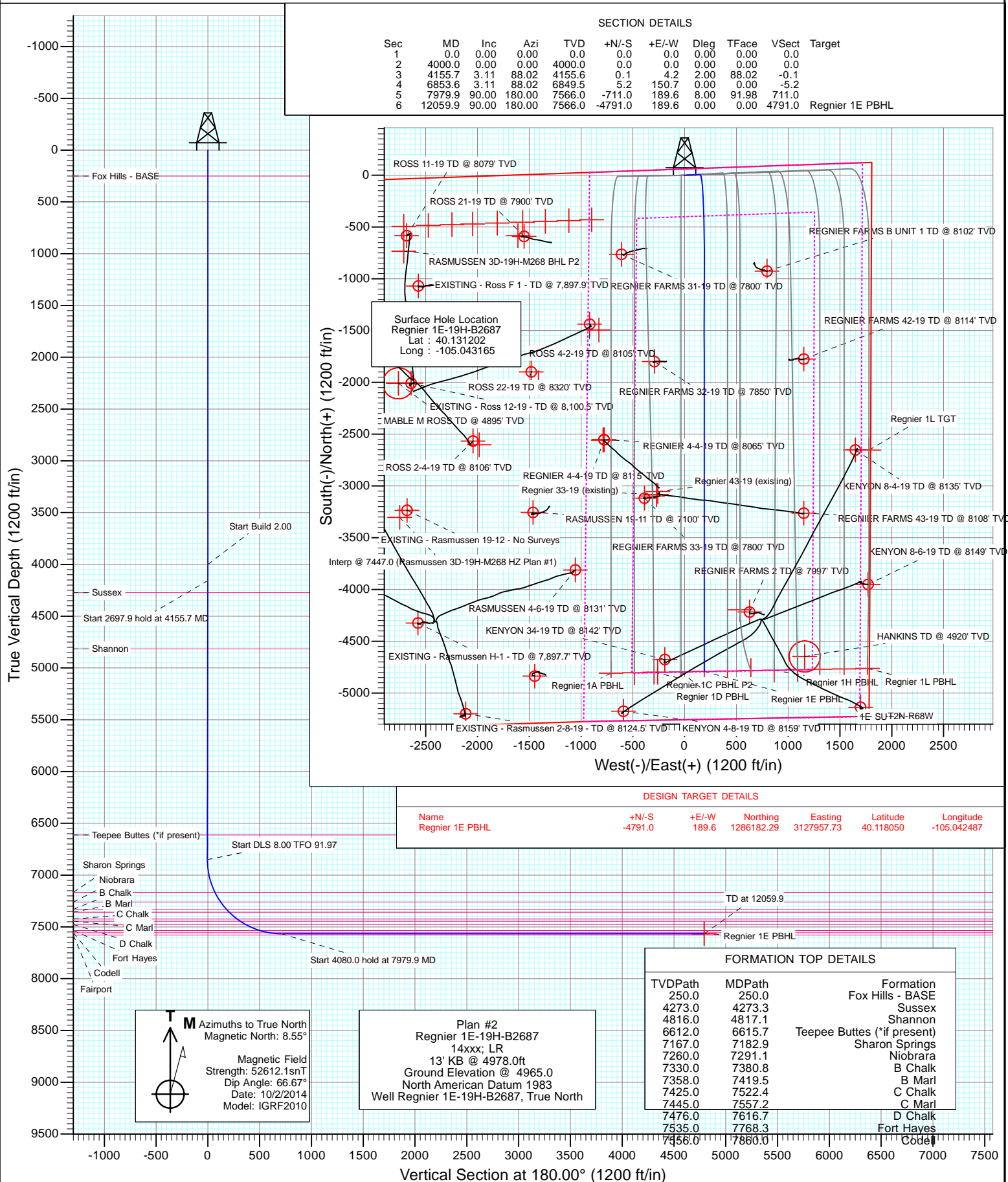




Project: DJ Wattenberg
Site: S19-T2N-R68W (Rasmussen/Regnier)
Well: Regnier 1E-19H-B2687
Vellbore: Hz
Design: Plan #2



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 1E-19H-B2687					
Well Position	+N/-S	0.0 ft	Northing:	1,290,972.24 ft	Latitude:	40.131202
	+E/-W	0.0 ft	Easting:	3,127,743.43 ft	Longitude:	-105.043165
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)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	180.00	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,155.7	3.11	88.02	4,155.6	0.1	4.2	2.00	2.00	0.00	88.02	
6,853.6	3.11	88.02	6,849.5	5.2	150.7	0.00	0.00	0.00	0.00	
7,979.9	90.00	180.00	7,566.0	-711.0	189.6	8.00	7.71	8.17	91.98	
12,059.9	90.00	180.00	7,566.0	-4,791.0	189.6	0.00	0.00	0.00	0.00	Regnier 1E PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	Start Build 2.00
4,100.0	2.00	88.02	4,100.0	0.1	1.7	-0.1	2.00	2.00	
4,155.7	3.11	88.02	4,155.6	0.1	4.2	-0.1	2.00	2.00	Start 2697.9 hold at 4155.7 MD
4,200.0	3.11	88.02	4,199.9	0.2	6.6	-0.2	0.00	0.00	
4,273.3	3.11	88.02	4,273.0	0.4	10.6	-0.4	0.00	0.00	Sussex
4,300.0	3.11	88.02	4,299.7	0.4	12.1	-0.4	0.00	0.00	
4,400.0	3.11	88.02	4,399.6	0.6	17.5	-0.6	0.00	0.00	
4,500.0	3.11	88.02	4,499.4	0.8	22.9	-0.8	0.00	0.00	
4,600.0	3.11	88.02	4,599.3	1.0	28.3	-1.0	0.00	0.00	
4,700.0	3.11	88.02	4,699.1	1.2	33.8	-1.2	0.00	0.00	
4,800.0	3.11	88.02	4,799.0	1.4	39.2	-1.4	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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
4,817.1	3.11	88.02	4,816.0	1.4	40.1	-1.4	0.00	0.00	Shannon
4,900.0	3.11	88.02	4,898.8	1.5	44.6	-1.5	0.00	0.00	
5,000.0	3.11	88.02	4,998.7	1.7	50.1	-1.7	0.00	0.00	
5,100.0	3.11	88.02	5,098.5	1.9	55.5	-1.9	0.00	0.00	
5,200.0	3.11	88.02	5,198.4	2.1	60.9	-2.1	0.00	0.00	
5,300.0	3.11	88.02	5,298.2	2.3	66.3	-2.3	0.00	0.00	
5,400.0	3.11	88.02	5,398.1	2.5	71.8	-2.5	0.00	0.00	
5,500.0	3.11	88.02	5,497.9	2.7	77.2	-2.7	0.00	0.00	
5,600.0	3.11	88.02	5,597.8	2.9	82.6	-2.9	0.00	0.00	
5,700.0	3.11	88.02	5,697.6	3.0	88.1	-3.0	0.00	0.00	
5,800.0	3.11	88.02	5,797.5	3.2	93.5	-3.2	0.00	0.00	Teepee Buttes (*if present)
5,900.0	3.11	88.02	5,897.3	3.4	98.9	-3.4	0.00	0.00	
6,000.0	3.11	88.02	5,997.2	3.6	104.3	-3.6	0.00	0.00	
6,100.0	3.11	88.02	6,097.1	3.8	109.8	-3.8	0.00	0.00	
6,200.0	3.11	88.02	6,196.9	4.0	115.2	-4.0	0.00	0.00	
6,300.0	3.11	88.02	6,296.8	4.2	120.6	-4.2	0.00	0.00	
6,400.0	3.11	88.02	6,396.6	4.4	126.0	-4.4	0.00	0.00	
6,500.0	3.11	88.02	6,496.5	4.5	131.5	-4.5	0.00	0.00	
6,600.0	3.11	88.02	6,596.3	4.7	136.9	-4.7	0.00	0.00	
6,615.7	3.11	88.02	6,612.0	4.8	137.8	-4.8	0.00	0.00	
6,700.0	3.11	88.02	6,696.2	4.9	142.3	-4.9	0.00	0.00	Start DLS 8.00 TFO 91.97
6,800.0	3.11	88.02	6,796.0	5.1	147.8	-5.1	0.00	0.00	
6,853.6	3.11	88.02	6,849.5	5.2	150.7	-5.2	0.00	0.00	
6,900.0	4.76	139.26	6,895.8	3.8	153.2	-3.8	8.00	3.55	
7,000.0	12.01	165.20	6,994.7	-9.4	158.6	9.4	8.00	7.25	
7,100.0	19.84	171.34	7,090.8	-36.3	163.8	36.3	8.00	7.83	
7,182.9	26.41	173.71	7,167.0	-68.6	167.9	68.6	8.00	7.92	
7,200.0	27.77	174.07	7,182.3	-76.3	168.8	76.3	8.00	7.94	
7,291.1	35.02	175.55	7,260.0	-123.6	173.0	123.6	8.00	7.96	
7,300.0	35.72	175.67	7,267.2	-128.7	173.4	128.7	8.00	7.96	Niobrara
7,380.8	42.16	176.56	7,330.0	-179.3	176.8	179.3	8.00	7.97	
7,400.0	43.70	176.74	7,344.1	-192.4	177.6	192.4	8.00	7.97	
7,419.5	45.25	176.91	7,358.0	-206.0	178.3	206.0	8.00	7.98	
7,500.0	51.67	177.54	7,411.4	-266.2	181.2	266.2	8.00	7.98	
7,522.4	53.46	177.69	7,425.0	-284.0	182.0	284.0	8.00	7.98	
7,557.2	56.24	177.92	7,445.0	-312.4	183.0	312.4	8.00	7.98	
7,600.0	59.66	178.18	7,467.7	-348.6	184.3	348.6	8.00	7.98	
7,616.7	60.99	178.27	7,476.0	-363.2	184.7	363.2	8.00	7.98	
7,700.0	67.64	178.72	7,512.1	-438.1	186.7	438.1	8.00	7.99	Fort Hayes
7,768.3	73.09	179.05	7,535.0	-502.4	187.9	502.4	8.00	7.99	
7,800.0	75.63	179.20	7,543.6	-533.0	188.4	533.0	8.00	7.99	
7,860.0	80.42	179.47	7,556.0	-591.6	189.1	591.6	8.00	7.99	
7,900.0	83.62	179.65	7,561.6	-631.2	189.4	631.2	8.00	7.99	
7,979.9	90.00	180.00	7,566.0	-711.0	189.6	711.0	8.00	7.99	
8,000.0	90.00	180.00	7,566.0	-731.1	189.6	731.1	0.00	0.00	
8,100.0	90.00	180.00	7,566.0	-831.1	189.6	831.1	0.00	0.00	
8,200.0	90.00	180.00	7,566.0	-931.1	189.6	931.1	0.00	0.00	
8,300.0	90.00	180.00	7,566.0	-1,031.1	189.6	1,031.1	0.00	0.00	
8,400.0	90.00	180.00	7,566.0	-1,131.1	189.6	1,131.1	0.00	0.00	Start 4080.0 hold at 7979.9 MD
8,500.0	90.00	180.00	7,566.0	-1,231.1	189.6	1,231.1	0.00	0.00	
8,600.0	90.00	180.00	7,566.0	-1,331.1	189.6	1,331.1	0.00	0.00	
8,700.0	90.00	180.00	7,566.0	-1,431.1	189.6	1,431.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	180.00	7,566.0	-1,531.1	189.6	1,531.1	0.00	0.00	
8,900.0	90.00	180.00	7,566.0	-1,631.1	189.6	1,631.1	0.00	0.00	
9,000.0	90.00	180.00	7,566.0	-1,731.1	189.6	1,731.1	0.00	0.00	
9,100.0	90.00	180.00	7,566.0	-1,831.1	189.6	1,831.1	0.00	0.00	
9,200.0	90.00	180.00	7,566.0	-1,931.1	189.6	1,931.1	0.00	0.00	
9,300.0	90.00	180.00	7,566.0	-2,031.1	189.6	2,031.1	0.00	0.00	
9,400.0	90.00	180.00	7,566.0	-2,131.1	189.6	2,131.1	0.00	0.00	
9,500.0	90.00	180.00	7,566.0	-2,231.1	189.6	2,231.1	0.00	0.00	
9,600.0	90.00	180.00	7,566.0	-2,331.1	189.6	2,331.1	0.00	0.00	
9,700.0	90.00	180.00	7,566.0	-2,431.1	189.6	2,431.1	0.00	0.00	
9,800.0	90.00	180.00	7,566.0	-2,531.1	189.6	2,531.1	0.00	0.00	
9,900.0	90.00	180.00	7,566.0	-2,631.1	189.6	2,631.1	0.00	0.00	
10,000.0	90.00	180.00	7,566.0	-2,731.1	189.6	2,731.1	0.00	0.00	
10,100.0	90.00	180.00	7,566.0	-2,831.1	189.6	2,831.1	0.00	0.00	
10,200.0	90.00	180.00	7,566.0	-2,931.1	189.6	2,931.1	0.00	0.00	
10,300.0	90.00	180.00	7,566.0	-3,031.1	189.6	3,031.1	0.00	0.00	
10,400.0	90.00	180.00	7,566.0	-3,131.1	189.6	3,131.1	0.00	0.00	
10,500.0	90.00	180.00	7,566.0	-3,231.1	189.6	3,231.1	0.00	0.00	
10,600.0	90.00	180.00	7,566.0	-3,331.1	189.6	3,331.1	0.00	0.00	
10,700.0	90.00	180.00	7,566.0	-3,431.1	189.6	3,431.1	0.00	0.00	
10,800.0	90.00	180.00	7,566.0	-3,531.1	189.6	3,531.1	0.00	0.00	
10,900.0	90.00	180.00	7,566.0	-3,631.1	189.6	3,631.1	0.00	0.00	
11,000.0	90.00	180.00	7,566.0	-3,731.1	189.6	3,731.1	0.00	0.00	
11,100.0	90.00	180.00	7,566.0	-3,831.1	189.6	3,831.1	0.00	0.00	
11,200.0	90.00	180.00	7,566.0	-3,931.1	189.6	3,931.1	0.00	0.00	
11,300.0	90.00	180.00	7,566.0	-4,031.1	189.6	4,031.1	0.00	0.00	
11,400.0	90.00	180.00	7,566.0	-4,131.1	189.6	4,131.1	0.00	0.00	
11,500.0	90.00	180.00	7,566.0	-4,231.1	189.6	4,231.1	0.00	0.00	
11,600.0	90.00	180.00	7,566.0	-4,331.1	189.6	4,331.1	0.00	0.00	
11,700.0	90.00	180.00	7,566.0	-4,431.1	189.6	4,431.1	0.00	0.00	
11,800.0	90.00	180.00	7,566.0	-4,531.1	189.6	4,531.1	0.00	0.00	
11,900.0	90.00	180.00	7,566.0	-4,631.1	189.6	4,631.1	0.00	0.00	
12,000.0	90.00	180.00	7,566.0	-4,731.1	189.6	4,731.1	0.00	0.00	
12,059.9	90.00	180.00	7,566.0	-4,791.0	189.6	4,791.0	0.00	0.00	TD at 12059.9

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 1E PBHL	0.00	0.30	7,566.0	-4,791.0	189.6	1,286,182.29	3,127,957.73	40.118050	-105.042487
- plan hits target center									
- Point									

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
250.0	250.0	Fox Hills - BASE			
4,273.3	4,273.0	Sussex			
4,817.1	4,816.0	Shannon			
6,615.7	6,612.0	Teepee Buttes (*if present)			
7,182.9	7,167.0	Sharon Springs			
7,291.1	7,260.0	Niobrara			
7,380.8	7,330.0	B Chalk			
7,419.5	7,358.0	B Marl			
7,522.4	7,425.0	C Chalk			
7,557.2	7,445.0	C Marl			
7,616.7	7,476.0	D Chalk			
7,768.3	7,535.0	Fort Hayes			
7,860.0	7,556.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,000.0	4,000.0	0.0	0.0	Start Build 2.00
4,155.7	4,155.6	0.1	4.2	Start 2697.9 hold at 4155.7 MD
6,853.6	6,849.5	5.2	150.7	Start DLS 8.00 TFO 91.97
7,979.9	7,566.0	-711.0	189.6	Start 4080.0 hold at 7979.9 MD
12,059.9	7,566.0	-4,791.0	189.6	TD at 12059.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1E-19H-B2687

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 1E-19H-B2687
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 1E-19H-B2687	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	12,059.9	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S18-T2N-R68W (Williams)						
Williams 34-18 (Existing) - DD - DD	6,235.0	6,387.3	744.7	720.0	30.217	CC, ES
Williams 34-18 (Existing) - DD - DD	6,900.0	7,039.5	757.9	730.6	27.784	SF
Williams 34-18 (Existing) - DD - Plan #1	6,910.9	7,100.0	792.5	765.3	29.162	CC, ES
Williams 34-18 (Existing) - DD - Plan #1	6,950.0	7,128.0	793.8	766.6	29.134	SF
S19-T2N-R68W (Rasmussen/Regnier)						
HANKINS 1 - ENCANA - NO SURVEYS						Out of range
KENYON 34-19 - ENCANA - ENCANA	11,944.9	7,733.4	382.8	283.1	3.837	CC, ES, SF
KENYON 4-8-19 - ENCANA - ENCANA	12,059.9	7,877.6	869.2	761.5	8.071	CC, ES, SF
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 #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	40.0	39.4	61.319	CC, ES
Regnier 1A-19H-B268 - Hz - Plan #2	12,059.9	11,938.4	909.5	738.0	5.303	SF
Regnier 1B-19H-B268 - Hz - Plan #2	300.0	300.0	29.9	28.9	29.884	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	12,059.9	12,056.8	675.1	501.9	3.897	SF
Regnier 1C-19H-B2689 - Hz - Plan #2	400.0	400.0	20.1	18.8	14.913	CC, ES
Regnier 1C-19H-B2689 - Hz - Plan #2	12,059.9	11,836.5	535.1	377.3	3.391	SF
Regnier 1D-19H-B2688 - Hz - Plan #2	500.0	500.0	10.1	8.4	5.925	CC
Regnier 1D-19H-B2688 - Hz - Plan #2	600.0	600.0	10.4	8.4	5.083	ES
Regnier 1D-19H-B2688 - Hz - Plan #2	4,000.0	3,999.9	22.8	8.8	1.635	SF
Regnier 1F-19H-B2686 - Hz - Plan #2	900.0	900.0	10.1	7.0	3.253	CC, ES
Regnier 1F-19H-B2686 - Hz - Plan #2	12,059.9	11,854.7	319.0	194.0	2.552	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	700.0	700.0	19.9	17.5	8.284	CC, ES
Regnier 1G-19H-B2685 - Hz - Plan #2	11,600.0	11,475.8	373.5	226.0	2.533	SF
Regnier 1H-19H-B2684 - Hz - Plan #2	600.0	600.0	29.9	27.9	14.611	CC, ES
Regnier 1H-19H-B2684 - Hz - Plan #2	12,059.9	12,125.7	675.2	502.1	3.901	SF
Regnier 1I-19H-B2683 - Hz - Plan #2	500.0	500.0	40.0	38.3	23.537	CC, ES
Regnier 1I-19H-B2683 - Hz - Plan #2	12,059.9	11,918.2	928.3	760.3	5.524	SF
Regnier 1J-19H-B2682 - Hz - Plan #2	400.0	400.0	50.1	48.7	37.075	CC, ES
Regnier 1J-19H-B2682 - Hz - Plan #2	700.0	693.8	65.5	63.0	26.842	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 1E-19H-B2687
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 1E-19H-B2687	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 Between Centres (ft)		Separation Factor	Warning
S19-T2N-R68W (Rasmussen/Regnier)						
Regnier 1K-19H-B2681 - Hz - Plan #2	300.0	300.0	59.9	58.9	59.769	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	800.0	785.1	102.3	99.3	34.333	SF
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	70.0	69.3	107.162	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	4,000.0	3,874.7	910.3	887.0	39.221	SF
REGNIER 4-4-19 - ENCANA - SURVEYS	9,822.7	7,619.2	967.2	903.5	15.187	CC, ES
REGNIER 4-4-19 - ENCANA - SURVEYS	10,000.0	7,618.8	983.3	916.6	14.743	SF
REGNIER FARMS 2 - ENCANA - GYRO	11,489.5	7,581.6	437.5	347.5	4.861	CC
REGNIER FARMS 2 - ENCANA - GYRO	11,500.0	7,581.6	437.6	347.4	4.853	ES, SF
REGNIER FARMS 31-19 - ENCANA - GYRO	8,031.2	7,552.3	793.6	760.8	24.177	CC, ES
REGNIER FARMS 31-19 - ENCANA - GYRO	8,300.0	7,552.8	837.9	801.3	22.871	SF
REGNIER FARMS 32-19 - ENCANA - GYRO	9,068.5	7,554.8	480.4	431.6	9.858	CC, ES
REGNIER FARMS 32-19 - ENCANA - GYRO	9,100.0	7,554.9	481.4	432.2	9.775	SF
REGNIER FARMS 33-19 - ENCANA - GYRO	10,388.1	7,564.8	577.0	506.0	8.128	CC
REGNIER FARMS 33-19 - ENCANA - GYRO	10,400.0	7,564.8	577.2	506.0	8.107	ES
REGNIER FARMS 33-19 - ENCANA - GYRO	10,500.0	7,564.9	587.8	514.9	8.062	SF
REGNIER FARMS 42-19 - ENCANA - GYRO	9,047.3	7,551.5	819.2	770.8	16.934	CC, ES
REGNIER FARMS 42-19 - ENCANA - GYRO	9,300.0	7,552.5	857.3	804.8	16.314	SF
REGNIER FARMS 43-19 - ENCANA - SURVEYS	10,534.4	7,798.1	955.6	881.3	12.858	CC, ES
REGNIER FARMS 43-19 - ENCANA - SURVEYS	10,700.0	7,797.5	969.8	892.7	12.568	SF
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,117.4	7,565.9	482.8	448.7	14.173	CC, ES
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,200.0	7,566.4	489.8	454.5	13.902	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 1E-19H-B2687
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 1E-19H-B2687	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				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		
4,500.0	4,499.4	4,834.0	4,708.7	7.8	18.4	-99.32	947.9	-154.6	987.5	970.6	16.94	58.296		
4,600.0	4,599.3	4,931.2	4,803.3	8.0	18.9	-99.93	925.6	-155.3	966.1	948.7	17.38	55.581		
4,700.0	4,699.1	5,022.7	4,892.6	8.2	19.2	-100.52	905.6	-156.0	945.6	927.8	17.81	53.088		
4,800.0	4,799.0	5,123.2	4,990.6	8.4	19.7	-101.17	883.4	-156.2	925.0	906.8	18.27	50.631		
4,900.0	4,898.8	5,207.2	5,072.7	8.6	20.0	-101.69	865.7	-155.9	905.3	886.7	18.68	48.465		
5,000.0	4,998.7	5,305.1	5,168.6	8.8	20.4	-102.32	846.0	-155.6	886.8	867.7	19.14	46.332		
5,100.0	5,098.5	5,406.2	5,267.4	8.9	20.8	-103.02	824.7	-155.6	867.5	847.8	19.63	44.199		
5,200.0	5,198.4	5,499.0	5,358.3	9.1	21.2	-103.69	805.7	-155.5	848.8	828.7	20.10	42.237		
5,300.0	5,298.2	5,596.2	5,453.5	9.3	21.5	-104.43	785.9	-155.8	830.5	809.9	20.59	40.324		
5,400.0	5,398.1	5,686.1	5,541.5	9.5	21.9	-105.11	768.0	-155.5	812.6	791.5	21.07	38.565		
5,500.0	5,497.9	5,759.6	5,613.8	9.7	22.1	-105.68	754.7	-155.7	796.8	775.3	21.50	37.058		
5,600.0	5,597.8	5,841.7	5,694.9	9.9	22.4	-106.34	742.2	-156.7	784.1	762.2	21.97	35.691		
5,700.0	5,697.6	5,928.0	5,780.5	10.1	22.6	-106.98	730.6	-157.1	773.0	750.5	22.43	34.459		
5,800.0	5,797.5	6,009.6	5,861.6	10.2	22.8	-107.51	721.7	-157.2	764.3	741.4	22.86	33.431		
5,900.0	5,897.3	6,103.2	5,954.8	10.4	23.0	-108.07	713.0	-156.8	757.0	733.7	23.31	32.475		
6,000.0	5,997.2	6,190.1	6,041.4	10.6	23.2	-108.57	706.0	-156.4	750.9	727.2	23.74	31.636		
6,100.0	6,097.1	6,280.0	6,131.1	10.8	23.3	-109.04	700.5	-156.0	746.8	722.7	24.15	30.919		
6,200.0	6,196.9	6,358.1	6,209.2	11.0	23.4	-109.38	697.7	-155.3	744.8	720.3	24.52	30.379		
6,235.0	6,231.8	6,387.3	6,238.3	11.1	23.4	-109.49	697.1	-155.0	744.7	720.0	24.64	30.217 CC, ES		
6,300.0	6,296.8	6,443.1	6,294.1	11.2	23.5	-109.69	696.5	-154.6	745.1	720.2	24.88	29.944		
6,400.0	6,396.6	6,535.5	6,386.6	11.4	23.6	-110.02	696.7	-154.2	747.0	721.7	25.26	29.569		
6,500.0	6,496.5	6,635.9	6,487.0	11.6	23.6	-110.39	697.3	-154.0	749.3	723.7	25.66	29.202		
6,600.0	6,596.3	6,737.9	6,589.0	11.8	23.7	-110.77	697.6	-153.9	751.4	725.3	26.07	28.827		
6,700.0	6,696.2	6,839.6	6,690.7	11.9	23.8	-111.17	697.5	-154.0	753.3	726.8	26.48	28.450		
6,800.0	6,796.0	6,941.8	6,792.8	12.1	23.9	-111.57	697.1	-154.0	754.9	728.0	26.89	28.075		
6,853.6	6,849.5	6,994.3	6,845.4	12.2	24.0	-111.78	696.8	-153.9	755.7	728.6	27.11	27.881		
6,900.0	6,895.8	7,039.5	6,890.6	12.3	24.0	-163.13	696.6	-154.0	757.9	730.6	27.28	27.784 SF		
6,950.0	6,945.5	7,089.8	6,940.8	12.4	24.1	178.13	696.4	-154.2	763.3	735.9	27.40	27.855		
7,000.0	6,994.7	7,139.7	6,990.7	12.5	24.1	170.69	696.1	-154.4	771.9	744.4	27.46	28.107		
7,050.0	7,043.3	7,189.2	7,040.3	12.6	24.2	166.76	695.8	-154.5	783.5	756.0	27.45	28.539		
7,100.0	7,090.8	7,238.0	7,089.1	12.7	24.2	164.30	695.5	-154.6	798.1	770.7	27.38	29.148		
7,150.0	7,137.2	7,288.0	7,139.1	12.8	24.3	162.58	695.0	-154.6	815.6	788.3	27.25	29.926		
7,200.0	7,182.3	7,335.7	7,186.8	13.0	24.3	161.25	694.3	-154.6	835.9	808.8	27.08	30.869		
7,250.0	7,225.7	7,377.2	7,228.2	13.1	24.4	160.08	693.8	-154.6	859.0	832.2	26.87	31.974		
7,300.0	7,267.2	7,418.3	7,269.3	13.3	24.4	159.03	693.4	-154.6	885.1	858.5	26.63	33.235		
7,350.0	7,306.8	7,458.2	7,309.3	13.5	24.5	158.00	692.9	-154.5	913.9	887.5	26.39	34.625		
7,400.0	7,344.1	7,495.9	7,346.9	13.8	24.5	156.91	692.6	-154.4	945.2	919.0	26.18	36.109		
7,450.0	7,379.0	7,531.2	7,382.2	14.0	24.5	155.70	692.2	-154.3	979.0	953.0	26.02	37.633		

