

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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 1D-19H-B2688					
Well Position	+N/-S	0.0 ft	Northing:	1,290,971.83 ft	Latitude:	40.131201
	+E/-W	0.0 ft	Easting:	3,127,733.37 ft	Longitude:	-105.043201
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 #3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	180.30	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
510.4	0.21	273.96	510.4	0.0	0.0	2.00	2.00	0.00	273.96	
6,718.7	0.21	273.96	6,718.6	1.6	-22.6	0.00	0.00	0.00	0.00	
7,843.8	90.00	180.00	7,435.0	-714.6	-25.2	8.00	7.98	-8.35	-93.96	
11,923.8	90.00	180.00	7,435.0	-4,794.6	-25.2	0.00	0.00	0.00	0.00	Regnier 1D PBHL

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1D-19H-B2688	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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	Start Build 2.00
510.4	0.21	273.96	510.4	0.0	0.0	0.0	2.00	2.00	Start 6208.2 hold at 510.4 MD
600.0	0.21	273.96	600.0	0.0	-0.3	0.0	0.00	0.00	
700.0	0.21	273.96	700.0	0.0	-0.7	0.0	0.00	0.00	
800.0	0.21	273.96	800.0	0.1	-1.1	-0.1	0.00	0.00	
900.0	0.21	273.96	900.0	0.1	-1.4	-0.1	0.00	0.00	
1,000.0	0.21	273.96	1,000.0	0.1	-1.8	-0.1	0.00	0.00	
1,100.0	0.21	273.96	1,100.0	0.1	-2.2	-0.1	0.00	0.00	
1,200.0	0.21	273.96	1,200.0	0.2	-2.5	-0.2	0.00	0.00	
1,300.0	0.21	273.96	1,300.0	0.2	-2.9	-0.2	0.00	0.00	
1,400.0	0.21	273.96	1,400.0	0.2	-3.2	-0.2	0.00	0.00	
1,500.0	0.21	273.96	1,500.0	0.3	-3.6	-0.2	0.00	0.00	
1,600.0	0.21	273.96	1,600.0	0.3	-4.0	-0.3	0.00	0.00	
1,700.0	0.21	273.96	1,700.0	0.3	-4.3	-0.3	0.00	0.00	
1,800.0	0.21	273.96	1,800.0	0.3	-4.7	-0.3	0.00	0.00	
1,900.0	0.21	273.96	1,900.0	0.4	-5.1	-0.3	0.00	0.00	
2,000.0	0.21	273.96	2,000.0	0.4	-5.4	-0.3	0.00	0.00	
2,100.0	0.21	273.96	2,100.0	0.4	-5.8	-0.4	0.00	0.00	
2,200.0	0.21	273.96	2,200.0	0.4	-6.2	-0.4	0.00	0.00	
2,300.0	0.21	273.96	2,300.0	0.5	-6.5	-0.4	0.00	0.00	
2,400.0	0.21	273.96	2,400.0	0.5	-6.9	-0.4	0.00	0.00	
2,500.0	0.21	273.96	2,500.0	0.5	-7.2	-0.5	0.00	0.00	
2,600.0	0.21	273.96	2,600.0	0.5	-7.6	-0.5	0.00	0.00	
2,700.0	0.21	273.96	2,700.0	0.6	-8.0	-0.5	0.00	0.00	
2,800.0	0.21	273.96	2,800.0	0.6	-8.3	-0.5	0.00	0.00	
2,900.0	0.21	273.96	2,900.0	0.6	-8.7	-0.6	0.00	0.00	
3,000.0	0.21	273.96	3,000.0	0.6	-9.1	-0.6	0.00	0.00	
3,100.0	0.21	273.96	3,100.0	0.7	-9.4	-0.6	0.00	0.00	
3,200.0	0.21	273.96	3,200.0	0.7	-9.8	-0.6	0.00	0.00	
3,300.0	0.21	273.96	3,300.0	0.7	-10.2	-0.7	0.00	0.00	
3,400.0	0.21	273.96	3,400.0	0.7	-10.5	-0.7	0.00	0.00	
3,500.0	0.21	273.96	3,500.0	0.8	-10.9	-0.7	0.00	0.00	
3,600.0	0.21	273.96	3,600.0	0.8	-11.2	-0.7	0.00	0.00	
3,700.0	0.21	273.96	3,700.0	0.8	-11.6	-0.7	0.00	0.00	
3,800.0	0.21	273.96	3,800.0	0.8	-12.0	-0.8	0.00	0.00	
3,900.0	0.21	273.96	3,900.0	0.9	-12.3	-0.8	0.00	0.00	
4,000.0	0.21	273.96	4,000.0	0.9	-12.7	-0.8	0.00	0.00	
4,100.0	0.21	273.96	4,100.0	0.9	-13.1	-0.8	0.00	0.00	
4,200.0	0.21	273.96	4,200.0	0.9	-13.4	-0.9	0.00	0.00	
4,273.0	0.21	273.96	4,273.0	0.9	-13.7	-0.9	0.00	0.00	Sussex
4,300.0	0.21	273.96	4,300.0	1.0	-13.8	-0.9	0.00	0.00	
4,400.0	0.21	273.96	4,400.0	1.0	-14.1	-0.9	0.00	0.00	
4,500.0	0.21	273.96	4,500.0	1.0	-14.5	-0.9	0.00	0.00	
4,600.0	0.21	273.96	4,600.0	1.0	-14.9	-1.0	0.00	0.00	
4,700.0	0.21	273.96	4,700.0	1.1	-15.2	-1.0	0.00	0.00	
4,800.0	0.21	273.96	4,800.0	1.1	-15.6	-1.0	0.00	0.00	

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Well:	Regnier 1D-19H-B2688	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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
4,816.0	0.21	273.96	4,816.0	1.1	-15.7	-1.0	0.00	0.00	Shannon
4,900.0	0.21	273.96	4,900.0	1.1	-16.0	-1.0	0.00	0.00	
5,000.0	0.21	273.96	5,000.0	1.1	-16.3	-1.0	0.00	0.00	
5,100.0	0.21	273.96	5,100.0	1.2	-16.7	-1.1	0.00	0.00	
5,200.0	0.21	273.96	5,200.0	1.2	-17.1	-1.1	0.00	0.00	
5,300.0	0.21	273.96	5,300.0	1.2	-17.4	-1.1	0.00	0.00	
