5	20.7	-88.12	-96.3	955.5	571.4	545.8	25.61	22.310		
7,200.0	7,131.2	7,197.0	7,089.7	14.8	20.9	-88.64	-129.8	962.3	575.4	549.3	26.09	22.054		
7,250.0	7,165.2	7,251.8	7,129.7	15.0	21.2	-89.06	-166.6	968.7	579.2	552.6	26.64	21.739		
7,300.0	7,196.6	7,306.9	7,167.0	15.3	21.4	-89.41	-206.8	974.8	582.9	555.6	27.28	21.367		
7,350.0	7,225.1	7,362.4	7,201.3	15.7	21.7	-89.68	-250.0	980.6	586.3	558.3	28.00	20.942		
7,400.0	7,250.8	7,418.2	7,232.3	16.0	22.0	-89.89	-296.1	985.9	589.5	560.7	28.80	20.469		
7,450.0	7,273.4	7,474.3	7,259.9	16.4	22.4	-90.05	-344.7	990.8	592.4	562.8	29.69	19.956		
7,500.0	7,292.8	7,530.7	7,283.7	16.9	22.8	-90.15	-395.6	995.2	595.1	564.4	30.66	19.412		
7,550.0	7,309.0	7,587.3	7,303.5	17.4	23.2	-90.21	-448.4	999.0	597.4	565.7	31.70	18.845		
7,600.0	7,321.9	7,644.0	7,319.1	17.9	23.6	-90.23	-502.8	1,002.2	599.5	566.7	32.82	18.263		
7,650.0	7,331.3	7,700.8	7,330.5	18.4	24.1	-90.20	-558.5	1,004.8	601.2	567.2	34.01	17.676		
7,700.0	7,337.4	7,757.7	7,337.5	19.0	24.6	-90.13	-614.9	1,006.8	602.6	567.3	35.26	17.089		
7,750.0	7,339.9	7,814.7	7,340.0	19.6	25.2	-90.02	-671.7	1,008.2	603.6	567.0	36.56	16.511		
7,761.7	7,340.0	7,826.8	7,340.0	19.8	25.3	-90.00	-683.8	1,008.4	603.8	566.9	36.85	16.384		
7,800.0	7,340.0	7,865.1	7,340.0	20.2	25.7	-90.00	-722.1	1,009.1	604.5	566.6	37.87	15.961		
7,900.0	7,340.0	7,965.1	7,340.0	21.5	26.7	-90.00	-822.1	1,010.8	606.2	565.6	40.61	14.928		
8,000.0	7,340.0	8,065.1	7,340.0	22.9	27.8	-90.00	-922.1	1,012.6	608.0	564.5	43.46	13.991		
8,100.0	7,340.0	8,165.0	7,340.0	24.3	29.0	-90.00	-1,022.0	1,014.3	609.7	563.3	46.39	13.142		
8,200.0	7,340.0	8,265.0	7,340.0	25.7	30.2	-90.00	-1,122.0	1,016.0	611.5	562.0	49.40	12.376		
8,300.0	7,340.0	8,365.0	7,340.0	27.2	31.5	-90.00	-1,222.0	1,017.8	613.2	560.7	52.48	11.685		
8,400.0	7,340.0	8,465.0	7,340.0	28.7	32.8	-90.00	-1,321.9	1,019.5	614.9	559.3	55.60	11.060		
8,500.0	7,340.0	8,565.0	7,340.0	30.3	34.2	-90.00	-1,421.9	1,021.3	616.7	557.9	58.77	10.493		
8,600.0	7,340.0	8,665.0	7,340.0	31.8	35.6	-90.00	-1,521.9	1,023.0	618.4	556.5	61.98	9.979		
8,700.0	7,340.0	8,764.9	7,340.0	33.4	37.0	-90.00	-1,621.9	1,024.8	620.2	555.0	65.21	9.510		
8,800.0	7,340.0	8,864.9	7,340.0	35.0	38.5	-90.00	-1,721.8	1,026.5	621.9	553.5	68.48	9.082		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink 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	7,340.0	8,964.9	7,340.0	36.6	39.9	-90.00	-1,821.8	1,028.3	623.7	551.9	71.76	8.691	
9,000.0	7,340.0	9,064.9	7,340.0	38.3	41.4	-90.00	-1,921.8	1,030.0	625.4	550.3	75.07	8.331	
9,100.0	7,340.0	9,164.9	7,340.0	39.9	43.0	-90.00	-2,021.7	1,031.7	627.2	548.8	78.39	8.000	
9,200.0	7,340.0	9,264.9	7,340.0	41.5	44.5	-90.00	-2,121.7	1,033.5	628.9	547.2	81.73	7.695	
9,300.0	7,340.0	9,364.9	7,340.0	43.2	46.0	-90.00	-2,221.7	1,035.2	630.7	545.6	85.08	7.412	
9,400.0	7,340.0	9,464.8	7,340.0	44.8	47.6	-90.00	-2,321.6	1,037.0	632.4	544.0	88.45	7.150	
9,500.0	7,340.0	9,564.8	7,340.0	46.5	49.2	-90.00	-2,421.6	1,038.7	634.1	542.3	91.82	6.906	
9,600.0	7,340.0	9,664.8	7,340.0	48.2	50.8	-90.00	-2,521.6	1,040.5	635.9	540.7	95.21	6.679	
9,700.0	7,340.0	9,764.8	7,340.0	49.9	52.4	-90.00	-2,621.5	1,042.2	637.6	539.0	98.60	6.467	
9,800.0	7,340.0	9,864.8	7,340.0	51.6	54.0	-90.00	-2,721.5	1,044.0	639.4	537.4	102.00	6.268	
9,900.0	7,340.0	9,964.8	7,340.0	53.2	55.6	-90.00	-2,821.5	1,045.7	641.1	535.7	105.41	6.082	
10,000.0	7,340.0	10,064.7	7,340.0	54.9	57.2	-90.00	-2,921.5	1,047.5	642.9	534.0	108.83	5.907	
10,100.0	7,340.0	10,164.7	7,340.0	56.6	58.9	-90.00	-3,021.4	1,049.2	644.6	532.4	112.25	5.743	
10,200.0	7,340.0	10,264.7	7,340.0	58.3	60.5	-90.00	-3,121.4	1,050.9	646.4	530.7	115.67	5.588	
10,300.0	7,340.0	10,364.7	7,340.0	60.0	62.2	-90.00	-3,221.4	1,052.7	648.1	529.0	119.10	5.442	
10,400.0	7,340.0	10,464.7	7,340.0	61.7	63.8	-90.00	-3,321.3	1,054.4	649.9	527.3	122.54	5.303	
10,500.0	7,340.0	10,564.7	7,340.0	63.4	65.5	-90.00	-3,421.3	1,056.2	651.6	525.6	125.98	5.172	
10,600.0	7,340.0	10,664.7	7,340.0	65.2	67.1	-90.00	-3,521.3	1,057.9	653.3	523.9	129.42	5.048	
10,700.0	7,340.0	10,764.6	7,340.0	66.9	68.8	-90.00	-3,621.2	1,059.7	655.1	522.2	132.86	4.930	
10,800.0	7,340.0	10,864.6	7,340.0	68.6	70.5	-90.00	-3,721.2	1,061.4	656.8	520.5	136.31	4.819	
10,900.0	7,340.0	10,964.6	7,340.0	70.3	72.2	-90.00	-3,821.2	1,063.2	658.6	518.8	139.77	4.712	
11,000.0	7,340.0	11,064.6	7,340.0	72.0	73.8	-90.00	-3,921.2	1,064.9	660.3	517.1	143.22	4.611	
11,100.0	7,340.0	11,164.6	7,340.0	73.7	75.5	-90.00	-4,021.1	1,066.6	662.1	515.4	146.68	4.514	
11,200.0	7,340.0	11,264.6	7,340.0	75.5	77.2	-90.00	-4,121.1	1,068.4	663.8	513.7	150.14	4.421	
11,300.0	7,340.0	11,364.6	7,340.0	77.2	78.9	-90.00	-4,221.1	1,070.1	665.6	512.0	153.60	4.333	
11,400.0	7,340.0	11,464.5	7,340.0	78.9	80.6	-90.00	-4,321.0	1,071.9	667.3	510.2	157.06	4.249	
11,500.0	7,340.0	11,564.5	7,340.0	80.6	82.3	-90.00	-4,421.0	1,073.6	669.1	508.5	160.53	4.168	
11,600.0	7,340.0	11,664.5	7,340.0	82.4	84.0	-90.00	-4,521.0	1,075.4	670.8	506.8	164.00	4.090	
11,700.0	7,340.0	11,764.5	7,340.0	84.1	85.7	-90.00	-4,620.9	1,077.1	672.5	505.1	167.47	4.016	
11,800.0	7,340.0	11,864.5	7,340.0	85.8	87.4	-90.00	-4,720.9	1,078.9	674.3	503.4	170.94	3.945	
11,854.7	7,340.0	11,918.2	7,340.0	86.8	88.3	-90.00	-4,774.6	1,079.8	675.2	502.4	172.82	3.907 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.91	1.5	40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.91	1.5	40.0	40.0	39.7	0.30	131.753		