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 1E-19H-B2687
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 1E-19H-B2687	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 - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,700.0	5,697.6	6,009.3	5,906.2	10.1	19.5	-103.25	947.2	-157.4	999.1	977.6	21.42	46.640		
5,800.0	5,797.5	6,106.5	6,001.0	10.2	20.0	-103.91	925.5	-157.7	978.7	956.9	21.88	44.731		
5,900.0	5,897.3	6,203.8	6,095.8	10.4	20.4	-104.59	903.7	-158.0	958.5	936.2	22.35	42.888		
6,000.0	5,997.2	6,301.1	6,190.6	10.6	20.8	-105.31	882.0	-158.4	938.5	915.7	22.83	41.106		
6,100.0	6,097.1	6,398.3	6,285.4	10.8	21.2	-106.06	860.3	-158.7	918.6	895.3	23.32	39.385		
6,200.0	6,196.9	6,495.6	6,380.2	11.0	21.6	-106.83	838.5	-159.0	898.8	875.0	23.83	37.721		
6,300.0	6,296.8	6,592.9	6,475.1	11.2	22.0	-107.65	816.8	-159.3	879.3	854.9	24.35	36.113		
6,400.0	6,396.6	6,690.2	6,569.9	11.4	22.4	-108.49	795.1	-159.6	859.9	835.0	24.88	34.558		
6,500.0	6,496.5	6,775.6	6,653.2	11.6	22.8	-109.26	776.3	-159.9	841.1	815.7	25.38	33.136		
6,600.0	6,596.3	6,852.6	6,728.8	11.8	23.1	-109.93	761.3	-160.1	824.6	798.8	25.84	31.909		
6,700.0	6,696.2	6,930.5	6,805.5	11.9	23.3	-110.57	748.1	-160.3	810.8	784.5	26.30	30.831		
6,800.0	6,796.0	7,000.0	6,874.3	12.1	23.5	-111.11	738.1	-160.4	799.8	773.0	26.72	29.933		
6,853.6	6,849.5	7,051.3	6,925.2	12.2	23.6	-111.48	731.9	-160.5	794.8	767.8	26.98	29.461		
6,900.0	6,895.8	7,088.2	6,961.8	12.3	23.7	-162.77	727.9	-160.6	792.5	765.4	27.14	29.203		
6,910.9	6,906.7	7,100.0	6,973.6	12.3	23.7	-168.83	726.7	-160.6	792.5	765.3	27.18	29.162 CC, ES		
6,950.0	6,945.5	7,128.0	7,001.5	12.4	23.8	178.54	724.2	-160.6	793.8	766.6	27.25	29.134 SF		
7,000.0	6,994.7	7,167.7	7,041.1	12.5	23.9	171.13	721.0	-160.7	798.9	771.6	27.29	29.274		
7,050.0	7,043.3	7,200.0	7,073.3	12.6	23.9	167.17	718.8	-160.7	807.8	780.6	27.27	29.629		
7,100.0	7,090.8	7,245.2	7,118.5	12.7	24.0	164.69	716.3	-160.7	820.4	793.2	27.19	30.170		
7,150.0	7,137.2	7,282.5	7,155.7	12.8	24.0	162.88	714.9	-160.8	836.6	809.5	27.06	30.915		
7,200.0	7,182.3	7,318.4	7,191.6	13.0	24.1	161.44	713.9	-160.8	856.3	829.5	26.89	31.851		
7,250.0	7,225.7	7,352.6	7,225.8	13.1	24.1	160.17	713.4	-160.8	879.5	852.8	26.68	32.964		
7,300.0	7,267.2	7,387.0	7,260.2	13.3	24.1	159.00	713.3	-160.8	905.9	879.4	26.46	34.238		
7,350.0	7,306.8	7,426.6	7,299.8	13.5	24.2	157.93	713.3	-160.8	935.1	908.8	26.22	35.655		
7,400.0	7,344.1	7,463.9	7,337.1	13.8	24.2	156.79	713.3	-160.8	966.8	940.8	26.02	37.162		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		
11,100.0	7,566.0	7,735.9	7,599.7	70.1	22.4	90.86	-4,676.0	-193.2	927.6	842.5	85.15	10.894		
11,200.0	7,566.0	7,735.6	7,599.4	71.8	22.4	90.81	-4,676.0	-193.2	837.5	750.7	86.87	9.641		
11,300.0	7,566.0	7,735.3	7,599.2	73.6	22.4	90.77	-4,676.0	-193.2	750.0	661.4	88.60	8.465		
11,400.0	7,566.0	7,735.1	7,598.9	75.3	22.4	90.73	-4,676.0	-193.2	666.0	575.6	90.33	7.372		
11,500.0	7,566.0	7,734.8	7,598.6	77.0	22.4	90.68	-4,676.0	-193.2	586.9	494.9	92.06	6.376		
11,600.0	7,566.0	7,734.5	7,598.3	78.7	22.4	90.64	-4,676.0	-193.2	515.3	421.5	93.80	5.494		
11,700.0	7,566.0	7,734.2	7,598.0	80.5	22.4	90.59	-4,676.0	-193.2	454.5	358.9	95.53	4.757		
11,800.0	7,566.0	7,733.8	7,597.7	82.2	22.4	90.55	-4,676.0	-193.2	409.3	312.1	97.26	4.209		
11,900.0	7,566.0	7,733.5	7,597.3	83.9	22.4	90.50	-4,676.0	-193.2	385.5	286.5	99.00	3.894		
11,944.9	7,566.0	7,733.4	7,597.2	84.7	22.4	90.48	-4,676.0	-193.2	382.8	283.1	99.78	3.837 CC, ES, SF		
12,000.0	7,566.0	7,733.2	7,597.0	85.7	22.4	90.45	-4,676.0	-193.2	386.8	286.0	100.73	3.840		
12,059.9	7,566.0	7,733.0	7,596.8	86.7	22.4	90.43	-4,676.0	-193.2	399.7	298.0	101.77	3.928		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 4-8-19 - 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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
11,900.0	7,566.0	7,878.2	7,597.8	83.9	32.0	90.28	-5,177.3	-589.0	951.1	846.2	104.92	9.065	
12,000.0	7,566.0	7,877.8	7,597.4	85.7	32.0	90.25	-5,177.3	-589.0	897.4	790.8	106.66	8.414	
12,059.9	7,566.0	7,877.6	7,597.2	86.7	32.0	90.23	-5,177.3	-589.0	869.2	761.5	107.70	8.071 CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		
0.0	0.0	0.0	0.0	0.0	0.0	-92.61	-1.8	-40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.61	-1.8	-40.0	40.0	39.7	0.30	131.801	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-92.61	-1.8	-40.0	40.0	39.4	0.65	61.319		
300.0	300.0	298.6	298.6	0.5	0.5	-92.54	-1.8	-41.7	41.7	40.7	1.00	41.622		
400.0	400.0	396.9	396.8	0.7	0.7	-92.36	-1.9	-46.8	46.9	45.5	1.37	34.253		
500.0	500.0	495.3	494.8	0.8	0.9	-92.15	-2.1	-55.1	55.4	53.6	1.76	31.493		
600.0	600.0	594.9	593.9	1.0	1.1	-91.97	-2.2	-64.4	64.8	62.6	2.16	30.004		
700.0	700.0	694.4	693.0	1.2	1.4	-91.84	-2.4	-73.8	74.2	71.6	2.56	28.933		
800.0	800.0	794.0	792.1	1.4	1.6	-91.73	-2.5	-83.2	83.6	80.6	2.97	28.129		
900.0	900.0	893.5	891.3	1.5	1.8	-91.65	-2.7	-92.5	93.0	89.6	3.38	27.507		
1,000.0	1,000.0	993.1	990.4	1.7	2.1	-91.59	-2.8	-101.9	102.4	98.6	3.79	27.012		
1,100.0	1,100.0	1,092.7	1,089.5	1.9	2.3	-91.53	-3.0	-111.2	111.8	107.6	4.20	26.609		
1,200.0	1,200.0	1,192.2	1,188.6	2.1	2.5	-91.48	-3.1	-120.6	121.2	116.5	4.61	26.274		
1,300.0	1,300.0	1,291.8	1,287.7	2.2	2.8	-91.44	-3.3	-129.9	130.6	125.5	5.02	25.993		
1,400.0	1,400.0	1,391.3	1,386.8	2.4	3.0	-91.41	-3.4	-139.3	140.0	134.5	5.43	25.753		
1,500.0	1,500.0	1,490.9	1,486.0	2.6	3.3	-91.38	-3.6	-148.7	149.4	143.5	5.85	25.545		
1,600.0	1,600.0	1,590.4	1,585.1	2.8	3.5	-91.35	-3.7	-158.0	158.8	152.5	6.26	25.365		
1,700.0	1,700.0	1,690.0	1,684.2	2.9	3.7	-91.33	-3.9	-167.4	168.2	161.5	6.67	25.206		
1,800.0	1,800.0	1,789.6	1,783.3	3.1	4.0	-91.30	-4.0	-176.7	177.6	170.5	7.08	25.065		
1,900.0	1,900.0	1,889.1	1,882.4	3.3	4.2	-91.29	-4.2	-186.1	187.0	179.5	7.50	24.939		
2,000.0	2,000.0	1,988.7	1,981.5	3.5	4.4	-91.27	-4.3	-195.5	196.4	188.5	7.91	24.826		
2,100.0	2,100.0	2,088.2	2,080.7	3.6	4.7	-91.25	-4.5	-204.8	205.8	197.4	8.32	24.724		
2,200.0	2,200.0	2,187.8	2,179.8	3.8	4.9	-91.24	-4.6	-214.2	215.2	206.4	8.74	24.632		
2,300.0	2,300.0	2,287.3	2,278.9	4.0	5.2	-91.22	-4.8	-223.5	224.6	215.4	9.15	24.548		
2,400.0	2,400.0	2,386.9	2,378.0	4.2	5.4	-91.21	-4.9	-232.9	234.0	224.4	9.56	24.471		
2,500.0	2,500.0	2,486.5	2,477.1	4.3	5.6	-91.20	-5.1	-242.2	243.4	233.4	9.97	24.400		
2,600.0	2,600.0	2,586.0	2,576.2	4.5	5.9	-91.19	-5.2	-251.6	252.8	242.4	10.39	24.335		
2,700.0	2,700.0	2,685.6	2,675.4	4.7	6.1	-91.18	-5.4	-261.0	262.2	251.4	10.80	24.274		
2,800.0	2,800.0	2,785.1	2,774.5	4.9	6.4	-91.17	-5.5	-270.3	271.6	260.4	11.21	24.218		
2,900.0	2,900.0	2,884.7	2,873.6	5.0	6.6	-91.16	-5.7	-279.7	281.0	269.4	11.63	24.166		
3,000.0	3,000.0	2,984.2	2,972.7	5.2	6.8	-91.16	-5.8	-289.0	290.4	278.3	12.04	24.118		
3,100.0	3,100.0	3,083.8	3,071.8	5.4	7.1	-91.15	-6.0	-298.4	299.8	287.3	12.45	24.073		
3,200.0	3,200.0	3,183.4	3,170.9	5.6	7.3	-91.14	-6.1	-307.8	309.2	296.3	12.87	24.030		
3,300.0	3,300.0	3,282.9	3,270.0	5.7	7.5	-91.14	-6.3	-317.1	318.6	305.3	13.28	23.990		
3,400.0	3,400.0	3,382.5	3,369.2	5.9	7.8	-91.13	-6.4	-326.5	328.0	314.3	13.69	23.953		
3,500.0	3,500.0	3,482.0	3,468.3	6.1	8.0	-91.12	-6.6	-335.8	337.4	323.3	14.11	23.918		
3,600.0	3,600.0	3,581.6	3,567.4	6.3	8.3	-91.12	-6.7	-345.2	346.8	332.3	14.52	23.884		
3,700.0	3,700.0	3,681.1	3,666.5	6.4	8.5	-91.11	-6.9	-354.5	356.2	341.3	14.93	23.853		
3,800.0	3,800.0	3,780.7	3,765.6	6.6	8.7	-91.11	-7.0	-363.9	365.6	350.2	15.35	23.823		
3,900.0	3,900.0	3,880.3	3,864.7	6.8	9.0	-91.10	-7.2	-373.3	375.0	359.2	15.76	23.795		
4,000.0	4,000.0	3,979.8	3,963.9	7.0	9.2	-91.10	-7.3	-382.6	384.4	368.2	16.17	23.768		
4,100.0	4,100.0	4,079.2	4,062.8	7.1	9.5	-179.12	-7.5	-392.0	395.5	381.3	14.20	27.856		
4,155.7	4,155.6	4,134.3	4,117.7	7.2	9.6	-179.12	-7.6	-397.1	403.2	388.9	14.38	28.049		
4,200.0	4,199.9	4,178.2	4,161.3	7.3	9.7	-179.12	-7.6	-401.3	409.8	395.3	14.53	28.204		
4,300.0	4,299.7	4,277.1	4,259.8	7.5	9.9	-179.13	-7.8	-410.6	424.6	409.7	14.88	28.542		
4,400.0	4,399.6	4,376.0	4,358.3	7.7	10.2	-179.14	-7.9	-419.9	439.4	424.2	15.22	28.865		
4,500.0	4,499.4	4,474.9	4,456.7	7.8	10.4	-179.14	-8.1	-429.2	454.2	438.6	15.57	29.173		
4,600.0	4,599.3	4,573.8	4,555.2	8.0	10.6	-179.15	-8.2	-438.4	469.0	453.0	15.91	29.468		
4,700.0	4,699.1	4,672.7	4,653.6	8.2	10.9	-179.16	-8.4	-447.7	483.8	467.5	16.26	29.751		
4,800.0	4,799.0	4,771.6	4,752.1	8.4	11.1	-179.16	-8.5	-457.0	498.5	481.9	16.61	30.021		
4,900.0	4,898.8	4,870.5	4,850.6	8.6	11.4	-179.17	-8.7	-466.3	513.3	496.4	16.95	30.281		
5,000.0	4,998.7	4,969.4	4,949.0	8.8	11.6	-179.17	-8.8	-475.6	528.1	510.8	17.30	30.530		

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 1E-19H-B2687
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 1E-19H-B2687	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	5,098.5	5,068.3	5,047.5	8.9	11.8	-179.18	-9.0	-484.9	542.9	525.3	17.65	30.769		
5,200.0	5,198.4	5,167.2	5,146.0	9.1	12.1	-179.18	-9.1	-494.2	557.7	539.7	17.99	31.000		
5,300.0	5,298.2	5,266.1	5,244.4	9.3	12.3	-179.18	-9.3	-503.5	572.5	554.2	18.34	31.221		
5,400.0	5,398.1	5,365.0	5,342.9	9.5	12.5	-179.19	-9.4	-512.8	587.3	568.6	18.68	31.434		
5,500.0	5,497.9	5,463.9	5,441.3	9.7	12.8	-179.19	-9.6	-522.1	602.1	583.1	19.03	31.640		
5,600.0	5,597.8	5,562.8	5,539.8	9.9	13.0	-179.19	-9.7	-531.4	616.9	597.5	19.38	31.838		
5,700.0	5,697.6	5,661.7	5,638.3	10.1	13.3	-179.20	-9.9	-540.7	631.7	612.0	19.72	32.029		
5,800.0	5,797.5	5,760.6	5,736.7	10.2	13.5	-179.20	-10.0	-550.0	646.5	626.4	20.07	32.214		
5,900.0	5,897.3	5,859.5	5,835.2	10.4	13.7	-179.20	-10.2	-559.3	661.3	640.9	20.41	32.392		
6,000.0	5,997.2	5,958.4	5,933.6	10.6	14.0	-179.21	-10.3	-568.6	676.1	655.3	20.76	32.565		
6,100.0	6,097.1	6,057.2	6,032.1	10.8	14.2	-179.21	-10.5	-577.9	690.9	669.8	21.11	32.732		
6,200.0	6,196.9	6,156.1	6,130.6	11.0	14.4	-179.21	-10.6	-587.2	705.7	684.2	21.45	32.893		
6,300.0	6,296.8	6,255.0	6,229.0	11.2	14.7	-179.21	-10.8	-596.5	720.5	698.7	21.80	33.049		
6,400.0	6,396.6	6,353.9	6,327.5	11.4	14.9	-179.22	-10.9	-605.8	735.2	713.1	22.15	33.201		
6,500.0	6,496.5	6,452.8	6,426.0	11.6	15.1	-179.22	-11.1	-615.1	750.0	727.5	22.49	33.347		
6,600.0	6,596.3	6,551.7	6,524.4	11.8	15.4	-179.22	-11.2	-624.4	764.8	742.0	22.84	33.490		
6,700.0	6,696.2	6,650.6	6,622.9	11.9	15.6	-179.22	-11.4	-633.7	779.6	756.4	23.18	33.628		
6,800.0	6,796.0	6,749.5	6,721.3	12.1	15.9	-179.22	-11.5	-643.0	794.4	770.9	23.53	33.762		
6,853.6	6,849.5	6,801.3	6,772.8	12.2	16.0	-179.35	-13.4	-647.8	802.4	778.7	23.71	33.837		
6,900.0	6,895.8	6,845.8	6,816.9	12.3	16.1	128.73	-17.9	-652.0	809.3	785.5	23.88	33.898		
6,950.0	6,945.5	6,893.6	6,863.8	12.4	16.2	109.41	-25.8	-656.4	816.8	792.7	24.05	33.957		
7,000.0	6,994.7	6,941.2	6,909.9	12.5	16.3	101.40	-36.9	-660.8	824.2	799.9	24.24	34.005		
7,050.0	7,043.3	6,988.6	6,954.9	12.6	16.5	96.94	-50.9	-665.0	831.5	807.0	24.43	34.035		
7,100.0	7,090.8	7,035.8	6,998.9	12.7	16.6	93.98	-67.8	-669.2	838.6	814.0	24.64	34.040		
7,150.0	7,137.2	7,083.0	7,041.5	12.8	16.7	91.80	-87.5	-673.2	845.6	820.7	24.86	34.011		
7,200.0	7,182.3	7,130.0	7,082.6	13.0	16.9	90.09	-109.9	-677.1	852.3	827.2	25.11	33.938		
7,250.0	7,225.7	7,176.9	7,122.1	13.1	17.0	88.69	-135.0	-680.8	858.9	833.5	25.40	33.811		
7,300.0	7,267.2	7,223.8	7,159.8	13.3	17.2	87.50	-162.5	-684.4	865.1	839.4	25.73	33.620		
7,350.0	7,306.8	7,270.5	7,195.6	13.5	17.4	86.49	-192.4	-687.8	871.0	844.9	26.11	33.355		
7,400.0	7,344.1	7,317.3	7,229.4	13.8	17.7	85.61	-224.6	-690.9	876.6	850.1	26.56	33.011		
7,450.0	7,379.0	7,364.0	7,260.9	14.0	17.9	84.84	-258.8	-693.9	881.8	854.8	27.07	32.582		
7,500.0	7,411.4	7,410.6	7,290.2	14.3	18.2	84.18	-295.1	-696.7	886.7	859.0	27.65	32.066		
7,550.0	7,441.0	7,457.3	7,317.0	14.7	18.5	83.60	-333.2	-699.2	891.1	862.8	28.32	31.467		
7,600.0	7,467.7	7,504.0	7,341.3	15.1	18.8	83.11	-372.9	-701.5	895.1	866.0	29.07	30.790		
7,650.0	7,491.5	7,550.0	7,362.8	15.5	19.2	82.69	-413.6	-703.5	898.6	868.7	29.90	30.050		
7,700.0	7,512.1	7,597.3	7,382.0	16.0	19.6	82.35	-456.8	-705.4	901.7	870.8	30.84	29.238		
7,750.0	7,529.5	7,644.1	7,398.2	16.5	20.0	82.08	-500.6	-706.9	904.2	872.4	31.85	28.389		
7,800.0	7,543.6	7,690.8	7,411.5	17.0	20.4	81.88	-545.4	-708.1	906.3	873.3	32.95	27.509		
7,850.0	7,554.3	7,737.6	7,421.9	17.6	20.9	81.75	-591.0	-709.1	907.8	873.7	34.11	26.613		
7,900.0	7,561.6	7,784.5	7,429.3	18.2	21.3	81.68	-637.3	-709.8	908.9	873.5	35.35	25.713		
7,950.0	7,565.4	7,831.4	7,433.7	18.8	21.9	81.68	-683.9	-710.2	909.4	872.8	36.64	24.821		
7,979.9	7,566.0	7,859.5	7,434.8	19.2	22.2	81.71	-712.0	-710.3	909.5	872.0	37.43	24.296		
7,996.7	7,566.0	7,875.2	7,435.0	19.4	22.3	81.72	-727.8	-710.4	909.5	871.6	37.86	24.023		
8,000.0	7,566.0	7,878.5	7,435.0	19.5	22.4	81.72	-731.1	-710.4	909.5	871.5	37.94	23.968		
8,100.0	7,566.0	7,978.5	7,435.0	20.8	23.5	81.72	-831.1	-710.4	909.5	868.8	40.64	22.378		
8,200.0	7,566.0	8,078.5	7,435.0	22.2	24.8	81.72	-931.1	-710.4	909.5	866.0	43.44	20.935		
8,300.0	7,566.0	8,178.5	7,435.0	23.7	26.1	81.72	-1,031.1	-710.4	909.5	863.1	46.34	19.628		
8,400.0	7,566.0	8,278.5	7,435.0	25.1	27.4	81.72	-1,131.1	-710.4	909.5	860.2	49.30	18.446		
8,500.0	7,566.0	8,378.5	7,435.0	26.7	28.8	81.72	-1,231.1	-710.4	909.5	857.1	52.33	17.378		
8,600.0	7,566.0	8,478.5	7,435.0	28.2	30.3	81.72	-1,331.1	-710.4	909.5	854.0	55.41	16.412		
8,700.0	7,566.0	8,578.5	7,435.0	29.8	31.7	81.72	-1,431.1	-710.4	909.5	850.9	58.54	15.536		
8,800.0	7,566.0	8,678.5	7,435.0	31.4	33.2	81.72	-1,531.1	-710.4	909.5	847.8	61.70	14.739		

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 1E-19H-B2687
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 1E-19H-B2687	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		
8,900.0	7,566.0	8,778.5	7,435.0	33.0	34.7	81.72	-1,631.1	-710.4	909.5	844.6	64.90	14.014		
9,000.0	7,566.0	8,878.5	7,435.0	34.6	36.3	81.72	-1,731.1	-710.4	909.5	841.3	68.12	13.351		
9,100.0	7,566.0	8,978.5	7,435.0	36.2	37.8	81.72	-1,831.1	-710.4	909.5	838.1	71.36	12.744		
9,200.0	7,566.0	9,078.5	7,435.0	37.9	39.4	81.72	-1,931.1	-710.4	909.5	834.8	74.63	12.187		
9,300.0	7,566.0	9,178.5	7,435.0	39.5	41.0	81.72	-2,031.1	-710.4	909.5	831.5	77.91	11.673		
9,400.0	7,566.0	9,278.5	7,435.0	41.2	42.6	81.72	-2,131.1	-710.4	909.5	828.2	81.21	11.199		
9,500.0	7,566.0	9,378.5	7,435.0	42.8	44.2	81.72	-2,231.1	-710.4	909.5	824.9	84.52	10.760		
9,600.0	7,566.0	9,478.5	7,435.0	44.5	45.8	81.72	-2,331.1	-710.4	909.5	821.6	87.85	10.353		
9,700.0	7,566.0	9,578.5	7,435.0	46.2	47.5	81.72	-2,431.1	-710.4	909.5	818.3	91.18	9.974		
9,800.0	7,566.0	9,678.5	7,435.0	47.9	49.1	81.72	-2,531.1	-710.4	909.5	814.9	94.53	9.621		
9,900.0	7,566.0	9,778.5	7,435.0	49.6	50.7	81.72	-2,631.1	-710.4	909.5	811.6	97.88	9.291		
10,000.0	7,566.0	9,878.5	7,435.0	51.3	52.4	81.72	-2,731.1	-710.4	909.5	808.2	101.25	8.983		
10,100.0	7,566.0	9,978.5	7,435.0	53.0	54.1	81.72	-2,831.1	-710.4	909.5	804.8	104.62	8.693		
10,200.0	7,566.0	10,078.5	7,435.0	54.7	55.7	81.72	-2,931.1	-710.4	909.5	801.5	107.99	8.421		
10,300.0	7,566.0	10,178.5	7,435.0	56.4	57.4	81.72	-3,031.1	-710.4	909.5	798.1	111.37	8.166		
10,400.0	7,566.0	10,278.5	7,435.0	58.1	59.1	81.72	-3,131.1	-710.4	909.5	794.7	114.76	7.925		
10,500.0	7,566.0	10,378.5	7,435.0	59.8	60.8	81.72	-3,231.1	-710.4	909.5	791.3	118.15	7.697		
10,600.0	7,566.0	10,478.5	7,435.0	61.5	62.4	81.72	-3,331.1	-710.4	909.5	787.9	121.55	7.482		
10,700.0	7,566.0	10,578.5	7,435.0	63.2	64.1	81.72	-3,431.1	-710.4	909.5	784.5	124.95	7.278		
10,800.0	7,566.0	10,678.5	7,435.0	64.9	65.8	81.72	-3,531.1	-710.4	909.5	781.1	128.36	7.085		
10,900.0	7,566.0	10,778.5	7,435.0	66.7	67.5	81.72	-3,631.1	-710.4	909.5	777.7	131.77	6.902		
11,000.0	7,566.0	10,878.5	7,435.0	68.4	69.2	81.72	-3,731.1	-710.4	909.5	774.3	135.18	6.728		
11,100.0	7,566.0	10,978.5	7,435.0	70.1	70.9	81.72	-3,831.1	-710.4	909.5	770.9	138.59	6.562		
11,200.0	7,566.0	11,078.5	7,435.0	71.8	72.6	81.72	-3,931.1	-710.4	909.5	767.5	142.01	6.404		
11,300.0	7,566.0	11,178.5	7,435.0	73.6	74.3	81.72	-4,031.1	-710.4	909.5	764.0	145.43	6.254		
11,400.0	7,566.0	11,278.5	7,435.0	75.3	76.0	81.72	-4,131.1	-710.4	909.5	760.6	148.85	6.110		
11,500.0	7,566.0	11,378.5	7,435.0	77.0	77.7	81.72	-4,231.1	-710.4	909.5	757.2	152.28	5.972		
11,600.0	7,566.0	11,478.5	7,435.0	78.7	79.5	81.72	-4,331.1	-710.4	909.5	753.8	155.70	5.841		
11,700.0	7,566.0	11,578.5	7,435.0	80.5	81.2	81.72	-4,431.1	-710.4	909.5	750.3	159.13	5.715		
11,800.0	7,566.0	11,678.5	7,435.0	82.2	82.9	81.72	-4,531.1	-710.4	909.5	746.9	162.56	5.595		
11,900.0	7,566.0	11,778.5	7,435.0	83.9	84.6	81.72	-4,631.1	-710.4	909.5	743.5	165.99	5.479		
12,000.0	7,566.0	11,878.5	7,435.0	85.7	86.3	81.72	-4,731.1	-710.4	909.5	740.0	169.43	5.368		
12,059.9	7,566.0	11,938.4	7,435.0	86.7	87.4	81.72	-4,791.0	-710.4	909.5	738.0	171.49	5.303 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		
0.0	0.0	0.0	0.0	0.0	0.0	-92.08	-1.1	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-92.08	-1.1	-29.9	29.9	29.6	0.30	98.584	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-92.08	-1.1	-29.9	29.9	29.3	0.65	45.865		
300.0	300.0	300.0	300.0	0.5	0.5	-92.08	-1.1	-29.9	29.9	28.9	1.00	29.884		
400.0	400.0	398.9	398.9	0.7	0.7	-92.02	-1.1	-31.6	31.7	30.3	1.35	23.426		
500.0	500.0	497.8	497.7	0.8	0.9	-91.86	-1.2	-36.7	36.8	35.1	1.71	21.480		
600.0	600.0	597.6	597.3	1.0	1.1	-91.71	-1.3	-43.0	43.1	41.0	2.08	20.710		
700.0	700.0	697.4	696.9	1.2	1.3	-91.60	-1.4	-49.3	49.5	47.0	2.46	20.143		
800.0	800.0	797.2	796.5	1.4	1.5	-91.51	-1.5	-55.7	55.8	53.0	2.83	19.711		
900.0	900.0	897.0	896.1	1.5	1.7	-91.45	-1.6	-62.0	62.1	58.9	3.21	19.372		
1,000.0	1,000.0	996.8	995.7	1.7	1.9	-91.39	-1.7	-68.3	68.5	64.9	3.59	19.099		
1,100.0	1,100.0	1,096.6	1,095.3	1.9	2.1	-91.35	-1.8	-74.6	74.8	70.9	3.96	18.875		
1,200.0	1,200.0	1,196.4	1,194.9	2.1	2.3	-91.31	-1.8	-81.0	81.2	76.8	4.34	18.688		
1,300.0	1,300.0	1,296.2	1,294.5	2.2	2.5	-91.27	-1.9	-87.3	87.5	82.8	4.72	18.530		
1,400.0	1,400.0	1,396.0	1,394.1	2.4	2.7	-91.24	-2.0	-93.6	93.8	88.7	5.10	18.395		
1,500.0	1,500.0	1,495.8	1,493.7	2.6	2.9	-91.22	-2.1	-99.9	100.2	94.7	5.48	18.277		
1,600.0	1,600.0	1,595.6	1,593.3	2.8	3.1	-91.20	-2.2	-106.3	106.5	100.6	5.86	18.174		
1,700.0	1,700.0	1,695.4	1,692.8	2.9	3.3	-91.18	-2.3	-112.6	112.8	106.6	6.24	18.083		
1,800.0	1,800.0	1,795.2	1,792.4	3.1	3.5	-91.16	-2.4	-118.9	119.2	112.6	6.62	18.003		
1,900.0	1,900.0	1,895.0	1,892.0	3.3	3.7	-91.15	-2.5	-125.2	125.5	118.5	7.00	17.931		
2,000.0	2,000.0	1,994.8	1,991.6	3.5	3.9	-91.13	-2.6	-131.6	131.8	124.5	7.38	17.866		
2,100.0	2,100.0	2,094.6	2,091.2	3.6	4.1	-91.12	-2.7	-137.9	138.2	130.4	7.76	17.807		
2,200.0	2,200.0	2,194.4	2,190.8	3.8	4.3	-91.11	-2.8	-144.2	144.5	136.4	8.14	17.754		
2,300.0	2,300.0	2,294.2	2,290.4	4.0	4.5	-91.10	-2.9	-150.5	150.9	142.3	8.52	17.705		
2,400.0	2,400.0	2,394.0	2,390.0	4.2	4.7	-91.09	-3.0	-156.9	157.2	148.3	8.90	17.660		
2,500.0	2,500.0	2,493.8	2,489.6	4.3	4.9	-91.08	-3.1	-163.2	163.5	154.3	9.28	17.619		
2,600.0	2,600.0	2,593.6	2,589.2	4.5	5.1	-91.07	-3.2	-169.5	169.9	160.2	9.66	17.582		
2,700.0	2,700.0	2,693.4	2,688.8	4.7	5.4	-91.06	-3.3	-175.8	176.2	166.2	10.04	17.546		
2,800.0	2,800.0	2,793.2	2,788.4	4.9	5.6	-91.05	-3.3	-182.2	182.5	172.1	10.42	17.514		
2,900.0	2,900.0	2,893.0	2,888.0	5.0	5.8	-91.05	-3.4	-188.5	188.9	178.1	10.80	17.484		
3,000.0	3,000.0	2,992.8	2,987.6	5.2	6.0	-91.04	-3.5	-194.8	195.2	184.0	11.18	17.455		
3,100.0	3,100.0	3,092.6	3,087.2	5.4	6.2	-91.03	-3.6	-201.1	201.6	190.0	11.56	17.429		
3,200.0	3,200.0	3,192.4	3,186.8	5.6	6.4	-91.03	-3.7	-207.4	207.9	196.0	11.95	17.404		
3,300.0	3,300.0	3,292.2	3,286.4	5.7	6.6	-91.02	-3.8	-213.8	214.2	201.9	12.33	17.381		
3,400.0	3,400.0	3,392.0	3,386.0	5.9	6.8	-91.02	-3.9	-220.1	220.6	207.9	12.71	17.359		
3,500.0	3,500.0	3,491.8	3,485.6	6.1	7.0	-91.01	-4.0	-226.4	226.9	213.8	13.09	17.338		
3,600.0	3,600.0	3,591.6	3,585.2	6.3	7.2	-91.01	-4.1	-232.7	233.2	219.8	13.47	17.319		
3,700.0	3,700.0	3,691.4	3,684.8	6.4	7.4	-91.01	-4.2	-239.1	239.6	225.7	13.85	17.301		
3,800.0	3,800.0	3,791.2	3,784.4	6.6	7.6	-91.00	-4.3	-245.4	245.9	231.7	14.23	17.283		
3,900.0	3,900.0	3,891.0	3,884.0	6.8	7.8	-91.00	-4.4	-251.7	252.3	237.6	14.61	17.267		
4,000.0	4,000.0	3,990.8	3,983.6	7.0	8.0	-90.99	-4.5	-258.0	258.6	243.6	14.99	17.251		
4,100.0	4,100.0	4,090.5	4,083.1	7.1	8.2	-179.02	-4.6	-264.4	266.7	252.4	14.23	18.741		
4,155.7	4,155.6	4,145.8	4,138.3	7.2	8.4	-179.02	-4.6	-267.9	272.7	258.3	14.41	18.924		
4,200.0	4,199.9	4,189.8	4,182.2	7.3	8.4	-179.03	-4.7	-270.7	277.9	263.3	14.56	19.081		
4,300.0	4,299.7	4,289.1	4,281.4	7.5	8.6	-179.05	-4.8	-276.9	289.6	274.7	14.91	19.424		
4,400.0	4,399.6	4,388.4	4,380.5	7.7	8.9	-179.06	-4.9	-283.2	301.4	286.1	15.26	19.752		
4,500.0	4,499.4	4,487.7	4,479.6	7.8	9.1	-179.07	-4.9	-289.5	313.1	297.5	15.61	20.065		
4,600.0	4,599.3	4,587.1	4,578.7	8.0	9.3	-179.08	-5.0	-295.8	324.9	308.9	15.95	20.365		
4,700.0	4,699.1	4,686.4	4,677.8	8.2	9.5	-179.09	-5.1	-302.1	336.6	320.3	16.30	20.652		
4,800.0	4,799.0	4,785.7	4,776.9	8.4	9.7	-179.10	-5.2	-308.4	348.4	331.7	16.65	20.927		
4,900.0	4,898.8	4,885.0	4,876.0	8.6	9.9	-179.11	-5.3	-314.7	360.1	343.1	16.99	21.190		
5,000.0	4,998.7	4,984.3	4,975.1	8.8	10.1	-179.12	-5.4	-321.0	371.9	354.5	17.34	21.443		