5,400.0	0.21	273.96	5,400.0	1.2	-17.8	-1.1	0.00	0.00	
5,500.0	0.21	273.96	5,500.0	1.3	-18.1	-1.2	0.00	0.00	
5,600.0	0.21	273.96	5,600.0	1.3	-18.5	-1.2	0.00	0.00	
5,700.0	0.21	273.96	5,700.0	1.3	-18.9	-1.2	0.00	0.00	
5,800.0	0.21	273.96	5,800.0	1.3	-19.2	-1.2	0.00	0.00	Teepee Buttes (*if present)
5,900.0	0.21	273.96	5,900.0	1.4	-19.6	-1.3	0.00	0.00	
6,000.0	0.21	273.96	6,000.0	1.4	-20.0	-1.3	0.00	0.00	
6,100.0	0.21	273.96	6,100.0	1.4	-20.3	-1.3	0.00	0.00	
6,200.0	0.21	273.96	6,200.0	1.4	-20.7	-1.3	0.00	0.00	
6,300.0	0.21	273.96	6,300.0	1.5	-21.0	-1.3	0.00	0.00	
6,400.0	0.21	273.96	6,400.0	1.5	-21.4	-1.4	0.00	0.00	
6,500.0	0.21	273.96	6,500.0	1.5	-21.8	-1.4	0.00	0.00	
6,600.0	0.21	273.96	6,600.0	1.5	-22.1	-1.4	0.00	0.00	
6,612.0	0.21	273.96	6,612.0	1.5	-22.2	-1.4	0.00	0.00	
6,700.0	0.21	273.96	6,700.0	1.6	-22.5	-1.4	0.00	0.00	Start DLS 8.00 TFO -93.94
6,718.7	0.21	273.96	6,718.6	1.6	-22.6	-1.4	0.00	0.00	
6,800.0	6.50	181.83	6,799.8	-3.0	-22.9	3.1	8.00	7.73	
6,900.0	14.49	180.81	6,898.0	-21.2	-23.2	21.3	8.00	8.00	
7,000.0	22.49	180.50	6,992.8	-52.9	-23.6	53.0	8.00	8.00	
7,100.0	30.49	180.35	7,082.2	-97.5	-23.9	97.6	8.00	8.00	
7,200.0	38.49	180.26	7,164.6	-154.1	-24.2	154.2	8.00	8.00	
7,203.1	38.74	180.26	7,167.0	-156.0	-24.2	156.1	8.00	8.00	
7,300.0	46.49	180.20	7,238.2	-221.6	-24.5	221.7	8.00	8.00	
7,332.4	49.08	180.18	7,260.0	-245.5	-24.5	245.7	8.00	8.00	Niobrara
7,400.0	54.49	180.15	7,301.8	-298.7	-24.7	298.8	8.00	8.00	
7,451.1	58.58	180.13	7,330.0	-341.3	-24.8	341.4	8.00	8.00	
7,500.0	62.49	180.11	7,354.0	-383.8	-24.9	384.0	8.00	8.00	
7,508.7	63.19	180.11	7,358.0	-391.6	-24.9	391.7	8.00	8.00	
7,600.0	70.49	180.07	7,393.9	-475.5	-25.0	475.6	8.00	8.00	
7,700.0	78.49	180.04	7,420.6	-571.8	-25.1	571.9	8.00	8.00	
7,724.0	80.41	180.04	7,425.0	-595.4	-25.1	595.5	8.00	8.00	
7,800.0	86.49	180.01	7,433.7	-670.8	-25.2	670.9	8.00	8.00	
7,843.8	90.00	180.00	7,435.0	-714.6	-25.2	714.8	8.00	8.00	Start 4080.0 hold at 7843.8 MD
7,900.0	90.00	180.00	7,435.0	-770.8	-25.2	770.9	0.00	0.00	
8,000.0	90.00	180.00	7,435.0	-870.8	-25.2	870.9	0.00	0.00	
8,100.0	90.00	180.00	7,435.0	-970.8	-25.2	970.9	0.00	0.00	
8,200.0	90.00	180.00	7,435.0	-1,070.8	-25.2	1,070.9	0.00	0.00	
8,300.0	90.00	180.00	7,435.0	-1,170.8	-25.2	1,170.9	0.00	0.00	
8,400.0	90.00	180.00	7,435.0	-1,270.8	-25.2	1,270.9	0.00	0.00	
8,500.0	90.00	180.00	7,435.0	-1,370.8	-25.2	1,370.9	0.00	0.00	
8,600.0	90.00	180.00	7,435.0	-1,470.8	-25.2	1,470.9	0.00	0.00	
8,700.0	90.00	180.00	7,435.0	-1,570.8	-25.2	1,570.9	0.00	0.00	
8,800.0	90.00	180.00	7,435.0	-1,670.8	-25.2	1,670.9	0.00	0.00	
8,900.0	90.00	180.00	7,435.0	-1,770.8	-25.2	1,770.9	0.00	0.00	
9,000.0	90.00	180.00	7,435.0	-1,870.8	-25.2	1,870.9	0.00	0.00	
9,100.0	90.00	180.00	7,435.0	-1,970.8	-25.2	1,970.9	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
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Well:	Regnier 1D-19H-B2688	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	180.00	7,435.0	-2,070.8	-25.2	2,070.9	0.00	0.00	
9,300.0	90.00	180.00	7,435.0	-2,170.8	-25.2	2,170.9	0.00	0.00	
9,400.0	90.00	180.00	7,435.0	-2,270.8	-25.2	2,270.9	0.00	0.00	
9,500.0	90.00	180.00	7,435.0	-2,370.8	-25.2	2,370.9	0.00	0.00	
9,600.0	90.00	180.00	7,435.0	-2,470.8	-25.2	2,470.9	0.00	0.00	
9,700.0	90.00	180.00	7,435.0	-2,570.8	-25.2	2,570.9	0.00	0.00	
9,800.0	90.00	180.00	7,435.0	-2,670.8	-25.2	2,670.9	0.00	0.00	
9,900.0	90.00	180.00	7,435.0	-2,770.8	-25.2	2,770.9	0.00	0.00	
10,000.0	90.00	180.00	7,435.0	-2,870.8	-25.2	2,870.9	0.00	0.00	
10,100.0	90.00	180.00	7,435.0	-2,970.8	-25.2	2,970.9	0.00	0.00	
10,200.0	90.00	180.00	7,435.0	-3,070.8	-25.2	3,070.9	0.00	0.00	
10,300.0	90.00	180.00	7,435.0	-3,170.8	-25.2	3,170.9	0.00	0.00	
10,400.0	90.00	180.00	7,435.0	-3,270.8	-25.2	3,270.9	0.00	0.00	
10,500.0	90.00	180.00	7,435.0	-3,370.8	-25.2	3,370.9	0.00	0.00	