200.0	200.0	200.0	200.0	0.3	0.3	87.91	1.5	40.0	40.0	39.4	0.65	61.297		
300.0	300.0	300.0	300.0	0.5	0.5	87.91	1.5	40.0	40.0	39.0	1.00	39.939		
400.0	400.0	400.0	400.0	0.7	0.7	87.91	1.5	40.0	40.0	38.7	1.35	29.619	CC, ES	
500.0	500.0	498.6	498.6	0.8	0.8	87.90	1.5	41.7	41.7	40.0	1.70	24.554		
600.0	600.0	596.9	596.8	1.0	1.0	87.88	1.7	46.7	46.9	44.8	2.06	22.768		
700.0	700.0	694.8	694.3	1.2	1.2	87.86	2.1	55.1	55.5	53.0	2.44	22.716		
800.0	800.0	792.0	790.8	1.4	1.5	87.84	2.5	66.7	67.4	64.6	2.86	23.602		
900.0	900.0	888.3	886.0	1.5	1.8	87.83	3.1	81.5	82.7	79.4	3.31	24.974		
1,000.0	1,000.0	985.9	981.9	1.7	2.1	1.31	3.8	99.0	99.0	95.6	3.42	28.941		
1,082.7	1,082.6	1,067.8	1,062.5	1.9	2.4	1.34	4.4	113.9	110.1	106.3	3.71	29.686		
1,100.0	1,099.8	1,085.0	1,079.4	1.9	2.4	1.35	4.5	117.1	112.1	108.3	3.77	29.759		
1,200.0	1,199.6	1,184.3	1,177.0	2.1	2.7	1.40	5.2	135.2	124.0	119.9	4.12	30.139		
1,300.0	1,299.4	1,283.6	1,274.6	2.3	3.1	1.45	5.9	153.3	136.0	131.5	4.46	30.460		
1,400.0	1,399.2	1,382.9	1,372.3	2.5	3.4	1.48	6.6	171.3	147.9	143.1	4.81	30.736		
1,500.0	1,499.0	1,482.2	1,469.9	2.7	3.8	1.51	7.3	189.4	159.8	154.7	5.16	30.974		
1,600.0	1,598.8	1,581.4	1,567.5	2.9	4.2	1.54	8.0	207.5	171.8	166.3	5.51	31.183		
1,700.0	1,698.6	1,680.7	1,665.1	3.1	4.5	1.56	8.8	225.6	183.7	177.9	5.86	31.367		
1,800.0	1,798.4	1,780.0	1,762.7	3.3	4.9	1.58	9.5	243.7	195.6	189.4	6.21	31.530		
1,900.0	1,898.2	1,879.3	1,860.4	3.5	5.2	1.60	10.2	261.8	207.6	201.0	6.55	31.677		
2,000.0	1,998.0	1,978.6	1,958.0	3.7	5.6	1.61	10.9	279.9	219.5	212.6	6.90	31.808		
2,100.0	2,097.8	2,077.9	2,055.6	3.9	5.9	1.63	11.6	298.0	231.5	224.2	7.25	31.927		
2,200.0	2,197.6	2,177.2	2,153.2	4.1	6.3	1.64	12.3	316.1	243.4	235.8	7.60	32.036		
2,300.0	2,297.4	2,276.4	2,250.8	4.3	6.7	1.65	13.0	334.2	255.3	247.4	7.95	32.135		
2,400.0	2,397.2	2,375.7	2,348.5	4.5	7.0	1.66	13.7	352.3	267.3	259.0	8.29	32.225		
2,500.0	2,497.0	2,475.0	2,446.1	4.7	7.4	1.67	14.4	370.3	279.2	270.5	8.64	32.308		
2,600.0	2,596.8	2,574.3	2,543.7	4.9	7.8	1.68	15.2	388.4	291.1	282.1	8.99	32.385		
2,700.0	2,696.6	2,673.6	2,641.3	5.1	8.1	1.69	15.9	406.5	303.1	293.7	9.34	32.457		
2,800.0	2,796.4	2,772.9	2,738.9	5.3	8.5	1.69	16.6	424.6	315.0	305.3	9.69	32.523		
2,900.0	2,896.2	2,872.2	2,836.6	5.5	8.8	1.70	17.3	442.7	326.9	316.9	10.03	32.584		
3,000.0	2,996.0	2,971.4	2,934.2	5.7	9.2	1.71	18.0	460.8	338.9	328.5	10.38	32.642		
3,100.0	3,095.8	3,070.7	3,031.8	5.9	9.6	1.71	18.7	478.9	350.8	340.1	10.73	32.695		
3,200.0	3,195.6	3,170.0	3,129.4	6.1	9.9	1.72	19.4	497.0	362.7	351.6	11.08	32.746		
3,300.0	3,295.4	3,269.3	3,227.1	6.3	10.3	1.72	20.1	515.1	374.7	363.2	11.42	32.793		
3,400.0	3,395.2	3,368.6	3,324.7	6.5	10.7	1.73	20.8	533.2	386.6	374.8	11.77	32.838		
3,500.0	3,495.0	3,467.9	3,422.3	6.7	11.0	1.73	21.6	551.2	398.5	386.4	12.12	32.879		
3,600.0	3,594.8	3,567.1	3,519.9	6.9	11.4	1.74	22.3	569.3	410.5	398.0	12.47	32.919		
3,700.0	3,694.6	3,666.4	3,617.5	7.1	11.7	1.74	23.0	587.4	422.4	409.6	12.82	32.957		
3,800.0	3,794.4	3,765.7	3,715.2	7.3	12.1	1.75	23.7	605.5	434.3	421.2	13.16	32.992		
3,900.0	3,894.1	3,865.0	3,812.8	7.5	12.5	1.75	24.4	623.6	446.3	432.7	13.51	33.026		
4,000.0	3,993.9	3,964.3	3,910.4	7.7	12.8	1.75	25.1	641.7	458.2	444.3	13.86	33.058		
4,100.0	4,093.7	4,063.6	4,008.0	8.0	13.2	1.76	25.8	659.8	470.1	455.9	14.21	33.088		
4,200.0	4,193.5	4,162.9	4,105.6	8.2	13.6	1.76	26.5	677.9	482.1	467.5	14.56	33.117		
4,300.0	4,293.3	4,262.1	4,203.3	8.4	13.9	1.76	27.2	696.0	494.0	479.1	14.90	33.145		
4,400.0	4,393.1	4,361.4	4,300.9	8.6	14.3	1.77	28.0	714.1	505.9	490.7	15.25	33.171		
4,500.0	4,492.9	4,460.7	4,398.5	8.8	14.7	1.77	28.7	732.2	517.9	502.3	15.60	33.197		
4,600.0	4,592.7	4,560.0	4,496.1	9.0	15.0	1.77	29.4	750.2	529.8	513.8	15.95	33.221		
4,700.0	4,692.5	4,659.3	4,593.7	9.2	15.4	1.77	30.1	768.3	541.7	525.4	16.30	33.244		
4,800.0	4,792.3	4,758.6	4,691.4	9.4	15.8	1.78	30.8	786.4	553.7	537.0	16.64	33.266		
4,900.0	4,892.1	4,857.9	4,789.0	9.6	16.1	1.78	31.5	804.5	565.6	548.6	16.99	33.287		
5,000.0	4,991.9	4,957.1	4,886.6	9.8	16.5	1.78	32.2	822.6	577.5	560.2	17.34	33.308		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,056.4	4,984.2	10.0	16.8	1.78	32.9	840.7	589.5	571.8	17.69	33.327		
5,200.0	5,191.5	5,155.7	5,081.8	10.2	17.2	1.78	33.6	858.8	601.4	583.4	18.03	33.346		
5,300.0	5,291.3	5,255.0	5,179.5	10.4	17.6	1.79	34.4	876.9	613.3	594.9	18.38	33.364		
5,400.0	5,391.1	5,354.3	5,277.1	10.6	17.9	1.79	35.1	895.0	625.3	606.5	18.73	33.382		
5,500.0	5,490.9	5,453.6	5,374.7	10.8	18.3	1.79	35.8	913.1	637.2	618.1	19.08	33.398		
5,600.0	5,590.7	5,552.9	5,472.3	11.0	18.7	1.79	36.5	931.1	649.1	629.7	19.43	33.415		
5,700.0	5,690.5	5,652.1	5,570.0	11.3	19.0	1.79	37.2	949.2	661.1	641.3	19.77	33.430		
5,800.0	5,790.3	5,751.4	5,667.6	11.5	19.4	1.79	37.9	967.3	673.0	652.9	20.12	33.445		
5,900.0	5,890.1	5,850.7	5,765.2	11.7	19.8	1.80	38.6	985.4	684.9	664.5	20.47	33.460		
6,000.0	5,989.9	5,950.0	5,862.8	11.9	20.1	1.80	39.3	1,003.5	696.9	676.0	20.82	33.474		
6,100.0	6,089.7	6,049.3	5,960.4	12.1	20.5	1.80	40.0	1,021.6	708.8	687.6	21.17	33.488		
6,200.0	6,189.5	6,148.6	6,058.1	12.3	20.9	1.80	40.8	1,039.7	720.7	699.2	21.51	33.501		
6,300.0	6,289.3	6,247.9	6,155.7	12.5	21.2	1.80	41.5	1,057.8	732.7	710.8	21.86	33.514		
6,400.0	6,389.1	6,347.1	6,253.3	12.7	21.6	1.80	42.2	1,075.9	744.6	722.4	22.21	33.526		
6,500.0	6,488.9	6,446.4	6,350.9	12.9	21.9	1.80	42.9	1,094.0	756.5	734.0	22.56	33.538		