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 1E-19H-B2687
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 1E-19H-B2687	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	5,098.5	5,083.6	5,074.2	8.9	10.3	-179.13	-5.5	-327.3	383.6	365.9	17.69	21.687		
5,200.0	5,198.4	5,182.9	5,173.3	9.1	10.5	-179.14	-5.6	-333.6	395.4	377.3	18.04	21.920		
5,300.0	5,298.2	5,282.2	5,272.4	9.3	10.7	-179.15	-5.7	-339.9	407.1	388.7	18.38	22.145		
5,400.0	5,398.1	5,381.5	5,371.5	9.5	10.9	-179.15	-5.8	-346.2	418.9	400.1	18.73	22.362		
5,500.0	5,497.9	5,480.8	5,470.7	9.7	11.1	-179.16	-5.9	-352.5	430.6	411.5	19.08	22.571		
5,600.0	5,597.8	5,580.1	5,569.8	9.9	11.3	-179.17	-6.0	-358.7	442.4	422.9	19.43	22.772		
5,700.0	5,697.6	5,679.4	5,668.9	10.1	11.5	-179.17	-6.1	-365.0	454.1	434.3	19.77	22.966		
5,800.0	5,797.5	5,778.7	5,768.0	10.2	11.7	-179.18	-6.2	-371.3	465.8	445.7	20.12	23.154		
5,900.0	5,897.3	5,878.1	5,867.1	10.4	11.9	-179.18	-6.3	-377.6	477.6	457.1	20.47	23.335		
6,000.0	5,997.2	5,977.4	5,966.2	10.6	12.1	-179.19	-6.3	-383.9	489.3	468.5	20.81	23.510		
6,100.0	6,097.1	6,076.7	6,065.3	10.8	12.3	-179.19	-6.4	-390.2	501.1	479.9	21.16	23.679		
6,200.0	6,196.9	6,176.0	6,164.4	11.0	12.5	-179.20	-6.5	-396.5	512.8	491.3	21.51	23.843		
6,300.0	6,296.8	6,275.3	6,263.5	11.2	12.8	-179.20	-6.6	-402.8	524.6	502.7	21.86	24.002		
6,400.0	6,396.6	6,374.6	6,362.6	11.4	13.0	-179.21	-6.7	-409.1	536.3	514.1	22.20	24.155		
6,500.0	6,496.5	6,473.9	6,461.7	11.6	13.2	-179.21	-6.8	-415.4	548.1	525.5	22.55	24.304		
6,600.0	6,596.3	6,573.2	6,560.8	11.8	13.4	-179.21	-6.9	-421.7	559.8	536.9	22.90	24.449		
6,700.0	6,696.2	6,672.5	6,659.9	11.9	13.6	-179.22	-7.0	-428.0	571.6	548.3	23.25	24.589		
6,800.0	6,796.0	6,771.8	6,759.1	12.1	13.8	-179.22	-7.1	-434.3	583.3	559.7	23.59	24.725		
6,853.6	6,849.5	6,825.0	6,812.2	12.2	13.9	-179.22	-7.1	-437.6	589.6	565.8	23.78	24.796		
6,900.0	6,895.8	6,871.0	6,858.0	12.3	14.0	129.34	-7.2	-440.5	595.0	571.1	23.94	24.854		
6,950.0	6,945.5	6,919.9	6,906.8	12.4	14.1	110.64	-9.3	-443.6	600.8	576.7	24.12	24.913		
7,000.0	6,994.7	6,969.0	6,955.5	12.5	14.2	103.24	-14.8	-446.7	606.6	582.3	24.30	24.966		
7,050.0	7,043.3	7,018.4	7,003.9	12.6	14.3	99.36	-23.7	-449.8	612.3	587.8	24.48	25.006		
7,100.0	7,090.8	7,067.9	7,051.8	12.7	14.4	96.97	-35.9	-452.9	617.9	593.2	24.69	25.029		
7,150.0	7,137.2	7,117.6	7,098.9	12.8	14.5	95.33	-51.6	-455.8	623.3	598.4	24.91	25.026		
7,200.0	7,182.3	7,167.6	7,145.1	13.0	14.7	94.14	-70.5	-458.8	628.7	603.5	25.16	24.989		
7,250.0	7,225.7	7,217.8	7,190.0	13.1	14.8	93.23	-92.7	-461.6	633.8	608.4	25.44	24.909		
7,300.0	7,267.2	7,268.2	7,233.4	13.3	15.0	92.52	-118.2	-464.4	638.7	613.0	25.78	24.778		
7,350.0	7,306.8	7,318.9	7,275.2	13.5	15.2	91.94	-146.7	-467.0	643.5	617.3	26.17	24.589		
7,400.0	7,344.1	7,369.8	7,315.0	13.8	15.4	91.48	-178.4	-469.6	647.9	621.3	26.62	24.337		
7,450.0	7,379.0	7,421.0	7,352.6	14.0	15.6	91.09	-212.9	-472.0	652.1	625.0	27.15	24.018		
7,500.0	7,411.4	7,472.4	7,387.9	14.3	15.9	90.78	-250.3	-474.2	656.0	628.3	27.76	23.633		
7,550.0	7,441.0	7,524.1	7,420.5	14.7	16.2	90.52	-290.3	-476.3	659.6	631.1	28.45	23.183		
7,600.0	7,467.7	7,575.9	7,450.3	15.1	16.6	90.32	-332.7	-478.2	662.8	633.6	29.23	22.674		
7,650.0	7,491.5	7,628.0	7,477.0	15.5	17.0	90.16	-377.3	-479.9	665.7	635.6	30.11	22.114		
7,700.0	7,512.1	7,680.3	7,500.5	16.0	17.4	90.04	-424.0	-481.3	668.3	637.2	31.07	21.512		
7,750.0	7,529.5	7,732.8	7,520.7	16.5	17.9	89.95	-472.4	-482.6	670.4	638.3	32.11	20.879		
7,800.0	7,543.6	7,785.4	7,537.3	17.0	18.4	89.90	-522.3	-483.7	672.2	638.9	33.24	20.225		
7,850.0	7,554.3	7,838.2	7,550.2	17.6	18.9	89.89	-573.5	-484.5	673.5	639.1	34.43	19.561		
7,900.0	7,561.6	7,891.2	7,559.3	18.2	19.5	89.90	-625.7	-485.1	674.5	638.8	35.70	18.895		
7,950.0	7,565.4	7,944.2	7,564.6	18.8	20.1	89.95	-678.4	-485.4	675.0	638.0	37.01	18.238		
7,979.9	7,566.0	7,976.0	7,565.9	19.2	20.5	89.99	-710.2	-485.5	675.1	637.3	37.82	17.850		
8,000.0	7,566.0	7,996.9	7,566.0	19.5	20.8	90.00	-731.1	-485.5	675.1	636.8	38.36	17.600		
8,100.0	7,566.0	8,096.9	7,566.0	20.8	22.0	90.00	-831.1	-485.5	675.1	634.0	41.08	16.436		
8,200.0	7,566.0	8,196.9	7,566.0	22.2	23.4	90.00	-931.1	-485.5	675.1	631.2	43.90	15.377		
8,300.0	7,566.0	8,296.9	7,566.0	23.7	24.7	90.00	-1,031.1	-485.5	675.1	628.3	46.83	14.418		
8,400.0	7,566.0	8,396.9	7,566.0	25.1	26.2	90.00	-1,131.1	-485.5	675.1	625.3	49.82	13.551		
8,500.0	7,566.0	8,496.9	7,566.0	26.7	27.6	90.00	-1,231.1	-485.5	675.1	622.2	52.88	12.767		
8,600.0	7,566.0	8,596.9	7,566.0	28.2	29.1	90.00	-1,331.1	-485.5	675.1	619.1	55.99	12.057		
8,700.0	7,566.0	8,696.9	7,566.0	29.8	30.6	90.00	-1,431.1	-485.5	675.1	616.0	59.15	11.414		
8,800.0	7,566.0	8,796.9	7,566.0	31.4	32.2	90.00	-1,531.1	-485.5	675.1	612.8	62.34	10.829		
8,900.0	7,566.0	8,896.9	7,566.0	33.0	33.7	90.00	-1,631.1	-485.5	675.1	609.5	65.57	10.296		

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 1E-19H-B2687
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 1E-19H-B2687	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
9,000.0	7,566.0	8,996.9	7,566.0	34.6	35.3	90.00	-1,731.1	-485.5	675.1	606.3	68.82	9.809		
9,100.0	7,566.0	9,096.9	7,566.0	36.2	36.9	90.00	-1,831.1	-485.5	675.1	603.0	72.10	9.364		
9,200.0	7,566.0	9,196.9	7,566.0	37.9	38.5	90.00	-1,931.1	-485.5	675.1	599.7	75.40	8.954		
9,300.0	7,566.0	9,296.9	7,566.0	39.5	40.2	90.00	-2,031.1	-485.5	675.1	596.4	78.72	8.577		
9,400.0	7,566.0	9,396.9	7,566.0	41.2	41.8	90.00	-2,131.1	-485.5	675.1	593.1	82.05	8.228		
9,500.0	7,566.0	9,496.9	7,566.0	42.8	43.4	90.00	-2,231.1	-485.5	675.1	589.7	85.39	7.906		
9,600.0	7,566.0	9,596.9	7,566.0	44.5	45.1	90.00	-2,331.1	-485.5	675.1	586.4	88.75	7.607		
9,700.0	7,566.0	9,696.9	7,566.0	46.2	46.7	90.00	-2,431.1	-485.5	675.1	583.0	92.12	7.328		
9,800.0	7,566.0	9,796.9	7,566.0	47.9	48.4	90.00	-2,531.1	-485.5	675.1	579.6	95.50	7.069		
9,900.0	7,566.0	9,896.9	7,566.0	49.6	50.1	90.00	-2,631.1	-485.5	675.1	576.2	98.89	6.827		
10,000.0	7,566.0	9,996.9	7,566.0	51.3	51.8	90.00	-2,731.1	-485.5	675.1	572.8	102.29	6.600		
10,100.0	7,566.0	10,096.9	7,566.0	53.0	53.4	90.00	-2,831.1	-485.5	675.1	569.4	105.69	6.388		
10,200.0	7,566.0	10,196.9	7,566.0	54.7	55.1	90.00	-2,931.1	-485.5	675.1	566.0	109.10	6.188		
10,300.0	7,566.0	10,296.9	7,566.0	56.4	56.8	90.00	-3,031.1	-485.5	675.1	562.6	112.52	6.000		
10,400.0	7,566.0	10,396.9	7,566.0	58.1	58.5	90.00	-3,131.1	-485.5	675.1	559.2	115.94	5.823		
10,500.0	7,566.0	10,496.9	7,566.0	59.8	60.2	90.00	-3,231.1	-485.5	675.1	555.7	119.37	5.656		
10,600.0	7,566.0	10,596.9	7,566.0	61.5	61.9	90.00	-3,331.1	-485.5	675.1	552.3	122.80	5.498		
10,700.0	7,566.0	10,696.9	7,566.0	63.2	63.6	90.00	-3,431.1	-485.5	675.1	548.9	126.24	5.348		
10,800.0	7,566.0	10,796.9	7,566.0	64.9	65.3	90.00	-3,531.1	-485.5	675.1	545.4	129.68	5.206		
10,900.0	7,566.0	10,896.9	7,566.0	66.7	67.0	90.00	-3,631.1	-485.5	675.1	542.0	133.12	5.071		
11,000.0	7,566.0	10,996.9	7,566.0	68.4	68.7	90.00	-3,731.1	-485.5	675.1	538.6	136.57	4.943		
11,100.0	7,566.0	11,096.9	7,566.0	70.1	70.5	90.00	-3,831.1	-485.5	675.1	535.1	140.02	4.822		
11,200.0	7,566.0	11,196.9	7,566.0	71.8	72.2	90.00	-3,931.1	-485.5	675.1	531.7	143.47	4.706		
11,300.0	7,566.0	11,296.9	7,566.0	73.6	73.9	90.00	-4,031.1	-485.5	675.1	528.2	146.93	4.595		
11,400.0	7,566.0	11,396.9	7,566.0	75.3	75.6	90.00	-4,131.1	-485.5	675.1	524.7	150.38	4.489		
11,500.0	7,566.0	11,496.9	7,566.0	77.0	77.3	90.00	-4,231.1	-485.5	675.1	521.3	153.84	4.388		
11,600.0	7,566.0	11,596.9	7,566.0	78.7	79.0	90.00	-4,331.1	-485.5	675.1	517.8	157.31	4.292		
11,700.0	7,566.0	11,696.9	7,566.0	80.5	80.8	90.00	-4,431.1	-485.5	675.1	514.4	160.77	4.199		
11,800.0	7,566.0	11,796.9	7,566.0	82.2	82.5	90.00	-4,531.1	-485.5	675.1	510.9	164.24	4.111		
11,900.0	7,566.0	11,896.9	7,566.0	83.9	84.2	90.00	-4,631.1	-485.5	675.1	507.4	167.70	4.026		
12,000.0	7,566.0	11,996.9	7,566.0	85.7	85.9	90.00	-4,731.1	-485.5	675.1	503.9	171.17	3.944		
12,059.9	7,566.0	12,056.8	7,566.0	86.7	87.0	90.00	-4,791.0	-485.5	675.1	501.9	173.25	3.897 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		
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	CC, ES	
500.0	500.0	499.3	499.2	0.8	0.8	-91.91	-0.7	-21.9	21.9	20.2	1.70	12.863		
600.0	600.0	598.7	598.6	1.0	1.0	-91.58	-0.7	-26.7	26.7	24.7	2.06	12.989		
700.0	700.0	698.5	698.3	1.2	1.2	-91.33	-0.7	-32.1	32.1	29.7	2.42	13.273		
800.0	800.0	798.4	798.0	1.4	1.4	-91.15	-0.8	-37.5	37.5	34.8	2.79	13.471		
900.0	900.0	898.3	897.7	1.5	1.6	-91.02	-0.8	-42.9	42.9	39.8	3.15	13.615		
1,000.0	1,000.0	998.1	997.4	1.7	1.8	-90.92	-0.8	-48.3	48.3	44.8	3.52	13.725		
1,100.0	1,100.0	1,098.0	1,097.1	1.9	2.0	-90.83	-0.8	-53.7	53.7	49.9	3.89	13.811		
1,200.0	1,200.0	1,197.8	1,196.8	2.1	2.2	-90.77	-0.8	-59.1	59.1	54.9	4.26	13.880		
1,300.0	1,300.0	1,297.7	1,296.5	2.2	2.4	-90.71	-0.8	-64.5	64.6	59.9	4.63	13.937		
1,400.0	1,400.0	1,397.5	1,396.2	2.4	2.6	-90.66	-0.8	-69.8	70.0	65.0	5.00	13.984		
1,500.0	1,500.0	1,497.4	1,495.9	2.6	2.8	-90.62	-0.8	-75.2	75.4	70.0	5.37	14.024		
1,600.0	1,600.0	1,597.2	1,595.6	2.8	3.0	-90.59	-0.8	-80.6	80.8	75.0	5.74	14.059		
1,700.0	1,700.0	1,697.1	1,695.3	2.9	3.2	-90.56	-0.8	-86.0	86.2	80.0	6.12	14.088		
1,800.0	1,800.0	1,796.9	1,795.1	3.1	3.4	-90.53	-0.8	-91.4	91.6	85.1	6.49	14.114		
1,900.0	1,900.0	1,896.8	1,894.8	3.3	3.6	-90.51	-0.9	-96.8	97.0	90.1	6.86	14.137		
2,000.0	2,000.0	1,996.7	1,994.5	3.5	3.8	-90.48	-0.9	-102.2	102.4	95.1	7.23	14.158		
2,100.0	2,100.0	2,096.5	2,094.2	3.6	4.0	-90.47	-0.9	-107.6	107.8	100.2	7.60	14.176		
2,200.0	2,200.0	2,196.4	2,193.9	3.8	4.2	-90.45	-0.9	-113.0	113.2	105.2	7.97	14.192		
2,300.0	2,300.0	2,296.2	2,293.6	4.0	4.4	-90.43	-0.9	-118.4	118.6	110.2	8.35	14.207		
2,400.0	2,400.0	2,396.1	2,393.3	4.2	4.6	-90.42	-0.9	-123.8	124.0	115.3	8.72	14.220		
2,500.0	2,500.0	2,495.9	2,493.0	4.3	4.8	-90.40	-0.9	-129.2	129.4	120.3	9.09	14.233		
2,600.0	2,600.0	2,595.8	2,592.7	4.5	4.9	-90.39	-0.9	-134.6	134.8	125.3	9.46	14.244		
2,700.0	2,700.0	2,695.6	2,692.4	4.7	5.1	-90.38	-0.9	-140.0	140.2	130.4	9.83	14.254		
2,800.0	2,800.0	2,795.5	2,792.1	4.9	5.3	-90.37	-0.9	-145.4	145.6	135.4	10.21	14.264		
2,900.0	2,900.0	2,895.3	2,891.8	5.0	5.5	-90.36	-0.9	-150.8	151.0	140.4	10.58	14.273		
3,000.0	3,000.0	2,995.2	2,991.5	5.2	5.7	-90.35	-1.0	-156.2	156.4	145.4	10.95	14.281		
3,100.0	3,100.0	3,095.0	3,091.3	5.4	5.9	-90.34	-1.0	-161.6	161.8	150.5	11.32	14.288		
3,200.0	3,200.0	3,194.9	3,191.0	5.6	6.1	-90.33	-1.0	-167.0	167.2	155.5	11.70	14.296		
3,300.0	3,300.0	3,294.8	3,290.7	5.7	6.3	-90.33	-1.0	-172.4	172.6	160.5	12.07	14.302		
3,400.0	3,400.0	3,394.6	3,390.4	5.9	6.5	-90.32	-1.0	-177.7	178.0	165.6	12.44	14.308		
3,500.0	3,500.0	3,494.5	3,490.1	6.1	6.7	-90.31	-1.0	-183.1	183.4	170.6	12.81	14.314		
3,600.0	3,600.0	3,594.3	3,589.8	6.3	6.9	-90.31	-1.0	-188.5	188.8	175.6	13.19	14.320		
3,700.0	3,700.0	3,694.2	3,689.5	6.4	7.1	-90.30	-1.0	-193.9	194.2	180.7	13.56	14.325		
3,800.0	3,800.0	3,794.0	3,789.2	6.6	7.3	-90.30	-1.0	-199.3	199.6	185.7	13.93	14.330		
3,900.0	3,900.0	3,893.9	3,888.9	6.8	7.5	-90.29	-1.0	-204.7	205.0	190.7	14.30	14.334		
4,000.0	4,000.0	3,993.7	3,988.6	7.0	7.7	-90.29	-1.0	-210.1	210.4	195.8	14.68	14.339		
4,100.0	4,100.0	4,093.5	4,088.2	7.1	7.9	-178.32	-1.1	-215.5	217.6	203.3	14.24	15.281		
4,155.7	4,155.6	4,148.9	4,143.5	7.2	8.0	-178.33	-1.1	-218.5	223.1	208.6	14.42	15.470		
4,200.0	4,199.9	4,192.9	4,187.5	7.3	8.1	-178.34	-1.1	-220.9	227.9	213.3	14.57	15.635		
4,300.0	4,299.7	4,292.4	4,286.8	7.5	8.3	-178.38	-1.1	-226.3	238.7	223.7	14.92	15.996		
4,400.0	4,399.6	4,391.8	4,386.1	7.7	8.5	-178.41	-1.1	-231.6	249.5	234.2	15.27	16.340		
4,500.0	4,499.4	4,491.2	4,485.4	7.8	8.7	-178.43	-1.1	-237.0	260.3	244.7	15.62	16.669		
4,600.0	4,599.3	4,590.6	4,584.6	8.0	8.9	-178.46	-1.1	-242.4	271.1	255.2	15.96	16.984		
4,700.0	4,699.1	4,690.0	4,683.9	8.2	9.1	-178.48	-1.1	-247.7	281.9	265.6	16.31	17.285		
4,800.0	4,799.0	4,789.4	4,783.2	8.4	9.3	-178.50	-1.1	-253.1	292.7	276.1	16.66	17.574		
4,900.0	4,898.8	4,888.8	4,882.4	8.6	9.5	-178.52	-1.1	-258.5	303.6	286.6	17.01	17.851		
5,000.0	4,998.7	4,988.2	4,981.7	8.8	9.7	-178.54	-1.1	-263.9	314.4	297.0	17.35	18.116		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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						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	5,098.5	5,087.7	5,081.0	8.9	9.9	-178.56	-1.2	-269.2	325.2	307.5	17.70	18.372	
5,200.0	5,198.4	5,187.1	5,180.2	9.1	10.1	-178.58	-1.2	-274.6	336.0	318.0	18.05	18.617	
5,300.0	5,298.2	5,286.5	5,279.5	9.3	10.3	-178.59	-1.2	-280.0	346.8	328.4	18.40	18.853	
5,400.0	5,398.1	5,385.9	5,378.8	9.5	10.5	-178.60	-1.2	-285.3	357.6	338.9	18.74	19.081	
5,500.0	5,497.9	5,485.3	5,478.0	9.7	10.7	-178.62	-1.2	-290.7	368.5	349.4	19.09	19.300	
5,600.0	5,597.8	5,584.7	5,577.3	9.9	10.9	-178.63	-1.2	-296.1	379.3	359.8	19.44	19.511	
5,700.0	5,697.6	5,684.1	5,676.6	10.1	11.1	-178.64	-1.2	-301.5	390.1	370.3	19.79	19.715	
5,800.0	5,797.5	5,783.5	5,775.8	10.2	11.3	-178.65	-1.2	-306.8	400.9	380.8	20.13	19.912	
5,900.0	5,897.3	5,883.0	5,875.1	10.4	11.5	-178.66	-1.2	-312.2	411.7	391.2	20.48	20.102	
6,000.0	5,997.2	5,982.4	5,974.4	10.6	11.7	-178.68	-1.2	-317.6	422.5	401.7	20.83	20.286	
6,100.0	6,097.1	6,081.8	6,073.6	10.8	11.9	-178.68	-1.2	-322.9	433.4	412.2	21.18	20.464	
6,200.0	6,196.9	6,181.2	6,172.9	11.0	12.1	-178.69	-1.3	-328.3	444.2	422.7	21.52	20.636	
6,300.0	6,296.8	6,280.6	6,272.2	11.2	12.3	-178.70	-1.3	-333.7	455.0	433.1	21.87	20.803	
6,400.0	6,396.6	6,380.0	6,371.4	11.4	12.5	-178.71	-1.3	-339.1	465.8	443.6	22.22	20.964	
6,500.0	6,496.5	6,479.4	6,470.7	11.6	12.6	-178.72	-1.3	-344.4	476.6	454.1	22.57	21.121	
6,600.0	6,596.3	6,578.9	6,570.0	11.8	12.8	-178.73	-1.3	-349.8	487.4	464.5	22.91	21.273	
6,700.0	6,696.2	6,678.6	6,669.6	11.9	13.0	-178.90	-2.8	-355.1	498.2	475.0	23.26	21.418	
6,800.0	6,796.0	6,777.1	6,767.0	12.1	13.2	179.62	-15.8	-360.1	509.1	485.5	23.61	21.563	
6,853.6	6,849.5	6,827.9	6,816.3	12.2	13.3	178.30	-27.7	-362.4	515.2	491.4	23.79	21.654	
6,900.0	6,895.8	6,870.8	6,857.2	12.3	13.4	125.47	-40.5	-364.3	520.8	496.9	23.96	21.739	
6,950.0	6,945.5	6,916.4	6,899.7	12.4	13.5	105.20	-56.7	-366.2	527.0	502.9	24.14	21.829	
7,000.0	6,994.7	6,961.2	6,940.5	12.5	13.7	96.30	-75.3	-367.9	533.3	509.0	24.34	21.914	
7,050.0	7,043.3	7,005.5	6,979.6	12.6	13.8	90.99	-96.1	-369.5	539.7	515.2	24.54	21.991	
7,100.0	7,090.8	7,050.0	7,017.4	12.7	13.9	87.21	-119.4	-370.9	546.1	521.3	24.76	22.053	
7,150.0	7,137.2	7,092.4	7,052.1	12.8	14.1	84.30	-143.7	-372.2	552.4	527.4	25.00	22.096	
7,200.0	7,182.3	7,135.1	7,085.6	13.0	14.3	81.89	-170.3	-373.3	558.5	533.3	25.26	22.113	
7,250.0	7,225.7	7,177.4	7,117.0	13.1	14.5	79.83	-198.5	-374.2	564.5	539.0	25.54	22.100	
7,300.0	7,267.2	7,219.3	7,146.5	13.3	14.7	78.04	-228.2	-375.0	570.3	544.4	25.86	22.053	
7,350.0	7,306.8	7,260.8	7,174.0	13.5	14.9	76.47	-259.4	-375.7	575.8	549.6	26.21	21.965	
7,400.0	7,344.1	7,300.0	7,198.2	13.8	15.2	75.10	-290.1	-376.2	581.0	554.4	26.60	21.843	
7,450.0	7,379.0	7,342.9	7,222.8	14.0	15.5	73.84	-325.3	-376.6	585.7	558.7	27.05	21.650	
7,500.0	7,411.4	7,383.5	7,244.0	14.3	15.8	72.74	-359.9	-376.9	590.1	562.6	27.56	21.415	
7,550.0	7,441.0	7,423.9	7,263.2	14.7	16.1	71.78	-395.4	-377.0	594.1	565.9	28.12	21.129	
7,600.0	7,467.7	7,464.1	7,280.3	15.1	16.5	70.94	-431.8	-377.0	597.5	568.8	28.74	20.793	
7,650.0	7,491.5	7,500.0	7,293.8	15.5	16.8	70.25	-465.1	-376.8	600.5	571.1	29.39	20.433	
7,700.0	7,512.1	7,543.8	7,308.0	16.0	17.2	69.60	-506.5	-376.5	602.9	572.7	30.18	19.977	
7,750.0	7,529.5	7,583.5	7,318.7	16.5	17.7	69.10	-544.7	-376.1	604.8	573.8	31.01	19.505	
7,800.0	7,543.6	7,623.0	7,327.2	17.0	18.1	68.70	-583.3	-375.5	606.1	574.2	31.90	19.000	
7,850.0	7,554.3	7,662.5	7,333.5	17.6	18.5	68.40	-622.3	-374.9	606.8	574.0	32.86	18.468	
7,900.0	7,561.6	7,700.0	7,337.6	18.2	19.0	68.21	-659.5	-374.1	607.0	573.1	33.86	17.927	
7,950.0	7,565.4	7,741.2	7,339.8	18.8	19.5	68.11	-700.6	-373.1	606.6	571.6	34.96	17.348	
7,979.9	7,566.0	7,766.3	7,340.0	19.2	19.8	68.10	-725.7	-372.5	606.0	570.4	35.66	16.996	
8,000.0	7,566.0	7,786.3	7,340.0	19.5	20.1	68.08	-745.8	-372.0	605.5	569.4	36.15	16.751	
8,100.0	7,566.0	7,886.3	7,340.0	20.8	21.4	67.99	-845.7	-369.3	603.1	564.4	38.67	15.598	
8,200.0	7,566.0	7,986.3	7,340.0	22.2	22.7	67.89	-945.6	-366.7	600.7	559.4	41.28	14.552	
8,300.0	7,566.0	8,086.2	7,340.0	23.7	24.1	67.80	-1,045.6	-364.1	598.3	554.3	43.97	13.606	
8,400.0	7,566.0	8,186.2	7,340.0	25.1	25.6	67.70	-1,145.5	-361.5	595.8	549.1	46.73	12.751	
8,500.0	7,566.0	8,286.2	7,340.0	26.7	27.1	67.61	-1,245.4	-358.9	593.4	543.9	49.54	11.979	
8,600.0	7,566.0	8,386.1	7,340.0	28.2	28.6	67.51	-1,345.4	-356.3	591.0	538.6	52.39	11.281	
8,700.0	7,566.0	8,486.1	7,340.0	29.8	30.2	67.41	-1,445.3	-353.6	588.6	533.3	55.28	10.647	
8,800.0	7,566.0	8,586.1	7,340.0	31.4	31.7	67.31	-1,545.2	-351.0	586.2	528.0	58.20	10.072	
8,900.0	7,566.0	8,686.0	7,340.0	33.0	33.3	67.22	-1,645.2	-348.4	583.7	522.6	61.14	9.548	