10,600.0	90.00	180.00	7,435.0	-3,470.8	-25.2	3,470.9	0.00	0.00	
10,700.0	90.00	180.00	7,435.0	-3,570.8	-25.2	3,570.9	0.00	0.00	
10,800.0	90.00	180.00	7,435.0	-3,670.8	-25.2	3,670.9	0.00	0.00	
10,900.0	90.00	180.00	7,435.0	-3,770.8	-25.2	3,770.9	0.00	0.00	
11,000.0	90.00	180.00	7,435.0	-3,870.8	-25.2	3,870.9	0.00	0.00	
11,100.0	90.00	180.00	7,435.0	-3,970.8	-25.2	3,970.9	0.00	0.00	
11,200.0	90.00	180.00	7,435.0	-4,070.8	-25.2	4,070.9	0.00	0.00	
11,300.0	90.00	180.00	7,435.0	-4,170.8	-25.2	4,170.9	0.00	0.00	
11,400.0	90.00	180.00	7,435.0	-4,270.8	-25.2	4,270.9	0.00	0.00	
11,500.0	90.00	180.00	7,435.0	-4,370.8	-25.2	4,370.9	0.00	0.00	
11,600.0	90.00	180.00	7,435.0	-4,470.8	-25.2	4,470.9	0.00	0.00	
11,700.0	90.00	180.00	7,435.0	-4,570.8	-25.2	4,570.9	0.00	0.00	
11,800.0	90.00	180.00	7,435.0	-4,670.8	-25.2	4,670.9	0.00	0.00	
11,900.0	90.00	180.00	7,435.0	-4,770.8	-25.2	4,770.9	0.00	0.00	
11,923.8	90.00	180.00	7,435.0	-4,794.6	-25.2	4,794.7	0.00	0.00	TD at 11923.8

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 1D PBHL	0.00	0.30	7,435.0	-4,794.6	-25.2	1,286,177.12	3,127,732.90	40.118039	-105.043291
- plan hits target center									
- Point									

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1D-19H-B2688	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
250.0	250.0	Fox Hills - BASE				
4,273.0	4,273.0	Sussex				
4,816.0	4,816.0	Shannon				
6,612.0	6,612.0	Teepee Buttes (*if present)				
7,203.1	7,167.0	Sharon Springs				
7,332.4	7,260.0	Niobrara				
7,451.1	7,330.0	B Chalk				
7,508.7	7,358.0	B Marl				
7,724.0	7,425.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
500.0	500.0	0.0	0.0	Start Build 2.00	
510.4	510.4	0.0	0.0	Start 6208.2 hold at 510.4 MD	
6,718.7	6,718.6	1.6	-22.6	Start DLS 8.00 TFO -93.94	
7,843.8	7,435.0	-714.6	-25.2	Start 4080.0 hold at 7843.8 MD	
11,923.8	7,435.0	-4,794.6	-25.2	TD at 11923.8	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1D-19H-B2688

Hz

Plan #3

Anticollision Report

20 January, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	1/20/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,923.8	Plan #3 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S19-T2N-R68W (Rasmussen/Regnier)						
Copy of Regnier 1A-19H-B268 - Hz - Plan #2	200.0	200.0	30.0	29.3	45.889	CC, ES
Copy of Regnier 1A-19H-B268 - Hz - Plan #2	11,924.8	11,943.4	675.1	501.8	3.896	SF
HANKINS 1 - ENCANA - NO SURVEYS						Out of range
KENYON 34-19 - ENCANA - ENCANA	11,805.8	7,600.2	159.1	59.6	1.598	CC, ES, SF
KENYON 4-8-19 - ENCANA - ENCANA	11,924.8	7,742.1	672.6	565.0	6.252	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 - GYRO						Out of range
RASMUSSEN 19-14 - ENCANA - GYRO						Out of range
RASMUSSEN 2-8-19 - ENCANA WELL - SURVEYS						Out of range
RASMUSSEN 31-28 - ENCANA - GYRO						Out of range
RASMUSSEN 32-28 - ENCANA - GYRO						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	8,522.2	11,038.8	800.4	706.3	8.511	CC, ES
Rasmussen 3L-19H-M268 - HZ - Plan #2	8,600.0	10,970.4	800.8	706.7	8.510	SF
RASMUSSEN 41-28 - ENCANA - GYRO						Out of range
RASMUSSEN 4-6-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN C UNIT 2 - ENCANA - GYRO						Out of range
RASMUSSEN H UNIT 1 - ENCANA - GYRO						Out of range
Regnier 1A-19H-B268 - Hz - Plan #3	200.0	200.0	30.0	29.3	45.889	CC, ES
Regnier 1A-19H-B268 - Hz - Plan #3	11,924.8	11,943.4	675.1	501.8	3.896	SF
Regnier 1B-19H-B268 - Hz - Plan #2	300.0	300.0	19.9	18.9	19.830	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	11,924.8	12,061.7	468.9	302.2	2.812	SF
Regnier 1C-19H-B2689 - Hz - Plan #4	400.0	400.0	10.1	8.7	7.456	CC, ES
Regnier 1C-19H-B2689 - Hz - Plan #4	11,924.8	11,845.3	244.4	84.0	1.524	SF
Regnier 1E-19H-B2687 - Hz - Plan #2	500.0	500.0	10.1	8.4	5.925	CC
Regnier 1E-19H-B2687 - Hz - Plan #2	600.0	600.0	10.4	8.4	5.083	ES
Regnier 1E-19H-B2687 - Hz - Plan #2	4,000.0	4,000.0	22.8	8.8	1.636	SF