6,600.0	6,588.7	6,545.7	6,448.5	13.1	22.3	1.81	43.6	1,112.1	768.5	745.6	22.91	33.550		
6,633.9	6,622.5	6,579.4	6,481.6	13.2	22.4	1.81	43.8	1,118.2	772.5	749.5	23.02	33.553		
6,650.0	6,638.6	6,595.4	6,497.3	13.2	22.5	-17.81	44.0	1,121.1	774.4	751.4	23.08	33.555		
6,700.0	6,688.4	6,644.9	6,546.1	13.3	22.7	-55.43	44.3	1,130.1	780.5	757.2	23.25	33.563		
6,750.0	6,737.9	6,694.1	6,594.4	13.4	22.9	-69.19	44.7	1,139.1	786.6	763.2	23.43	33.580		
6,800.0	6,786.8	6,742.7	6,642.3	13.5	23.0	-75.65	45.0	1,148.0	792.9	769.3	23.60	33.605		
6,850.0	6,835.0	6,790.6	6,689.3	13.6	23.2	-79.52	45.4	1,156.7	799.5	775.7	23.77	33.635		
6,900.0	6,882.2	6,838.4	6,736.4	13.7	23.4	-82.28	45.6	1,165.4	806.4	782.5	23.95	33.666		
6,950.0	6,928.1	6,890.8	6,787.8	13.9	23.6	-84.48	43.3	1,174.9	813.6	789.5	24.17	33.669		
7,000.0	6,972.5	6,944.8	6,840.5	14.0	23.8	-86.26	36.9	1,184.7	821.0	796.6	24.41	33.635		
7,050.0	7,015.2	7,000.5	6,894.2	14.1	24.0	-87.75	26.1	1,194.6	828.4	803.7	24.69	33.554		
7,100.0	7,056.1	7,057.9	6,948.6	14.3	24.2	-89.04	10.5	1,204.7	835.9	810.9	25.02	33.409		
7,150.0	7,094.8	7,117.4	7,003.3	14.5	24.4	-90.19	-10.2	1,214.9	843.3	817.9	25.40	33.196		
7,200.0	7,131.2	7,178.8	7,058.0	14.8	24.6	-91.21	-36.3	1,225.0	850.6	824.7	25.86	32.895		
7,250.0	7,165.2	7,242.4	7,111.9	15.0	24.8	-92.14	-68.3	1,235.0	857.6	831.2	26.38	32.507		
7,300.0	7,196.6	7,308.0	7,164.6	15.3	25.1	-92.98	-106.4	1,244.7	864.3	837.3	26.99	32.022		
7,350.0	7,225.1	7,375.9	7,215.1	15.7	25.4	-93.72	-150.6	1,254.1	870.6	842.9	27.69	31.440		
7,400.0	7,250.8	7,445.8	7,262.6	16.0	25.7	-94.38	-201.1	1,262.9	876.4	847.9	28.48	30.769		
7,450.0	7,273.4	7,517.8	7,306.2	16.4	26.0	-94.94	-257.7	1,271.0	881.5	852.2	29.38	30.005		
7,500.0	7,292.8	7,591.6	7,344.9	16.9	26.4	-95.41	-320.1	1,278.2	886.0	855.6	30.37	29.170		
7,550.0	7,309.0	7,666.9	7,377.7	17.4	26.9	-95.77	-387.6	1,284.2	889.6	858.2	31.47	28.271		
7,600.0	7,321.9	7,743.5	7,403.7	17.9	27.4	-96.02	-459.4	1,289.1	892.4	859.8	32.65	27.330		
7,650.0	7,331.3	7,820.9	7,422.2	18.4	27.9	-96.16	-534.5	1,292.5	894.3	860.4	33.93	26.358		
7,700.0	7,337.4	7,898.8	7,432.6	19.0	28.5	-96.18	-611.6	1,294.4	895.2	860.0	35.28	25.379		
7,750.0	7,339.9	7,969.9	7,435.0	19.6	29.0	-96.10	-682.7	1,294.9	895.3	858.7	36.60	24.462		
7,761.7	7,340.0	7,981.6	7,435.0	19.8	29.1	-96.09	-694.3	1,294.9	895.2	858.4	36.85	24.297		
7,761.7	7,340.0	7,981.6	7,435.0	19.8	29.1	-96.09	-694.3	1,294.9	895.2	858.4	36.85	24.297		
7,800.0	7,340.0	8,019.9	7,435.0	20.2	29.5	-96.09	-732.7	1,294.9	895.2	857.4	37.86	23.645		
7,900.0	7,340.0	8,119.9	7,435.0	21.5	30.4	-96.09	-832.7	1,294.9	895.2	854.6	40.59	22.057		
8,000.0	7,340.0	8,219.9	7,435.0	22.9	31.3	-96.09	-932.7	1,294.9	895.2	851.8	43.42	20.617		
8,100.0	7,340.0	8,319.9	7,435.0	24.3	32.4	-96.09	-1,032.7	1,294.9	895.2	848.9	46.35	19.316		
8,200.0	7,340.0	8,419.9	7,435.0	25.7	33.5	-96.09	-1,132.7	1,294.9	895.2	845.9	49.35	18.142		
8,300.0	7,340.0	8,519.9	7,435.0	27.2	34.6	-96.09	-1,232.7	1,294.9	895.2	842.8	52.40	17.083		
8,400.0	7,340.0	8,619.9	7,435.0	28.7	35.8	-96.09	-1,332.7	1,294.9	895.2	839.7	55.51	16.126		
8,500.0	7,340.0	8,719.9	7,435.0	30.3	37.1	-96.09	-1,432.7	1,294.9	895.2	836.6	58.67	15.260		
8,600.0	7,340.0	8,819.9	7,435.0	31.8	38.3	-96.09	-1,532.7	1,294.9	895.2	833.4	61.85	14.473		
8,700.0	7,340.0	8,919.9	7,435.0	33.4	39.7	-96.09	-1,632.7	1,294.9	895.2	830.2	65.07	13.757		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
8,800.0	7,340.0	9,019.9	7,435.0	35.0	41.0	-96.09	-1,732.7	1,294.9	895.2	826.9	68.32	13.104		
8,900.0	7,340.0	9,119.9	7,435.0	36.6	42.4	-96.09	-1,832.7	1,294.9	895.2	823.6	71.59	12.505		
9,000.0	7,340.0	9,219.9	7,435.0	38.3	43.8	-96.09	-1,932.7	1,294.9	895.2	820.4	74.88	11.956		
9,100.0	7,340.0	9,319.9	7,435.0	39.9	45.2	-96.09	-2,032.7	1,294.9	895.2	817.1	78.18	11.451		
9,200.0	7,340.0	9,419.9	7,435.0	41.5	46.7	-96.09	-2,132.7	1,294.9	895.2	813.7	81.50	10.984		
9,300.0	7,340.0	9,519.9	7,435.0	43.2	48.2	-96.09	-2,232.7	1,294.9	895.2	810.4	84.84	10.552		
9,400.0	7,340.0	9,619.9	7,435.0	44.8	49.7	-96.09	-2,332.7	1,294.9	895.2	807.1	88.18	10.152		
9,500.0	7,340.0	9,719.9	7,435.0	46.5	51.2	-96.09	-2,432.7	1,294.9	895.2	803.7	91.54	9.780		
9,600.0	7,340.0	9,819.9	7,435.0	48.2	52.7	-96.09	-2,532.7	1,294.9	895.2	800.3	94.91	9.433		
9,700.0	7,340.0	9,919.9	7,435.0	49.9	54.2	-96.09	-2,632.7	1,294.9	895.2	797.0	98.28	9.109		
9,800.0	7,340.0	10,019.9	7,435.0	51.6	55.8	-96.09	-2,732.7	1,294.9	895.2	793.6	101.67	8.806		
9,900.0	7,340.0	10,119.9	7,435.0	53.2	57.4	-96.09	-2,832.7	1,294.9	895.2	790.2	105.05	8.522		
10,000.0	7,340.0	10,219.9	7,435.0	54.9	58.9	-96.09	-2,932.7	1,294.9	895.2	786.8	108.45	8.255		
10,100.0	7,340.0	10,319.9	7,435.0	56.6	60.5	-96.09	-3,032.7	1,294.9	895.2	783.4	111.85	8.004		
10,200.0	7,340.0	10,419.9	7,435.0	58.3	62.1	-96.09	-3,132.7	1,294.9	895.2	780.0	115.26	7.767		
10,300.0	7,340.0	10,519.9	7,435.0	60.0	63.7	-96.09	-3,232.7	1,294.9	895.2	776.6	118.67	7.544		
10,400.0	7,340.0	10,619.9	7,435.0	61.7	65.3	-96.09	-3,332.7	1,294.9	895.2	773.2	122.09	7.333		
10,500.0	7,340.0	10,719.9	7,435.0	63.4	66.9	-96.09	-3,432.7	1,294.9	895.2	769.7	125.51	7.133		
10,600.0	7,340.0	10,819.9	7,435.0	65.2	68.6	-96.09	-3,532.7	1,294.9	895.2	766.3	128.93	6.944		
10,700.0	7,340.0	10,919.9	7,435.0	66.9	70.2	-96.09	-3,632.7	1,294.9	895.2	762.9	132.36	6.764		
10,800.0	7,340.0	11,019.9	7,435.0	68.6	71.8	-96.09	-3,732.7	1,294.9	895.2	759.5	135.79	6.593		