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 1E-19H-B2687
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 1E-19H-B2687	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		
9,000.0	7,566.0	8,786.0	7,340.0	34.6	34.9	67.12	-1,745.1	-345.8	581.3	517.2	64.10	9.069		
9,100.0	7,566.0	8,886.0	7,340.0	36.2	36.6	67.01	-1,845.0	-343.2	578.9	511.8	67.08	8.630		
9,200.0	7,566.0	8,985.9	7,340.0	37.9	38.2	66.91	-1,945.0	-340.6	576.5	506.4	70.07	8.227		
9,300.0	7,566.0	9,085.9	7,340.0	39.5	39.8	66.81	-2,044.9	-337.9	574.1	501.0	73.08	7.856		
9,400.0	7,566.0	9,185.9	7,340.0	41.2	41.5	66.71	-2,144.8	-335.3	571.7	495.6	76.09	7.513		
9,500.0	7,566.0	9,285.8	7,340.0	42.8	43.1	66.60	-2,244.8	-332.7	569.3	490.2	79.11	7.196		
9,600.0	7,566.0	9,385.8	7,340.0	44.5	44.8	66.50	-2,344.7	-330.1	566.9	484.8	82.14	6.902		
9,700.0	7,566.0	9,485.8	7,340.0	46.2	46.5	66.39	-2,444.6	-327.5	564.5	479.3	85.17	6.628		
9,800.0	7,566.0	9,585.7	7,340.0	47.9	48.1	66.29	-2,544.6	-324.9	562.1	473.9	88.20	6.373		
9,900.0	7,566.0	9,685.7	7,340.0	49.6	49.8	66.18	-2,644.5	-322.2	559.7	468.5	91.24	6.134		
10,000.0	7,566.0	9,785.7	7,340.0	51.3	51.5	66.07	-2,744.4	-319.6	557.3	463.0	94.28	5.911		
10,100.0	7,566.0	9,885.6	7,340.0	53.0	53.2	65.96	-2,844.3	-317.0	554.9	457.6	97.31	5.702		
10,200.0	7,566.0	9,985.6	7,340.0	54.7	54.9	65.85	-2,944.3	-314.4	552.5	452.2	100.35	5.506		
10,300.0	7,566.0	10,085.6	7,340.0	56.4	56.6	65.74	-3,044.2	-311.8	550.1	446.7	103.39	5.321		
10,400.0	7,566.0	10,181.8	7,340.0	58.1	58.2	65.64	-3,140.4	-309.4	547.9	441.5	106.38	5.151		
10,500.0	7,566.0	10,276.6	7,340.0	59.8	59.9	65.59	-3,235.2	-308.3	546.8	437.5	109.38	4.999		
10,600.0	7,566.0	10,376.6	7,340.0	61.5	61.6	65.55	-3,335.2	-307.5	546.1	433.6	112.48	4.855		
10,700.0	7,566.0	10,476.6	7,340.0	63.2	63.3	65.52	-3,435.2	-306.7	545.3	429.8	115.58	4.718		
10,800.0	7,566.0	10,576.6	7,340.0	64.9	65.0	65.48	-3,535.2	-305.8	544.6	425.9	118.68	4.589		
10,900.0	7,566.0	10,676.6	7,340.0	66.7	66.7	65.44	-3,635.2	-305.0	543.8	422.0	121.78	4.465		
11,000.0	7,566.0	10,776.6	7,340.0	68.4	68.4	65.41	-3,735.2	-304.2	543.1	418.2	124.89	4.348		
11,100.0	7,566.0	10,876.6	7,340.0	70.1	70.2	65.37	-3,835.2	-303.3	542.3	414.3	127.99	4.237		
11,200.0	7,566.0	10,976.6	7,340.0	71.8	71.9	65.33	-3,935.2	-302.5	541.6	410.5	131.10	4.131		
11,300.0	7,566.0	11,076.6	7,340.0	73.6	73.6	65.30	-4,035.2	-301.7	540.8	406.6	134.21	4.030		
11,400.0	7,566.0	11,176.6	7,340.0	75.3	75.3	65.26	-4,135.2	-300.9	540.0	402.7	137.31	3.933		
11,500.0	7,566.0	11,276.6	7,340.0	77.0	77.1	65.22	-4,235.1	-300.0	539.3	398.9	140.42	3.841		
11,600.0	7,566.0	11,376.6	7,340.0	78.7	78.8	65.19	-4,335.1	-299.2	538.5	395.0	143.52	3.752		
11,700.0	7,566.0	11,476.6	7,340.0	80.5	80.5	65.15	-4,435.1	-298.4	537.8	391.2	146.63	3.668		
11,800.0	7,566.0	11,576.5	7,340.0	82.2	82.2	65.11	-4,535.1	-297.5	537.0	387.3	149.74	3.587		
11,900.0	7,566.0	11,676.5	7,340.0	83.9	84.0	65.07	-4,635.1	-296.7	536.3	383.4	152.84	3.509		
12,000.0	7,566.0	11,776.5	7,340.0	85.7	85.7	65.04	-4,735.1	-295.9	535.5	379.6	155.95	3.434		
12,059.9	7,566.0	11,836.5	7,340.0	86.7	86.7	65.01	-4,795.0	-295.4	535.1	377.3	157.81	3.391 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 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	-92.07	-0.4	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-92.07	-0.4	-10.1	10.1	9.8	0.30	33.168		
200.0	200.0	200.0	200.0	0.3	0.3	-92.07	-0.4	-10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	-92.07	-0.4	-10.1	10.1	9.1	1.00	10.054		
400.0	400.0	400.0	400.0	0.7	0.7	-92.07	-0.4	-10.1	10.1	8.7	1.35	7.456		
500.0	500.0	500.0	500.0	0.8	0.8	-92.07	-0.4	-10.1	10.1	8.4	1.70	5.925 CC		
600.0	600.0	600.0	600.0	1.0	1.0	-91.87	-0.3	-10.4	10.4	8.4	2.05	5.083 ES		
700.0	700.0	700.0	700.0	1.2	1.2	-91.68	-0.3	-10.8	10.8	8.4	2.40	4.495		
800.0	800.0	800.0	800.0	1.4	1.4	-91.49	-0.3	-11.1	11.1	8.4	2.75	4.055		
900.0	900.0	900.0	900.0	1.5	1.5	-91.32	-0.3	-11.5	11.5	8.4	3.10	3.715		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-91.16	-0.2	-11.9	11.9	8.4	3.45	3.444		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-91.01	-0.2	-12.2	12.2	8.4	3.79	3.223		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	-90.87	-0.2	-12.6	12.6	8.4	4.14	3.039		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	-90.73	-0.2	-13.0	13.0	8.5	4.49	2.883		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	-90.60	-0.1	-13.3	13.3	8.5	4.84	2.750		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	-90.48	-0.1	-13.7	13.7	8.5	5.19	2.635		
1,600.0	1,600.0	1,600.0	1,599.9	2.8	2.8	-90.37	-0.1	-14.0	14.0	8.5	5.54	2.535		
1,700.0	1,700.0	1,700.0	1,699.9	2.9	2.9	-90.26	-0.1	-14.4	14.4	8.5	5.89	2.446		
1,800.0	1,800.0	1,800.0	1,799.9	3.1	3.1	-90.16	0.0	-14.8	14.8	8.5	6.24	2.367		
1,900.0	1,900.0	1,900.0	1,899.9	3.3	3.3	-90.06	0.0	-15.1	15.1	8.5	6.59	2.297		
2,000.0	2,000.0	2,000.0	1,999.9	3.5	3.5	-89.96	0.0	-15.5	15.5	8.6	6.94	2.234		
2,100.0	2,100.0	2,100.0	2,099.9	3.6	3.6	-89.88	0.0	-15.9	15.9	8.6	7.29	2.176		
2,200.0	2,200.0	2,200.0	2,199.9	3.8	3.8	-89.79	0.1	-16.2	16.2	8.6	7.64	2.125		
2,300.0	2,300.0	2,300.0	2,299.9	4.0	4.0	-89.71	0.1	-16.6	16.6	8.6	7.98	2.077		
2,400.0	2,400.0	2,400.0	2,399.9	4.2	4.2	-89.63	0.1	-16.9	16.9	8.6	8.33	2.034		
2,500.0	2,500.0	2,500.0	2,499.9	4.3	4.3	-89.55	0.1	-17.3	17.3	8.6	8.68	1.994		
2,600.0	2,600.0	2,599.9	2,599.9	4.5	4.5	-89.48	0.2	-17.7	17.7	8.6	9.03	1.957		
2,700.0	2,700.0	2,699.9	2,699.9	4.7	4.7	-89.41	0.2	-18.0	18.0	8.7	9.38	1.923		
2,800.0	2,800.0	2,799.9	2,799.9	4.9	4.9	-89.35	0.2	-18.4	18.4	8.7	9.73	1.891		
2,900.0	2,900.0	2,899.9	2,899.9	5.0	5.0	-89.28	0.2	-18.8	18.8	8.7	10.08	1.862		
3,000.0	3,000.0	2,999.9	2,999.9	5.2	5.2	-89.22	0.3	-19.1	19.1	8.7	10.43	1.834		
3,100.0	3,100.0	3,099.9	3,099.9	5.4	5.4	-89.16	0.3	-19.5	19.5	8.7	10.78	1.809		
3,200.0	3,200.0	3,199.9	3,199.9	5.6	5.6	-89.11	0.3	-19.9	19.9	8.7	11.13	1.784		
3,300.0	3,300.0	3,299.9	3,299.9	5.7	5.7	-89.05	0.3	-20.2	20.2	8.7	11.48	1.762		
3,400.0	3,400.0	3,399.9	3,399.9	5.9	5.9	-89.00	0.4	-20.6	20.6	8.8	11.83	1.741		
3,500.0	3,500.0	3,499.9	3,499.9	6.1	6.1	-88.95	0.4	-20.9	20.9	8.8	12.17	1.721		
3,600.0	3,600.0	3,599.9	3,599.9	6.3	6.3	-88.90	0.4	-21.3	21.3	8.8	12.52	1.702		
3,700.0	3,700.0	3,699.9	3,699.9	6.4	6.4	-88.85	0.4	-21.7	21.7	8.8	12.87	1.684		
3,800.0	3,800.0	3,799.9	3,799.9	6.6	6.6	-88.80	0.5	-22.0	22.0	8.8	13.22	1.667		
3,900.0	3,900.0	3,899.9	3,899.9	6.8	6.8	-88.76	0.5	-22.4	22.4	8.8	13.57	1.651		
4,000.0	4,000.0	3,999.9	3,999.9	7.0	7.0	-88.72	0.5	-22.8	22.8	8.8	13.92	1.635 SF		
4,100.0	4,100.0	4,099.9	4,099.9	7.1	7.1	-176.93	0.5	-23.1	24.9	10.6	14.26	1.744		
4,155.7	4,155.6	4,155.5	4,155.5	7.2	7.2	-177.18	0.5	-23.3	27.6	13.1	14.45	1.907		
4,200.0	4,199.9	4,199.8	4,199.7	7.3	7.3	-177.39	0.6	-23.5	30.1	15.5	14.60	2.063		
4,300.0	4,299.7	4,299.6	4,299.6	7.5	7.5	-177.75	0.6	-23.8	35.9	21.0	14.95	2.402		
4,400.0	4,399.6	4,399.4	4,399.4	7.7	7.7	-178.01	0.6	-24.2	41.7	26.4	15.30	2.726		
4,500.0	4,499.4	4,499.3	4,499.2	7.8	7.8	-178.21	0.6	-24.6	47.5	31.8	15.65	3.035		
4,600.0	4,599.3	4,599.1	4,599.1	8.0	8.0	-178.36	0.7	-24.9	53.3	37.3	15.99	3.331		
4,700.0	4,699.1	4,698.9	4,698.9	8.2	8.2	-178.49	0.7	-25.3	59.1	42.7	16.34	3.614		
4,800.0	4,799.0	4,798.8	4,798.7	8.4	8.4	-178.59	0.7	-25.7	64.9	48.2	16.69	3.886		
4,900.0	4,898.8	4,898.6	4,898.6	8.6	8.5	-178.68	0.7	-26.0	70.7	53.6	17.04	4.146		
5,000.0	4,998.7	4,998.4	4,998.4	8.8	8.7	-178.75	0.8	-26.4	76.4	59.1	17.39	4.396		

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 1E-19H-B2687
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 1E-19H-B2687	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	5,098.5	5,098.3	5,098.2	8.9	8.9	-178.81	0.8	-26.7	82.2	64.5	17.74	4.636		
5,200.0	5,198.4	5,198.1	5,198.1	9.1	9.1	-178.86	0.8	-27.1	88.0	69.9	18.09	4.867		
5,300.0	5,298.2	5,297.9	5,297.9	9.3	9.2	-178.91	0.8	-27.5	93.8	75.4	18.44	5.089		
5,400.0	5,398.1	5,397.8	5,397.7	9.5	9.4	-178.95	0.9	-27.8	99.6	80.8	18.78	5.303		
5,500.0	5,497.9	5,497.6	5,497.6	9.7	9.6	-178.99	0.9	-28.2	105.4	86.3	19.13	5.509		
5,600.0	5,597.8	5,597.4	5,597.4	9.9	9.8	-179.02	0.9	-28.6	111.2	91.7	19.48	5.708		
5,700.0	5,697.6	5,697.3	5,697.2	10.1	9.9	-179.05	0.9	-28.9	117.0	97.2	19.83	5.900		
5,800.0	5,797.5	5,797.1	5,797.1	10.2	10.1	-179.08	1.0	-29.3	122.8	102.6	20.18	6.085		
5,900.0	5,897.3	5,896.9	5,896.9	10.4	10.3	-179.10	1.0	-29.6	128.6	108.1	20.53	6.264		
6,000.0	5,997.2	5,996.8	5,996.7	10.6	10.4	-179.13	1.0	-30.0	134.4	113.5	20.88	6.436		
6,100.0	6,097.1	6,096.6	6,096.5	10.8	10.6	-179.15	1.0	-30.4	140.2	118.9	21.23	6.604		
6,200.0	6,196.9	6,196.4	6,196.4	11.0	10.8	-179.17	1.1	-30.7	146.0	124.4	21.57	6.765		
6,300.0	6,296.8	6,296.2	6,296.2	11.2	11.0	-179.18	1.1	-31.1	151.8	129.8	21.92	6.922		
6,400.0	6,396.6	6,396.1	6,396.0	11.4	11.1	-179.20	1.1	-31.5	157.5	135.3	22.27	7.074		
6,500.0	6,496.5	6,495.9	6,495.9	11.6	11.3	-179.22	1.1	-31.8	163.3	140.7	22.62	7.221		
6,600.0	6,596.3	6,595.7	6,595.7	11.8	11.5	-179.23	1.2	-32.2	169.1	146.2	22.97	7.363		
6,700.0	6,696.2	6,695.6	6,695.5	11.9	11.7	-179.24	1.2	-32.6	174.9	151.6	23.32	7.502		
6,800.0	6,796.0	6,794.7	6,794.5	12.1	11.8	179.46	-2.8	-32.9	180.8	157.2	23.67	7.642		
6,853.6	6,849.5	6,846.8	6,846.1	12.2	11.9	177.18	-10.2	-33.1	184.4	160.6	23.85	7.733		
6,900.0	6,895.8	6,891.2	6,889.5	12.3	12.0	123.41	-19.4	-33.3	188.0	164.0	24.02	7.825		
6,950.0	6,945.5	6,938.5	6,935.0	12.4	12.1	102.22	-32.2	-33.4	192.1	167.9	24.22	7.933		
7,000.0	6,994.7	6,985.2	6,979.1	12.5	12.2	92.49	-47.8	-33.6	196.6	172.1	24.42	8.047		
7,050.0	7,043.3	7,031.5	7,021.6	12.6	12.3	86.44	-66.0	-33.7	201.2	176.5	24.64	8.164		
7,100.0	7,090.8	7,077.4	7,062.6	12.7	12.5	82.03	-86.7	-33.9	205.9	181.1	24.87	8.281		
7,150.0	7,137.2	7,122.8	7,101.7	12.8	12.6	78.53	-109.8	-34.0	210.8	185.7	25.10	8.396		
7,200.0	7,182.3	7,167.9	7,139.0	13.0	12.8	75.63	-135.0	-34.2	215.6	190.3	25.35	8.505		
7,250.0	7,225.7	7,212.6	7,174.4	13.1	13.0	73.15	-162.4	-34.3	220.4	194.8	25.61	8.606		
7,300.0	7,267.2	7,257.0	7,207.7	13.3	13.2	71.01	-191.6	-34.4	225.1	199.2	25.89	8.696		
7,350.0	7,306.8	7,300.0	7,238.2	13.5	13.4	69.16	-221.9	-34.5	229.7	203.5	26.18	8.773		
7,400.0	7,344.1	7,344.8	7,268.1	13.8	13.7	67.49	-255.4	-34.6	234.0	207.5	26.50	8.830		
7,450.0	7,379.0	7,388.4	7,295.0	14.0	14.0	66.06	-289.6	-34.7	238.1	211.3	26.86	8.868		
7,500.0	7,411.4	7,431.7	7,319.6	14.3	14.3	64.80	-325.2	-34.8	242.0	214.8	27.24	8.884		
7,550.0	7,441.0	7,474.8	7,342.0	14.7	14.6	63.71	-362.1	-34.9	245.5	217.9	27.67	8.875		
7,600.0	7,467.7	7,517.7	7,362.0	15.1	15.0	62.76	-400.0	-35.0	248.8	220.6	28.14	8.841		
7,650.0	7,491.5	7,560.5	7,379.7	15.5	15.4	61.96	-439.0	-35.0	251.6	223.0	28.66	8.779		
7,700.0	7,512.1	7,600.0	7,393.9	16.0	15.8	61.32	-475.8	-35.1	254.1	224.9	29.21	8.699		
7,750.0	7,529.5	7,645.7	7,407.8	16.5	16.3	60.75	-519.3	-35.1	256.2	226.3	29.88	8.574		
7,800.0	7,543.6	7,688.1	7,418.1	17.0	16.8	60.33	-560.5	-35.2	257.8	227.2	30.58	8.431		
7,850.0	7,554.3	7,730.5	7,426.0	17.6	17.4	60.03	-602.1	-35.2	259.1	227.7	31.35	8.264		
7,900.0	7,561.6	7,772.8	7,431.5	18.2	17.9	59.84	-644.1	-35.2	259.9	227.7	32.18	8.076		
7,950.0	7,565.4	7,815.1	7,434.4	18.8	18.4	59.77	-686.3	-35.2	260.2	227.2	33.07	7.869		
7,979.9	7,566.0	7,840.5	7,435.0	19.2	18.8	59.77	-711.6	-35.2	260.2	226.6	33.63	7.737		
7,983.9	7,566.0	7,843.8	7,435.0	19.3	18.8	59.77	-715.0	-35.2	260.2	226.5	33.72	7.718		
8,000.0	7,566.0	7,859.9	7,435.0	19.5	19.0	59.77	-731.1	-35.2	260.2	226.1	34.09	7.634		
8,100.0	7,566.0	7,959.9	7,435.0	20.8	20.4	59.77	-831.1	-35.2	260.2	223.8	36.45	7.140		
8,200.0	7,566.0	8,059.9	7,435.0	22.2	21.8	59.77	-931.1	-35.2	260.2	221.3	38.89	6.691		
8,300.0	7,566.0	8,159.9	7,435.0	23.7	23.3	59.77	-1,031.1	-35.2	260.2	218.8	41.42	6.283		
8,400.0	7,566.0	8,259.9	7,435.0	25.1	24.8	59.77	-1,131.1	-35.2	260.2	216.2	44.01	5.913		
8,500.0	7,566.0	8,359.9	7,435.0	26.7	26.3	59.77	-1,231.1	-35.2	260.2	213.6	46.66	5.578		
8,600.0	7,566.0	8,459.9	7,435.0	28.2	27.9	59.77	-1,331.1	-35.2	260.2	210.9	49.35	5.274		
8,700.0	7,566.0	8,559.9	7,435.0	29.8	29.5	59.77	-1,431.1	-35.2	260.2	208.2	52.07	4.997		
8,800.0	7,566.0	8,659.9	7,435.0	31.4	31.1	59.77	-1,531.1	-35.2	260.2	205.4	54.84	4.746		

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 1E-19H-B2687
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 1E-19H-B2687	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	7,566.0	8,759.9	7,435.0	33.0	32.7	59.77	-1,631.1	-35.2	260.2	202.6	57.62	4.516	
9,000.0	7,566.0	8,859.9	7,435.0	34.6	34.3	59.77	-1,731.1	-35.2	260.2	199.8	60.44	4.306	
9,100.0	7,566.0	8,959.9	7,435.0	36.2	35.9	59.77	-1,831.1	-35.2	260.2	197.0	63.27	4.113	
9,200.0	7,566.0	9,059.9	7,435.0	37.9	37.6	59.77	-1,931.1	-35.2	260.2	194.1	66.12	3.936	
9,300.0	7,566.0	9,159.9	7,435.0	39.5	39.3	59.77	-2,031.1	-35.2	260.2	191.2	68.99	3.772	
9,400.0	7,566.0	9,259.9	7,435.0	41.2	40.9	59.77	-2,131.1	-35.2	260.2	188.4	71.87	3.621	
9,500.0	7,566.0	9,359.9	7,435.0	42.8	42.6	59.77	-2,231.1	-35.2	260.2	185.5	74.77	3.481	
9,600.0	7,566.0	9,459.9	7,435.0	44.5	44.3	59.77	-2,331.1	-35.2	260.2	182.6	77.67	3.350	
9,700.0	7,566.0	9,559.9	7,435.0	46.2	46.0	59.77	-2,431.1	-35.2	260.2	179.6	80.58	3.229	
9,800.0	7,566.0	9,659.9	7,435.0	47.9	47.7	59.77	-2,531.1	-35.2	260.2	176.7	83.51	3.116	
9,900.0	7,566.0	9,759.9	7,435.0	49.6	49.4	59.77	-2,631.1	-35.2	260.2	173.8	86.44	3.011	
10,000.0	7,566.0	9,859.9	7,435.0	51.3	51.1	59.77	-2,731.1	-35.2	260.2	170.9	89.38	2.912	
10,100.0	7,566.0	9,959.9	7,435.0	53.0	52.8	59.77	-2,831.1	-35.2	260.2	167.9	92.32	2.819	
10,200.0	7,566.0	10,059.9	7,435.0	54.7	54.5	59.77	-2,931.1	-35.2	260.2	165.0	95.27	2.731	
10,300.0	7,566.0	10,159.9	7,435.0	56.4	56.2	59.77	-3,031.1	-35.2	260.2	162.0	98.23	2.649	
10,400.0	7,566.0	10,259.9	7,435.0	58.1	57.9	59.77	-3,131.1	-35.2	260.2	159.0	101.19	2.572	
10,500.0	7,566.0	10,359.9	7,435.0	59.8	59.6	59.77	-3,231.1	-35.2	260.2	156.1	104.16	2.498	
10,600.0	7,566.0	10,459.9	7,435.0	61.5	61.3	59.77	-3,331.1	-35.2	260.2	153.1	107.12	2.429	
10,700.0	7,566.0	10,559.9	7,435.0	63.2	63.1	59.77	-3,431.1	-35.2	260.2	150.1	110.10	2.364	
10,800.0	7,566.0	10,659.9	7,435.0	64.9	64.8	59.77	-3,531.1	-35.2	260.2	147.2	113.07	2.301	
10,900.0	7,566.0	10,759.9	7,435.0	66.7	66.5	59.77	-3,631.1	-35.2	260.2	144.2	116.05	2.242	
11,000.0	7,566.0	10,859.9	7,435.0	68.4	68.2	59.77	-3,731.1	-35.2	260.2	141.2	119.04	2.186	
11,100.0	7,566.0	10,959.9	7,435.0	70.1	69.9	59.77	-3,831.1	-35.2	260.2	138.2	122.02	2.133	
11,200.0	7,566.0	11,059.9	7,435.0	71.8	71.7	59.77	-3,931.1	-35.2	260.2	135.2	125.01	2.082	
11,300.0	7,566.0	11,159.9	7,435.0	73.6	73.4	59.77	-4,031.1	-35.2	260.2	132.2	128.00	2.033	
11,400.0	7,566.0	11,259.9	7,435.0	75.3	75.1	59.77	-4,131.1	-35.2	260.2	129.2	130.99	1.987	
11,500.0	7,566.0	11,359.9	7,435.0	77.0	76.9	59.77	-4,231.1	-35.2	260.2	126.2	133.99	1.942	
11,600.0	7,566.0	11,459.9	7,435.0	78.7	78.6	59.77	-4,331.1	-35.2	260.2	123.2	136.98	1.900	
11,700.0	7,566.0	11,559.9	7,435.0	80.5	80.3	59.77	-4,431.1	-35.2	260.2	120.3	139.98	1.859	
11,800.0	7,566.0	11,659.9	7,435.0	82.2	82.1	59.77	-4,531.1	-35.2	260.2	117.3	142.98	1.820	
11,900.0	7,566.0	11,759.9	7,435.0	83.9	83.8	59.77	-4,631.1	-35.2	260.2	114.3	145.98	1.783	
12,000.0	7,566.0	11,859.9	7,435.0	85.7	85.5	59.77	-4,731.1	-35.2	260.2	111.2	148.98	1.747	
12,059.9	7,566.0	11,919.8	7,435.0	86.7	86.6	59.77	-4,791.0	-35.2	260.2	109.4	150.78	1.726	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 1F-19H-B2686 - 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	87.95	0.4	10.1	10.1						
100.0	100.0	100.0	100.0	0.2	0.2	87.95	0.4	10.1	10.1	9.8	0.30	33.168			
200.0	200.0	200.0	200.0	0.3	0.3	87.95	0.4	10.1	10.1	9.4	0.65	15.431			
300.0	300.0	300.0	300.0	0.5	0.5	87.95	0.4	10.1	10.1	9.1	1.00	10.054			
400.0	400.0	400.0	400.0	0.7	0.7	87.95	0.4	10.1	10.1	8.7	1.35	7.456			
500.0	500.0	500.0	500.0	0.8	0.8	87.95	0.4	10.1	10.1	8.4	1.70	5.925			
600.0	600.0	600.0	600.0	1.0	1.0	87.95	0.4	10.1	10.1	8.0	2.05	4.916			
700.0	700.0	700.0	700.0	1.2	1.2	87.95	0.4	10.1	10.1	7.7	2.40	4.200			
800.0	800.0	800.0	800.0	1.4	1.4	87.95	0.4	10.1	10.1	7.3	2.75	3.667			
900.0	900.0	900.0	900.0	1.5	1.5	87.95	0.4	10.1	10.1	7.0	3.10	3.253 CC, ES			
1,000.0	1,000.0	999.6	999.6	1.7	1.7	87.74	0.5	11.8	11.8	8.4	3.45	3.428			
1,100.0	1,100.0	1,099.1	1,098.9	1.9	1.9	87.37	0.8	16.9	17.0	13.2	3.80	4.466			
1,200.0	1,200.0	1,198.9	1,198.5	2.1	2.1	87.14	1.2	23.3	23.3	19.2	4.16	5.611			
1,300.0	1,300.0	1,298.7	1,298.1	2.2	2.3	87.00	1.6	29.6	29.7	25.2	4.52	6.569			
1,400.0	1,400.0	1,398.5	1,397.7	2.4	2.5	86.92	1.9	36.0	36.1	31.2	4.89	7.379			
1,500.0	1,500.0	1,498.3	1,497.3	2.6	2.7	86.86	2.3	42.3	42.5	37.2	5.26	8.074			
1,600.0	1,600.0	1,598.1	1,596.9	2.8	2.9	86.81	2.7	48.7	48.8	43.2	5.63	8.674			
1,700.0	1,700.0	1,697.9	1,696.5	2.9	3.1	86.78	3.1	55.0	55.2	49.2	6.00	9.199			
1,800.0	1,800.0	1,797.7	1,796.1	3.1	3.3	86.75	3.5	61.4	61.6	55.2	6.38	9.660			
1,900.0	1,900.0	1,897.4	1,895.7	3.3	3.5	86.73	3.9	67.7	68.0	61.2	6.75	10.069			
2,000.0	2,000.0	1,997.2	1,995.3	3.5	3.7	86.71	4.3	74.1	74.3	67.2	7.12	10.434			
2,100.0	2,100.0	2,097.0	2,094.9	3.6	3.9	86.70	4.6	80.4	80.7	73.2	7.50	10.761			
2,200.0	2,200.0	2,196.8	2,194.5	3.8	4.1	86.68	5.0	86.8	87.1	79.2	7.88	11.057			
2,300.0	2,300.0	2,296.6	2,294.0	4.0	4.3	86.67	5.4	93.1	93.4	85.2	8.25	11.324			
2,400.0	2,400.0	2,396.4	2,393.6	4.2	4.5	86.66	5.8	99.5	99.8	91.2	8.63	11.568			
2,500.0	2,500.0	2,496.2	2,493.2	4.3	4.7	86.65	6.2	105.8	106.2	97.2	9.01	11.791			
2,600.0	2,600.0	2,596.0	2,592.8	4.5	4.9	86.65	6.6	112.1	112.6	103.2	9.38	11.996			
2,700.0	2,700.0	2,695.8	2,692.4	4.7	5.1	86.64	7.0	118.5	118.9	109.2	9.76	12.184			
2,800.0	2,800.0	2,795.6	2,792.0	4.9	5.3	86.63	7.3	124.8	125.3	115.2	10.14	12.358			
2,900.0	2,900.0	2,895.4	2,891.6	5.0	5.5	86.63	7.7	131.2	131.7	121.2	10.52	12.520			
3,000.0	3,000.0	2,895.2	2,891.2	5.2	5.7	86.62	8.1	137.5	138.1	127.2	10.90	12.670			
3,100.0	3,100.0	3,095.0	3,090.8	5.4	5.9	86.62	8.5	143.9	144.4	133.2	11.28	12.809			
3,200.0	3,200.0	3,194.8	3,190.4	5.6	6.1	86.61	8.9	150.2	150.8	139.2	11.65	12.940			
3,300.0	3,300.0	3,294.6	3,290.0	5.7	6.3	86.61	9.3	156.6	157.2	145.1	12.03	13.062			
3,400.0	3,400.0	3,394.4	3,389.6	5.9	6.5	86.61	9.7	162.9	163.6	151.1	12.41	13.176			
3,500.0	3,500.0	3,494.2	3,489.2	6.1	6.7	86.60	10.1	169.3	169.9	157.1	12.79	13.283			
3,600.0	3,600.0	3,594.0	3,588.8	6.3	6.9	86.60	10.4	175.6	176.3	163.1	13.17	13.385			
3,700.0	3,700.0	3,693.8	3,688.4	6.4	7.1	86.60	10.8	182.0	182.7	169.1	13.55	13.480			
3,800.0	3,800.0	3,793.6	3,788.0	6.6	7.3	86.59	11.2	188.3	189.0	175.1	13.93	13.570			
3,900.0	3,900.0	3,893.4	3,887.5	6.8	7.5	86.59	11.6	194.7	195.4	181.1	14.31	13.655			
4,000.0	4,000.0	3,993.2	3,987.1	7.0	7.7	86.59	12.0	201.0	201.8	187.1	14.69	13.736			
4,100.0	4,100.0	4,093.1	4,086.8	7.1	7.9	-1.45	12.4	207.4	206.4	192.2	14.25	14.483			
4,155.7	4,155.6	4,148.7	4,142.4	7.2	8.1	-1.47	12.6	210.9	207.5	193.0	14.44	14.365			
4,200.0	4,199.9	4,193.1	4,186.6	7.3	8.1	-1.48	12.8	213.7	207.9	193.3	14.60	14.242			
4,300.0	4,299.7	4,293.0	4,286.4	7.5	8.4	-1.52	13.1	220.1	208.9	193.9	14.95	13.972			
4,400.0	4,399.6	4,393.0	4,386.2	7.7	8.6	-1.56	13.5	226.5	209.8	194.5	15.30	13.715			
4,500.0	4,499.4	4,493.0	4,486.0	7.8	8.8	-1.60	13.9	232.8	210.7	195.1	15.65	13.469			
4,600.0	4,599.3	4,593.0	4,585.8	8.0	9.0	-1.64	14.3	239.2	211.7	195.7	16.00	13.234			
4,700.0	4,699.1	4,693.0	4,685.6	8.2	9.2	-1.68	14.7	245.5	212.6	196.3	16.35	13.009			
4,800.0	4,799.0	4,793.0	4,785.4	8.4	9.4	-1.71	15.1	251.9	213.6	196.9	16.69	12.794			
4,900.0	4,898.8	4,893.0	4,885.2	8.6	9.6	-1.75	15.5	258.3	214.5	197.5	17.04	12.587			
5,000.0	4,998.7	4,993.0	4,984.9	8.8	9.8	-1.79	15.9	264.6	215.5	198.1	17.39	12.389			