Regnier 1F-19H-B2686 - Hz - Plan #2	500.0	500.0	20.1	18.4	11.851	CC
Regnier 1F-19H-B2686 - Hz - Plan #2	600.0	600.0	20.5	18.4	9.999	ES
Regnier 1F-19H-B2686 - Hz - Plan #2	11,924.8	11,854.7	460.0	290.4	2.712	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	500.0	500.0	29.9	28.2	17.612	CC
Regnier 1G-19H-B2685 - Hz - Plan #2	600.0	600.0	30.3	28.2	14.779	ES
Regnier 1G-19H-B2685 - Hz - Plan #2	11,600.0	11,568.6	586.8	426.0	3.648	SF
Regnier 1H-19H-B2684 - Hz - Plan #2	500.0	500.0	40.0	38.3	23.537	CC
Regnier 1H-19H-B2684 - Hz - Plan #2	600.0	600.0	40.4	38.3	19.695	ES
Regnier 1H-19H-B2684 - Hz - Plan #2	11,924.8	12,125.7	909.6	738.2	5.308	SF

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S19-T2N-R68W (Rasmussen/Regnier)						
Regnier 1I-19H-B2683 - Hz - Plan #3	500.0	500.0	50.1	48.4	29.462	CC, ES
Regnier 1I-19H-B2683 - Hz - Plan #3	700.0	696.2	57.6	55.2	24.103	SF
Regnier 1J-19H-B2682 - Hz - Plan #3	400.0	400.0	60.2	58.8	44.532	CC, ES
Regnier 1J-19H-B2682 - Hz - Plan #3	700.0	692.7	76.2	73.8	31.946	SF
Regnier 1K-19H-B2681 - Hz - Plan #2	300.0	300.0	70.0	68.9	69.823	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	700.0	688.0	97.8	95.4	41.139	SF
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	80.0	79.4	122.593	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	700.0	681.7	122.9	120.5	51.937	SF
REGNIER 4-4-19 - ENCANA - SURVEYS	9,683.0	7,490.6	741.9	678.5	11.702	CC
REGNIER 4-4-19 - ENCANA - SURVEYS	9,700.0	7,490.5	742.1	678.4	11.652	ES
REGNIER 4-4-19 - ENCANA - SURVEYS	9,800.0	7,490.2	751.1	685.7	11.487	SF
REGNIER FARMS 2 - ENCANA - GYRO	11,350.0	7,451.8	663.0	573.3	7.391	CC, ES
REGNIER FARMS 2 - ENCANA - GYRO	11,400.0	7,451.5	664.8	574.3	7.341	SF
REGNIER FARMS 31-19 - ENCANA - GYRO	7,891.4	7,428.7	566.7	534.3	17.473	CC
REGNIER FARMS 31-19 - ENCANA - GYRO	7,900.0	7,426.9	566.7	534.2	17.415	ES
REGNIER FARMS 31-19 - ENCANA - GYRO	8,000.0	7,426.1	577.0	543.0	17.004	SF
REGNIER FARMS 32-19 - ENCANA - GYRO	8,928.3	7,424.4	255.7	207.3	5.284	CC, ES, SF
REGNIER FARMS 33-19 - ENCANA - GYRO	10,248.0	7,433.4	352.1	281.5	4.983	CC, ES
REGNIER FARMS 33-19 - ENCANA - GYRO	10,300.0	7,433.3	355.9	284.4	4.974	SF
REGNIER FARMS 42-19 - ENCANA - GYRO						Out of range
REGNIER FARMS 43-19 - ENCANA - SURVEYS						Out of range
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	7,976.3	7,429.0	710.0	676.3	21.102	CC, ES
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,200.0	7,430.7	744.4	707.5	20.171	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 - GYRO						Out of range
ROSS 2-4-19 - ENCANA - SURVEYS						Out of range
ROSS 41-24 - ENCANA - GYRO						Out of range
ROSS 4-2-19 - ENCANA WELL - SURVEYS	8,571.0	7,784.7	878.3	830.8	18.495	CC, ES
ROSS 4-2-19 - ENCANA WELL - SURVEYS	8,800.0	7,781.4	907.7	856.5	17.738	SF
ROSS F 1 - ENCANA - GYRO						Out of range
ROSS G UNIT 1 - ENCANA - GYRO						Out of range
STROMQUIST 43-24 - ENCANA - NO SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Copy of 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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-92.79	-1.5	-29.9	30.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.79	-1.5	-29.9	30.0	29.7	0.30	98.635	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-92.79	-1.5	-29.9	30.0	29.3	0.65	45.889		
300.0	300.0	298.9	298.9	0.5	0.5	-92.69	-1.5	-31.6	31.7	30.7	1.00	31.568		
400.0	400.0	397.6	397.5	0.7	0.7	-92.44	-1.6	-36.7	36.9	35.5	1.37	26.892		
500.0	500.0	496.3	495.7	0.8	0.9	-92.16	-1.7	-45.1	45.3	43.6	1.76	25.765		
600.0	600.0	595.8	594.9	1.0	1.1	-5.94	-1.9	-54.5	54.4	52.3	2.04	26.639		
700.0	700.0	695.4	694.0	1.2	1.4	-5.82	-2.0	-63.8	63.4	61.0	2.39	26.540		
800.0	800.0	795.0	793.2	1.4	1.6	-5.73	-2.2	-73.2	72.5	69.7	2.74	26.467		
900.0	900.0	894.6	892.3	1.5	1.8	-5.66	-2.3	-82.5	81.5	78.4	3.09	26.410		
1,000.0	1,000.0	994.2	991.5	1.7	2.1	-5.60	-2.5	-91.9	90.5	87.1	3.43	26.365		