10,900.0	7,340.0	11,119.9	7,435.0	70.3	73.5	-96.09	-3,832.7	1,294.9	895.2	756.0	139.22	6.430		
11,000.0	7,340.0	11,219.9	7,435.0	72.0	75.1	-96.09	-3,932.7	1,294.9	895.2	752.6	142.66	6.276		
11,100.0	7,340.0	11,319.9	7,435.0	73.7	76.8	-96.09	-4,032.7	1,294.9	895.2	749.1	146.09	6.128		
11,200.0	7,340.0	11,419.9	7,435.0	75.5	78.4	-96.09	-4,132.7	1,294.9	895.2	745.7	149.53	5.987		
11,300.0	7,340.0	11,519.9	7,435.0	77.2	80.1	-96.09	-4,232.7	1,294.9	895.2	742.3	152.98	5.852		
11,400.0	7,340.0	11,619.9	7,435.0	78.9	81.8	-96.09	-4,332.7	1,294.9	895.2	738.8	156.42	5.723		
11,500.0	7,340.0	11,719.9	7,435.0	80.6	83.4	-96.09	-4,432.7	1,294.9	895.2	735.4	159.87	5.600		
11,600.0	7,340.0	11,819.9	7,435.0	82.4	85.1	-96.09	-4,532.7	1,294.9	895.2	731.9	163.32	5.482		
11,700.0	7,340.0	11,919.9	7,435.0	84.1	86.8	-96.09	-4,632.7	1,294.9	895.2	728.5	166.77	5.368		
11,800.0	7,340.0	12,019.9	7,435.0	85.8	88.5	-96.09	-4,732.7	1,294.9	895.2	725.0	170.22	5.259		
11,822.8	7,340.0	12,042.7	7,435.0	86.2	88.8	-96.09	-4,755.5	1,294.9	895.2	724.2	171.01	5.235		
11,854.7	7,340.0	12,057.8	7,435.0	86.8	89.1	-96.09	-4,770.6	1,294.9	895.4	723.6	171.82	5.211 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1K-19H-B2681 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink 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	87.90	1.8	49.8	49.8						
100.0	100.0	100.0	100.0	0.2	0.2	87.90	1.8	49.8	49.8	49.5	0.30	164.001			
200.0	200.0	200.0	200.0	0.3	0.3	87.90	1.8	49.8	49.8	49.2	0.65	76.300			
300.0	300.0	300.0	300.0	0.5	0.5	87.90	1.8	49.8	49.8	48.8	1.00	49.715 CC, ES			
400.0	400.0	398.3	398.2	0.7	0.7	87.90	1.9	51.5	51.5	50.2	1.35	38.148			
500.0	500.0	496.3	496.1	0.8	0.9	87.90	2.1	56.5	56.7	54.9	1.71	33.091			
600.0	600.0	593.8	593.3	1.0	1.1	87.91	2.4	64.8	65.2	63.1	2.10	31.066			
700.0	700.0	690.7	689.5	1.2	1.3	87.91	2.8	76.4	77.1	74.6	2.52	30.599 SF			
800.0	800.0	786.7	784.4	1.4	1.6	87.92	3.3	91.0	92.4	89.4	2.98	30.955			
900.0	900.0	881.6	877.6	1.5	1.9	87.92	3.9	108.6	110.9	107.4	3.49	31.743			
1,000.0	1,000.0	979.1	973.0	1.7	2.3	1.42	4.7	128.8	129.9	126.5	3.41	38.120			
1,082.7	1,082.6	1,060.7	1,052.8	1.9	2.6	1.45	5.3	145.7	143.1	139.4	3.70	38.735			
1,100.0	1,099.8	1,077.8	1,069.5	1.9	2.7	1.46	5.4	149.3	145.7	141.9	3.76	38.783			
1,200.0	1,199.6	1,176.8	1,166.3	2.1	3.1	1.51	6.1	169.9	160.2	156.1	4.10	39.037			
1,300.0	1,299.4	1,275.7	1,263.1	2.3	3.5	1.56	6.9	190.4	174.7	170.2	4.45	39.252			
1,400.0	1,399.2	1,374.6	1,359.9	2.5	3.9	1.59	7.6	211.0	189.2	184.4	4.80	39.436			
1,500.0	1,499.0	1,473.6	1,456.7	2.7	4.3	1.63	8.4	231.6	203.8	198.6	5.15	39.596			
1,600.0	1,598.8	1,572.5	1,553.4	2.9	4.7	1.65	9.1	252.1	218.3	212.8	5.49	39.736			
1,700.0	1,698.6	1,671.4	1,650.2	3.1	5.1	1.68	9.8	272.7	232.8	227.0	5.84	39.860			
1,800.0	1,798.4	1,770.4	1,747.0	3.3	5.5	1.70	10.6	293.2	247.3	241.1	6.19	39.970			
1,900.0	1,898.2	1,869.3	1,843.8	3.5	5.9	1.72	11.3	313.8	261.9	255.3	6.54	40.068			
2,000.0	1,998.0	1,968.3	1,940.5	3.7	6.3	1.73	12.1	334.4	276.4	269.5	6.88	40.157			
2,100.0	2,097.8	2,067.2	2,037.3	3.9	6.7	1.75	12.8	354.9	290.9	283.7	7.23	40.237			
2,200.0	2,197.6	2,166.1	2,134.1	4.1	7.1	1.76	13.5	375.5	305.4	297.8	7.58	40.310			
2,300.0	2,297.4	2,265.1	2,230.9	4.3	7.5	1.78	14.3	396.1	320.0	312.0	7.92	40.377			
2,400.0	2,397.2	2,364.0	2,327.6	4.5	7.9	1.79	15.0	416.6	334.5	326.2	8.27	40.438			
2,500.0	2,497.0	2,463.0	2,424.4	4.7	8.3	1.80	15.8	437.2	349.0	340.4	8.62	40.494			
2,600.0	2,596.8	2,561.9	2,521.2	4.9	8.7	1.81	16.5	457.8	363.5	354.6	8.97	40.546			
2,700.0	2,696.6	2,660.8	2,618.0	5.1	9.1	1.82	17.2	478.3	378.1	368.7	9.31	40.594			
2,800.0	2,796.4	2,759.8	2,714.7	5.3	9.5	1.82	18.0	498.9	392.6	382.9	9.66	40.639			
2,900.0	2,896.2	2,858.7	2,811.5	5.5	9.9	1.83	18.7	519.5	407.1	397.1	10.01	40.681			
3,000.0	2,996.0	2,957.7	2,908.3	5.7	10.3	1.84	19.4	540.0	421.6	411.3	10.35	40.720			
3,100.0	3,095.8	3,056.6	3,005.1	5.9	10.7	1.85	20.2	560.6	436.2	425.5	10.70	40.756			
3,200.0	3,195.6	3,155.5	3,101.8	6.1	11.1	1.85	20.9	581.2	450.7	439.6	11.05	40.790			
3,300.0	3,295.4	3,254.5	3,198.6	6.3	11.5	1.86	21.7	601.7	465.2	453.8	11.40	40.822			
3,400.0	3,395.2	3,353.4	3,295.4	6.5	11.9	1.86	22.4	622.3	479.7	468.0	11.74	40.852			
3,500.0	3,495.0	3,452.4	3,392.2	6.7	12.3	1.87	23.1	642.8	494.3	482.2	12.09	40.881			
3,600.0	3,594.8	3,551.3	3,488.9	6.9	12.7	1.87	23.9	663.4	508.8	496.3	12.44	40.908			
3,700.0	3,694.6	3,650.2	3,585.7	7.1	13.1	1.88	24.6	684.0	523.3	510.5	12.78	40.933			
3,800.0	3,794.4	3,749.2	3,682.5	7.3	13.5	1.88	25.4	704.5	537.8	524.7	13.13	40.957			
3,900.0	3,894.1	3,848.1	3,779.3	7.5	13.9	1.89	26.1	725.1	552.4	538.9	13.48	40.980			
4,000.0	3,993.9	3,947.1	3,876.0	7.7	14.3	1.89	26.8	745.7	566.9	553.1	13.83	41.002			
4,100.0	4,093.7	4,046.0	3,972.8	8.0	14.7	1.89	27.6	766.2	581.4	567.2	14.17	41.022			
4,200.0	4,193.5	4,144.9	4,069.6	8.2	15.1	1.90	28.3	786.8	595.9	581.4	14.52	41.042			
4,300.0	4,293.3	4,243.9	4,166.4	8.4	15.5	1.90	29.1	807.4	610.5	595.6	14.87	41.061			
4,400.0	4,393.1	4,342.8	4,263.1	8.6	16.0	1.90	29.8	827.9	625.0	609.8	15.21	41.079			
4,500.0	4,492.9	4,441.8	4,359.9	8.8	16.4	1.91	30.5	848.5	639.5	623.9	15.56	41.096			
4,600.0	4,592.7	4,540.7	4,456.7	9.0	16.8	1.91	31.3	869.1	654.0	638.1	15.91	41.112			
4,700.0	4,692.5	4,639.6	4,553.5	9.2	17.2	1.91	32.0	889.6	668.6	652.3	16.26	41.128			
4,800.0	4,792.3	4,738.6	4,650.3	9.4	17.6	1.92	32.8	910.2	683.1	666.5	16.60	41.143			
4,900.0	4,892.1	4,837.5	4,747.0	9.6	18.0	1.92	33.5	930.8	697.6	680.7	16.95	41.157			