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 1E-19H-B2687
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 1E-19H-B2687	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 1F-19H-B2686 - 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	5,098.5	5,093.0	5,084.7	8.9	10.0	-1.82	16.2	271.0	216.4	198.7	17.74	12.198		
5,200.0	5,198.4	5,193.0	5,184.5	9.1	10.2	-1.86	16.6	277.4	217.4	199.3	18.09	12.015		
5,300.0	5,298.2	5,293.0	5,284.3	9.3	10.4	-1.90	17.0	283.7	218.3	199.9	18.44	11.839		
5,400.0	5,398.1	5,393.0	5,384.1	9.5	10.6	-1.93	17.4	290.1	219.3	200.5	18.79	11.669		
5,500.0	5,497.9	5,493.0	5,483.9	9.7	10.8	-1.97	17.8	296.4	220.2	201.1	19.14	11.505		
5,600.0	5,597.8	5,593.0	5,583.7	9.9	11.0	-2.00	18.2	302.8	221.2	201.7	19.49	11.348		
5,700.0	5,697.6	5,693.0	5,683.5	10.1	11.2	-2.04	18.6	309.2	222.1	202.3	19.84	11.196		
5,800.0	5,797.5	5,793.0	5,783.3	10.2	11.4	-2.07	19.0	315.5	223.0	202.9	20.19	11.049		
5,900.0	5,897.3	5,893.0	5,883.1	10.4	11.7	-2.11	19.3	321.9	224.0	203.5	20.54	10.907		
6,000.0	5,997.2	5,993.0	5,982.9	10.6	11.9	-2.14	19.7	328.2	224.9	204.1	20.89	10.770		
6,100.0	6,097.1	6,093.0	6,082.7	10.8	12.1	-2.17	20.1	334.6	225.9	204.7	21.24	10.637		
6,200.0	6,196.9	6,193.0	6,182.5	11.0	12.3	-2.21	20.5	341.0	226.8	205.3	21.58	10.509		
6,300.0	6,296.8	6,293.0	6,282.2	11.2	12.5	-2.24	20.9	347.3	227.8	205.8	21.93	10.385		
6,400.0	6,396.6	6,393.0	6,382.0	11.4	12.7	-2.27	21.3	353.7	228.7	206.4	22.28	10.265		
6,500.0	6,496.5	6,492.9	6,481.8	11.6	12.9	-2.31	21.7	360.0	229.7	207.0	22.63	10.148		
6,600.0	6,596.3	6,592.9	6,581.6	11.8	13.1	-2.34	22.0	366.4	230.6	207.6	22.98	10.035		
6,700.0	6,696.2	6,694.3	6,682.7	11.9	13.3	-1.74	19.9	372.8	231.4	208.1	23.33	9.917		
6,800.0	6,796.0	6,794.2	6,781.2	12.1	13.5	2.01	4.9	379.1	231.8	208.2	23.68	9.790		
6,853.6	6,849.5	6,845.6	6,830.8	12.2	13.6	5.23	-8.0	382.3	232.8	208.9	23.87	9.751		
6,900.0	6,895.8	6,888.8	6,871.7	12.3	13.7	-42.75	-21.7	384.9	234.4	210.3	24.03	9.754		
6,950.0	6,945.5	6,934.6	6,914.0	12.4	13.8	-57.96	-38.9	387.6	236.9	212.7	24.19	9.792		
7,000.0	6,994.7	6,979.6	6,954.5	12.5	13.9	-61.99	-58.3	390.2	240.1	215.8	24.34	9.865		
7,050.0	7,043.3	7,023.9	6,993.2	12.6	14.1	-62.66	-80.0	392.6	244.0	219.5	24.47	9.971		
7,100.0	7,090.8	7,067.6	7,029.8	12.7	14.2	-62.03	-103.6	395.0	248.4	223.8	24.57	10.108		
7,150.0	7,137.2	7,110.7	7,064.5	12.8	14.4	-60.82	-129.0	397.2	253.2	228.6	24.65	10.273		
7,200.0	7,182.3	7,153.2	7,097.2	13.0	14.5	-59.36	-156.2	399.3	258.3	233.6	24.69	10.461		
7,250.0	7,225.7	7,195.3	7,127.9	13.1	14.7	-57.82	-184.8	401.2	263.7	239.0	24.72	10.667		
7,300.0	7,267.2	7,236.9	7,156.6	13.3	14.9	-56.28	-214.9	403.1	269.1	244.4	24.73	10.883		
7,350.0	7,306.8	7,278.1	7,183.2	13.5	15.2	-54.79	-246.3	404.8	274.6	249.9	24.73	11.104		
7,400.0	7,344.1	7,318.9	7,207.7	13.8	15.4	-53.39	-278.9	406.3	280.0	255.3	24.73	11.322		
7,450.0	7,379.0	7,359.3	7,230.2	14.0	15.7	-52.08	-312.5	407.7	285.3	260.5	24.75	11.527		
7,500.0	7,411.4	7,400.0	7,250.8	14.3	16.0	-50.86	-347.5	409.1	290.4	265.6	24.80	11.709		
7,550.0	7,441.0	7,439.4	7,268.8	14.7	16.4	-49.78	-382.4	410.2	295.2	270.3	24.90	11.855		
7,600.0	7,467.7	7,479.0	7,285.0	15.1	16.7	-48.81	-418.6	411.2	299.6	274.6	25.06	11.957		
7,650.0	7,491.5	7,518.4	7,299.2	15.5	17.1	-47.94	-455.4	412.1	303.7	278.4	25.29	12.008		
7,700.0	7,512.1	7,557.6	7,311.2	16.0	17.5	-47.18	-492.7	412.9	307.4	281.8	25.62	11.999		
7,750.0	7,529.5	7,600.0	7,321.9	16.5	17.9	-46.49	-533.7	413.6	310.7	284.6	26.06	11.921		
7,800.0	7,543.6	7,635.6	7,328.9	17.0	18.3	-45.99	-568.5	414.0	313.4	286.8	26.59	11.787		
7,850.0	7,554.3	7,674.3	7,334.7	17.6	18.7	-45.55	-606.9	414.4	315.7	288.4	27.25	11.585		
7,900.0	7,561.6	7,713.1	7,338.4	18.2	19.2	-45.21	-645.4	414.6	317.4	289.4	28.03	11.326		
7,950.0	7,565.4	7,751.7	7,339.9	18.8	19.6	-44.97	-684.0	414.7	318.6	289.7	28.92	11.018		
7,979.9	7,566.0	7,778.7	7,340.0	19.2	20.0	-44.89	-711.0	414.7	319.0	289.4	29.55	10.794		
8,000.0	7,566.0	7,798.8	7,340.0	19.5	20.2	-44.89	-731.1	414.7	319.0	289.1	29.92	10.660		
8,100.0	7,566.0	7,898.8	7,340.0	20.8	21.5	-44.89	-831.1	414.7	319.0	287.2	31.83	10.023		
8,200.0	7,566.0	7,998.8	7,340.0	22.2	22.9	-44.89	-931.1	414.7	319.0	285.2	33.80	9.437		
8,300.0	7,566.0	8,098.8	7,340.0	23.7	24.3	-44.89	-1,031.1	414.7	319.0	283.2	35.85	8.899		
8,400.0	7,566.0	8,198.8	7,340.0	25.1	25.7	-44.89	-1,131.1	414.7	319.0	281.1	37.94	8.407		
8,500.0	7,566.0	8,298.8	7,340.0	26.7	27.2	-44.89	-1,231.1	414.7	319.0	278.9	40.08	7.958		
8,600.0	7,566.0	8,398.8	7,340.0	28.2	28.7	-44.89	-1,331.1	414.7	319.0	276.7	42.26	7.548		
8,700.0	7,566.0	8,498.8	7,340.0	29.8	30.3	-44.89	-1,431.1	414.7	319.0	274.5	44.48	7.172		
8,800.0	7,566.0	8,598.8	7,340.0	31.4	31.8	-44.89	-1,531.1	414.7	319.0	272.3	46.72	6.828		
8,900.0	7,566.0	8,698.8	7,340.0	33.0	33.4	-44.89	-1,631.1	414.7	319.0	270.0	48.98	6.513		

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 1E-19H-B2687
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 1E-19H-B2687	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 1F-19H-B2686 - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
9,000.0	7,566.0	8,798.8	7,340.0	34.6	35.0	-44.89	-1,731.1	414.7	319.0	267.7	51.27	6.222		
9,100.0	7,566.0	8,898.8	7,340.0	36.2	36.6	-44.89	-1,831.1	414.7	319.0	265.4	53.57	5.955		
9,200.0	7,566.0	8,998.8	7,340.0	37.9	38.2	-44.89	-1,931.1	414.7	319.0	263.1	55.89	5.708		
9,300.0	7,566.0	9,098.8	7,340.0	39.5	39.9	-44.89	-2,031.1	414.7	319.0	260.8	58.23	5.479		
9,400.0	7,566.0	9,198.8	7,340.0	41.2	41.5	-44.89	-2,131.1	414.7	319.0	258.4	60.57	5.266		
9,500.0	7,566.0	9,298.8	7,340.0	42.8	43.2	-44.89	-2,231.1	414.7	319.0	256.1	62.93	5.069		
9,600.0	7,566.0	9,398.8	7,340.0	44.5	44.8	-44.89	-2,331.1	414.7	319.0	253.7	65.30	4.885		
9,700.0	7,566.0	9,498.8	7,340.0	46.2	46.5	-44.89	-2,431.1	414.7	319.0	251.3	67.67	4.714		
9,800.0	7,566.0	9,598.8	7,340.0	47.9	48.2	-44.89	-2,531.1	414.7	319.0	248.9	70.06	4.553		
9,900.0	7,566.0	9,698.8	7,340.0	49.6	49.8	-44.89	-2,631.1	414.7	319.0	246.5	72.45	4.403		
10,000.0	7,566.0	9,798.8	7,340.0	51.3	51.5	-44.89	-2,731.1	414.7	319.0	244.2	74.85	4.262		
10,100.0	7,566.0	9,898.8	7,340.0	53.0	53.2	-44.89	-2,831.1	414.7	319.0	241.7	77.25	4.129		
10,200.0	7,566.0	9,998.8	7,340.0	54.7	54.9	-44.89	-2,931.1	414.7	319.0	239.3	79.66	4.004		
10,300.0	7,566.0	10,098.8	7,340.0	56.4	56.6	-44.89	-3,031.1	414.7	319.0	236.9	82.08	3.887		
10,400.0	7,566.0	10,198.8	7,340.0	58.1	58.3	-44.89	-3,131.1	414.7	319.0	234.5	84.50	3.775		
10,500.0	7,566.0	10,298.8	7,340.0	59.8	60.0	-44.89	-3,231.1	414.7	319.0	232.1	86.92	3.670		
10,600.0	7,566.0	10,398.8	7,340.0	61.5	61.7	-44.89	-3,331.1	414.7	319.0	229.7	89.35	3.570		
10,700.0	7,566.0	10,498.8	7,340.0	63.2	63.4	-44.89	-3,431.1	414.7	319.0	227.2	91.78	3.476		
10,800.0	7,566.0	10,598.8	7,340.0	64.9	65.1	-44.89	-3,531.1	414.7	319.0	224.8	94.21	3.386		
10,900.0	7,566.0	10,698.8	7,340.0	66.7	66.9	-44.89	-3,631.1	414.7	319.0	222.4	96.64	3.301		
11,000.0	7,566.0	10,798.8	7,340.0	68.4	68.6	-44.89	-3,731.1	414.7	319.0	219.9	99.08	3.219		
11,100.0	7,566.0	10,898.8	7,340.0	70.1	70.3	-44.89	-3,831.1	414.7	319.0	217.5	101.53	3.142		
11,200.0	7,566.0	10,998.8	7,340.0	71.8	72.0	-44.89	-3,931.1	414.7	319.0	215.0	103.97	3.068		
11,300.0	7,566.0	11,098.8	7,340.0	73.6	73.7	-44.89	-4,031.1	414.7	319.0	212.6	106.42	2.998		
11,400.0	7,566.0	11,198.8	7,340.0	75.3	75.4	-44.89	-4,131.1	414.7	319.0	210.1	108.86	2.930		
11,500.0	7,566.0	11,298.8	7,340.0	77.0	77.2	-44.89	-4,231.1	414.7	319.0	207.7	111.31	2.866		
11,600.0	7,566.0	11,398.8	7,340.0	78.7	78.9	-44.89	-4,331.1	414.7	319.0	205.2	113.77	2.804		
11,700.0	7,566.0	11,498.8	7,340.0	80.5	80.6	-44.89	-4,431.1	414.7	319.0	202.8	116.22	2.745		
11,800.0	7,566.0	11,598.8	7,340.0	82.2	82.3	-44.89	-4,531.1	414.7	319.0	200.3	118.67	2.688		
11,900.0	7,566.0	11,698.8	7,340.0	83.9	84.1	-44.89	-4,631.1	414.7	319.0	197.9	121.13	2.634		
12,000.0	7,566.0	11,798.8	7,340.0	85.7	85.8	-44.89	-4,731.1	414.7	319.0	195.4	123.59	2.581		
12,033.0	7,566.0	11,831.7	7,340.0	86.2	86.4	-44.89	-4,764.0	414.7	319.0	194.6	124.40	2.564		
12,059.9	7,566.0	11,854.7	7,340.0	86.7	86.8	-44.89	-4,787.0	414.7	319.0	194.0	125.01	2.552 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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							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	0.7	19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.90	0.7	19.9	19.9	19.6	0.30	65.416		
200.0	200.0	200.0	200.0	0.3	0.3	87.90	0.7	19.9	19.9	19.2	0.65	30.434		
300.0	300.0	300.0	300.0	0.5	0.5	87.90	0.7	19.9	19.9	18.9	1.00	19.830		
400.0	400.0	400.0	400.0	0.7	0.7	87.90	0.7	19.9	19.9	18.5	1.35	14.706		
500.0	500.0	500.0	500.0	0.8	0.8	87.90	0.7	19.9	19.9	18.2	1.70	11.686		
600.0	600.0	600.0	600.0	1.0	1.0	87.90	0.7	19.9	19.9	17.8	2.05	9.695		
700.0	700.0	700.0	700.0	1.2	1.2	87.90	0.7	19.9	19.9	17.5	2.40	8.284	CC, ES	
800.0	800.0	799.3	799.3	1.4	1.4	87.87	0.8	21.6	21.6	18.9	2.75	7.862		
900.0	900.0	898.3	898.1	1.5	1.6	87.81	1.0	26.7	26.8	23.7	3.10	8.631		
1,000.0	1,000.0	997.8	997.3	1.7	1.7	87.76	1.3	34.3	34.4	31.0	3.47	9.927		
1,100.0	1,100.0	1,097.5	1,096.7	1.9	1.9	87.73	1.7	42.0	42.2	38.4	3.84	10.983		
1,200.0	1,200.0	1,197.2	1,196.1	2.1	2.1	87.70	2.0	49.8	50.0	45.7	4.22	11.840		
1,300.0	1,300.0	1,296.9	1,295.5	2.2	2.4	87.68	2.3	57.5	57.7	53.1	4.60	12.548		
1,400.0	1,400.0	1,396.6	1,394.9	2.4	2.6	87.67	2.7	65.2	65.5	60.5	4.98	13.141		
1,500.0	1,500.0	1,496.3	1,494.3	2.6	2.8	87.66	3.0	73.0	73.2	67.9	5.37	13.645		
1,600.0	1,600.0	1,596.0	1,593.7	2.8	3.0	87.65	3.3	80.7	81.0	75.2	5.75	14.078		
1,700.0	1,700.0	1,695.7	1,693.1	2.9	3.2	87.65	3.6	88.4	88.8	82.6	6.14	14.454		
1,800.0	1,800.0	1,795.4	1,792.5	3.1	3.4	87.64	4.0	96.1	96.5	90.0	6.53	14.782		
1,900.0	1,900.0	1,895.1	1,891.9	3.3	3.6	87.63	4.3	103.9	104.3	97.4	6.92	15.073		
2,000.0	2,000.0	1,994.8	1,991.3	3.5	3.8	87.63	4.6	111.6	112.0	104.7	7.31	15.330		
2,100.0	2,100.0	2,094.5	2,090.7	3.6	4.1	87.63	4.9	119.3	119.8	112.1	7.70	15.561		
2,200.0	2,200.0	2,194.2	2,190.1	3.8	4.3	87.62	5.3	127.1	127.6	119.5	8.09	15.769		
2,300.0	2,300.0	2,293.9	2,289.5	4.0	4.5	87.62	5.6	134.8	135.3	126.8	8.48	15.956		
2,400.0	2,400.0	2,393.6	2,388.9	4.2	4.7	87.62	5.9	142.5	143.1	134.2	8.87	16.126		
2,500.0	2,500.0	2,493.3	2,488.3	4.3	4.9	87.62	6.3	150.3	150.8	141.6	9.26	16.282		
2,600.0	2,600.0	2,593.0	2,587.7	4.5	5.1	87.61	6.6	158.0	158.6	148.9	9.66	16.424		
2,700.0	2,700.0	2,692.7	2,687.1	4.7	5.4	87.61	6.9	165.7	166.4	156.3	10.05	16.555		
2,800.0	2,800.0	2,792.4	2,786.5	4.9	5.6	87.61	7.2	173.4	174.1	163.7	10.44	16.676		
2,900.0	2,900.0	2,892.0	2,885.9	5.0	5.8	87.61	7.6	181.2	181.9	171.0	10.83	16.788		
3,000.0	3,000.0	2,991.7	2,985.3	5.2	6.0	87.61	7.9	188.9	189.6	178.4	11.23	16.891		
3,100.0	3,100.0	3,091.4	3,084.7	5.4	6.2	87.60	8.2	196.6	197.4	185.8	11.62	16.988		
3,200.0	3,200.0	3,191.1	3,184.1	5.6	6.5	87.60	8.6	204.4	205.2	193.1	12.01	17.077		
3,300.0	3,300.0	3,290.8	3,283.5	5.7	6.7	87.60	8.9	212.1	212.9	200.5	12.41	17.162		
3,400.0	3,400.0	3,390.5	3,382.9	5.9	6.9	87.60	9.2	219.8	220.7	207.9	12.80	17.240		
3,500.0	3,500.0	3,490.2	3,482.3	6.1	7.1	87.60	9.5	227.5	228.4	215.2	13.19	17.314		
3,600.0	3,600.0	3,589.9	3,581.7	6.3	7.3	87.60	9.9	235.3	236.2	222.6	13.59	17.384		
3,700.0	3,700.0	3,689.6	3,681.1	6.4	7.5	87.60	10.2	243.0	244.0	230.0	13.98	17.449		
3,800.0	3,800.0	3,789.3	3,780.5	6.6	7.8	87.60	10.5	250.7	251.7	237.3	14.37	17.511		
3,900.0	3,900.0	3,889.0	3,879.9	6.8	8.0	87.60	10.8	258.5	259.5	244.7	14.77	17.569		
4,000.0	4,000.0	3,988.7	3,979.3	7.0	8.2	87.60	11.2	266.2	267.2	252.1	15.16	17.625		
4,100.0	4,100.0	4,088.5	4,078.8	7.1	8.4	-0.43	11.5	273.9	273.2	259.0	14.25	19.182		
4,155.7	4,155.6	4,144.2	4,134.2	7.2	8.5	-0.44	11.7	278.2	275.1	260.6	14.44	19.054		
4,200.0	4,199.9	4,188.5	4,178.4	7.3	8.6	-0.44	11.8	281.7	276.1	261.5	14.59	18.923		
4,300.0	4,299.7	4,288.5	4,278.1	7.5	8.9	-0.45	12.2	289.4	278.5	263.5	14.94	18.637		
4,400.0	4,399.6	4,388.4	4,377.8	7.7	9.1	-0.46	12.5	297.2	280.8	265.5	15.29	18.364		
4,500.0	4,499.4	4,488.4	4,477.4	7.8	9.3	-0.47	12.8	304.9	283.1	267.5	15.64	18.103		
4,600.0	4,599.3	4,588.4	4,577.1	8.0	9.5	-0.47	13.1	312.7	285.5	269.5	15.99	17.853		
4,700.0	4,699.1	4,688.4	4,676.8	8.2	9.7	-0.48	13.5	320.4	287.8	271.4	16.34	17.614		
4,800.0	4,799.0	4,788.3	4,776.5	8.4	10.0	-0.49	13.8	328.2	290.1	273.4	16.69	17.385		
4,900.0	4,898.8	4,888.3	4,876.1	8.6	10.2	-0.50	14.1	335.9	292.5	275.4	17.04	17.166		
5,000.0	4,998.7	4,988.3	4,975.8	8.8	10.4	-0.51	14.5	343.7	294.8	277.4	17.39	16.955		

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 1E-19H-B2687
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 1E-19H-B2687	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						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	5,098.5	5,088.3	5,075.5	8.9	10.6	-0.51	14.8	351.4	297.1	279.4	17.74	16.753	
5,200.0	5,198.4	5,188.2	5,175.1	9.1	10.8	-0.52	15.1	359.2	299.5	281.4	18.08	16.558	
5,300.0	5,298.2	5,288.2	5,274.8	9.3	11.1	-0.53	15.4	366.9	301.8	283.4	18.43	16.371	
5,400.0	5,398.1	5,388.2	5,374.5	9.5	11.3	-0.54	15.8	374.7	304.1	285.3	18.78	16.191	
5,500.0	5,497.9	5,488.1	5,474.2	9.7	11.5	-0.54	16.1	382.4	306.5	287.3	19.13	16.018	
5,600.0	5,597.8	5,588.1	5,573.8	9.9	11.7	-0.55	16.4	390.2	308.8	289.3	19.48	15.850	
5,700.0	5,697.6	5,688.1	5,673.5	10.1	12.0	-0.56	16.8	397.9	311.1	291.3	19.83	15.689	
5,800.0	5,797.5	5,788.1	5,773.2	10.2	12.2	-0.57	17.1	405.7	313.5	293.3	20.18	15.533	
5,900.0	5,897.3	5,888.0	5,872.8	10.4	12.4	-0.57	17.4	413.4	315.8	295.3	20.53	15.382	
6,000.0	5,997.2	5,988.0	5,972.5	10.6	12.6	-0.58	17.7	421.2	318.1	297.2	20.88	15.237	
6,100.0	6,097.1	6,088.0	6,072.2	10.8	12.8	-0.59	18.1	428.9	320.5	299.2	21.23	15.096	
6,200.0	6,196.9	6,188.0	6,171.9	11.0	13.1	-0.59	18.4	436.7	322.8	301.2	21.58	14.960	
6,300.0	6,296.8	6,287.9	6,271.5	11.2	13.3	-0.60	18.7	444.4	325.1	303.2	21.93	14.828	
6,400.0	6,396.6	6,387.9	6,371.2	11.4	13.5	-0.61	19.1	452.2	327.5	305.2	22.28	14.700	
6,500.0	6,496.5	6,487.9	6,470.9	11.6	13.7	-0.61	19.4	459.9	329.8	307.2	22.62	14.576	
6,600.0	6,596.3	6,587.8	6,570.5	11.8	13.9	-0.62	19.7	467.7	332.1	309.1	22.97	14.456	
6,700.0	6,696.2	6,687.8	6,670.2	11.9	14.2	-0.63	20.0	475.4	334.5	311.1	23.32	14.340	
6,800.0	6,796.0	6,788.8	6,770.9	12.1	14.4	-0.30	18.5	483.3	336.7	313.0	23.67	14.222	
6,853.6	6,849.5	6,842.9	6,824.4	12.2	14.5	0.71	12.7	487.4	337.8	313.9	23.86	14.155	
6,900.0	6,895.8	6,889.0	6,869.7	12.3	14.6	-49.20	4.5	490.9	338.8	314.7	24.02	14.101	
6,950.0	6,945.5	6,938.3	6,917.4	12.4	14.7	-66.40	-7.4	494.7	340.0	315.8	24.20	14.051	
7,000.0	6,994.7	6,987.1	6,963.6	12.5	14.8	-72.32	-22.4	498.3	341.4	317.0	24.37	14.007	
7,050.0	7,043.3	7,035.4	7,008.3	12.6	14.9	-74.75	-40.4	501.7	342.8	318.3	24.55	13.967	
7,100.0	7,090.8	7,083.2	7,051.3	12.7	15.1	-75.75	-61.1	505.1	344.5	319.7	24.73	13.930	
7,150.0	7,137.2	7,130.7	7,092.5	12.8	15.2	-76.03	-84.4	508.3	346.1	321.2	24.92	13.890	
7,200.0	7,182.3	7,177.7	7,131.7	13.0	15.4	-75.92	-110.2	511.3	347.9	322.8	25.13	13.845	
7,250.0	7,225.7	7,224.4	7,168.9	13.1	15.5	-75.58	-138.3	514.2	349.7	324.4	25.36	13.790	
7,300.0	7,267.2	7,270.7	7,203.9	13.3	15.7	-75.12	-168.5	516.9	351.6	326.0	25.63	13.720	
7,350.0	7,306.8	7,316.7	7,236.7	13.5	16.0	-74.58	-200.6	519.5	353.5	327.5	25.93	13.630	
7,400.0	7,344.1	7,362.4	7,267.1	13.8	16.2	-74.01	-234.6	521.8	355.3	329.0	26.29	13.517	
7,450.0	7,379.0	7,407.8	7,295.1	14.0	16.5	-73.42	-270.2	524.0	357.1	330.4	26.70	13.375	
7,500.0	7,411.4	7,452.9	7,320.7	14.3	16.8	-72.85	-307.3	526.0	358.9	331.7	27.18	13.204	
7,550.0	7,441.0	7,500.0	7,344.9	14.7	17.1	-72.26	-347.7	527.9	360.6	332.8	27.75	12.994	
7,600.0	7,467.7	7,542.4	7,364.4	15.1	17.4	-71.76	-385.4	529.4	362.2	333.8	28.38	12.762	
7,650.0	7,491.5	7,586.9	7,382.3	15.5	17.8	-71.27	-426.0	530.8	363.6	334.5	29.10	12.495	
7,700.0	7,512.1	7,631.2	7,397.7	16.0	18.2	-70.82	-467.5	532.0	365.0	335.0	29.91	12.200	
7,750.0	7,529.5	7,675.3	7,410.4	16.5	18.6	-70.41	-509.8	533.0	366.1	335.3	30.81	11.883	
7,800.0	7,543.6	7,719.3	7,420.5	17.0	19.1	-70.05	-552.6	533.8	367.2	335.4	31.80	11.547	
7,850.0	7,554.3	7,763.2	7,428.0	17.6	19.5	-69.75	-595.8	534.4	368.0	335.1	32.87	11.197	
7,900.0	7,561.6	7,807.0	7,432.8	18.2	20.0	-69.50	-639.3	534.7	368.7	334.7	34.01	10.839	
7,950.0	7,565.4	7,850.0	7,434.9	18.8	20.5	-69.30	-682.3	534.9	369.2	333.9	35.22	10.481	
7,979.9	7,566.0	7,878.7	7,435.0	19.2	20.9	-69.22	-711.0	534.9	369.3	333.3	36.02	10.254	
8,000.0	7,566.0	7,898.8	7,435.0	19.5	21.1	-69.22	-731.1	534.9	369.3	332.8	36.51	10.115	
8,100.0	7,566.0	7,998.8	7,435.0	20.8	22.3	-69.22	-831.1	534.9	369.3	330.3	39.04	9.459	
8,200.0	7,566.0	8,098.8	7,435.0	22.2	23.7	-69.22	-931.1	534.9	369.3	327.6	41.68	8.861	
8,300.0	7,566.0	8,198.8	7,435.0	23.7	25.0	-69.22	-1,031.1	534.9	369.3	324.9	44.40	8.318	
8,400.0	7,566.0	8,298.8	7,435.0	25.1	26.4	-69.22	-1,131.1	534.9	369.3	322.1	47.19	7.825	
8,500.0	7,566.0	8,398.8	7,435.0	26.7	27.9	-69.22	-1,231.1	534.9	369.3	319.3	50.05	7.379	
8,600.0	7,566.0	8,498.8	7,435.0	28.2	29.3	-69.22	-1,331.1	534.9	369.3	316.4	52.95	6.975	
8,700.0	7,566.0	8,598.8	7,435.0	29.8	30.9	-69.22	-1,431.1	534.9	369.3	313.4	55.90	6.607	
8,800.0	7,566.0	8,698.8	7,435.0	31.4	32.4	-69.22	-1,531.1	534.9	369.3	310.4	58.88	6.272	
8,900.0	7,566.0	8,798.8	7,435.0	33.0	33.9	-69.22	-1,631.1	534.9	369.3	307.4	61.89	5.967	

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 1E-19H-B2687
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 1E-19H-B2687	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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,566.0	8,898.8	7,435.0	34.6	35.5	-69.22	-1,731.1	534.9	369.3	304.4	64.93	5.688		
9,100.0	7,566.0	8,998.8	7,435.0	36.2	37.1	-69.22	-1,831.1	534.9	369.3	301.3	67.99	5.432		
9,200.0	7,566.0	9,098.8	7,435.0	37.9	38.7	-69.22	-1,931.1	534.9	369.3	298.2	71.07	5.197		
9,300.0	7,566.0	9,198.8	7,435.0	39.5	40.3	-69.22	-2,031.1	534.9	369.3	295.1	74.17	4.979		
9,400.0	7,566.0	9,298.8	7,435.0	41.2	42.0	-69.22	-2,131.1	534.9	369.3	292.0	77.28	4.779		
9,500.0	7,566.0	9,398.8	7,435.0	42.8	43.6	-69.22	-2,231.1	534.9	369.3	288.9	80.41	4.593		
9,600.0	7,566.0	9,498.8	7,435.0	44.5	45.2	-69.22	-2,331.1	534.9	369.3	285.8	83.54	4.420		
9,700.0	7,566.0	9,598.8	7,435.0	46.2	46.9	-69.22	-2,431.1	534.9	369.3	282.6	86.69	4.260		
9,800.0	7,566.0	9,698.8	7,435.0	47.9	48.6	-69.22	-2,531.1	534.9	369.3	279.5	89.85	4.110		
9,900.0	7,566.0	9,798.8	7,435.0	49.6	50.2	-69.22	-2,631.1	534.9	369.3	276.3	93.02	3.970		
10,000.0	7,566.0	9,898.8	7,435.0	51.3	51.9	-69.22	-2,731.1	534.9	369.3	273.1	96.19	3.839		
10,100.0	7,566.0	9,998.8	7,435.0	53.0	53.6	-69.22	-2,831.1	534.9	369.3	269.9	99.38	3.716		
10,200.0	7,566.0	10,098.8	7,435.0	54.7	55.3	-69.22	-2,931.1	534.9	369.3	266.7	102.57	3.601		
10,300.0	7,566.0	10,198.8	7,435.0	56.4	56.9	-69.22	-3,031.1	534.9	369.3	263.5	105.76	3.492		
10,400.0	7,566.0	10,298.8	7,435.0	58.1	58.6	-69.22	-3,131.1	534.9	369.3	260.3	108.96	3.389		
10,500.0	7,566.0	10,398.8	7,435.0	59.8	60.3	-69.22	-3,231.1	534.9	369.3	257.1	112.16	3.293		
10,600.0	7,566.0	10,498.8	7,435.0	61.5	62.0	-69.22	-3,331.1	534.9	369.3	253.9	115.37	3.201		
10,700.0	7,566.0	10,598.8	7,435.0	63.2	63.7	-69.22	-3,431.1	534.9	369.3	250.7	118.59	3.114		
10,800.0	7,566.0	10,698.8	7,435.0	64.9	65.4	-69.22	-3,531.1	534.9	369.3	247.5	121.80	3.032		
10,900.0	7,566.0	10,798.8	7,435.0	66.7	67.1	-69.22	-3,631.1	534.9	369.3	244.3	125.02	2.954		
11,000.0	7,566.0	10,898.8	7,435.0	68.4	68.9	-69.22	-3,731.1	534.9	369.3	241.1	128.25	2.880		
11,100.0	7,566.0	10,998.8	7,435.0	70.1	70.6	-69.22	-3,831.1	534.9	369.3	237.8	131.47	2.809		
11,200.0	7,566.0	11,098.8	7,435.0	71.8	72.3	-69.22	-3,931.1	534.9	369.3	234.6	134.70	2.742		
11,300.0	7,566.0	11,198.8	7,435.0	73.6	74.0	-69.22	-4,031.1	534.9	369.3	231.4	137.93	2.677		
11,400.0	7,566.0	11,298.8	7,435.0	75.3	75.7	-69.22	-4,131.1	534.9	369.3	228.1	141.17	2.616		
11,443.1	7,566.0	11,341.9	7,435.0	76.0	76.4	-69.22	-4,174.2	534.9	369.3	226.7	142.56	2.591		
11,500.0	7,566.0	11,392.9	7,435.0	77.0	77.3	-69.24	-4,225.1	535.2	369.6	225.3	144.32	2.561		
11,600.0	7,566.0	11,475.8	7,435.0	78.7	78.8	-69.43	-4,308.0	538.6	373.5	226.0	147.45	2.533 SF		
11,700.0	7,566.0	11,558.2	7,435.0	80.5	80.2	-69.82	-4,390.0	546.0	382.0	231.2	150.76	2.533		
11,800.0	7,566.0	11,639.7	7,435.0	82.2	81.6	-70.39	-4,470.7	557.3	395.0	240.8	154.22	2.561		
11,900.0	7,566.0	11,719.9	7,435.0	83.9	83.0	-71.10	-4,549.5	572.2	412.5	254.7	157.78	2.614		
12,000.0	7,566.0	11,800.0	7,435.0	85.7	84.4	-71.91	-4,627.5	590.7	434.5	273.1	161.43	2.692		
12,059.9	7,566.0	11,844.7	7,435.0	86.7	85.1	-72.40	-4,670.6	602.7	449.8	286.2	163.55	2.750		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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	87.90	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		
600.0	600.0	600.0	600.0	1.0	1.0	87.90	1.1	29.9	29.9	27.9	2.05	14.611	CC, ES	
700.0	700.0	698.9	698.9	1.2	1.2	87.88	1.2	31.6	31.7	29.3	2.40	13.206		
800.0	800.0	797.6	797.5	1.4	1.4	87.82	1.4	36.7	36.8	34.1	2.75	13.373		
900.0	900.0	895.8	895.3	1.5	1.6	87.76	1.8	45.2	45.4	42.3	3.13	14.517		
1,000.0	1,000.0	994.0	992.8	1.7	1.8	87.70	2.3	56.8	57.3	53.7	3.53	16.228		
1,100.0	1,100.0	1,093.2	1,091.2	1.9	2.0	87.66	2.8	69.2	69.8	65.9	3.94	17.714		
1,200.0	1,200.0	1,192.4	1,189.6	2.1	2.3	87.63	3.4	81.7	82.4	78.1	4.37	18.879		
1,300.0	1,300.0	1,291.6	1,288.0	2.2	2.5	87.61	3.9	94.2	95.0	90.2	4.80	19.811		
1,400.0	1,400.0	1,390.8	1,386.5	2.4	2.8	87.60	4.5	106.6	107.6	102.4	5.23	20.572		
1,500.0	1,500.0	1,490.0	1,484.9	2.6	3.1	87.58	5.0	119.1	120.2	114.5	5.67	21.203		
1,600.0	1,600.0	1,589.2	1,583.3	2.8	3.3	87.57	5.6	131.6	132.7	126.6	6.11	21.735		
1,700.0	1,700.0	1,688.5	1,681.7	2.9	3.6	87.56	6.1	144.0	145.3	138.8	6.55	22.187		
1,800.0	1,800.0	1,787.7	1,780.1	3.1	3.9	87.56	6.7	156.5	157.9	150.9	6.99	22.577		
1,900.0	1,900.0	1,886.9	1,878.5	3.3	4.1	87.55	7.2	169.0	170.5	163.1	7.44	22.917		
2,000.0	2,000.0	1,986.1	1,977.0	3.5	4.4	87.55	7.8	181.5	183.1	175.2	7.89	23.215		
2,100.0	2,100.0	2,085.3	2,075.4	3.6	4.7	87.54	8.3	193.9	195.7	187.3	8.33	23.478		
2,200.0	2,200.0	2,184.5	2,173.8	3.8	5.0	87.54	8.9	206.4	208.2	199.5	8.78	23.713		
2,300.0	2,300.0	2,283.7	2,272.2	4.0	5.2	87.53	9.4	218.9	220.8	211.6	9.23	23.923		
2,400.0	2,400.0	2,382.9	2,370.6	4.2	5.5	87.53	10.0	231.3	233.4	223.7	9.68	24.113		
2,500.0	2,500.0	2,482.1	2,469.1	4.3	5.8	87.53	10.5	243.8	246.0	235.9	10.13	24.284		
2,600.0	2,600.0	2,581.3	2,567.5	4.5	6.1	87.53	11.1	256.3	258.6	248.0	10.58	24.440		
2,700.0	2,700.0	2,680.5	2,665.9	4.7	6.3	87.52	11.6	268.7	271.1	260.1	11.03	24.583		
2,800.0	2,800.0	2,779.7	2,764.3	4.9	6.6	87.52	12.2	281.2	283.7	272.2	11.48	24.713		
2,900.0	2,900.0	2,878.9	2,862.7	5.0	6.9	87.52	12.7	293.7	296.3	284.4	11.93	24.834		
3,000.0	3,000.0	2,978.1	2,961.1	5.2	7.2	87.52	13.3	306.1	308.9	296.5	12.38	24.945		
3,100.0	3,100.0	3,077.3	3,059.6	5.4	7.4	87.52	13.8	318.6	321.5	308.6	12.83	25.047		
3,200.0	3,200.0	3,176.5	3,158.0	5.6	7.7	87.51	14.4	331.1	334.1	320.8	13.29	25.143		
3,300.0	3,300.0	3,275.7	3,256.4	5.7	8.0	87.51	14.9	343.6	346.6	332.9	13.74	25.232		
3,400.0	3,400.0	3,374.9	3,354.8	5.9	8.3	87.51	15.5	356.0	359.2	345.0	14.19	25.315		
3,500.0	3,500.0	3,474.1	3,453.2	6.1	8.6	87.51	16.0	368.5	371.8	357.2	14.64	25.392		
3,600.0	3,600.0	3,573.4	3,551.6	6.3	8.8	87.51	16.6	381.0	384.4	369.3	15.09	25.465		
3,700.0	3,700.0	3,672.6	3,650.1	6.4	9.1	87.51	17.1	393.4	397.0	381.4	15.55	25.534		
3,800.0	3,800.0	3,771.8	3,748.5	6.6	9.4	87.51	17.7	405.9	409.5	393.5	16.00	25.598		
3,900.0	3,900.0	3,871.0	3,846.9	6.8	9.7	87.51	18.2	418.4	422.1	405.7	16.45	25.658		
4,000.0	4,000.0	3,970.2	3,945.3	7.0	9.9	87.51	18.8	430.8	434.7	417.8	16.90	25.716		
4,100.0	4,100.0	4,069.6	4,043.9	7.1	10.2	-0.52	19.3	443.3	445.5	431.3	14.21	31.356		
4,155.7	4,155.6	4,125.1	4,099.0	7.2	10.4	-0.52	19.6	450.3	450.1	435.7	14.40	31.246		
4,200.0	4,199.9	4,169.3	4,142.8	7.3	10.5	-0.53	19.9	455.9	453.3	438.7	14.56	31.133		
4,300.0	4,299.7	4,269.0	4,241.8	7.5	10.8	-0.53	20.4	468.4	460.4	445.5	14.91	30.885		
4,400.0	4,399.6	4,368.8	4,340.7	7.7	11.1	-0.54	21.0	480.9	467.6	452.4	15.26	30.650		
4,500.0	4,499.4	4,468.5	4,439.7	7.8	11.3	-0.55	21.5	493.5	474.8	459.2	15.61	30.424		
4,600.0	4,599.3	4,568.2	4,538.6	8.0	11.6	-0.55	22.1	506.0	482.0	466.0	15.95	30.209		
4,700.0	4,699.1	4,668.0	4,637.6	8.2	11.9	-0.56	22.6	518.5	489.1	472.8	16.30	30.002		
4,800.0	4,799.0	4,767.7	4,736.5	8.4	12.2	-0.56	23.2	531.1	496.3	479.7	16.65	29.805		
4,900.0	4,898.8	4,867.5	4,835.5	8.6	12.5	-0.57	23.7	543.6	503.5	486.5	17.00	29.615		
5,000.0	4,998.7	4,967.2	4,934.4	8.8	12.7	-0.57	24.3	556.2	510.7	493.3	17.35	29.434		