1,100.0	1,100.0	1,093.8	1,090.6	1.9	2.3	-5.55	-2.6	-101.3	99.6	95.8	3.78	26.329		
1,200.0	1,200.0	1,193.4	1,189.8	2.1	2.5	-5.51	-2.8	-110.6	108.6	104.5	4.13	26.298		
1,300.0	1,300.0	1,293.0	1,288.9	2.2	2.8	-5.48	-2.9	-120.0	117.7	113.2	4.48	26.273		
1,400.0	1,400.0	1,392.6	1,388.1	2.4	3.0	-5.45	-3.1	-129.4	126.7	121.9	4.83	26.251		
1,500.0	1,500.0	1,492.2	1,487.2	2.6	3.3	-5.43	-3.2	-138.7	135.7	130.6	5.17	26.232		
1,600.0	1,600.0	1,591.7	1,586.4	2.8	3.5	-5.40	-3.4	-148.1	144.8	139.3	5.52	26.216		
1,700.0	1,700.0	1,691.3	1,685.5	2.9	3.7	-5.39	-3.5	-157.4	153.8	148.0	5.87	26.201		
1,800.0	1,800.0	1,790.9	1,784.7	3.1	4.0	-5.37	-3.7	-166.8	162.9	156.6	6.22	26.188		
1,900.0	1,900.0	1,890.5	1,883.8	3.3	4.2	-5.35	-3.8	-176.2	171.9	165.3	6.57	26.177		
2,000.0	2,000.0	1,990.1	1,983.0	3.5	4.4	-5.34	-4.0	-185.5	180.9	174.0	6.92	26.166		
2,100.0	2,100.0	2,089.7	2,082.1	3.6	4.7	-5.33	-4.1	-194.9	190.0	182.7	7.26	26.157		
2,200.0	2,200.0	2,189.3	2,181.3	3.8	4.9	-5.32	-4.3	-204.2	199.0	191.4	7.61	26.148		
2,300.0	2,300.0	2,288.9	2,280.4	4.0	5.2	-5.31	-4.4	-213.6	208.1	200.1	7.96	26.141		
2,400.0	2,400.0	2,388.5	2,379.6	4.2	5.4	-5.30	-4.6	-223.0	217.1	208.8	8.31	26.133		
2,500.0	2,500.0	2,488.1	2,478.7	4.3	5.6	-5.29	-4.7	-232.3	226.1	217.5	8.66	26.127		
2,600.0	2,600.0	2,587.7	2,577.9	4.5	5.9	-5.28	-4.9	-241.7	235.2	226.2	9.00	26.121		
2,700.0	2,700.0	2,687.2	2,677.0	4.7	6.1	-5.27	-5.0	-251.1	244.2	234.9	9.35	26.115		
2,800.0	2,800.0	2,786.8	2,776.2	4.9	6.4	-5.27	-5.2	-260.4	253.3	243.6	9.70	26.110		
2,900.0	2,900.0	2,886.4	2,875.3	5.0	6.6	-5.26	-5.3	-269.8	262.3	252.3	10.05	26.105		
3,000.0	3,000.0	2,986.0	2,974.5	5.2	6.8	-5.25	-5.5	-279.1	271.3	260.9	10.40	26.101		
3,100.0	3,100.0	3,085.6	3,073.6	5.4	7.1	-5.25	-5.6	-288.5	280.4	269.6	10.74	26.097		
3,200.0	3,200.0	3,185.2	3,172.8	5.6	7.3	-5.24	-5.8	-297.9	289.4	278.3	11.09	26.093		
3,300.0	3,300.0	3,284.8	3,271.9	5.7	7.5	-5.24	-5.9	-307.2	298.5	287.0	11.44	26.089		
3,400.0	3,400.0	3,384.4	3,371.1	5.9	7.8	-5.23	-6.1	-316.6	307.5	295.7	11.79	26.086		
3,500.0	3,500.0	3,484.0	3,470.2	6.1	8.0	-5.23	-6.2	-325.9	316.5	304.4	12.14	26.082		
3,600.0	3,600.0	3,583.6	3,569.4	6.3	8.3	-5.22	-6.4	-335.3	325.6	313.1	12.48	26.079		
3,700.0	3,700.0	3,683.2	3,668.5	6.4	8.5	-5.22	-6.5	-344.7	334.6	321.8	12.83	26.076		
3,800.0	3,800.0	3,782.7	3,767.7	6.6	8.7	-5.22	-6.7	-354.0	343.7	330.5	13.18	26.074		
3,900.0	3,900.0	3,882.3	3,866.8	6.8	9.0	-5.21	-6.8	-363.4	352.7	339.2	13.53	26.071		
4,000.0	4,000.0	3,981.9	3,966.0	7.0	9.2	-5.21	-7.0	-372.7	361.7	347.9	13.88	26.068		
4,100.0	4,100.0	4,081.5	4,065.1	7.1	9.5	-5.21	-7.1	-382.1	370.8	356.6	14.22	26.066		
4,200.0	4,200.0	4,181.1	4,164.3	7.3	9.7	-5.20	-7.3	-391.5	379.8	365.3	14.57	26.064		
4,300.0	4,300.0	4,280.7	4,263.4	7.5	9.9	-5.20	-7.4	-400.8	388.9	373.9	14.92	26.062		
4,400.0	4,400.0	4,380.3	4,362.6	7.7	10.2	-5.20	-7.6	-410.2	397.9	382.6	15.27	26.060		
4,500.0	4,500.0	4,479.9	4,461.7	7.8	10.4	-5.19	-7.7	-419.6	406.9	391.3	15.62	26.058		
4,600.0	4,600.0	4,579.5	4,560.9	8.0	10.7	-5.19	-7.9	-428.9	416.0	400.0	15.97	26.056		
4,700.0	4,700.0	4,679.1	4,660.0	8.2	10.9	-5.19	-8.0	-438.3	425.0	408.7	16.31	26.054		
4,800.0	4,800.0	4,778.6	4,759.2	8.4	11.1	-5.19	-8.2	-447.6	434.1	417.4	16.66	26.052		
4,900.0	4,900.0	4,878.2	4,858.3	8.5	11.4	-5.19	-8.3	-457.0	443.1	426.1	17.01	26.051		
5,000.0	5,000.0	4,977.8	4,957.5	8.7	11.6	-5.18	-8.5	-466.4	452.1	434.8	17.36	26.049		
5,100.0	5,100.0	5,077.4	5,056.6	8.9	11.8	-5.18	-8.6	-475.7	461.2	443.5	17.71	26.048		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Copy of 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		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)						
5,200.0	5,200.0	5,177.0	5,155.8	9.1	12.1	-5.18	-8.8	-485.1	470.2	452.2	18.05	26.046		
5,300.0	5,300.0	5,276.6	5,254.9	9.2	12.3	-5.18	-8.9	-494.4	479.3	460.9	18.40	26.045		