5,000.0	4,991.9	4,936.5	4,843.8	9.8	18.4	1.92	34.2	951.3	712.1	694.8	17.30	41.171			

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1K-19H-B2681 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,091.7	5,035.4	4,940.6	10.0	18.8	1.92	35.0	971.9	726.7	709.0	17.64	41.184		
5,200.0	5,191.5	5,134.3	5,037.4	10.2	19.2	1.93	35.7	992.4	741.2	723.2	17.99	41.197		
5,300.0	5,291.3	5,233.3	5,134.1	10.4	19.6	1.93	36.5	1,013.0	755.7	737.4	18.34	41.209		
5,400.0	5,391.1	5,332.2	5,230.9	10.6	20.0	1.93	37.2	1,033.6	770.2	751.5	18.69	41.221		
5,500.0	5,490.9	5,431.1	5,327.7	10.8	20.4	1.93	37.9	1,054.1	784.8	765.7	19.03	41.233		
5,600.0	5,590.7	5,530.1	5,424.5	11.0	20.8	1.93	38.7	1,074.7	799.3	779.9	19.38	41.244		
5,700.0	5,690.5	5,629.0	5,521.2	11.3	21.2	1.94	39.4	1,095.3	813.8	794.1	19.73	41.254		
5,800.0	5,790.3	5,728.0	5,618.0	11.5	21.6	1.94	40.1	1,115.8	828.3	808.3	20.07	41.264		
5,900.0	5,890.1	5,826.9	5,714.8	11.7	22.0	1.94	40.9	1,136.4	842.9	822.4	20.42	41.274		
6,000.0	5,989.9	5,925.8	5,811.6	11.9	22.4	1.94	41.6	1,157.0	857.4	836.6	20.77	41.284		
6,100.0	6,089.7	6,024.8	5,908.3	12.1	22.8	1.94	42.4	1,177.5	871.9	850.8	21.12	41.293		
6,200.0	6,189.5	6,123.7	6,005.1	12.3	23.2	1.94	43.1	1,198.1	886.4	865.0	21.46	41.302		
6,300.0	6,289.3	6,222.7	6,101.9	12.5	23.7	1.95	43.8	1,218.7	901.0	879.2	21.81	41.311		
6,400.0	6,389.1	6,321.6	6,198.7	12.7	24.1	1.95	44.6	1,239.2	915.5	893.3	22.16	41.319		
6,500.0	6,488.9	6,420.5	6,295.4	12.9	24.5	1.95	45.3	1,259.8	930.0	907.5	22.50	41.327		
6,600.0	6,588.7	6,519.5	6,392.2	13.1	24.9	1.95	46.1	1,280.4	944.5	921.7	22.85	41.335		
6,633.9	6,622.5	6,553.0	6,425.0	13.2	25.0	1.95	46.3	1,287.3	949.5	926.5	22.97	41.338		
6,650.0	6,638.6	6,569.0	6,440.6	13.2	25.1	-17.63	46.4	1,290.6	951.8	928.8	23.03	41.337		
6,700.0	6,688.4	6,618.3	6,488.9	13.3	25.3	-55.10	46.8	1,300.9	959.1	935.9	23.20	41.338		
6,750.0	6,737.9	6,667.4	6,536.9	13.4	25.5	-68.68	47.2	1,311.1	966.5	943.2	23.38	41.345		
6,800.0	6,786.8	6,715.8	6,584.3	13.5	25.7	-74.91	47.5	1,321.2	974.1	950.5	23.55	41.362		
6,850.0	6,835.0	6,763.5	6,630.9	13.6	25.9	-78.52	47.9	1,331.1	981.8	958.0	23.72	41.386		
6,900.0	6,882.2	6,810.1	6,676.5	13.7	26.1	-80.98	48.2	1,340.8	989.7	965.8	23.90	41.411		
6,950.0	6,928.1	6,855.5	6,720.9	13.9	26.2	-82.84	48.6	1,350.2	998.1	974.0	24.09	41.433		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.90	2.2	59.8	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.90	2.2	59.8	59.9	59.6	0.30	197.169	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	87.90	2.2	59.8	59.9	59.2	0.65	91.731		
300.0	300.0	297.9	297.9	0.5	0.5	87.90	2.3	61.5	61.6	60.6	1.00	61.477		
400.0	400.0	395.6	395.4	0.7	0.7	87.89	2.5	66.5	66.7	65.3	1.37	48.815		
500.0	500.0	492.8	492.3	0.8	0.9	87.88	2.8	74.8	75.2	73.5	1.76	42.763		
600.0	600.0	589.4	588.2	1.0	1.2	87.86	3.2	86.2	87.1	84.9	2.19	39.799	SF	
700.0	700.0	685.1	682.8	1.2	1.5	87.85	3.8	100.8	102.3	99.6	2.66	38.447		
800.0	800.0	779.7	775.7	1.4	1.8	87.84	4.5	118.2	120.8	117.6	3.18	37.991		
900.0	900.0	873.0	866.8	1.5	2.2	87.83	5.3	138.5	142.5	138.7	3.75	38.020		
1,000.0	1,000.0	968.6	959.6	1.7	2.6	1.30	6.2	161.6	165.0	161.6	3.39	48.673		
1,082.7	1,082.6	1,049.7	1,038.2	1.9	3.0	1.32	6.9	181.5	181.3	177.6	3.68	49.304		
1,100.0	1,099.8	1,066.7	1,054.7	1.9	3.1	1.32	7.1	185.6	184.4	180.7	3.74	49.358		
1,200.0	1,199.6	1,165.1	1,150.1	2.1	3.5	1.36	8.0	209.6	202.7	198.6	4.08	49.636		
1,300.0	1,299.4	1,263.4	1,245.4	2.3	4.0	1.38	9.0	233.7	220.9	216.5	4.43	49.872		
1,400.0	1,399.2	1,361.7	1,340.7	2.5	4.4	1.40	9.9	257.7	239.1	234.3	4.78	50.075		
1,500.0	1,499.0	1,460.0	1,436.1	2.7	4.9	1.42	10.8	281.7	257.3	252.2	5.12	50.251		
1,600.0	1,598.8	1,558.4	1,531.4	2.9	5.3	1.44	11.8	305.8	275.6	270.1	5.47	50.405		
1,700.0	1,698.6	1,656.7	1,626.8	3.1	5.8	1.46	12.7	329.8	293.8	288.0	5.81	50.542		
1,800.0	1,798.4	1,755.0	1,722.1	3.3	6.3	1.47	13.7	353.8	312.0	305.9	6.16	50.663		
1,900.0	1,898.2	1,853.3	1,817.4	3.5	6.7	1.48	14.6	377.9	330.3	323.8	6.51	50.772		
2,000.0	1,998.0	1,951.7	1,912.8	3.7	7.2	1.49	15.5	401.9	348.5	341.7	6.85	50.870		
2,100.0	2,097.8	2,050.0	2,008.1	3.9	7.7	1.50	16.5	425.9	366.7	359.5	7.20	50.959		
2,200.0	2,197.6	2,148.3	2,103.4	4.1	8.1	1.51	17.4	450.0	385.0	377.4	7.54	51.039		
2,300.0	2,297.4	2,246.6	2,198.8	4.3	8.6	1.51	18.3	474.0	403.2	395.3	7.89	51.113		
2,400.0	2,397.2	2,345.0	2,294.1	4.5	9.0	1.52	19.3	498.0	421.4	413.2	8.23	51.181		
2,500.0	2,497.0	2,443.3	2,389.5	4.7	9.5	1.53	20.2	522.0	439.7	431.1	8.58	51.243		
2,600.0	2,596.8	2,541.6	2,484.8	4.9	10.0	1.53	21.2	546.1	457.9	449.0	8.93	51.301		
2,700.0	2,696.6	2,639.9	2,580.1	5.1	10.4	1.54	22.1	570.1	476.1	466.9	9.27	51.354		
2,800.0	2,796.4	2,738.2	2,675.5	5.3	10.9	1.54	23.0	594.1	494.4	484.7	9.62	51.404		
2,900.0	2,896.2	2,836.6	2,770.8	5.5	11.4	1.55	24.0	618.2	512.6	502.6	9.96	51.450		
3,000.0	2,996.0	2,934.9	2,866.1	5.7	11.8	1.55	24.9	642.2	530.8	520.5	10.31	51.493		
3,100.0	3,095.8	3,033.2	2,961.5	5.9	12.3	1.56	25.8	666.2	549.1	538.4	10.65	51.534		
3,200.0	3,195.6	3,131.5	3,056.8	6.1	12.7	1.56	26.8	690.3	567.3	556.3	11.00	51.571		
3,300.0	3,295.4	3,229.9	3,152.2	6.3	13.2	1.56	27.7	714.3	585.5	574.2	11.35	51.607		
3,400.0	3,395.2	3,328.2	3,247.5	6.5	13.7	1.57	28.7	738.3	603.8	592.1	11.69	51.640		
3,500.0	3,495.0	3,426.5	3,342.8	6.7	14.1	1.57	29.6	762.4	622.0	609.9	12.04	51.672		
3,600.0	3,594.8	3,524.8	3,438.2	6.9	14.6	1.57	30.5	786.4	640.2	627.8	12.38	51.702		