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 1E-19H-B2687
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 1E-19H-B2687	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	5,098.5	5,067.0	5,033.4	8.9	13.0	-0.58	24.8	568.7	517.8	500.1	17.70	29.259		
5,200.0	5,198.4	5,166.7	5,132.3	9.1	13.3	-0.58	25.4	581.2	525.0	507.0	18.05	29.091		
5,300.0	5,298.2	5,266.4	5,231.3	9.3	13.6	-0.59	25.9	593.8	532.2	513.8	18.40	28.929		
5,400.0	5,398.1	5,366.2	5,330.2	9.5	13.9	-0.59	26.5	606.3	539.4	520.6	18.74	28.774		
5,500.0	5,497.9	5,465.9	5,429.2	9.7	14.1	-0.60	27.1	618.8	546.5	527.4	19.09	28.624		
5,600.0	5,597.8	5,565.7	5,528.1	9.9	14.4	-0.60	27.6	631.4	553.7	534.3	19.44	28.479		
5,700.0	5,697.6	5,665.4	5,627.1	10.1	14.7	-0.61	28.2	643.9	560.9	541.1	19.79	28.340		
5,800.0	5,797.5	5,765.2	5,726.0	10.2	15.0	-0.61	28.7	656.5	568.1	547.9	20.14	28.206		
5,900.0	5,897.3	5,864.9	5,825.0	10.4	15.3	-0.62	29.3	669.0	575.2	554.7	20.49	28.076		
6,000.0	5,997.2	5,964.6	5,923.9	10.6	15.6	-0.62	29.8	681.5	582.4	561.6	20.84	27.950		
6,100.0	6,097.1	6,064.4	6,022.9	10.8	15.8	-0.63	30.4	694.1	589.6	568.4	21.19	27.828		
6,200.0	6,196.9	6,164.1	6,121.8	11.0	16.1	-0.63	30.9	706.6	596.8	575.2	21.54	27.711		
6,300.0	6,296.8	6,263.9	6,220.8	11.2	16.4	-0.63	31.5	719.1	603.9	582.1	21.88	27.597		
6,400.0	6,396.6	6,363.6	6,319.7	11.4	16.7	-0.64	32.0	731.7	611.1	588.9	22.23	27.487		
6,500.0	6,496.5	6,463.4	6,418.7	11.6	17.0	-0.64	32.6	744.2	618.3	595.7	22.58	27.380		
6,600.0	6,596.3	6,563.1	6,517.6	11.8	17.2	-0.65	33.1	756.7	625.5	602.5	22.93	27.277		
6,700.0	6,696.2	6,662.8	6,616.6	11.9	17.5	-0.65	33.7	769.3	632.6	609.4	23.28	27.176		
6,800.0	6,796.0	6,762.6	6,715.5	12.1	17.8	-0.65	34.2	781.8	639.8	616.2	23.63	27.079		
6,853.6	6,849.5	6,816.0	6,768.5	12.2	17.9	-0.65	34.5	788.5	643.7	619.8	23.81	27.028		
6,900.0	6,895.8	6,862.3	6,814.4	12.3	18.1	-51.66	34.8	794.4	647.1	623.1	23.98	26.987		
6,950.0	6,945.5	6,912.6	6,864.4	12.4	18.2	-70.29	34.9	800.7	650.9	626.7	24.15	26.949		
7,000.0	6,994.7	6,965.3	6,916.5	12.5	18.4	-77.71	35.3	807.3	654.7	630.4	24.34	26.905		
7,050.0	7,043.3	7,018.4	6,968.8	12.6	18.5	-81.61	35.8	813.9	658.6	634.0	24.53	26.850		
7,100.0	7,090.8	7,072.0	7,020.9	12.7	18.7	-84.02	36.2	820.4	662.3	637.6	24.74	26.775		
7,150.0	7,137.2	7,126.1	7,072.6	12.8	18.8	-85.65	36.6	826.9	666.0	641.1	24.96	26.685		
7,200.0	7,182.3	7,180.6	7,123.5	13.0	19.0	-86.84	-18.1	833.2	669.6	644.4	25.22	26.548		
7,250.0	7,225.7	7,235.6	7,173.1	13.1	19.1	-87.74	-40.8	839.4	673.0	647.5	25.52	26.372		
7,300.0	7,267.2	7,291.0	7,221.3	13.3	19.3	-88.43	-67.5	845.4	676.3	650.5	25.87	26.146		
7,350.0	7,306.8	7,346.8	7,267.6	13.5	19.5	-88.98	-98.1	851.1	679.4	653.2	26.27	25.862		
7,400.0	7,344.1	7,403.0	7,311.7	13.8	19.7	-89.41	-132.4	856.5	682.3	655.6	26.74	25.515		
7,450.0	7,379.0	7,459.5	7,353.2	14.0	19.9	-89.75	-170.4	861.5	685.0	657.7	27.29	25.101		
7,500.0	7,411.4	7,516.3	7,391.8	14.3	20.2	-90.01	-211.8	866.2	687.4	659.5	27.92	24.624		
7,550.0	7,441.0	7,573.4	7,427.2	14.7	20.5	-90.21	-256.3	870.5	689.6	661.0	28.63	24.087		
7,600.0	7,467.7	7,630.6	7,459.1	15.1	20.8	-90.34	-303.7	874.3	691.5	662.1	29.43	23.497		
7,650.0	7,491.5	7,688.0	7,487.1	15.5	21.1	-90.43	-353.6	877.6	693.1	662.8	30.32	22.862		
7,700.0	7,512.1	7,745.4	7,511.2	16.0	21.5	-90.46	-405.7	880.3	694.4	663.1	31.29	22.193		
7,750.0	7,529.5	7,802.9	7,531.0	16.5	22.0	-90.45	-459.6	882.6	695.4	663.1	32.34	21.500		
7,800.0	7,543.6	7,860.4	7,546.5	17.0	22.5	-90.40	-514.9	884.2	696.1	662.6	33.48	20.791		
7,850.0	7,554.3	7,917.8	7,557.5	17.6	23.0	-90.32	-571.2	885.4	696.5	661.8	34.68	20.081		
7,900.0	7,561.6	7,975.0	7,564.0	18.2	23.5	-90.19	-628.1	885.9	696.5	660.6	35.94	19.378		
7,950.0	7,565.4	8,031.7	7,566.0	18.8	24.0	-90.03	-684.7	885.8	696.3	659.0	37.25	18.692		
7,979.9	7,566.0	8,061.6	7,566.0	19.2	24.3	-90.00	-714.6	885.7	696.1	658.1	38.00	18.316		
8,000.0	7,566.0	8,081.7	7,566.0	19.5	24.5	-90.00	-734.7	885.6	696.0	657.4	38.53	18.062		
8,100.0	7,566.0	8,181.7	7,566.0	20.8	25.6	-90.00	-834.7	885.1	695.5	654.2	41.25	16.860		
8,200.0	7,566.0	8,281.7	7,566.0	22.2	26.8	-90.00	-934.7	884.6	694.9	650.9	44.08	15.767		
8,300.0	7,566.0	8,381.7	7,566.0	23.7	28.0	-90.00	-1,034.7	884.0	694.4	647.4	46.99	14.777		
8,400.0	7,566.0	8,481.7	7,566.0	25.1	29.2	-90.00	-1,134.7	883.5	693.9	643.9	49.99	13.881		
8,500.0	7,566.0	8,581.7	7,566.0	26.7	30.6	-90.00	-1,234.7	883.0	693.4	640.4	53.05	13.072		
8,600.0	7,566.0	8,681.7	7,566.0	28.2	31.9	-90.00	-1,334.7	882.5	692.9	636.7	56.16	12.338		
8,700.0	7,566.0	8,781.7	7,566.0	29.8	33.3	-90.00	-1,434.6	882.0	692.4	633.1	59.31	11.673		
8,800.0	7,566.0	8,881.7	7,566.0	31.4	34.7	-90.00	-1,534.6	881.5	691.9	629.4	62.50	11.069		
8,900.0	7,566.0	8,981.7	7,566.0	33.0	36.2	-90.00	-1,634.6	880.9	691.3	625.6	65.73	10.518		

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 1E-19H-B2687
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 1E-19H-B2687	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
9,000.0	7,566.0	9,081.7	7,566.0	34.6	37.7	-90.00	-1,734.6	880.4	690.8	621.8	68.98	10.015	
9,100.0	7,566.0	9,181.7	7,566.0	36.2	39.2	-90.00	-1,834.6	879.9	690.3	618.1	72.26	9.553	
9,200.0	7,566.0	9,281.7	7,566.0	37.9	40.7	-90.00	-1,934.6	879.4	689.8	614.2	75.55	9.130	
9,300.0	7,566.0	9,381.7	7,566.0	39.5	42.2	-90.00	-2,034.6	878.9	689.3	610.4	78.87	8.739	
9,400.0	7,566.0	9,481.7	7,566.0	41.2	43.8	-90.00	-2,134.6	878.4	688.8	606.6	82.20	8.379	
9,500.0	7,566.0	9,581.7	7,566.0	42.8	45.4	-90.00	-2,234.6	877.9	688.2	602.7	85.55	8.045	
9,600.0	7,566.0	9,681.7	7,566.0	44.5	46.9	-90.00	-2,334.6	877.3	687.7	598.8	88.90	7.736	
9,700.0	7,566.0	9,781.7	7,566.0	46.2	48.5	-90.00	-2,434.6	876.8	687.2	594.9	92.27	7.448	
9,800.0	7,566.0	9,881.7	7,566.0	47.9	50.2	-90.00	-2,534.6	876.3	686.7	591.0	95.65	7.179	
9,900.0	7,566.0	9,981.6	7,566.0	49.6	51.8	-90.00	-2,634.6	875.8	686.2	587.1	99.04	6.928	
10,000.0	7,566.0	10,081.6	7,566.0	51.3	53.4	-90.00	-2,734.6	875.3	685.7	583.2	102.44	6.694	
10,100.0	7,566.0	10,181.6	7,566.0	53.0	55.0	-90.00	-2,834.6	874.8	685.2	579.3	105.84	6.473	
10,200.0	7,566.0	10,281.6	7,566.0	54.7	56.7	-90.00	-2,934.6	874.2	684.6	575.4	109.25	6.267	
10,300.0	7,566.0	10,381.6	7,566.0	56.4	58.3	-90.00	-3,034.6	873.7	684.1	571.5	112.67	6.072	
10,400.0	7,566.0	10,481.6	7,566.0	58.1	60.0	-90.00	-3,134.6	873.2	683.6	567.5	116.09	5.889	
10,500.0	7,566.0	10,581.6	7,566.0	59.8	61.6	-90.00	-3,234.6	872.7	683.1	563.6	119.51	5.716	
10,600.0	7,566.0	10,681.6	7,566.0	61.5	63.3	-90.00	-3,334.6	872.2	682.6	559.6	122.95	5.552	
10,700.0	7,566.0	10,781.6	7,566.0	63.2	65.0	-90.00	-3,434.6	871.7	682.1	555.7	126.38	5.397	
10,800.0	7,566.0	10,881.6	7,566.0	64.9	66.6	-90.00	-3,534.6	871.2	681.5	551.7	129.82	5.250	
10,900.0	7,566.0	10,981.6	7,566.0	66.7	68.3	-90.00	-3,634.6	870.6	681.0	547.8	133.26	5.110	
11,000.0	7,566.0	11,081.6	7,566.0	68.4	70.0	-90.00	-3,734.6	870.1	680.5	543.8	136.71	4.978	
11,100.0	7,566.0	11,181.6	7,566.0	70.1	71.7	-90.00	-3,834.6	869.6	680.0	539.8	140.16	4.852	
11,200.0	7,566.0	11,281.6	7,566.0	71.8	73.4	-90.00	-3,934.6	869.1	679.5	535.9	143.61	4.731	
11,300.0	7,566.0	11,381.6	7,566.0	73.6	75.1	-90.00	-4,034.6	868.6	679.0	531.9	147.07	4.617	
11,400.0	7,566.0	11,481.6	7,566.0	75.3	76.7	-90.00	-4,134.6	868.1	678.5	527.9	150.52	4.507	
11,500.0	7,566.0	11,581.6	7,566.0	77.0	78.4	-90.00	-4,234.6	867.5	677.9	524.0	153.98	4.403	
11,600.0	7,566.0	11,681.6	7,566.0	78.7	80.1	-90.00	-4,334.6	867.0	677.4	520.0	157.44	4.303	
11,700.0	7,566.0	11,781.6	7,566.0	80.5	81.8	-90.00	-4,434.6	866.5	676.9	516.0	160.91	4.207	
11,800.0	7,566.0	11,881.6	7,566.0	82.2	83.5	-90.00	-4,534.6	866.0	676.4	512.0	164.37	4.115	
11,900.0	7,566.0	11,981.6	7,566.0	83.9	85.3	-90.00	-4,634.6	865.5	675.9	508.0	167.84	4.027	
12,000.0	7,566.0	12,081.6	7,566.0	85.7	87.0	-90.00	-4,734.6	865.0	675.4	504.0	171.31	3.942	
12,046.4	7,566.0	12,125.7	7,566.0	86.5	87.7	-90.00	-4,778.6	864.7	675.1	502.2	172.88	3.905	
12,059.9	7,566.0	12,125.7	7,566.0	86.7	87.7	-90.00	-4,778.6	864.7	675.2	502.1	173.11	3.901 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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: 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	87.91	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	131.752			
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			
500.0	500.0	500.0	500.0	0.8	0.8	87.91	1.5	40.0	40.0	38.3	1.70	23.537	CC, ES		
600.0	600.0	598.6	598.6	1.0	1.0	87.90	1.5	41.7	41.7	39.7	2.05	20.374			
700.0	700.0	696.9	696.8	1.2	1.2	87.85	1.8	46.7	46.9	44.5	2.41	19.486			
800.0	800.0	794.8	794.3	1.4	1.4	87.79	2.1	55.1	55.5	52.7	2.78	19.920			
900.0	900.0	892.0	890.8	1.5	1.6	87.74	2.6	66.7	67.4	64.2	3.19	21.116			
1,000.0	1,000.0	990.4	988.2	1.7	1.9	87.69	3.3	80.8	81.8	78.1	3.62	22.553			
1,100.0	1,100.0	1,089.4	1,086.1	1.9	2.2	87.66	3.9	95.1	96.2	92.1	4.07	23.627			
1,200.0	1,200.0	1,188.4	1,184.0	2.1	2.5	87.64	4.5	109.4	110.6	106.1	4.52	24.446			
1,300.0	1,300.0	1,287.3	1,282.0	2.2	2.7	87.62	5.1	123.6	125.0	120.0	4.98	25.088			
1,400.0	1,400.0	1,386.3	1,379.9	2.4	3.0	87.60	5.8	137.9	139.4	134.0	5.45	25.603			
1,500.0	1,500.0	1,485.2	1,477.8	2.6	3.3	87.59	6.4	152.1	153.9	148.0	5.91	26.024			
1,600.0	1,600.0	1,584.2	1,575.7	2.8	3.6	87.58	7.0	166.4	168.3	161.9	6.38	26.374			
1,700.0	1,700.0	1,683.1	1,673.6	2.9	3.9	87.57	7.7	180.6	182.7	175.9	6.85	26.670			
1,800.0	1,800.0	1,782.1	1,771.6	3.1	4.2	87.57	8.3	194.9	197.1	189.8	7.32	26.922			
1,900.0	1,900.0	1,881.0	1,869.5	3.3	4.5	87.56	8.9	209.2	211.6	203.8	7.80	27.140			
2,000.0	2,000.0	1,980.0	1,967.4	3.5	4.8	87.56	9.5	223.4	226.0	217.7	8.27	27.331			
2,100.0	2,100.0	2,078.9	2,065.3	3.6	5.1	87.55	10.2	237.7	240.4	231.7	8.74	27.498			
2,200.0	2,200.0	2,177.9	2,163.2	3.8	5.4	87.55	10.8	251.9	254.8	245.6	9.22	27.647			
2,300.0	2,300.0	2,276.9	2,261.2	4.0	5.7	87.54	11.4	266.2	269.3	259.6	9.69	27.779			
2,400.0	2,400.0	2,375.8	2,359.1	4.2	6.0	87.54	12.0	280.5	283.7	273.5	10.17	27.898			
2,500.0	2,500.0	2,474.8	2,457.0	4.3	6.3	87.54	12.7	294.7	298.1	287.5	10.64	28.005			
2,600.0	2,600.0	2,573.7	2,554.9	4.5	6.6	87.53	13.3	309.0	312.5	301.4	11.12	28.102			
2,700.0	2,700.0	2,672.7	2,652.8	4.7	6.9	87.53	13.9	323.2	327.0	315.4	11.60	28.190			
2,800.0	2,800.0	2,771.6	2,750.8	4.9	7.2	87.53	14.6	337.5	341.4	329.3	12.07	28.271			
2,900.0	2,900.0	2,870.6	2,848.7	5.0	7.5	87.53	15.2	351.7	355.8	343.2	12.55	28.346			
3,000.0	3,000.0	2,969.5	2,946.6	5.2	7.8	87.53	15.8	366.0	370.2	357.2	13.03	28.414			
3,100.0	3,100.0	3,068.5	3,044.5	5.4	8.1	87.52	16.4	380.3	384.6	371.1	13.51	28.477			
3,200.0	3,200.0	3,167.4	3,142.4	5.6	8.4	87.52	17.1	394.5	399.1	385.1	13.98	28.536			
3,300.0	3,300.0	3,266.4	3,240.4	5.7	8.7	87.52	17.7	408.8	413.5	399.0	14.46	28.590			
3,400.0	3,400.0	3,365.4	3,338.3	5.9	9.0	87.52	18.3	423.0	427.9	413.0	14.94	28.641			
3,500.0	3,500.0	3,464.3	3,436.2	6.1	9.3	87.52	19.0	437.3	442.3	426.9	15.42	28.689			
3,600.0	3,600.0	3,563.3	3,534.1	6.3	9.6	87.52	19.6	451.6	456.8	440.9	15.90	28.733			
3,700.0	3,700.0	3,662.2	3,632.0	6.4	9.9	87.52	20.2	465.8	471.2	454.8	16.38	28.775			
3,800.0	3,800.0	3,761.2	3,730.0	6.6	10.2	87.51	20.8	480.1	485.6	468.8	16.85	28.814			
3,900.0	3,900.0	3,860.1	3,827.9	6.8	10.6	87.51	21.5	494.3	500.0	482.7	17.33	28.850			
4,000.0	4,000.0	3,959.1	3,925.8	7.0	10.9	87.51	22.1	508.6	514.5	496.6	17.81	28.885			
4,100.0	4,100.0	4,058.3	4,023.9	7.1	11.2	-0.51	22.7	522.9	527.1	513.0	14.19	37.158			
4,155.7	4,155.6	4,113.7	4,078.8	7.2	11.3	-0.51	23.1	530.9	532.7	518.3	14.38	37.037			
4,200.0	4,199.9	4,157.8	4,122.4	7.3	11.5	-0.52	23.4	537.2	536.7	522.2	14.54	36.919			
4,300.0	4,299.7	4,257.4	4,221.0	7.5	11.8	-0.52	24.0	551.6	545.7	530.9	14.89	36.661			
4,400.0	4,399.6	4,357.0	4,319.5	7.7	12.1	-0.53	24.6	565.9	554.8	539.5	15.23	36.415			
4,500.0	4,499.4	4,456.6	4,418.1	7.8	12.4	-0.53	25.3	580.3	563.8	548.2	15.58	36.180			
4,600.0	4,599.3	4,556.2	4,516.6	8.0	12.7	-0.54	25.9	594.6	572.8	556.9	15.93	35.955			
4,700.0	4,699.1	4,655.8	4,615.2	8.2	13.0	-0.54	26.5	609.0	581.9	565.6	16.28	35.740			
4,800.0	4,799.0	4,755.4	4,713.7	8.4	13.3	-0.55	27.1	623.3	590.9	574.3	16.63	35.534			
4,900.0	4,898.8	4,854.9	4,812.3	8.6	13.6	-0.55	27.8	637.7	599.9	582.9	16.98	35.336			
5,000.0	4,998.7	4,954.5	4,910.8	8.8	13.9	-0.56	28.4	652.0	608.9	591.6	17.33	35.146			

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 1E-19H-B2687
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 1E-19H-B2687	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	5,098.5	5,054.1	5,009.4	8.9	14.2	-0.56	29.0	666.4	618.0	600.3	17.67	34.964		
5,200.0	5,198.4	5,153.7	5,107.9	9.1	14.5	-0.57	29.7	680.7	627.0	609.0	18.02	34.789		
5,300.0	5,298.2	5,253.3	5,206.5	9.3	14.8	-0.57	30.3	695.1	636.0	617.7	18.37	34.620		
5,400.0	5,398.1	5,352.9	5,305.0	9.5	15.1	-0.58	30.9	709.4	645.0	626.3	18.72	34.458		
5,500.0	5,497.9	5,452.5	5,403.6	9.7	15.5	-0.58	31.6	723.8	654.1	635.0	19.07	34.302		
5,600.0	5,597.8	5,552.1	5,502.1	9.9	15.8	-0.59	32.2	738.1	663.1	643.7	19.42	34.151		
5,700.0	5,697.6	5,651.7	5,600.7	10.1	16.1	-0.59	32.8	752.5	672.1	652.4	19.77	34.006		
5,800.0	5,797.5	5,751.3	5,699.3	10.2	16.4	-0.59	33.5	766.8	681.2	661.0	20.11	33.866		
5,900.0	5,897.3	5,850.9	5,797.8	10.4	16.7	-0.60	34.1	781.2	690.2	669.7	20.46	33.730		
6,000.0	5,997.2	5,950.5	5,896.4	10.6	17.0	-0.60	34.7	795.5	699.2	678.4	20.81	33.599		
6,100.0	6,097.1	6,050.0	5,994.9	10.8	17.3	-0.60	35.4	809.9	708.2	687.1	21.16	33.473		
6,200.0	6,196.9	6,149.6	6,093.5	11.0	17.6	-0.61	36.0	824.2	717.3	695.8	21.51	33.350		
6,300.0	6,296.8	6,249.2	6,192.0	11.2	17.9	-0.61	36.6	838.6	726.3	704.4	21.86	33.231		
6,400.0	6,396.6	6,348.8	6,290.6	11.4	18.2	-0.61	37.3	852.9	735.3	713.1	22.20	33.116		
6,500.0	6,496.5	6,448.4	6,389.1	11.6	18.5	-0.62	37.9	867.3	744.4	721.8	22.55	33.005		
6,600.0	6,596.3	6,548.0	6,487.7	11.8	18.8	-0.62	38.5	881.6	753.4	730.5	22.90	32.897		
6,700.0	6,696.2	6,647.6	6,586.2	11.9	19.1	-0.62	39.2	896.0	762.4	739.2	23.25	32.792		
6,800.0	6,796.0	6,748.8	6,686.3	12.1	19.4	-0.45	37.4	910.6	771.4	747.8	23.60	32.684		
6,853.6	6,849.5	6,803.0	6,739.6	12.2	19.6	0.03	31.3	918.5	776.1	752.3	23.79	32.623		
6,900.0	6,895.8	6,849.3	6,784.6	12.3	19.7	-50.25	22.9	925.2	780.2	756.3	23.95	32.576		
6,950.0	6,945.5	6,898.6	6,831.9	12.4	19.9	-67.84	10.7	932.3	784.8	760.6	24.12	32.530		
7,000.0	6,994.7	6,947.5	6,877.7	12.5	20.0	-74.13	-4.6	939.2	789.4	765.1	24.30	32.486		
7,050.0	7,043.3	6,995.8	6,922.0	12.6	20.2	-76.93	-22.8	946.0	794.1	769.6	24.48	32.441		
7,100.0	7,090.8	7,043.7	6,964.5	12.7	20.4	-78.28	-43.8	952.6	798.9	774.2	24.67	32.388		
7,150.0	7,137.2	7,091.2	7,005.2	12.8	20.5	-78.89	-67.4	958.9	803.6	778.8	24.87	32.320		
7,200.0	7,182.3	7,138.2	7,043.9	13.0	20.7	-79.10	-93.4	965.0	808.4	783.3	25.08	32.227		
7,250.0	7,225.7	7,184.9	7,080.5	13.1	20.9	-79.06	-121.7	970.8	813.0	787.7	25.33	32.099		
7,300.0	7,267.2	7,231.2	7,115.0	13.3	21.1	-78.88	-152.1	976.4	817.7	792.0	25.61	31.927		
7,350.0	7,306.8	7,272.7	7,147.2	13.5	21.3	-78.60	-184.4	981.7	822.2	796.2	25.94	31.700		
7,400.0	7,344.1	7,322.8	7,177.2	13.8	21.5	-78.27	-218.6	986.6	826.5	800.2	26.32	31.408		
7,450.0	7,379.0	7,368.2	7,204.7	14.0	21.7	-77.90	-254.3	991.2	830.7	804.0	26.76	31.044		
7,500.0	7,411.4	7,413.3	7,229.8	14.3	22.0	-77.52	-291.6	995.6	834.7	807.5	27.28	30.602		
7,550.0	7,441.0	7,458.2	7,252.3	14.7	22.3	-77.13	-330.1	999.5	838.5	810.7	27.87	30.082		
7,600.0	7,467.7	7,502.8	7,272.4	15.1	22.6	-76.76	-369.8	1,003.1	842.1	813.5	28.56	29.486		
7,650.0	7,491.5	7,547.3	7,289.9	15.5	22.9	-76.40	-410.5	1,006.4	845.4	816.1	29.34	28.815		
7,700.0	7,512.1	7,591.6	7,304.8	16.0	23.2	-76.07	-452.1	1,009.3	848.4	818.2	30.21	28.081		
7,750.0	7,529.5	7,635.7	7,317.1	16.5	23.6	-75.75	-494.4	1,011.8	851.2	820.0	31.18	27.298		
7,800.0	7,543.6	7,679.7	7,326.8	17.0	23.9	-75.47	-537.3	1,014.0	853.6	821.3	32.24	26.477		
7,850.0	7,554.3	7,723.5	7,333.8	17.6	24.3	-75.22	-580.5	1,015.8	855.7	822.3	33.38	25.633		
7,900.0	7,561.6	7,767.3	7,338.2	18.2	24.7	-75.01	-624.0	1,017.2	857.4	822.8	34.60	24.779		
7,950.0	7,565.4	7,811.0	7,340.0	18.8	25.1	-74.83	-667.7	1,018.2	858.8	822.9	35.89	23.927		
7,979.9	7,566.0	7,839.8	7,340.0	19.2	25.4	-74.75	-696.5	1,018.7	859.4	822.7	36.74	23.395		
8,000.0	7,566.0	7,859.9	7,340.0	19.5	25.6	-74.76	-716.6	1,019.0	859.8	822.5	37.25	23.084		
8,100.0	7,566.0	7,959.9	7,340.0	20.8	26.6	-74.79	-816.6	1,020.8	861.5	821.6	39.86	21.614		
8,200.0	7,566.0	8,059.9	7,340.0	22.2	27.8	-74.82	-916.5	1,022.5	863.2	820.6	42.58	20.273		
8,300.0	7,566.0	8,159.9	7,340.0	23.7	28.9	-74.85	-1,016.5	1,024.3	864.8	819.4	45.39	19.054		
8,400.0	7,566.0	8,259.9	7,340.0	25.1	30.2	-74.88	-1,116.5	1,026.0	866.5	818.2	48.27	17.950		
8,500.0	7,566.0	8,359.8	7,340.0	26.7	31.4	-74.91	-1,216.4	1,027.8	868.2	817.0	51.22	16.949		
8,600.0	7,566.0	8,459.8	7,340.0	28.2	32.7	-74.94	-1,316.4	1,029.5	869.9	815.7	54.23	16.042		
8,700.0	7,566.0	8,559.8	7,340.0	29.8	34.1	-74.97	-1,416.4	1,031.3	871.6	814.3	57.27	15.218		
8,800.0	7,566.0	8,659.8	7,340.0	31.4	35.5	-75.00	-1,516.4	1,033.0	873.3	812.9	60.36	14.468		
8,900.0	7,566.0	8,759.8	7,340.0	33.0	36.9	-75.03	-1,616.3	1,034.7	874.9	811.5	63.48	13.784		