5,400.0	5,400.0	5,376.2	5,354.1	9.4	12.6	-5.18	-9.1	-503.8	488.3	469.6	18.75	26.043		
5,500.0	5,500.0	5,475.8	5,453.2	9.6	12.8	-5.17	-9.2	-513.2	497.3	478.2	19.10	26.042		
5,600.0	5,600.0	5,575.4	5,552.4	9.8	13.0	-5.17	-9.4	-522.5	506.4	486.9	19.45	26.041		
5,700.0	5,700.0	5,675.0	5,651.5	9.9	13.3	-5.17	-9.6	-531.9	515.4	495.6	19.79	26.040		
5,800.0	5,800.0	5,774.6	5,750.7	10.1	13.5	-5.17	-9.7	-541.3	524.5	504.3	20.14	26.038		
5,900.0	5,900.0	5,874.1	5,849.8	10.3	13.8	-5.17	-9.9	-550.6	533.5	513.0	20.49	26.037		
6,000.0	6,000.0	5,973.7	5,949.0	10.5	14.0	-5.17	-10.0	-560.0	542.5	521.7	20.84	26.036		
6,100.0	6,100.0	6,073.3	6,048.1	10.6	14.2	-5.16	-10.2	-569.3	551.6	530.4	21.19	26.035		
6,200.0	6,200.0	6,172.9	6,147.3	10.8	14.5	-5.16	-10.3	-578.7	560.6	539.1	21.53	26.034		
6,300.0	6,300.0	6,272.5	6,246.4	11.0	14.7	-5.16	-10.5	-588.1	569.7	547.8	21.88	26.033		
6,400.0	6,400.0	6,372.1	6,345.6	11.2	15.0	-5.16	-10.6	-597.4	578.7	556.5	22.23	26.032		
6,500.0	6,500.0	6,471.7	6,444.7	11.3	15.2	-5.16	-10.8	-606.8	587.7	565.2	22.58	26.031		
6,600.0	6,600.0	6,571.3	6,543.9	11.5	15.4	-5.16	-10.9	-616.1	596.8	573.9	22.93	26.030		
6,700.0	6,700.0	6,670.9	6,643.0	11.7	15.7	-5.16	-11.1	-625.5	605.8	582.5	23.27	26.029		
6,800.0	6,799.8	6,770.1	6,741.8	11.9	15.9	86.79	-11.5	-634.8	614.8	591.1	23.62	26.023		
6,900.0	6,898.0	6,868.7	6,839.5	12.0	16.2	87.89	-21.0	-644.1	623.6	599.6	23.98	26.002		
7,000.0	6,992.8	6,968.6	6,936.1	12.2	16.4	88.29	-44.2	-653.2	632.2	607.8	24.39	25.923		
7,100.0	7,082.2	7,069.8	7,029.7	12.5	16.7	88.55	-81.3	-662.0	640.5	615.6	24.90	25.719		
7,200.0	7,164.6	7,172.4	7,118.4	12.9	17.0	88.77	-132.0	-670.4	648.2	622.6	25.60	25.322		
7,300.0	7,238.2	7,276.2	7,199.9	13.4	17.5	88.98	-195.8	-678.1	655.3	628.7	26.55	24.677		
7,400.0	7,301.8	7,381.4	7,272.2	14.0	18.0	89.17	-271.8	-684.9	661.4	633.6	27.83	23.767		
7,500.0	7,354.0	7,487.9	7,333.3	14.9	18.7	89.36	-358.7	-690.7	666.6	637.1	29.46	22.624		
7,600.0	7,393.9	7,595.4	7,381.3	15.8	19.5	89.55	-454.7	-695.2	670.6	639.2	31.46	21.318		
7,700.0	7,420.6	7,703.9	7,414.7	17.0	20.5	89.74	-557.8	-698.4	673.4	639.6	33.78	19.934		
7,800.0	7,433.7	7,813.2	7,432.3	18.2	21.7	89.91	-665.4	-700.0	674.9	638.5	36.38	18.554		
7,900.0	7,435.0	7,918.6	7,435.0	19.6	22.8	90.00	-770.8	-700.3	675.1	636.0	39.10	17.266		
8,000.0	7,435.0	8,018.6	7,435.0	20.9	24.0	90.00	-870.8	-700.3	675.1	633.2	41.88	16.120		
8,100.0	7,435.0	8,118.6	7,435.0	22.4	25.3	90.00	-970.8	-700.3	675.1	630.4	44.76	15.082		
8,200.0	7,435.0	8,218.6	7,435.0	23.9	26.6	90.00	-1,070.8	-700.3	675.1	627.4	47.73	14.145		
8,300.0	7,435.0	8,318.6	7,435.0	25.4	28.0	90.00	-1,170.8	-700.3	675.1	624.4	50.77	13.299		
8,400.0	7,435.0	8,418.6	7,435.0	26.9	29.4	90.00	-1,270.8	-700.3	675.1	621.3	53.86	12.535		
8,500.0	7,435.0	8,518.6	7,435.0	28.5	30.8	90.00	-1,370.8	-700.3	675.1	618.1	57.00	11.844		
8,600.0	7,435.0	8,618.6	7,435.0	30.1	32.3	90.00	-1,470.8	-700.3	675.1	614.9	60.18	11.218		
8,700.0	7,435.0	8,718.6	7,435.0	31.7	33.8	90.00	-1,570.8	-700.3	675.1	611.7	63.40	10.649		
8,800.0	7,435.0	8,818.6	7,435.0	33.3	35.3	90.00	-1,670.8	-700.3	675.1	608.5	66.64	10.130		
8,900.0	7,435.0	8,918.6	7,435.0	35.0	36.9	90.00	-1,770.8	-700.3	675.1	605.2	69.91	9.656		
9,000.0	7,435.0	9,018.6	7,435.0	36.6	38.5	90.00	-1,870.8	-700.3	675.1	601.9	73.21	9.222		
9,100.0	7,435.0	9,118.6	7,435.0	38.3	40.0	90.00	-1,970.8	-700.3	675.1	598.6	76.52	8.823		
9,200.0	7,435.0	9,218.6	7,435.0	39.9	41.6	90.00	-2,070.8	-700.3	675.1	595.3	79.85	8.455		
9,300.0	7,435.0	9,318.6	7,435.0	41.6	43.2	90.00	-2,170.8	-700.3	675.1	591.9	83.19	8.115		
9,400.0	7,435.0	9,418.6	7,435.0	43.3	44.8	90.00	-2,270.8	-700.3	675.1	588.6	86.55	7.800		
9,500.0	7,435.0	9,518.6	7,435.0	45.0	46.5	90.00	-2,370.8	-700.3	675.1	585.2	89.92	7.508		
9,600.0	7,435.0	9,618.6	7,435.0	46.7	48.1	90.00	-2,470.8	-700.3	675.1	581.8	93.30	7.236		