3,700.0	3,694.6	3,623.2	3,533.5	7.1	15.1	1.58	31.5	810.4	658.4	645.7	12.73	51.730		
3,800.0	3,794.4	3,721.5	3,628.8	7.3	15.5	1.58	32.4	834.4	676.7	663.6	13.07	51.757		
3,900.0	3,894.1	3,819.8	3,724.2	7.5	16.0	1.58	33.3	858.5	694.9	681.5	13.42	51.782		
4,000.0	3,993.9	3,918.1	3,819.5	7.7	16.5	1.58	34.3	882.5	713.1	699.4	13.77	51.806		
4,100.0	4,093.7	4,016.5	3,914.9	8.0	16.9	1.59	35.2	906.5	731.4	717.3	14.11	51.829		
4,200.0	4,193.5	4,114.8	4,010.2	8.2	17.4	1.59	36.2	930.6	749.6	735.2	14.46	51.851		
4,300.0	4,293.3	4,213.1	4,105.5	8.4	17.9	1.59	37.1	954.6	767.8	753.0	14.80	51.872		
4,400.0	4,393.1	4,311.4	4,200.9	8.6	18.3	1.59	38.0	978.6	786.1	770.9	15.15	51.892		
4,500.0	4,492.9	4,409.8	4,296.2	8.8	18.8	1.59	39.0	1,002.7	804.3	788.8	15.49	51.911		
4,600.0	4,592.7	4,508.1	4,391.5	9.0	19.3	1.60	39.9	1,026.7	822.5	806.7	15.84	51.929		
4,700.0	4,692.5	4,606.4	4,486.9	9.2	19.7	1.60	40.8	1,050.7	840.8	824.6	16.19	51.947		
4,800.0	4,792.3	4,704.7	4,582.2	9.4	20.2	1.60	41.8	1,074.8	859.0	842.5	16.53	51.963		
4,900.0	4,892.1	4,803.0	4,677.6	9.6	20.6	1.60	42.7	1,098.8	877.2	860.4	16.88	51.979		
5,000.0	4,991.9	4,901.4	4,772.9	9.8	21.1	1.60	43.7	1,122.8	895.5	878.2	17.22	51.995		

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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										S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2				Offset Site Error:		0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
5,100.0	5,091.7	4,999.7	4,868.2	10.0	21.6	1.60	44.6	1,146.8	913.7	896.1	17.57	52.010				
5,200.0	5,191.5	5,098.0	4,963.6	10.2	22.0	1.61	45.5	1,170.9	931.9	914.0	17.91	52.024				
5,300.0	5,291.3	5,196.3	5,058.9	10.4	22.5	1.61	46.5	1,194.9	950.2	931.9	18.26	52.037				
5,400.0	5,391.1	5,294.7	5,154.2	10.6	23.0	1.61	47.4	1,218.9	968.4	949.8	18.60	52.051				
5,500.0	5,490.9	5,393.0	5,249.6	10.8	23.4	1.61	48.3	1,243.0	986.6	967.7	18.95	52.063				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 2 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink 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	7,340.0	7,364.4	7,361.9	61.7	13.1	-92.92	-4,222.4	618.0	915.0	840.9	74.10	12.348		
10,500.0	7,340.0	7,363.2	7,360.7	63.4	13.1	-92.60	-4,222.4	618.0	818.1	742.2	75.84	10.787		
10,600.0	7,340.0	7,362.0	7,359.5	65.2	13.1	-92.28	-4,222.4	618.0	722.0	644.4	77.57	9.308		
10,700.0	7,340.0	7,360.8	7,358.3	66.9	13.1	-91.96	-4,222.4	618.0	627.2	547.9	79.30	7.909		
10,800.0	7,340.0	7,359.6	7,357.1	68.6	13.1	-91.64	-4,222.4	618.0	534.2	453.2	81.04	6.592		
10,900.0	7,340.0	7,358.5	7,355.9	70.3	13.1	-91.32	-4,222.4	618.0	444.4	361.6	82.77	5.368		
11,000.0	7,340.0	7,357.3	7,354.7	72.0	13.1	-91.00	-4,222.5	618.0	359.9	275.4	84.51	4.258		
11,100.0	7,340.0	7,356.1	7,353.5	73.7	13.1	-90.68	-4,222.5	618.0	285.6	199.3	86.24	3.311		
11,200.0	7,340.0	7,354.9	7,352.3	75.5	13.1	-90.36	-4,222.5	618.0	231.5	143.5	87.97	2.631		
11,289.8	7,340.0	7,353.8	7,351.3	77.0	13.1	-90.07	-4,222.5	618.0	213.4	123.8	89.53	2.383 CC, ES		
11,300.0	7,340.0	7,353.7	7,351.1	77.2	13.1	-90.04	-4,222.5	618.0	213.6	123.9	89.70	2.381 SF		
11,400.0	7,340.0	7,352.5	7,350.0	78.9	13.1	-89.72	-4,222.5	618.0	240.1	148.7	91.43	2.626		
11,500.0	7,340.0	7,351.3	7,348.8	80.6	13.1	-89.40	-4,222.5	618.0	299.5	206.3	93.16	3.215		
11,600.0	7,340.0	7,350.1	7,347.6	82.4	13.0	-89.08	-4,222.5	618.0	376.5	281.6	94.88	3.968		
11,700.0	7,340.0	7,348.9	7,346.4	84.1	13.0	-88.76	-4,222.6	618.0	462.3	365.7	96.61	4.786		
11,800.0	7,340.0	7,347.7	7,345.2	85.8	13.0	-88.44	-4,222.6	618.0	553.0	454.6	98.33	5.624		
11,854.7	7,340.0	7,347.1	7,344.5	86.8	13.0	-88.26	-4,222.6	618.0	603.8	504.5	99.27	6.082		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 32-19 - ENCANA - GYRO														Offset Site Error:	0.0 ft
Survey Program: 100-Geolink 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			
8,200.0	7,340.0	7,331.1	7,329.2	25.7	12.9	90.18	-1,799.9	-301.2	971.3	933.8	37.53	25.880			
8,300.0	7,340.0	7,331.0	7,329.1	27.2	12.9	90.17	-1,799.9	-301.2	905.5	866.4	39.07	23.177			
8,400.0	7,340.0	7,331.0	7,329.0	28.7	12.9	90.17	-1,799.9	-301.2	846.5	805.8	40.63	20.831			
8,500.0	7,340.0	7,330.9	7,329.0	30.3	12.9	90.16	-1,799.9	-301.2	795.7	753.4	42.22	18.845			
8,600.0	7,340.0	7,330.8	7,328.9	31.8	12.9	90.16	-1,799.9	-301.2	754.7	710.9	43.83	17.221			
8,700.0	7,340.0	7,330.8	7,328.9	33.4	12.9	90.15	-1,799.9	-301.2	725.4	679.9	45.45	15.962			
8,800.0	7,340.0	7,330.7	7,328.8	35.0	12.9	90.15	-1,799.9	-301.2	709.0	662.0	47.08	15.061			
8,867.2	7,340.0	7,330.7	7,328.8	36.1	12.9	90.14	-1,799.9	-301.2	705.8	657.7	48.18	14.649 CC, ES			
8,900.0	7,340.0	7,330.6	7,328.7	36.6	12.9	90.14	-1,799.9	-301.2	706.6	657.9	48.72	14.503			
9,000.0	7,340.0	7,330.6	7,328.7	38.3	12.9	90.14	-1,799.9	-301.2	718.2	667.8	50.38	14.257 SF			
9,100.0	7,340.0	7,330.5	7,328.6	39.9	12.9	90.13	-1,799.9	-301.2	743.2	691.2	52.04	14.282			
9,200.0	7,340.0	7,330.5	7,328.5	41.5	12.9	90.13	-1,799.9	-301.2	780.4	726.6	53.71	14.529			
9,300.0	7,340.0	7,330.4	7,328.5	43.2	12.9	90.12	-1,799.9	-301.2	828.0	772.6	55.39	14.948			
9,400.0	7,340.0	7,330.3	7,328.4	44.8	12.9	90.12	-1,799.9	-301.2	884.3	827.3	57.07	15.495			
9,500.0	7,340.0	7,330.3	7,328.4	46.5	12.9	90.11	-1,799.9	-301.2	948.0	889.2	58.76	16.133			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 33-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,600.0	7,340.0	7,342.1	7,339.4	48.2	13.1	90.25	-3,119.8	-397.5	994.0	933.6	60.48	16.436		