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 1E-19H-B2687
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 1E-19H-B2687	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				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		
9,000.0	7,566.0	8,859.8	7,340.0	34.6	38.4	-75.06	-1,716.3	1,036.5	876.6	810.0	66.62	13.159		
9,100.0	7,566.0	8,959.8	7,340.0	36.2	39.9	-75.09	-1,816.3	1,038.2	878.3	808.5	69.79	12.585		
9,200.0	7,566.0	9,059.7	7,340.0	37.9	41.4	-75.12	-1,916.2	1,040.0	880.0	807.0	72.98	12.058		
9,300.0	7,566.0	9,159.7	7,340.0	39.5	42.9	-75.15	-2,016.2	1,041.7	881.7	805.5	76.19	11.572		
9,400.0	7,566.0	9,259.7	7,340.0	41.2	44.4	-75.17	-2,116.2	1,043.5	883.4	804.0	79.42	11.123		
9,500.0	7,566.0	9,359.7	7,340.0	42.8	46.0	-75.20	-2,216.1	1,045.2	885.1	802.4	82.66	10.707		
9,600.0	7,566.0	9,459.7	7,340.0	44.5	47.5	-75.23	-2,316.1	1,047.0	886.8	800.8	85.92	10.321		
9,700.0	7,566.0	9,559.7	7,340.0	46.2	49.1	-75.26	-2,416.1	1,048.7	888.4	799.3	89.18	9.962		
9,800.0	7,566.0	9,659.6	7,340.0	47.9	50.7	-75.29	-2,516.1	1,050.5	890.1	797.7	92.46	9.627		
9,900.0	7,566.0	9,759.6	7,340.0	49.6	52.3	-75.32	-2,616.0	1,052.2	891.8	796.1	95.75	9.314		
10,000.0	7,566.0	9,859.6	7,340.0	51.3	53.9	-75.35	-2,716.0	1,053.9	893.5	794.5	99.04	9.021		
10,100.0	7,566.0	9,959.6	7,340.0	53.0	55.5	-75.37	-2,816.0	1,055.7	895.2	792.9	102.35	8.747		
10,200.0	7,566.0	10,059.6	7,340.0	54.7	57.2	-75.40	-2,915.9	1,057.4	896.9	791.2	105.66	8.488		
10,300.0	7,566.0	10,159.6	7,340.0	56.4	58.8	-75.43	-3,015.9	1,059.2	898.6	789.6	108.98	8.245		
10,400.0	7,566.0	10,259.6	7,340.0	58.1	60.4	-75.46	-3,115.9	1,060.9	900.3	788.0	112.30	8.016		
10,500.0	7,566.0	10,359.5	7,340.0	59.8	62.1	-75.49	-3,215.8	1,062.7	902.0	786.3	115.63	7.800		
10,600.0	7,566.0	10,459.5	7,340.0	61.5	63.7	-75.51	-3,315.8	1,064.4	903.6	784.7	118.97	7.596		
10,700.0	7,566.0	10,559.5	7,340.0	63.2	65.4	-75.54	-3,415.8	1,066.2	905.3	783.0	122.31	7.402		
10,800.0	7,566.0	10,659.5	7,340.0	64.9	67.1	-75.57	-3,515.7	1,067.9	907.0	781.4	125.65	7.219		
10,900.0	7,566.0	10,759.5	7,340.0	66.7	68.7	-75.60	-3,615.7	1,069.6	908.7	779.7	129.00	7.044		
11,000.0	7,566.0	10,859.5	7,340.0	68.4	70.4	-75.62	-3,715.7	1,071.4	910.4	778.1	132.35	6.879		
11,100.0	7,566.0	10,959.4	7,340.0	70.1	72.1	-75.65	-3,815.7	1,073.1	912.1	776.4	135.71	6.721		
11,200.0	7,566.0	11,059.4	7,340.0	71.8	73.8	-75.68	-3,915.6	1,074.9	913.8	774.7	139.07	6.571		
11,300.0	7,566.0	11,159.4	7,340.0	73.6	75.4	-75.71	-4,015.6	1,076.6	915.5	773.0	142.44	6.427		
11,400.0	7,566.0	11,259.4	7,340.0	75.3	77.1	-75.73	-4,115.6	1,078.4	917.2	771.4	145.80	6.291		
11,500.0	7,566.0	11,359.4	7,340.0	77.0	78.8	-75.76	-4,215.5	1,080.1	918.9	769.7	149.17	6.160		
11,600.0	7,566.0	11,459.4	7,340.0	78.7	80.5	-75.79	-4,315.5	1,081.9	920.6	768.0	152.54	6.035		
11,700.0	7,566.0	11,559.4	7,340.0	80.5	82.2	-75.81	-4,415.5	1,083.6	922.2	766.3	155.92	5.915		
11,800.0	7,566.0	11,659.3	7,340.0	82.2	83.9	-75.84	-4,515.4	1,085.4	923.9	764.6	159.30	5.800		
11,900.0	7,566.0	11,759.3	7,340.0	83.9	85.6	-75.87	-4,615.4	1,087.1	925.6	763.0	162.68	5.690		
12,000.0	7,566.0	11,859.3	7,340.0	85.7	87.3	-75.89	-4,715.4	1,088.8	927.3	761.3	166.06	5.584		
12,059.9	7,566.0	11,918.2	7,340.0	86.7	88.3	-75.91	-4,774.2	1,089.9	928.3	760.3	168.07	5.524 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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: 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	87.92	1.8	50.1	50.1						
100.0	100.0	100.0	100.0	0.2	0.2	87.92	1.8	50.1	50.1	49.8	0.30	164.920			
200.0	200.0	200.0	200.0	0.3	0.3	87.92	1.8	50.1	50.1	49.4	0.65	76.728			
300.0	300.0	300.0	300.0	0.5	0.5	87.92	1.8	50.1	50.1	49.1	1.00	49.993			
400.0	400.0	400.0	400.0	0.7	0.7	87.92	1.8	50.1	50.1	48.7	1.35	37.075 CC, ES			
500.0	500.0	498.2	498.2	0.8	0.8	87.91	1.9	51.7	51.8	50.1	1.70	30.488			
600.0	600.0	596.3	596.1	1.0	1.0	87.90	2.1	56.8	56.9	54.9	2.06	27.664			
700.0	700.0	693.8	693.3	1.2	1.2	87.88	2.4	65.1	65.5	63.0	2.44	26.842 SF			
800.0	800.0	790.7	789.5	1.4	1.5	87.86	2.9	76.6	77.4	74.5	2.85	27.124			
900.0	900.0	886.7	884.3	1.5	1.8	87.84	3.4	91.3	92.7	89.3	3.31	28.007			
1,000.0	1,000.0	983.7	979.8	1.7	2.1	87.83	4.1	108.7	110.6	106.8	3.79	29.167			
1,100.0	1,100.0	1,082.1	1,076.5	1.9	2.4	87.81	4.8	126.6	128.9	124.6	4.30	29.997			
1,200.0	1,200.0	1,180.4	1,173.2	2.1	2.7	87.81	5.5	144.5	147.1	142.3	4.81	30.602			
1,300.0	1,300.0	1,278.7	1,269.9	2.2	3.1	87.80	6.2	162.4	165.3	160.0	5.32	31.057			
1,400.0	1,400.0	1,377.0	1,366.5	2.4	3.4	87.80	6.9	180.4	183.6	177.7	5.84	31.411			
1,500.0	1,500.0	1,475.4	1,463.2	2.6	3.8	87.79	7.6	198.3	201.8	195.4	6.37	31.692			
1,600.0	1,600.0	1,573.7	1,559.9	2.8	4.1	87.79	8.4	216.2	220.0	213.1	6.89	31.921			
1,700.0	1,700.0	1,672.0	1,656.6	2.9	4.5	87.78	9.1	234.1	238.3	230.8	7.42	32.111			
1,800.0	1,800.0	1,770.3	1,753.2	3.1	4.8	87.78	9.8	252.0	256.5	248.6	7.95	32.270			
1,900.0	1,900.0	1,868.7	1,849.9	3.3	5.2	87.78	10.5	269.9	274.7	266.3	8.48	32.405			
2,000.0	2,000.0	1,967.0	1,946.6	3.5	5.5	87.78	11.2	287.8	293.0	284.0	9.01	32.522			
2,100.0	2,100.0	2,065.3	2,043.3	3.6	5.9	87.78	11.9	305.8	311.2	301.7	9.54	32.623			
2,200.0	2,200.0	2,163.6	2,139.9	3.8	6.3	87.77	12.6	323.7	329.4	319.4	10.07	32.712			
2,300.0	2,300.0	2,262.0	2,236.6	4.0	6.6	87.77	13.3	341.6	347.7	337.1	10.60	32.791			
2,400.0	2,400.0	2,360.3	2,333.3	4.2	7.0	87.77	14.0	359.5	365.9	354.8	11.14	32.860			
2,500.0	2,500.0	2,458.6	2,430.0	4.3	7.3	87.77	14.7	377.4	384.1	372.5	11.67	32.923			
2,600.0	2,600.0	2,556.9	2,526.6	4.5	7.7	87.77	15.4	395.3	402.4	390.2	12.20	32.979			
2,700.0	2,700.0	2,655.2	2,623.3	4.7	8.0	87.77	16.1	413.2	420.6	407.9	12.73	33.030			
2,800.0	2,800.0	2,753.6	2,720.0	4.9	8.4	87.77	16.8	431.2	438.8	425.6	13.27	33.076			
2,900.0	2,900.0	2,851.9	2,816.7	5.0	8.8	87.77	17.5	449.1	457.1	443.3	13.80	33.119			
3,000.0	3,000.0	2,950.2	2,913.3	5.2	9.1	87.77	18.2	467.0	475.3	461.0	14.34	33.157			
3,100.0	3,100.0	3,048.5	3,010.0	5.4	9.5	87.77	18.9	484.9	493.6	478.7	14.87	33.193			
3,200.0	3,200.0	3,146.9	3,106.7	5.6	9.8	87.77	19.6	502.8	511.8	496.4	15.40	33.226			
3,300.0	3,300.0	3,245.2	3,203.4	5.7	10.2	87.77	20.3	520.7	530.0	514.1	15.94	33.256			
3,400.0	3,400.0	3,343.5	3,300.0	5.9	10.6	87.76	21.0	538.7	548.3	531.8	16.47	33.285			
3,500.0	3,500.0	3,441.8	3,396.7	6.1	10.9	87.76	21.7	556.6	566.5	549.5	17.01	33.311			
3,600.0	3,600.0	3,540.2	3,493.4	6.3	11.3	87.76	22.4	574.5	584.7	567.2	17.54	33.335			
3,700.0	3,700.0	3,638.5	3,590.1	6.4	11.6	87.76	23.1	592.4	603.0	584.9	18.08	33.358			
3,800.0	3,800.0	3,736.8	3,686.7	6.6	12.0	87.76	23.8	610.3	621.2	602.6	18.61	33.380			
3,900.0	3,900.0	3,835.1	3,783.4	6.8	12.4	87.76	24.5	628.2	639.4	620.3	19.14	33.400			
4,000.0	4,000.0	3,933.4	3,880.1	7.0	12.7	87.76	25.3	646.1	657.7	638.0	19.68	33.419			
4,100.0	4,100.0	4,032.1	3,977.0	7.1	13.1	-0.26	26.0	664.1	674.2	660.0	14.13	47.702			
4,155.7	4,155.6	4,087.2	4,031.3	7.2	13.3	-0.26	26.4	674.2	681.9	667.5	14.33	47.577			
4,200.0	4,199.9	4,131.2	4,074.5	7.3	13.5	-0.26	26.7	682.2	687.6	673.1	14.49	47.465			
4,300.0	4,299.7	4,230.3	4,172.0	7.5	13.8	-0.27	27.4	700.2	700.5	685.6	14.83	47.220			
4,400.0	4,399.6	4,329.5	4,269.5	7.7	14.2	-0.27	28.1	718.3	713.3	698.1	15.18	46.987			
4,500.0	4,499.4	4,428.7	4,367.0	7.8	14.5	-0.27	28.8	736.4	726.2	710.7	15.53	46.764			
4,600.0	4,599.3	4,527.8	4,464.5	8.0	14.9	-0.27	29.5	754.4	739.1	723.2	15.88	46.550			
4,700.0	4,699.1	4,627.0	4,562.0	8.2	15.3	-0.27	30.2	772.5	751.9	735.7	16.22	46.346			
4,800.0	4,799.0	4,726.2	4,659.5	8.4	15.6	-0.28	30.9	790.6	764.8	748.2	16.57	46.151			
4,900.0	4,898.8	4,825.3	4,757.0	8.6	16.0	-0.28	31.6	808.7	777.7	760.7	16.92	45.963			
5,000.0	4,998.7	4,924.5	4,854.5	8.8	16.4	-0.28	32.4	826.7	790.5	773.3	17.27	45.784			

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 1E-19H-B2687
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 1E-19H-B2687	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,098.5	5,023.7	4,952.0	8.9	16.7	-0.28	33.1	844.8	803.4	785.8	17.61	45.611		
5,200.0	5,198.4	5,122.9	5,049.5	9.1	17.1	-0.28	33.8	862.9	816.3	798.3	17.96	45.445		
5,300.0	5,298.2	5,222.0	5,147.0	9.3	17.5	-0.29	34.5	880.9	829.1	810.8	18.31	45.285		
5,400.0	5,398.1	5,321.2	5,244.5	9.5	17.8	-0.29	35.2	899.0	842.0	823.3	18.66	45.131		
5,500.0	5,497.9	5,420.4	5,342.1	9.7	18.2	-0.29	35.9	917.1	854.9	835.9	19.00	44.983		
5,600.0	5,597.8	5,519.5	5,439.6	9.9	18.5	-0.29	36.6	935.1	867.7	848.4	19.35	44.840		
5,700.0	5,697.6	5,618.7	5,537.1	10.1	18.9	-0.29	37.3	953.2	880.6	860.9	19.70	44.702		
5,800.0	5,797.5	5,717.9	5,634.6	10.2	19.3	-0.29	38.0	971.3	893.5	873.4	20.05	44.569		
5,900.0	5,897.3	5,817.0	5,732.1	10.4	19.6	-0.29	38.7	989.3	906.3	885.9	20.39	44.441		
6,000.0	5,997.2	5,916.2	5,829.6	10.6	20.0	-0.30	39.5	1,007.4	919.2	898.5	20.74	44.317		
6,100.0	6,097.1	6,015.4	5,927.1	10.8	20.4	-0.30	40.2	1,025.5	932.1	911.0	21.09	44.197		
6,200.0	6,196.9	6,114.5	6,024.6	11.0	20.7	-0.30	40.9	1,043.6	944.9	923.5	21.44	44.081		
6,300.0	6,296.8	6,213.7	6,122.1	11.2	21.1	-0.30	41.6	1,061.6	957.8	936.0	21.78	43.968		
6,400.0	6,396.6	6,312.9	6,219.6	11.4	21.5	-0.30	42.3	1,079.7	970.7	948.5	22.13	43.859		
6,500.0	6,496.5	6,412.0	6,317.1	11.6	21.8	-0.30	43.0	1,097.8	983.5	961.1	22.48	43.754		
6,600.0	6,596.3	6,511.2	6,414.6	11.8	22.2	-0.30	43.7	1,115.8	996.4	973.6	22.83	43.651		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		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			
0.0	0.0	0.0	0.0	0.0	0.0	87.91	2.2	59.8	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.91	2.2	59.8	59.9	59.6	0.30	197.168		
200.0	200.0	200.0	200.0	0.3	0.3	87.91	2.2	59.8	59.9	59.2	0.65	91.731		
300.0	300.0	300.0	300.0	0.5	0.5	87.91	2.2	59.8	59.9	58.9	1.00	59.769 CC, ES		
400.0	400.0	397.9	397.9	0.7	0.7	87.91	2.2	61.5	61.6	60.2	1.35	45.622		
500.0	500.0	495.6	495.4	0.8	0.9	87.91	2.4	66.5	66.7	65.0	1.71	38.988		
600.0	600.0	592.8	592.3	1.0	1.1	87.91	2.7	74.8	75.2	73.1	2.10	35.875		
700.0	700.0	689.4	688.2	1.2	1.3	87.92	3.1	86.2	87.1	84.6	2.52	34.601		
800.0	800.0	785.1	782.8	1.4	1.6	87.92	3.7	100.8	102.3	99.3	2.98	34.333 SF		
900.0	900.0	879.7	875.7	1.5	1.9	87.92	4.3	118.2	120.8	117.3	3.49	34.627		
1,000.0	1,000.0	976.6	970.6	1.7	2.3	87.93	5.0	138.3	141.5	137.5	4.03	35.156		
1,100.0	1,100.0	1,074.4	1,066.2	1.9	2.7	87.93	5.7	158.7	162.3	157.7	4.58	35.474		
1,200.0	1,200.0	1,172.2	1,161.9	2.1	3.1	87.93	6.5	179.0	183.1	178.0	5.13	35.679		
1,300.0	1,300.0	1,270.1	1,257.6	2.2	3.4	87.93	7.2	199.3	203.9	198.2	5.69	35.817		
1,400.0	1,400.0	1,367.9	1,353.3	2.4	3.8	87.93	7.9	219.6	224.7	218.4	6.26	35.914		
1,500.0	1,500.0	1,465.7	1,448.9	2.6	4.2	87.93	8.7	240.0	245.5	238.7	6.82	35.983		
1,600.0	1,600.0	1,563.5	1,544.6	2.8	4.6	87.93	9.4	260.3	266.3	258.9	7.39	36.034		
1,700.0	1,700.0	1,661.3	1,640.3	2.9	5.0	87.93	10.1	280.6	287.1	279.1	7.96	36.072		
1,800.0	1,800.0	1,759.1	1,736.0	3.1	5.4	87.93	10.9	301.0	307.9	299.4	8.53	36.101		
1,900.0	1,900.0	1,856.9	1,831.6	3.3	5.8	87.93	11.6	321.3	328.7	319.6	9.10	36.124		
2,000.0	2,000.0	1,954.8	1,927.3	3.5	6.2	87.94	12.3	341.6	349.5	339.8	9.67	36.141		
2,100.0	2,100.0	2,052.6	2,023.0	3.6	6.6	87.94	13.0	362.0	370.3	360.1	10.24	36.155		
2,200.0	2,200.0	2,150.4	2,118.7	3.8	7.0	87.94	13.8	382.3	391.1	380.3	10.81	36.166		
2,300.0	2,300.0	2,248.2	2,214.3	4.0	7.4	87.94	14.5	402.6	411.9	400.5	11.39	36.175		
2,400.0	2,400.0	2,346.0	2,310.0	4.2	7.8	87.94	15.2	423.0	432.7	420.7	11.96	36.182		
2,500.0	2,500.0	2,443.8	2,405.7	4.3	8.2	87.94	16.0	443.3	453.5	441.0	12.53	36.188		
2,600.0	2,600.0	2,541.6	2,501.4	4.5	8.6	87.94	16.7	463.6	474.3	461.2	13.10	36.192		
2,700.0	2,700.0	2,639.4	2,597.0	4.7	9.0	87.94	17.4	483.9	495.1	481.4	13.68	36.196		
2,800.0	2,800.0	2,737.3	2,692.7	4.9	9.4	87.94	18.2	504.3	515.9	501.6	14.25	36.199		
2,900.0	2,900.0	2,835.1	2,788.4	5.0	9.8	87.94	18.9	524.6	536.7	521.9	14.82	36.202		
3,000.0	3,000.0	2,932.9	2,884.1	5.2	10.2	87.94	19.6	544.9	557.5	542.1	15.40	36.204		
3,100.0	3,100.0	3,030.7	2,979.7	5.4	10.6	87.94	20.4	565.3	578.3	562.3	15.97	36.205		
3,200.0	3,200.0	3,128.5	3,075.4	5.6	11.0	87.94	21.1	585.6	599.1	582.5	16.55	36.206		
3,300.0	3,300.0	3,226.3	3,171.1	5.7	11.4	87.94	21.8	605.9	619.9	602.8	17.12	36.207		
3,400.0	3,400.0	3,324.1	3,266.7	5.9	11.8	87.94	22.5	626.3	640.7	623.0	17.69	36.208		
3,500.0	3,500.0	3,421.9	3,362.4	6.1	12.2	87.94	23.3	646.6	661.5	643.2	18.27	36.209		
3,600.0	3,600.0	3,519.8	3,458.1	6.3	12.6	87.94	24.0	666.9	682.3	663.4	18.84	36.209		
3,700.0	3,700.0	3,617.6	3,553.8	6.4	13.0	87.94	24.7	687.3	703.1	683.7	19.42	36.209		
3,800.0	3,800.0	3,715.4	3,649.4	6.6	13.4	87.94	25.5	707.6	723.9	703.9	19.99	36.209		
3,900.0	3,900.0	3,813.2	3,745.1	6.8	13.8	87.94	26.2	727.9	744.7	724.1	20.57	36.210		
4,000.0	4,000.0	3,911.0	3,840.8	7.0	14.2	87.94	26.9	748.2	765.5	744.3	21.14	36.209		
4,100.0	4,100.0	4,009.2	3,936.8	7.1	14.6	-0.09	27.7	768.6	784.6	770.5	14.09	55.701		
4,155.7	4,155.6	4,064.1	3,990.5	7.2	14.8	-0.09	28.1	780.1	793.7	779.4	14.29	55.557		
4,200.0	4,199.9	4,107.9	4,033.4	7.3	15.0	-0.09	28.4	789.2	800.5	786.1	14.44	55.441		
4,300.0	4,299.7	4,206.7	4,130.0	7.5	15.4	-0.09	29.1	809.7	816.0	801.2	14.79	55.186		
4,400.0	4,399.6	4,305.5	4,226.6	7.7	15.8	-0.09	29.9	830.2	831.5	816.3	15.13	54.943		
4,500.0	4,499.4	4,404.3	4,323.3	7.8	16.2	-0.09	30.6	850.8	846.9	831.4	15.48	54.711		
4,600.0	4,599.3	4,503.1	4,419.9	8.0	16.6	-0.09	31.4	871.3	862.4	846.5	15.83	54.489		
4,700.0	4,699.1	4,601.9	4,516.5	8.2	17.0	-0.09	32.1	891.8	877.8	861.6	16.17	54.276		
4,800.0	4,799.0	4,700.7	4,613.2	8.4	17.4	-0.09	32.8	912.4	893.3	876.8	16.52	54.073		
4,900.0	4,898.8	4,799.5	4,709.8	8.6	17.8	-0.09	33.6	932.9	908.7	891.9	16.87	53.878		
5,000.0	4,998.7	4,898.3	4,806.5	8.8	18.2	-0.09	34.3	953.4	924.2	907.0	17.21	53.691		