9,700.0	7,435.0	9,718.6	7,435.0	48.3	49.8	90.00	-2,570.8	-700.3	675.1	578.4	96.68	6.983		
9,800.0	7,435.0	9,818.6	7,435.0	50.0	51.4	90.00	-2,670.8	-700.3	675.1	575.0	100.08	6.746		
9,900.0	7,435.0	9,918.6	7,435.0	51.7	53.1	90.00	-2,770.8	-700.3	675.1	571.6	103.48	6.524		
10,000.0	7,435.0	10,018.6	7,435.0	53.5	54.7	90.00	-2,870.8	-700.3	675.1	568.2	106.89	6.316		
10,100.0	7,435.0	10,118.6	7,435.0	55.2	56.4	90.00	-2,970.8	-700.3	675.1	564.8	110.31	6.120		
10,200.0	7,435.0	10,218.6	7,435.0	56.9	58.1	90.00	-3,070.8	-700.3	675.1	561.4	113.73	5.936		
10,300.0	7,435.0	10,318.6	7,435.0	58.6	59.7	90.00	-3,170.8	-700.3	675.1	558.0	117.16	5.762		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Copy of 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,435.0	10,418.6	7,435.0	60.3	61.4	90.00	-3,270.8	-700.3	675.1	554.5	120.59	5.598	
10,500.0	7,435.0	10,518.6	7,435.0	62.0	63.1	90.00	-3,370.8	-700.3	675.1	551.1	124.03	5.443	
10,600.0	7,435.0	10,618.6	7,435.0	63.7	64.8	90.00	-3,470.8	-700.3	675.1	547.7	127.47	5.296	
10,700.0	7,435.0	10,718.6	7,435.0	65.5	66.5	90.00	-3,570.8	-700.3	675.1	544.2	130.91	5.157	
10,800.0	7,435.0	10,818.6	7,435.0	67.2	68.2	90.00	-3,670.8	-700.3	675.1	540.8	134.36	5.025	
10,900.0	7,435.0	10,918.6	7,435.0	68.9	69.9	90.00	-3,770.8	-700.3	675.1	537.3	137.81	4.899	
11,000.0	7,435.0	11,018.6	7,435.0	70.6	71.6	90.00	-3,870.8	-700.3	675.1	533.9	141.26	4.779	
11,100.0	7,435.0	11,118.6	7,435.0	72.4	73.3	90.00	-3,970.8	-700.3	675.1	530.4	144.71	4.665	
11,200.0	7,435.0	11,218.6	7,435.0	74.1	75.0	90.00	-4,070.8	-700.3	675.1	526.9	148.17	4.556	
11,300.0	7,435.0	11,318.6	7,435.0	75.8	76.7	90.00	-4,170.8	-700.3	675.1	523.5	151.63	4.452	
11,400.0	7,435.0	11,418.6	7,435.0	77.6	78.4	90.00	-4,270.8	-700.3	675.1	520.0	155.10	4.353	
11,500.0	7,435.0	11,518.6	7,435.0	79.3	80.1	90.00	-4,370.8	-700.3	675.1	516.6	158.56	4.258	
11,600.0	7,435.0	11,618.6	7,435.0	81.0	81.9	90.00	-4,470.8	-700.3	675.1	513.1	162.03	4.167	
11,700.0	7,435.0	11,718.6	7,435.0	82.8	83.6	90.00	-4,570.8	-700.3	675.1	509.6	165.49	4.079	
11,800.0	7,435.0	11,818.6	7,435.0	84.5	85.3	90.00	-4,670.8	-700.3	675.1	506.2	168.96	3.996	
11,900.0	7,435.0	11,918.6	7,435.0	86.2	87.0	90.00	-4,770.8	-700.3	675.1	502.7	172.44	3.915	
11,924.8	7,435.0	11,943.4	7,435.0	86.7	87.4	90.00	-4,795.5	-700.3	675.1	501.8	173.29	3.896 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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						
10,900.0	7,435.0	7,609.7	7,473.5	68.9	22.3	93.77	-4,676.5	-184.2	919.6	836.0	83.64	10.995						
11,000.0	7,435.0	7,608.7	7,472.5	70.6	22.3	93.41	-4,676.5	-184.2	821.3	735.9	85.40	9.618						
11,100.0	7,435.0	7,607.6	7,471.5	72.4	22.3	93.05	-4,676.5	-184.2	723.5	636.3	87.15	8.301						
11,200.0	7,435.0	7,606.6	7,470.5	74.1	22.3	92.68	-4,676.5	-184.2	626.3	537.4	88.91	7.044						
11,300.0	7,435.0	7,605.6	7,469.4	75.8	22.3	92.31	-4,676.5	-184.2	530.2	439.5	90.67	5.848						
11,400.0	7,435.0	7,604.6	7,468.4	77.6	22.3	91.94	-4,676.5	-184.2	435.8	343.4	92.42	4.716						
11,500.0	7,435.0	7,603.5	7,467.3	79.3	22.3	91.56	-4,676.5	-184.2	344.7	250.5	94.18	3.660						
11,600.0	7,435.0	7,602.5	7,466.3	81.0	22.3	91.18	-4,676.6	-184.2	260.1	164.2	95.93	2.711						
11,700.0	7,435.0	7,601.4	7,465.2	82.8	22.3	90.80	-4,676.6	-184.2	191.0	93.4	97.68	1.956						
11,800.0	7,435.0	7,600.3	7,464.1	84.5	22.3	90.41	-4,676.6	-184.2	159.2	59.8	99.42	1.601						
11,805.8	7,435.0	7,600.2	7,464.1	84.6	22.3	90.38	-4,676.6	-184.2	159.1	59.6	99.52	1.598 CC, ES, SF						
11,900.0	7,435.0	7,599.2	7,463.0	86.2	22.3	90.01	-4,676.6	-184.3	184.9	83.7	101.16	1.827						
11,924.8	7,435.0	7,598.9	7,462.8	86.7	22.3	89.92	-4,676.6	-184.3	198.6	97.0	101.60	1.955						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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)			