9,700.0	7,340.0	7,341.9	7,339.2	49.9	13.1	90.23	-3,119.8	-397.5	938.5	876.3	62.18	15.093		
9,800.0	7,340.0	7,341.7	7,339.0	51.6	13.1	90.22	-3,119.8	-397.5	890.7	826.8	63.88	13.943		
9,900.0	7,340.0	7,341.5	7,338.8	53.2	13.1	90.20	-3,119.8	-397.5	852.0	786.4	65.58	12.991		
10,000.0	7,340.0	7,341.3	7,338.6	54.9	13.1	90.19	-3,119.8	-397.5	823.7	756.4	67.29	12.241		
10,100.0	7,340.0	7,341.1	7,338.4	56.6	13.1	90.17	-3,119.8	-397.5	806.9	737.9	69.00	11.693		
10,187.1	7,340.0	7,340.9	7,338.2	58.1	13.1	90.16	-3,119.8	-397.5	802.1	731.6	70.49	11.379	CC	
10,200.0	7,340.0	7,340.9	7,338.2	58.3	13.1	90.15	-3,119.8	-397.5	802.2	731.5	70.71	11.345	ES	
10,300.0	7,340.0	7,340.6	7,338.0	60.0	13.1	90.14	-3,119.8	-397.5	810.0	737.6	72.43	11.184	SF	
10,400.0	7,340.0	7,340.4	7,337.7	61.7	13.1	90.12	-3,119.8	-397.5	829.9	755.8	74.15	11.193		
10,500.0	7,340.0	7,340.2	7,337.5	63.4	13.1	90.11	-3,119.8	-397.5	861.0	785.1	75.87	11.349		
10,600.0	7,340.0	7,340.0	7,337.3	65.2	13.1	90.09	-3,119.8	-397.5	902.2	824.6	77.59	11.628		
10,700.0	7,340.0	7,339.8	7,337.1	66.9	13.1	90.08	-3,119.8	-397.5	952.1	872.8	79.31	12.005		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 42-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink 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			
8,100.0	7,340.0	7,328.7	7,326.4	24.3	13.0	-90.71	-1,778.6	999.8	954.3	918.2	36.01	26.498		
8,200.0	7,340.0	7,328.1	7,325.8	25.7	13.0	-90.66	-1,778.6	999.8	878.3	840.8	37.52	23.408		
8,300.0	7,340.0	7,327.6	7,325.3	27.2	13.0	-90.60	-1,778.6	999.8	807.6	768.6	39.06	20.676		
8,400.0	7,340.0	7,327.0	7,324.7	28.7	13.0	-90.55	-1,778.6	999.8	743.7	703.1	40.63	18.306		
8,500.0	7,340.0	7,326.4	7,324.1	30.3	13.0	-90.49	-1,778.6	999.8	688.4	646.2	42.21	16.308		
8,600.0	7,340.0	7,325.9	7,323.6	31.8	13.0	-90.44	-1,778.6	999.8	644.0	600.2	43.82	14.697		
8,700.0	7,340.0	7,325.3	7,323.0	33.4	13.0	-90.38	-1,778.6	999.8	612.8	567.4	45.43	13.487		
8,800.0	7,340.0	7,324.7	7,322.4	35.0	13.0	-90.32	-1,778.6	999.8	596.9	549.9	47.07	12.683		
8,845.9	7,340.0	7,324.4	7,322.1	35.8	13.0	-90.30	-1,778.6	999.8	595.2	547.3	47.82	12.446 CC, ES		
8,900.0	7,340.0	7,324.0	7,321.7	36.6	13.0	-90.26	-1,778.6	999.8	597.6	548.9	48.71	12.269		
9,000.0	7,340.0	7,323.4	7,321.1	38.3	13.0	-90.20	-1,778.6	999.8	614.8	564.4	50.36	12.207 SF		
9,100.0	7,340.0	7,322.8	7,320.5	39.9	13.0	-90.14	-1,778.6	999.8	647.1	595.1	52.03	12.439		
9,200.0	7,340.0	7,322.1	7,319.8	41.5	13.0	-90.08	-1,778.6	999.9	692.5	638.8	53.70	12.897		
9,300.0	7,340.0	7,321.5	7,319.2	43.2	13.0	-90.02	-1,778.6	999.9	748.6	693.2	55.37	13.520		
9,400.0	7,340.0	7,320.8	7,318.5	44.8	13.0	-89.95	-1,778.6	999.9	813.2	756.1	57.05	14.252		
9,500.0	7,340.0	7,320.1	7,317.8	46.5	13.0	-89.89	-1,778.6	999.9	884.3	825.6	58.74	15.055		
9,600.0	7,340.0	7,319.4	7,317.1	48.2	13.0	-89.82	-1,778.6	999.9	960.6	900.2	60.43	15.896		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 43-19 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 771-Geolink 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		
9,700.0	7,340.0	7,575.8	7,331.5	49.9	28.8	-89.88	-3,266.5	1,134.1	966.3	903.3	63.01	15.335		
9,800.0	7,340.0	7,575.4	7,331.1	51.6	28.8	-89.85	-3,266.5	1,134.1	903.9	839.2	64.72	13.967		
9,900.0	7,340.0	7,575.1	7,330.8	53.2	28.8	-89.83	-3,266.5	1,134.1	848.7	782.2	66.42	12.777		
10,000.0	7,340.0	7,574.8	7,330.5	54.9	28.8	-89.80	-3,266.5	1,134.1	802.2	734.0	68.13	11.774		
10,100.0	7,340.0	7,574.5	7,330.2	56.6	28.8	-89.78	-3,266.5	1,134.1	766.0	696.1	69.84	10.967		
10,200.0	7,340.0	7,574.2	7,329.9	58.3	28.8	-89.76	-3,266.5	1,134.1	741.6	670.0	71.55	10.364		
10,300.0	7,340.0	7,573.9	7,329.6	60.0	28.8	-89.73	-3,266.5	1,134.0	730.2	656.9	73.27	9.965		
10,333.9	7,340.0	7,573.8	7,329.5	60.6	28.8	-89.72	-3,266.5	1,134.0	729.4	655.5	73.85	9.876 CC, ES		
10,400.0	7,340.0	7,573.6	7,329.3	61.7	28.8	-89.71	-3,266.5	1,134.0	732.4	657.4	74.99	9.767		
10,500.0	7,340.0	7,573.2	7,328.9	63.4	28.8	-89.68	-3,266.5	1,134.0	748.1	671.4	76.71	9.752 SF		
10,600.0	7,340.0	7,572.9	7,328.6	65.2	28.8	-89.66	-3,266.5	1,134.0	776.4	698.0	78.43	9.900		
10,700.0	7,340.0	7,572.6	7,328.3	66.9	28.8	-89.63	-3,266.5	1,134.0	816.1	736.0	80.15	10.182		
10,800.0	7,340.0	7,572.3	7,328.0	68.6	28.8	-89.61	-3,266.5	1,134.0	865.6	783.7	81.88	10.572		
10,900.0	7,340.0	7,572.0	7,327.7	70.3	28.8	-89.58	-3,266.5	1,134.0	923.3	839.7	83.60	11.044		
11,000.0	7,340.0	7,571.7	7,327.4	72.0	28.8	-89.56	-3,266.5	1,134.0	987.8	902.5	85.33	11.576		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS B UNIT 1 - ENCANA - GYRO												Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink 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	
4,500.0	4,492.9	4,517.0	4,514.3	8.8	8.2	66.85	-876.2	672.7	997.6	980.9	16.63	59.970	
4,600.0	4,592.7	4,608.0	4,605.2	9.0	8.3	67.16	-873.7	671.3	991.9	974.9	17.00	58.356	
4,700.0	4,692.5	4,705.5	4,702.7	9.2	8.5	67.49	-871.4	670.1	986.8	969.4	17.37	56.800	
4,800.0	4,792.3	4,804.4	4,801.6	9.4	8.7	67.83	-869.1	669.1	981.8	964.1	17.75	55.313	
4,900.0	4,892.1	4,900.0	4,897.1	9.6	8.9	68.16	-867.1	668.2	977.1	959.0	18.12	53.918	
5,000.0	4,991.9	4,997.7	4,994.8	9.8	9.0	68.51	-865.4	667.3	972.8	954.3	18.50	52.584	
5,100.0	5,091.7	5,094.5	5,091.6	10.0	9.2	68.86	-864.0	666.4	968.8	949.9	18.88	51.325	
5,200.0	5,191.5	5,192.2	5,189.3	10.2	9.4	69.21	-862.8	665.7	965.1	945.8	19.25	50.124	
5,300.0	5,291.3	5,289.5	5,286.6	10.4	9.5	69.58	-861.9	664.8	961.6	942.0	19.63	48.981	