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 1E-19H-B2687
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 1E-19H-B2687	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									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
5,100.0	5,098.5	4,997.1	4,903.1	8.9	18.6	-0.09	35.0	974.0	939.6	922.1	17.56	53.511				
5,200.0	5,198.4	5,095.9	4,999.7	9.1	19.0	-0.09	35.8	994.5	955.1	937.2	17.91	53.338				
5,300.0	5,298.2	5,194.7	5,096.4	9.3	19.4	-0.09	36.5	1,015.1	970.6	952.3	18.25	53.172				
5,400.0	5,398.1	5,293.5	5,193.0	9.5	19.8	-0.09	37.3	1,035.6	986.0	967.4	18.60	53.012				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		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			
0.0	0.0	0.0	0.0	0.0	0.0	87.91	2.6	69.9	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.91	2.6	69.9	70.0	69.6	0.30	230.336		
200.0	200.0	200.0	200.0	0.3	0.3	87.91	2.6	69.9	70.0	69.3	0.65	107.162 CC, ES		
300.0	300.0	297.6	297.6	0.5	0.5	87.91	2.6	71.6	71.7	70.7	1.00	71.568		
400.0	400.0	394.9	394.8	0.7	0.7	87.90	2.8	76.5	76.8	75.4	1.37	56.220		
500.0	500.0	491.8	491.3	0.8	0.9	87.89	3.1	84.7	85.2	83.5	1.76	48.517		
600.0	600.0	588.1	586.9	1.0	1.2	87.87	3.6	96.1	97.1	94.9	2.19	44.423		
700.0	700.0	683.4	681.1	1.2	1.5	87.86	4.1	110.6	112.2	109.6	2.66	42.250		
800.0	800.0	777.7	773.8	1.4	1.8	87.85	4.8	127.9	130.7	127.5	3.17	41.175		
900.0	900.0	870.8	864.7	1.5	2.2	87.83	5.6	148.0	152.3	148.5	3.74	40.724		
1,000.0	1,000.0	965.8	956.8	1.7	2.6	87.83	6.5	171.0	176.5	172.1	4.33	40.712		
1,100.0	1,100.0	1,062.7	1,050.9	1.9	3.1	87.82	7.4	194.7	200.9	196.0	4.95	40.610		
1,200.0	1,200.0	1,159.7	1,144.9	2.1	3.5	87.81	8.3	218.4	225.4	219.8	5.57	40.494		
1,300.0	1,300.0	1,256.7	1,238.9	2.2	3.9	87.81	9.3	242.1	249.9	243.7	6.19	40.379		
1,400.0	1,400.0	1,353.6	1,332.9	2.4	4.4	87.80	10.2	265.8	274.3	267.5	6.81	40.271		
1,500.0	1,500.0	1,450.6	1,426.9	2.6	4.8	87.80	11.1	289.5	298.8	291.3	7.44	40.173		
1,600.0	1,600.0	1,547.5	1,520.9	2.8	5.3	87.80	12.0	313.2	323.2	315.2	8.06	40.083		
1,700.0	1,700.0	1,644.5	1,615.0	2.9	5.8	87.80	13.0	336.9	347.7	339.0	8.69	40.002		
1,800.0	1,800.0	1,741.5	1,709.0	3.1	6.2	87.79	13.9	360.6	372.2	362.8	9.32	39.929		
1,900.0	1,900.0	1,838.4	1,803.0	3.3	6.7	87.79	14.8	384.3	396.6	386.7	9.95	39.863		
2,000.0	2,000.0	1,935.4	1,897.0	3.5	7.1	87.79	15.7	408.0	421.1	410.5	10.58	39.802		
2,100.0	2,100.0	2,032.4	1,991.0	3.6	7.6	87.79	16.7	431.7	445.5	434.3	11.21	39.748		
2,200.0	2,200.0	2,129.3	2,085.0	3.8	8.0	87.79	17.6	455.4	470.0	458.2	11.84	39.697		
2,300.0	2,300.0	2,226.3	2,179.1	4.0	8.5	87.79	18.5	479.1	494.5	482.0	12.47	39.652		
2,400.0	2,400.0	2,323.3	2,273.1	4.2	8.9	87.79	19.4	502.8	518.9	505.8	13.10	39.609		
2,500.0	2,500.0	2,420.2	2,367.1	4.3	9.4	87.79	20.4	526.5	543.4	529.6	13.73	39.571		
2,600.0	2,600.0	2,517.2	2,461.1	4.5	9.9	87.78	21.3	550.2	567.8	553.5	14.36	39.535		
2,700.0	2,700.0	2,614.1	2,555.1	4.7	10.3	87.78	22.2	573.9	592.3	577.3	14.99	39.501		
2,800.0	2,800.0	2,711.1	2,649.1	4.9	10.8	87.78	23.1	597.6	616.7	601.1	15.63	39.471		
2,900.0	2,900.0	2,808.1	2,743.2	5.0	11.2	87.78	24.1	621.3	641.2	625.0	16.26	39.442		
3,000.0	3,000.0	2,905.0	2,837.2	5.2	11.7	87.78	25.0	645.0	665.7	648.8	16.89	39.415		
3,100.0	3,100.0	3,002.0	2,931.2	5.4	12.1	87.78	25.9	668.7	690.1	672.6	17.52	39.390		
3,200.0	3,200.0	3,099.0	3,025.2	5.6	12.6	87.78	26.8	692.4	714.6	696.4	18.15	39.366		
3,300.0	3,300.0	3,195.9	3,119.2	5.7	13.1	87.78	27.8	716.1	739.0	720.3	18.78	39.344		
3,400.0	3,400.0	3,292.9	3,213.3	5.9	13.5	87.78	28.7	739.8	763.5	744.1	19.42	39.323		
3,500.0	3,500.0	3,389.8	3,307.3	6.1	14.0	87.78	29.6	763.5	788.0	767.9	20.05	39.304		
3,600.0	3,600.0	3,486.8	3,401.3	6.3	14.4	87.78	30.5	787.2	812.4	791.7	20.68	39.285		
3,700.0	3,700.0	3,583.8	3,495.3	6.4	14.9	87.78	31.5	810.9	836.9	815.6	21.31	39.268		
3,800.0	3,800.0	3,680.7	3,589.3	6.6	15.3	87.78	32.4	834.5	861.3	839.4	21.94	39.251		
3,900.0	3,900.0	3,777.7	3,683.3	6.8	15.8	87.78	33.3	858.2	885.8	863.2	22.58	39.236		
4,000.0	4,000.0	3,874.7	3,777.4	7.0	16.3	87.78	34.2	881.9	910.3	887.0	23.21	39.221 SF		
4,100.0	4,100.0	3,972.0	3,871.8	7.1	16.7	-0.25	35.2	905.7	933.0	919.0	14.01	66.613		
4,155.7	4,155.6	4,026.6	3,924.6	7.2	17.0	-0.25	35.7	919.1	944.2	930.0	14.21	66.450		
4,200.0	4,199.9	4,070.1	3,966.8	7.3	17.2	-0.25	36.1	929.7	952.7	938.3	14.36	66.334		
4,300.0	4,299.7	4,168.2	4,062.0	7.5	17.6	-0.25	37.0	953.7	971.9	957.2	14.71	66.079		
4,400.0	4,399.6	4,266.4	4,157.2	7.7	18.1	-0.25	38.0	977.7	991.0	976.0	15.05	65.837		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 4-4-19 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 744-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	7,566.0	7,619.7	7,571.4	44.5	18.2	89.80	-2,553.8	-777.6	992.5	932.6	59.93	16.561		
9,700.0	7,566.0	7,619.5	7,571.2	46.2	18.2	89.78	-2,553.8	-777.6	974.9	913.3	61.61	15.824		
9,800.0	7,566.0	7,619.3	7,570.9	47.9	18.2	89.77	-2,553.8	-777.6	967.4	904.1	63.30	15.283		
9,822.7	7,566.0	7,619.2	7,570.9	48.3	18.2	89.77	-2,553.8	-777.6	967.2	903.5	63.69	15.187 CC, ES		
9,900.0	7,566.0	7,619.0	7,570.7	49.6	18.2	89.76	-2,553.8	-777.6	970.3	905.3	65.00	14.928		
10,000.0	7,566.0	7,618.8	7,570.5	51.3	18.1	89.75	-2,553.8	-777.6	983.3	916.6	66.69	14.743 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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		
10,600.0	7,566.0	7,584.5	7,581.9	61.5	13.5	-90.64	-4,220.5	627.1	991.2	916.6	74.65	13.278		
10,700.0	7,566.0	7,584.1	7,581.6	63.2	13.5	-90.60	-4,220.5	627.1	902.6	826.2	76.37	11.819		
10,800.0	7,566.0	7,583.8	7,581.3	64.9	13.5	-90.56	-4,220.5	627.1	816.5	738.5	78.09	10.457		
10,900.0	7,566.0	7,583.5	7,581.0	66.7	13.5	-90.52	-4,220.6	627.1	734.1	654.3	79.81	9.198		
11,000.0	7,566.0	7,583.2	7,580.6	68.4	13.5	-90.48	-4,220.6	627.1	656.5	574.9	81.53	8.052		
11,100.0	7,566.0	7,582.9	7,580.3	70.1	13.5	-90.43	-4,220.6	627.1	585.7	502.5	83.26	7.035		
11,200.0	7,566.0	7,582.5	7,580.0	71.8	13.5	-90.39	-4,220.6	627.1	524.6	439.6	84.98	6.172		
11,300.0	7,566.0	7,582.2	7,579.7	73.6	13.5	-90.35	-4,220.6	627.1	476.7	390.0	86.71	5.498		
11,400.0	7,566.0	7,581.9	7,579.3	75.3	13.5	-90.31	-4,220.6	627.1	446.5	358.1	88.44	5.049		
11,489.5	7,566.0	7,581.6	7,579.1	76.8	13.5	-90.27	-4,220.6	627.1	437.5	347.5	89.99	4.861 CC		
11,500.0	7,566.0	7,581.6	7,579.0	77.0	13.5	-90.27	-4,220.6	627.1	437.6	347.4	90.17	4.853 ES, SF		
11,600.0	7,566.0	7,581.3	7,578.7	78.7	13.4	-90.22	-4,220.6	627.1	451.2	359.3	91.90	4.910		
11,700.0	7,566.0	7,580.9	7,578.4	80.5	13.4	-90.18	-4,220.6	627.1	485.5	391.8	93.63	5.185		
11,800.0	7,566.0	7,580.6	7,578.1	82.2	13.4	-90.14	-4,220.6	627.1	536.5	441.1	95.36	5.625		
11,900.0	7,566.0	7,580.3	7,577.7	83.9	13.4	-90.10	-4,220.6	627.1	599.9	502.8	97.10	6.179		
12,000.0	7,566.0	7,580.0	7,577.4	85.7	13.4	-90.05	-4,220.6	627.1	672.3	573.5	98.83	6.803		
12,059.9	7,566.0	7,579.8	7,577.2	86.7	13.4	-90.03	-4,220.6	627.1	718.9	619.0	99.87	7.198		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 31-19 - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-152.54	-707.4	-367.7	797.3					
100.0	100.0	89.0	89.0	0.2	0.2	-152.56	-707.9	-367.5	797.6	797.3	0.31	2,593.121		
200.0	200.0	186.8	186.8	0.3	0.3	-152.63	-709.0	-367.0	798.4	797.7	0.65	1,221.856		
300.0	300.0	287.1	287.0	0.5	0.5	-152.69	-710.1	-366.7	799.3	798.3	1.00	796.462		
400.0	400.0	391.0	391.0	0.7	0.7	-152.72	-710.9	-366.7	799.9	798.6	1.36	588.362		
500.0	500.0	491.1	491.1	0.8	0.9	-152.72	-711.2	-366.8	800.3	798.6	1.71	468.310		
600.0	600.0	593.3	593.3	1.0	1.0	-152.72	-711.5	-366.9	800.5	798.4	2.06	388.298		
700.0	700.0	690.0	690.0	1.2	1.2	-152.69	-711.5	-367.4	800.8	798.4	2.41	332.953		
800.0	800.0	790.4	790.3	1.4	1.4	-152.63	-711.6	-368.4	801.3	798.5	2.75	290.851		
900.0	900.0	890.3	890.2	1.5	1.6	-152.56	-711.5	-369.5	801.7	798.6	3.10	258.285		
1,000.0	1,000.0	988.5	988.4	1.7	1.7	-152.45	-711.3	-371.1	802.3	798.9	3.45	232.524		
1,100.0	1,100.0	1,087.9	1,087.9	1.9	1.9	-152.32	-711.1	-373.1	803.0	799.2	3.80	211.376		
1,200.0	1,200.0	1,186.8	1,186.7	2.1	2.1	-152.15	-710.8	-375.5	803.9	799.7	4.15	193.848		
1,300.0	1,300.0	1,288.5	1,288.3	2.2	2.3	-151.96	-710.3	-378.2	804.7	800.2	4.50	178.845		
1,400.0	1,400.0	1,387.5	1,387.3	2.4	2.4	-151.76	-709.6	-381.0	805.4	800.6	4.85	166.156		
1,500.0	1,500.0	1,493.0	1,492.8	2.6	2.6	-151.54	-708.6	-384.0	806.0	800.8	5.21	154.812		
1,600.0	1,600.0	1,584.3	1,584.0	2.8	2.8	-151.34	-707.7	-386.8	806.6	801.1	5.54	145.566		
1,700.0	1,700.0	1,677.3	1,677.0	2.9	3.0	-151.10	-707.5	-390.5	808.3	802.4	5.88	137.458		
1,800.0	1,800.0	1,776.6	1,776.1	3.1	3.1	-150.81	-707.5	-395.2	810.6	804.3	6.23	130.082		
1,900.0	1,900.0	1,870.5	1,869.9	3.3	3.3	-150.53	-707.5	-399.9	813.1	806.5	6.57	123.682		
2,000.0	2,000.0	1,968.7	1,968.0	3.5	3.5	-150.23	-708.2	-405.0	816.2	809.3	6.93	117.867		
2,100.0	2,100.0	2,066.1	2,065.3	3.6	3.7	-149.94	-708.9	-410.2	819.5	812.2	7.28	112.632		
2,200.0	2,200.0	2,163.0	2,162.0	3.8	3.9	-149.66	-710.0	-415.5	823.2	815.6	7.63	107.930		
2,300.0	2,300.0	2,261.0	2,259.8	4.0	4.1	-149.38	-711.3	-421.0	827.3	819.3	7.98	103.638		
2,400.0	2,400.0	2,356.5	2,355.1	4.2	4.3	-149.10	-712.8	-426.6	831.6	823.3	8.33	99.778		
2,500.0	2,500.0	2,456.6	2,455.1	4.3	4.5	-148.82	-714.9	-432.5	836.4	827.8	8.70	96.184		
2,600.0	2,600.0	2,559.3	2,557.5	4.5	4.7	-148.50	-716.3	-438.9	840.9	831.8	9.06	92.784		
2,700.0	2,700.0	2,657.3	2,655.3	4.7	4.9	-148.18	-717.4	-445.3	845.3	835.8	9.42	89.715		
2,800.0	2,800.0	2,752.0	2,749.8	4.9	5.0	-147.87	-718.9	-451.5	850.1	840.3	9.78	86.947		
2,900.0	2,900.0	2,850.2	2,847.8	5.0	5.2	-147.59	-721.2	-457.9	855.6	845.4	10.14	84.365		
3,000.0	3,000.0	2,949.2	2,946.5	5.2	5.4	-147.26	-723.0	-464.9	860.9	850.4	10.51	81.928		
3,100.0	3,100.0	3,047.8	3,044.9	5.4	5.7	-146.95	-725.2	-471.9	866.6	855.7	10.88	79.685		
3,200.0	3,200.0	3,149.7	3,146.5	5.6	5.9	-146.59	-727.0	-479.5	872.1	860.9	11.25	77.528		
3,300.0	3,300.0	3,247.5	3,243.9	5.7	6.1	-146.23	-728.3	-487.1	877.6	866.0	11.62	75.545		
3,400.0	3,400.0	3,345.8	3,341.9	5.9	6.3	-145.85	-730.0	-495.1	883.5	871.6	11.99	73.703		
3,500.0	3,500.0	3,444.5	3,440.2	6.1	6.5	-145.47	-731.3	-503.3	889.4	877.0	12.36	71.950		
3,600.0	3,600.0	3,542.3	3,537.8	6.3	6.7	-145.14	-733.5	-511.0	895.7	882.9	12.73	70.338		
3,700.0	3,700.0	3,648.6	3,643.8	6.4	6.9	-144.82	-735.9	-518.6	901.7	888.6	13.12	68.724		
3,800.0	3,800.0	3,755.4	3,750.3	6.6	7.1	-144.56	-737.9	-525.2	906.8	893.3	13.50	67.155		
3,900.0	3,900.0	3,858.6	3,853.3	6.8	7.4	-144.34	-739.7	-530.8	911.4	897.5	13.88	65.679		
4,000.0	4,000.0	3,957.1	3,951.7	7.0	7.5	-144.15	-741.5	-535.9	915.9	901.6	14.24	64.307		
4,100.0	4,100.0	4,055.7	4,050.1	7.1	7.7	127.99	-743.8	-540.8	921.7	907.2	14.51	63.524		
4,155.7	4,155.6	4,111.5	4,105.8	7.2	7.9	128.14	-745.0	-543.5	925.9	911.2	14.70	62.979		
4,200.0	4,199.9	4,155.7	4,150.0	7.3	7.9	128.33	-746.0	-545.7	929.5	914.6	14.86	62.561		
4,300.0	4,299.7	4,256.9	4,251.0	7.5	8.1	128.77	-748.1	-550.8	937.5	922.3	15.21	61.637		
4,400.0	4,399.6	4,362.1	4,356.1	7.7	8.3	129.21	-750.0	-555.8	945.2	929.7	15.57	60.702		
4,500.0	4,499.4	4,461.7	4,455.6	7.8	8.5	129.63	-751.3	-560.4	952.5	936.6	15.92	59.826		
4,600.0	4,599.3	4,561.3	4,555.1	8.0	8.7	130.00	-753.3	-564.3	960.1	943.8	16.27	59.008		
4,700.0	4,699.1	4,660.7	4,654.4	8.2	8.9	130.35	-755.3	-568.2	967.5	950.9	16.62	58.217		
4,800.0	4,799.0	4,756.4	4,750.0	8.4	9.1	130.68	-757.3	-572.0	975.2	958.2	16.96	57.498		
4,900.0	4,898.8	4,856.7	4,850.2	8.6	9.3	131.00	-760.0	-575.9	983.3	965.9	17.31	56.803		
5,000.0	4,998.7	4,960.9	4,954.3	8.8	9.5	131.33	-762.5	-579.6	990.9	973.3	17.66	56.096		

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 1E-19H-B2687
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 1E-19H-B2687	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 31-19 - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,100.0	5,098.5	5,067.5	5,060.9	8.9	9.7	131.63	-764.8	-582.7	998.1	980.1	18.02	55.374	
7,350.0	7,306.8	7,300.0	7,293.1	13.5	13.4	62.12	-764.1	-599.5	983.2	957.7	25.45	38.626	
7,400.0	7,344.1	7,337.2	7,330.3	13.8	13.5	64.52	-763.6	-600.3	965.1	939.3	25.73	37.501	
7,450.0	7,379.0	7,372.7	7,365.8	14.0	13.5	67.19	-763.1	-601.0	946.2	920.1	26.09	36.265	
7,500.0	7,411.4	7,405.2	7,398.3	14.3	13.6	70.00	-762.8	-601.5	926.9	900.4	26.52	34.955	
7,550.0	7,441.0	7,432.9	7,426.0	14.7	13.6	72.80	-762.5	-601.9	907.7	880.7	27.00	33.622	
7,600.0	7,467.7	7,458.1	7,451.2	15.1	13.7	75.59	-762.4	-602.3	888.8	861.3	27.53	32.291	
7,650.0	7,491.5	7,480.6	7,473.7	15.5	13.7	78.31	-762.3	-602.7	870.7	842.6	28.09	30.999	
7,700.0	7,512.1	7,500.0	7,493.1	16.0	13.8	80.83	-762.2	-603.0	853.7	825.0	28.67	29.775	
7,750.0	7,529.5	7,516.9	7,510.0	16.5	13.8	83.15	-762.2	-603.3	838.2	808.9	29.27	28.636	
7,800.0	7,543.6	7,530.4	7,523.5	17.0	13.8	85.13	-762.3	-603.5	824.5	794.7	29.88	27.598	
7,850.0	7,554.3	7,540.8	7,533.8	17.6	13.8	86.74	-762.3	-603.7	813.1	782.6	30.49	26.666	
7,900.0	7,561.6	7,547.8	7,540.9	18.2	13.8	87.94	-762.3	-603.8	804.1	773.0	31.12	25.841	
7,950.0	7,565.4	7,551.6	7,544.6	18.8	13.8	88.70	-762.3	-603.9	797.7	766.0	31.75	25.124	
7,979.9	7,566.0	7,552.2	7,545.3	19.2	13.9	88.94	-762.3	-603.9	795.3	763.2	32.14	24.746	
8,000.0	7,566.0	7,552.3	7,545.3	19.5	13.9	88.94	-762.3	-603.9	794.3	761.9	32.40	24.512	
8,031.2	7,566.0	7,552.3	7,545.4	19.9	13.9	88.94	-762.3	-603.9	793.6	760.8	32.83	24.177 CC, ES	
8,100.0	7,566.0	7,552.4	7,545.5	20.8	13.9	88.95	-762.3	-603.9	796.6	762.9	33.76	23.595	
8,200.0	7,566.0	7,552.6	7,545.7	22.2	13.9	88.97	-762.3	-603.9	811.4	776.2	35.18	23.067	
8,300.0	7,566.0	7,552.8	7,545.8	23.7	13.9	88.98	-762.3	-603.9	837.9	801.3	36.64	22.871 SF	
8,400.0	7,566.0	7,553.0	7,546.0	25.1	13.9	88.99	-762.3	-603.9	875.2	837.0	38.14	22.948	
8,500.0	7,566.0	7,553.1	7,546.2	26.7	13.9	89.00	-762.3	-603.9	921.8	882.1	39.67	23.238	
8,600.0	7,566.0	7,553.3	7,546.4	28.2	13.9	89.02	-762.3	-603.9	976.4	935.2	41.22	23.687	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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			
8,200.0	7,566.0	7,553.0	7,551.1	22.2	13.3	89.77	-1,799.5	-290.8	992.5	957.3	35.15	28.238		
8,300.0	7,566.0	7,553.2	7,551.3	23.7	13.3	89.80	-1,799.5	-290.8	906.2	869.6	36.61	24.756		
8,400.0	7,566.0	7,553.4	7,551.5	25.1	13.3	89.82	-1,799.5	-290.8	823.2	785.0	38.11	21.602		
8,500.0	7,566.0	7,553.6	7,551.7	26.7	13.3	89.85	-1,799.5	-290.8	744.2	704.6	39.64	18.777		
8,600.0	7,566.0	7,553.8	7,551.9	28.2	13.3	89.87	-1,799.5	-290.8	671.0	629.8	41.19	16.289		
8,700.0	7,566.0	7,554.0	7,552.1	29.8	13.3	89.90	-1,799.5	-290.8	605.4	562.6	42.77	14.155		
8,800.0	7,566.0	7,554.2	7,552.3	31.4	13.3	89.92	-1,799.5	-290.8	550.3	505.9	44.37	12.403		
8,900.0	7,566.0	7,554.5	7,552.5	33.0	13.3	89.94	-1,799.5	-290.8	509.1	463.1	45.98	11.071		
9,000.0	7,566.0	7,554.7	7,552.7	34.6	13.3	89.97	-1,799.5	-290.8	485.2	437.6	47.61	10.192		
9,068.5	7,566.0	7,554.8	7,552.9	35.7	13.3	89.99	-1,799.5	-290.8	480.4	431.6	48.73	9.858 CC, ES		
9,100.0	7,566.0	7,554.9	7,553.0	36.2	13.3	89.99	-1,799.5	-290.8	481.4	432.2	49.25	9.775 SF		
9,200.0	7,566.0	7,555.1	7,553.2	37.9	13.3	90.02	-1,799.5	-290.8	498.1	447.2	50.90	9.785		
9,300.0	7,566.0	7,555.3	7,553.4	39.5	13.3	90.05	-1,799.5	-290.8	533.3	480.7	52.56	10.147		
9,400.0	7,566.0	7,555.5	7,553.6	41.2	13.3	90.07	-1,799.5	-290.8	583.7	529.5	54.22	10.764		
9,500.0	7,566.0	7,555.7	7,553.8	42.8	13.3	90.10	-1,799.5	-290.8	645.7	589.8	55.90	11.553		
9,600.0	7,566.0	7,555.9	7,554.0	44.5	13.3	90.12	-1,799.5	-290.8	716.4	658.9	57.58	12.444		
9,700.0	7,566.0	7,556.2	7,554.2	46.2	13.3	90.15	-1,799.5	-290.8	793.5	734.2	59.26	13.389		
9,800.0	7,566.0	7,556.4	7,554.5	47.9	13.3	90.17	-1,799.5	-290.8	875.2	814.2	60.95	14.358		
9,900.0	7,566.0	7,556.6	7,554.7	49.6	13.3	90.20	-1,799.5	-290.8	960.3	897.7	62.65	15.329		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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	7,566.0	7,563.8	7,561.1	44.5	13.5	89.91	-3,119.2	-387.4	976.8	919.2	57.60	16.959		
9,700.0	7,566.0	7,563.9	7,561.2	46.2	13.5	89.92	-3,119.2	-387.4	898.0	838.7	59.28	15.148		
9,800.0	7,566.0	7,564.0	7,561.3	47.9	13.5	89.94	-3,119.2	-387.4	823.9	762.9	60.97	13.513		
9,900.0	7,566.0	7,564.2	7,561.5	49.6	13.5	89.95	-3,119.2	-387.4	755.8	693.1	62.67	12.060		
10,000.0	7,566.0	7,564.3	7,561.6	51.3	13.5	89.96	-3,119.2	-387.4	695.4	631.0	64.37	10.804		
10,100.0	7,566.0	7,564.4	7,561.7	53.0	13.5	89.97	-3,119.2	-387.4	645.0	578.9	66.07	9.762		
10,200.0	7,566.0	7,564.5	7,561.9	54.7	13.5	89.99	-3,119.2	-387.4	606.9	539.1	67.77	8.955		
10,300.0	7,566.0	7,564.7	7,562.0	56.4	13.5	90.00	-3,119.2	-387.4	583.7	514.2	69.48	8.401		
10,388.1	7,566.0	7,564.8	7,562.1	57.9	13.5	90.01	-3,119.2	-387.4	577.0	506.0	70.99	8.128 CC		
10,400.0	7,566.0	7,564.8	7,562.1	58.1	13.5	90.01	-3,119.2	-387.4	577.2	506.0	71.19	8.107 ES		
10,500.0	7,566.0	7,564.9	7,562.2	59.8	13.5	90.02	-3,119.2	-387.4	587.8	514.9	72.91	8.062 SF		
10,600.0	7,566.0	7,565.1	7,562.4	61.5	13.5	90.04	-3,119.2	-387.4	614.7	540.1	74.62	8.238		
10,700.0	7,566.0	7,565.2	7,562.5	63.2	13.5	90.05	-3,119.2	-387.4	655.9	579.6	76.34	8.592		
10,800.0	7,566.0	7,565.3	7,562.6	64.9	13.5	90.06	-3,119.2	-387.4	709.0	630.9	78.06	9.082		
10,900.0	7,566.0	7,565.4	7,562.8	66.7	13.5	90.08	-3,119.2	-387.4	771.4	691.6	79.78	9.668		
11,000.0	7,566.0	7,565.6	7,562.9	68.4	13.5	90.09	-3,119.2	-387.4	841.1	759.6	81.51	10.319		
11,100.0	7,566.0	7,565.7	7,563.0	70.1	13.5	90.10	-3,119.2	-387.4	916.4	833.2	83.23	11.010		
11,200.0	7,566.0	7,565.8	7,563.1	71.8	13.5	90.11	-3,119.2	-387.4	996.1	911.1	84.96	11.724		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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							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		
8,500.0	7,566.0	7,549.4	7,547.0	26.7	13.4	-90.14	-1,778.3	1,008.8	985.2	945.6	39.63	24.861		
8,600.0	7,566.0	7,549.7	7,547.4	28.2	13.4	-90.17	-1,778.3	1,008.8	933.4	892.2	41.18	22.663		
8,700.0	7,566.0	7,550.1	7,547.8	29.8	13.4	-90.20	-1,778.3	1,008.8	889.8	847.0	42.76	20.807		
8,800.0	7,566.0	7,550.5	7,548.2	31.4	13.4	-90.22	-1,778.3	1,008.8	855.7	811.4	44.36	19.290		
8,900.0	7,566.0	7,550.9	7,548.6	33.0	13.4	-90.25	-1,778.3	1,008.8	832.4	786.4	45.98	18.104		
9,000.0	7,566.0	7,551.3	7,549.0	34.6	13.4	-90.28	-1,778.3	1,008.8	820.6	773.0	47.60	17.238		
9,047.3	7,566.0	7,551.5	7,549.2	35.4	13.4	-90.29	-1,778.3	1,008.8	819.2	770.8	48.38	16.934	CC, ES	
9,100.0	7,566.0	7,551.7	7,549.4	36.2	13.4	-90.31	-1,778.3	1,008.8	820.9	771.7	49.24	16.671		
9,200.0	7,566.0	7,552.1	7,549.8	37.9	13.4	-90.34	-1,778.3	1,008.8	833.3	782.4	50.89	16.375		
9,300.0	7,566.0	7,552.5	7,550.2	39.5	13.4	-90.36	-1,778.3	1,008.8	857.3	804.8	52.55	16.314	SF	
9,400.0	7,566.0	7,552.9	7,550.6	41.2	13.4	-90.39	-1,778.3	1,008.8	891.9	837.7	54.22	16.451		
9,500.0	7,566.0	7,553.3	7,551.0	42.8	13.4	-90.42	-1,778.3	1,008.8	936.0	880.1	55.89	16.747		
9,600.0	7,566.0	7,553.7	7,551.4	44.5	13.4	-90.45	-1,778.3	1,008.8	988.3	930.7	57.57	17.166		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,566.0	7,799.0	7,554.7	56.4	29.0	-89.74	-3,265.5	1,145.2	983.9	913.6	70.31	13.995		
10,400.0	7,566.0	7,798.6	7,554.3	58.1	29.0	-89.72	-3,265.5	1,145.2	965.0	893.0	72.02	13.399		
10,500.0	7,566.0	7,798.2	7,553.9	59.8	29.0	-89.69	-3,265.5	1,145.2	956.2	882.5	73.73	12.969		
10,534.4	7,566.0	7,798.1	7,553.8	60.4	29.0	-89.69	-3,265.5	1,145.2	955.6	881.3	74.32	12.858	CC, ES	
10,600.0	7,566.0	7,797.8	7,553.5	61.5	29.0	-89.67	-3,265.5	1,145.2	957.8	882.4	75.45	12.696		
10,700.0	7,566.0	7,797.5	7,553.2	63.2	29.0	-89.65	-3,265.5	1,145.2	969.8	892.7	77.16	12.568	SF	
10,800.0	7,566.0	7,797.1	7,552.8	64.9	29.0	-89.63	-3,265.5	1,145.2	991.8	912.9	78.88	12.573		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
6,950.0	6,945.5	6,940.3	6,937.3	12.4	12.4	-9.32	-850.3	673.0	994.2	969.9	24.32	40.886		
7,000.0	6,994.7	6,987.2	6,984.2	12.5	12.5	-17.06	-849.7	673.4	985.4	961.1	24.30	40.554		
7,050.0	7,043.3	7,037.0	7,034.0	12.6	12.5	-21.55	-849.2	673.8	973.8	949.6	24.23	40.194		
7,100.0	7,090.8	7,087.1	7,084.1	12.7	12.6	-24.86	-848.5	674.1	959.3	935.2	24.11	39.792		
7,150.0	7,137.2	7,132.6	7,129.5	12.8	12.7	-27.69	-847.9	674.4	942.0	918.0	23.94	39.339		
7,200.0	7,182.3	7,175.6	7,172.5	13.0	12.8	-30.38	-847.4	674.6	922.2	898.4	23.76	38.808		
7,250.0	7,225.7	7,216.7	7,213.6	13.1	12.8	-33.14	-847.1	674.8	900.1	876.5	23.59	38.157		
7,300.0	7,267.2	7,255.6	7,252.6	13.3	12.9	-36.08	-846.9	674.9	876.0	852.5	23.46	37.342		
7,350.0	7,306.8	7,292.9	7,289.9	13.5	13.0	-39.28	-846.9	675.0	849.9	826.5	23.41	36.309		
7,400.0	7,344.1	7,330.2	7,327.1	13.8	13.0	-42.91	-847.0	675.0	822.1	798.7	23.49	34.995		
7,450.0	7,379.0	7,365.5	7,362.5	14.0	13.1	-46.94	-847.1	675.0	792.9	769.1	23.76	33.378		
7,500.0	7,411.4	7,398.4	7,395.4	14.3	13.2	-51.39	-847.2	674.9	762.4	738.2	24.22	31.477		
7,550.0	7,441.0	7,429.7	7,426.7	14.7	13.2	-56.29	-847.4	674.7	731.2	706.3	24.91	29.350		
7,600.0	7,467.7	7,458.3	7,455.3	15.1	13.3	-61.48	-847.6	674.4	699.4	673.6	25.78	27.125		
7,650.0	7,491.5	7,483.8	7,480.8	15.5	13.3	-66.81	-847.8	674.0	667.7	640.9	26.78	24.936		
7,700.0	7,512.1	7,506.1	7,503.1	16.0	13.3	-72.08	-848.0	673.6	636.5	608.7	27.80	22.894		
7,750.0	7,529.5	7,525.0	7,522.0	16.5	13.4	-77.06	-848.2	673.2	606.4	577.6	28.78	21.068		
7,800.0	7,543.6	7,540.3	7,537.2	17.0	13.4	-81.52	-848.3	672.8	578.1	548.4	29.67	19.482		
7,850.0	7,554.3	7,551.9	7,548.9	17.6	13.4	-85.31	-848.4	672.6	552.3	521.8	30.46	18.132		
7,900.0	7,561.6	7,559.9	7,556.9	18.2	13.4	-88.31	-848.5	672.4	529.7	498.5	31.16	16.998		
7,950.0	7,565.4	7,564.2	7,561.2	18.8	13.4	-90.45	-848.5	672.3	511.0	479.2	31.81	16.063		
7,979.9	7,566.0	7,565.1	7,562.0	19.2	13.4	-91.31	-848.5	672.2	502.0	469.8	32.19	15.593		
8,000.0	7,566.0	7,565.2	7,562.2	19.5	13.4	-91.32	-848.5	672.2	496.8	464.4	32.46	15.308		
8,100.0	7,566.0	7,565.8	7,562.8	20.8	13.5	-91.40	-848.5	672.2	483.1	449.3	33.82	14.286		
8,117.4	7,566.0	7,565.9	7,562.9	21.1	13.5	-91.41	-848.5	672.2	482.8	448.7	34.06	14.173 CC, ES		
8,200.0	7,566.0	7,566.4	7,563.4	22.2	13.5	-91.47	-848.5	672.2	489.8	454.5	35.23	13.902 SF		
8,300.0	7,566.0	7,567.0	7,564.0	23.7	13.5	-91.54	-848.5	672.2	516.1	479.4	36.69	14.067		
8,400.0	7,566.0	7,567.6	7,564.6	25.1	13.5	-91.61	-848.5	672.2	559.4	521.2	38.19	14.648		
8,500.0	7,566.0	7,568.2	7,565.2	26.7	13.5	-91.68	-848.5	672.2	616.0	576.2	39.72	15.509		
8,600.0	7,566.0	7,568.8	7,565.8	28.2	13.5	-91.75	-848.5	672.2	682.6	641.3	41.27	16.538		
8,700.0	7,566.0	7,569.4	7,566.4	29.8	13.5	-91.82	-848.5	672.1	756.6	713.7	42.85	17.657		
8,800.0	7,566.0	7,570.0	7,566.9	31.4	13.5	-91.89	-848.5	672.1	836.0	791.6	44.45	18.810		
8,900.0	7,566.0	7,570.5	7,567.5	33.0	13.5	-91.96	-848.5	672.1	919.5	873.4	46.06	19.964		

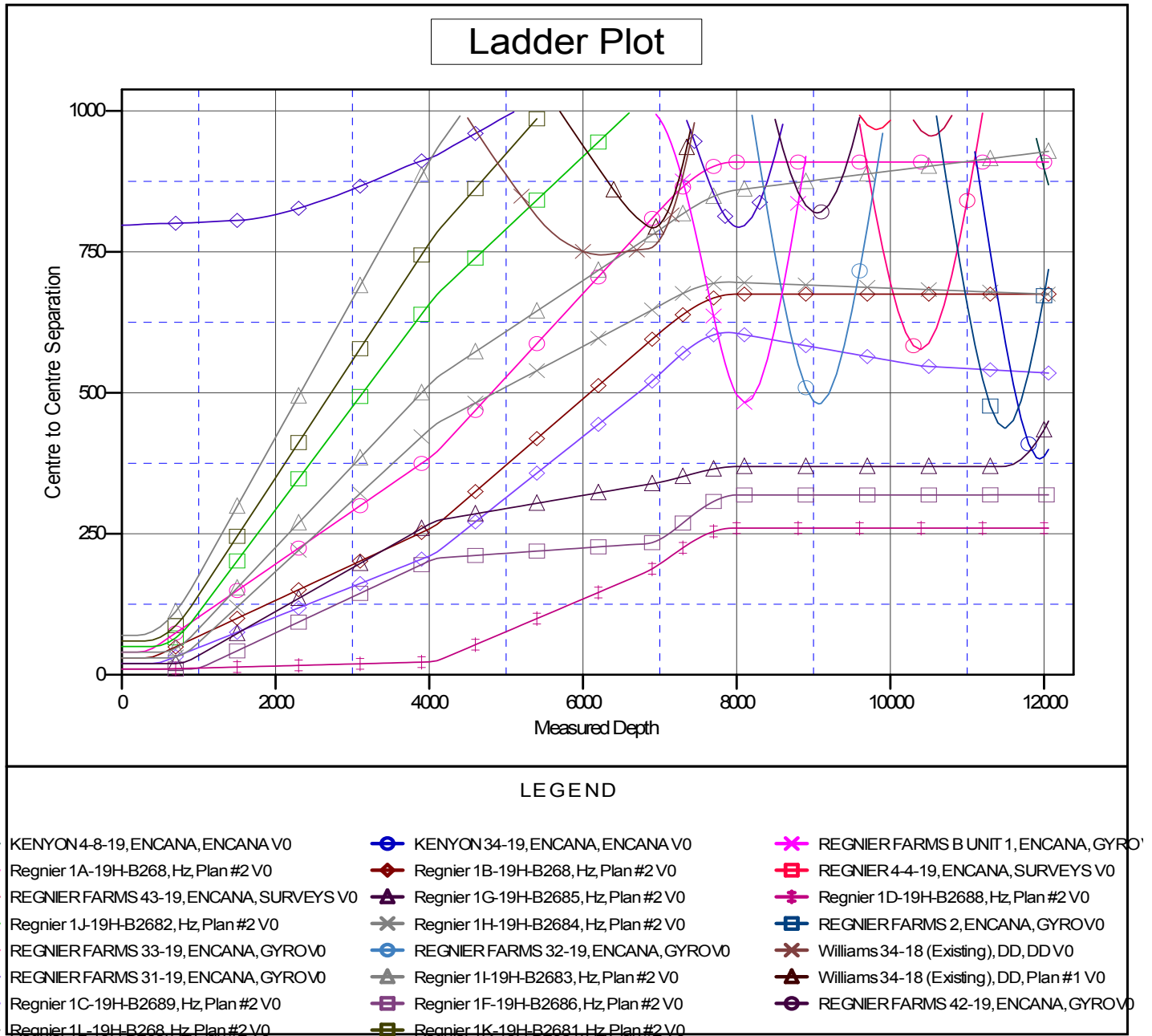
Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1E-19H-B2687
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 1E-19H-B2687	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 1E-19H-B2687
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