5,400.0	5,391.1	5,390.5	5,387.6	10.6	9.7	69.98	-861.1	663.8	958.3	938.3	20.02	47.871	
5,500.0	5,490.9	5,485.7	5,482.7	10.8	9.9	70.36	-860.5	662.8	955.1	934.7	20.39	46.833	
5,600.0	5,590.7	5,584.0	5,581.0	11.0	10.1	70.76	-860.3	661.9	952.4	931.6	20.78	45.840	
5,700.0	5,690.5	5,682.1	5,679.2	11.3	10.2	71.16	-860.1	661.1	949.8	928.7	21.16	44.893	
5,800.0	5,790.3	5,780.4	5,777.5	11.5	10.4	71.53	-859.9	660.7	947.5	926.0	21.54	43.992	
5,900.0	5,890.1	5,880.4	5,877.5	11.7	10.6	71.90	-859.7	660.6	945.3	923.3	21.92	43.121	
6,000.0	5,989.9	5,981.2	5,978.2	11.9	10.7	72.27	-859.4	660.6	943.0	920.7	22.30	42.277	
6,100.0	6,089.7	6,082.9	6,080.0	12.1	10.9	72.63	-858.9	660.6	940.6	917.9	22.69	41.453	
6,200.0	6,189.5	6,187.2	6,184.3	12.3	11.1	73.02	-858.2	660.3	937.9	914.9	23.08	40.636	
6,300.0	6,289.3	6,290.7	6,287.8	12.5	11.3	73.37	-856.8	660.3	934.8	911.4	23.47	39.833	
6,400.0	6,389.1	6,383.4	6,380.4	12.7	11.4	73.67	-855.5	660.7	931.9	908.1	23.84	39.095	
6,500.0	6,488.9	6,484.5	6,481.5	12.9	11.6	74.00	-854.6	661.3	929.5	905.3	24.22	38.377	
6,600.0	6,588.7	6,584.8	6,581.9	13.1	11.8	74.33	-853.5	661.8	926.9	902.3	24.60	37.674	
6,633.9	6,622.5	6,617.6	6,614.6	13.2	11.8	74.45	-853.2	661.9	926.0	901.3	24.73	37.444	
6,650.0	6,638.6	6,632.8	6,629.8	13.2	11.8	54.73	-853.0	661.9	925.4	900.6	24.78	37.346	
6,700.0	6,688.4	6,679.8	6,676.8	13.3	11.9	16.85	-852.8	661.9	921.6	896.7	24.87	37.058	
6,750.0	6,737.9	6,728.8	6,725.8	13.4	12.0	2.93	-852.7	661.8	914.6	889.7	24.87	36.774	
6,800.0	6,786.8	6,778.9	6,775.9	13.5	12.1	-3.65	-852.4	661.9	904.3	879.5	24.79	36.487	
6,850.0	6,835.0	6,829.2	6,826.3	13.6	12.2	-7.63	-852.1	662.1	890.8	866.2	24.61	36.195	
6,900.0	6,882.2	6,879.2	6,876.2	13.7	12.3	-10.54	-851.5	662.4	874.0	849.6	24.35	35.888	
6,950.0	6,928.1	6,924.9	6,921.9	13.9	12.3	-12.97	-850.8	662.8	854.0	830.0	24.01	35.567	
7,000.0	6,972.5	6,967.2	6,964.2	14.0	12.4	-15.23	-850.3	663.1	831.2	807.6	23.60	35.221	
7,050.0	7,015.2	7,008.7	7,005.7	14.1	12.5	-17.51	-849.8	663.5	805.7	782.6	23.14	34.820	
7,100.0	7,056.1	7,051.0	7,048.0	14.3	12.6	-20.02	-849.4	663.8	777.6	755.0	22.66	34.319	
7,150.0	7,094.8	7,091.0	7,088.0	14.5	12.6	-22.86	-848.8	664.1	747.0	724.8	22.19	33.663	
7,200.0	7,131.2	7,126.4	7,123.4	14.8	12.7	-26.07	-848.3	664.3	714.1	692.3	21.78	32.779	
7,250.0	7,165.2	7,158.8	7,155.7	15.0	12.7	-29.81	-847.9	664.5	679.2	657.7	21.52	31.560	
7,300.0	7,196.6	7,188.7	7,185.7	15.3	12.8	-34.23	-847.6	664.6	642.7	621.2	21.51	29.886	
7,350.0	7,225.1	7,215.8	7,212.8	15.7	12.8	-39.42	-847.4	664.7	604.8	582.9	21.84	27.689	
7,400.0	7,250.8	7,240.0	7,237.0	16.0	12.9	-45.43	-847.3	664.8	565.8	543.2	22.61	25.022	
7,450.0	7,273.4	7,261.5	7,258.5	16.4	12.9	-52.23	-847.2	664.9	526.1	502.3	23.82	22.089	
7,500.0	7,292.8	7,280.2	7,277.2	16.9	13.0	-59.60	-847.2	664.9	486.2	460.8	25.33	19.192	
7,550.0	7,309.0	7,295.9	7,292.9	17.4	13.0	-67.14	-847.2	664.9	446.6	419.7	26.93	16.583	
7,600.0	7,321.9	7,308.8	7,305.8	17.9	13.0	-74.38	-847.3	665.0	408.0	379.6	28.39	14.372	
7,650.0	7,331.3	7,318.5	7,315.5	18.4	13.0	-80.72	-847.3	665.0	371.2	341.7	29.56	12.558	
7,700.0	7,337.4	7,324.7	7,321.7	19.0	13.0	-85.77	-847.3	665.0	337.4	307.0	30.45	11.080	
7,750.0	7,339.9	7,327.4	7,324.4	19.6	13.0	-89.30	-847.3	665.0	308.0	276.8	31.16	9.885	
7,761.7	7,340.0	7,327.6	7,324.6	19.8	13.0	-89.90	-847.3	665.0	301.9	270.6	31.30	9.644	
7,800.0	7,340.0	7,327.7	7,324.7	20.2	13.0	-89.93	-847.3	665.0	284.4	252.6	31.81	8.940	
7,900.0	7,340.0	7,328.0	7,325.0	21.5	13.0	-90.00	-847.3	665.0	260.7	227.5	33.19	7.855	
7,914.6	7,340.0	7,328.1	7,325.0	21.7	13.0	-90.01	-847.3	665.0	260.3	226.9	33.40	7.794 CC, ES, SF	
8,000.0	7,340.0	7,328.3	7,325.3	22.9	13.0	-90.07	-847.3	665.0	273.9	239.3	34.62	7.913	
8,100.0	7,340.0	7,328.6	7,325.6	24.3	13.0	-90.14	-847.3	665.0	319.5	283.5	36.09	8.854	

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 Regnier 1F-19H-B2686
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4978.0ft
Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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													S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS B UNIT 1 - ENCANA - GYRO		Offset Site Error:		0.0 ft	
Survey Program:													100-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
8,200.0	7,340.0	7,329.0	7,325.9	25.7	13.0	-90.21	-847.3	665.0	386.2	348.6	37.60	10.272						
8,300.0	7,340.0	7,329.3	7,326.3	27.2	13.0	-90.28	-847.3	665.0	465.0	425.9	39.14	11.881						
8,400.0	7,340.0	7,329.6	7,326.6	28.7	13.0	-90.35	-847.3	665.0	550.7	510.0	40.70	13.530						
8,500.0	7,340.0	7,329.9	7,326.9	30.3	13.0	-90.42	-847.3	665.0	640.6	598.3	42.29	15.148						
8,600.0	7,340.0	7,330.3	7,327.2	31.8	13.0	-90.49	-847.3	665.0	733.1	689.2	43.90	16.701						
8,700.0	7,340.0	7,330.6	7,327.6	33.4	13.0	-90.56	-847.3	665.0	827.4	781.9	45.52	18.177						
8,800.0	7,340.0	7,330.9	7,327.9	35.0	13.0	-90.64	-847.3	665.0	922.8	875.7	47.15	19.572						

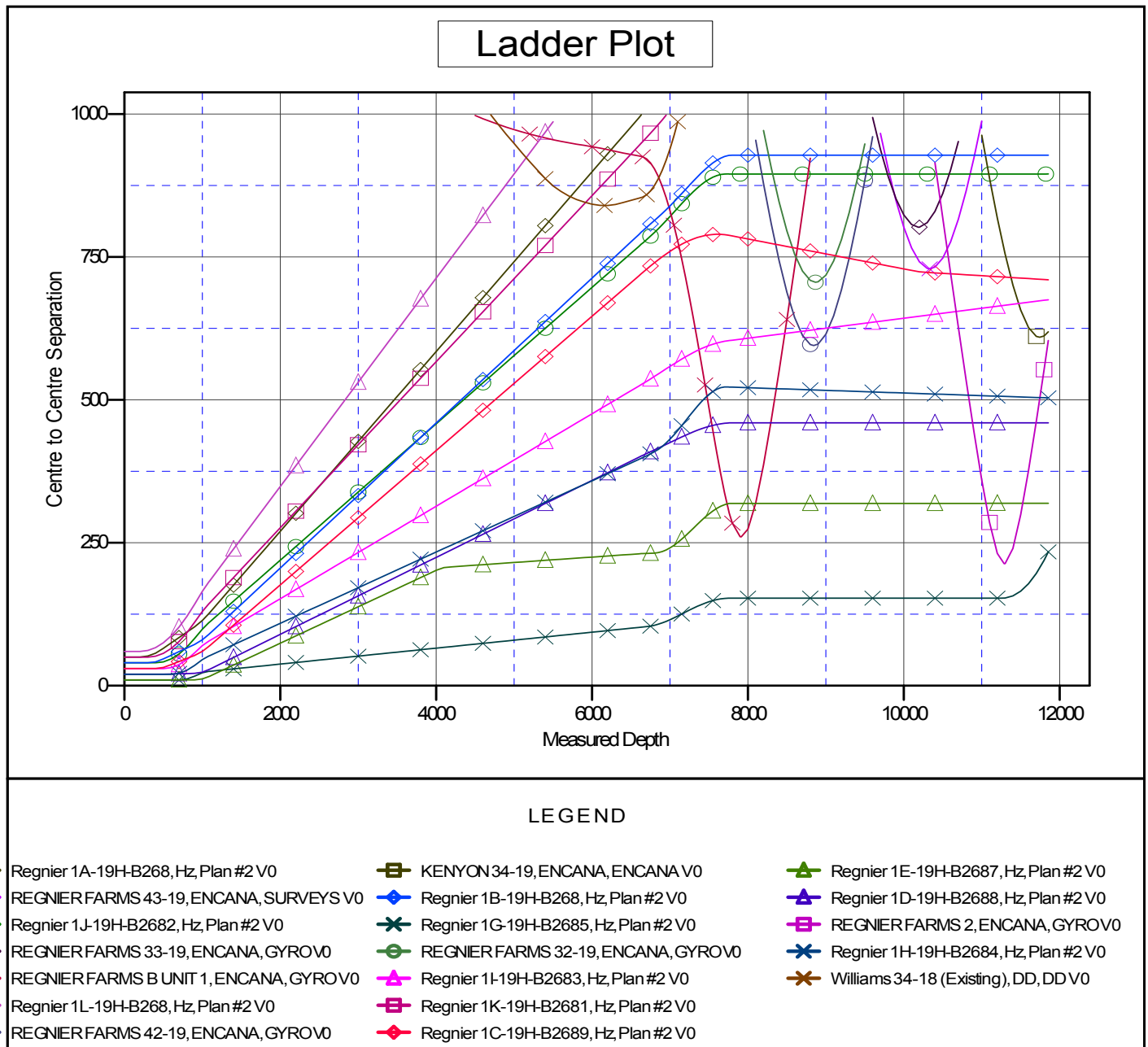
Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1F-19H-B2686
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Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1F-19H-B2686	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 13' KB @ 4978.0ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Regnier 1F-19H-B2686
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.30°



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