11,500.0	7,435.0	7,741.7	7,461.3	79.3	31.9	89.82	-5,177.1	-579.0	978.2	878.0	100.21	9.762	
11,600.0	7,435.0	7,741.8	7,461.4	81.0	31.9	89.83	-5,177.1	-579.0	897.6	795.7	101.94	8.805	
11,700.0	7,435.0	7,741.9	7,461.5	82.8	31.9	89.84	-5,177.1	-579.0	821.2	717.6	103.67	7.921	
11,800.0	7,435.0	7,742.0	7,461.5	84.5	31.9	89.85	-5,177.1	-579.0	750.4	645.0	105.41	7.119	
11,900.0	7,435.0	7,742.0	7,461.6	86.2	31.9	89.86	-5,177.1	-579.0	686.9	579.8	107.14	6.411	
11,924.8	7,435.0	7,742.1	7,461.6	86.7	31.9	89.86	-5,177.1	-579.0	672.6	565.0	107.57	6.252 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Rasmussen 3L-19H-M268 - 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		
7,000.0	6,992.8	12,005.2	7,341.0	12.2	85.6	74.85	-429.8	-887.8	995.4	907.7	87.73	11.346		
7,100.0	7,082.2	12,005.2	7,341.0	12.5	85.6	78.56	-429.8	-887.8	953.7	863.2	90.49	10.540		
7,200.0	7,164.6	12,005.2	7,341.0	12.9	85.6	81.61	-429.8	-887.8	918.5	825.8	92.69	9.910		
7,300.0	7,238.2	12,005.2	7,341.0	13.4	85.6	83.92	-429.8	-887.8	891.2	796.7	94.41	9.440		
7,400.0	7,301.8	12,005.2	7,341.0	14.0	85.6	85.42	-429.8	-887.8	873.1	777.3	95.79	9.115		
7,500.0	7,354.0	11,955.6	7,341.0	14.9	84.8	84.53	-479.2	-882.3	863.7	768.1	95.65	9.030		
7,600.0	7,393.9	11,864.5	7,341.0	15.8	83.4	82.67	-569.7	-872.2	856.4	761.6	94.74	9.039		
7,700.0	7,420.6	11,768.8	7,341.0	17.0	81.8	81.49	-664.8	-861.7	848.7	754.5	94.22	9.007		
7,800.0	7,433.7	11,673.2	7,341.0	18.2	80.3	81.27	-759.8	-851.1	839.6	745.4	94.18	8.915		
7,900.0	7,435.0	11,583.8	7,341.0	19.6	78.8	81.44	-848.7	-841.9	829.6	735.4	94.20	8.807		
8,000.0	7,435.0	11,500.0	7,341.0	20.9	77.5	81.36	-932.2	-834.6	821.0	726.9	94.13	8.722		
8,100.0	7,435.0	11,409.2	7,341.0	22.4	76.0	81.29	-1,022.8	-828.0	813.8	719.9	93.99	8.659		
8,200.0	7,435.0	11,321.6	7,341.0	23.9	74.6	81.24	-1,110.2	-823.0	808.2	714.3	93.95	8.603		
8,300.0	7,435.0	11,233.9	7,341.0	25.4	73.2	81.20	-1,197.8	-819.3	804.1	710.1	93.95	8.559		
8,400.0	7,435.0	11,146.1	7,341.0	26.9	71.8	81.17	-1,285.6	-817.0	801.5	707.5	93.97	8.529		
8,500.0	7,435.0	11,058.3	7,341.0	28.5	70.4	81.16	-1,373.5	-816.0	800.4	706.4	94.02	8.513		
8,522.2	7,435.0	11,038.8	7,341.0	28.9	70.0	81.16	-1,392.9	-816.0	800.4	706.3	94.04	8.511 CC, ES		
8,600.0	7,435.0	10,970.4	7,341.0	30.1	68.9	81.16	-1,461.3	-816.4	800.8	706.7	94.10	8.510 SF		
8,700.0	7,435.0	10,874.8	7,341.0	31.7	67.4	81.18	-1,556.9	-818.0	802.4	708.4	94.07	8.530		
8,800.0	7,435.0	10,774.8	7,341.0	33.3	65.7	81.20	-1,656.8	-819.8	804.2	710.2	93.98	8.557		
8,900.0	7,435.0	10,674.9	7,341.0	35.0	64.1	81.22	-1,756.8	-821.5	805.9	712.0	93.91	8.582		
9,000.0	7,435.0	10,574.9	7,341.0	36.6	62.5	81.24	-1,856.8	-823.3	807.6	713.8	93.84	8.606		
9,100.0	7,435.0	10,474.9	7,341.0	38.3	60.9	81.26	-1,956.8	-825.0	809.4	715.6	93.79	8.629		
9,200.0	7,435.0	10,374.9	7,341.0	39.9	59.3	81.28	-2,056.7	-826.8	811.1	717.4	93.76	8.651		
9,300.0	7,435.0	10,274.9	7,341.0	41.6	57.7	81.30	-2,156.7	-828.5	812.8	719.1	93.73	8.672		
9,400.0	7,435.0	10,174.9	7,341.0	43.3	56.2	81.31	-2,256.7	-830.3	814.6	720.9	93.71	8.693		
9,500.0	7,435.0	10,075.0	7,341.0	45.0	54.6	81.33	-2,356.6	-832.0	816.3	722.6	93.70	8.712		
9,600.0	7,435.0	9,975.0	7,341.0	46.7	53.1	81.35	-2,456.6	-833.8	818.0	724.3	93.70	8.731		
9,700.0	7,435.0	9,875.0	7,341.0	48.3	51.5	81.37	-2,556.6	-835.5	819.8	726.1	93.70	8.749		
9,800.0	7,435.0	9,775.0	7,341.0	50.0	50.0	81.39	-2,656.5	-837.3	821.5	727.8	93.72	8.766		
9,900.0	7,435.0	9,675.0	7,341.0	51.7	48.5	81.41	-2,756.5	-839.1	823.2	729.5	93.75	8.782		
10,000.0	7,435.0	9,575.0	7,341.0	53.5	47.0	81.42	-2,856.5	-840.8	825.0	731.2	93.78	8.797		
10,100.0	7,435.0	9,475.0	7,341.0	55.2	45.5	81.44	-2,956.4	-842.6	826.7	732.9	93.83	8.811		
10,200.0	7,435.0	9,375.1	7,341.0	56.9	44.1	81.46	-3,056.4	-844.3	828.4	734.6	93.88	8.824		
10,300.0	7,435.0	9,275.1	7,341.0	58.6	42.6	81.48	-3,156.4	-846.1	830.2	736.2	93.95	8.837		
10,400.0	7,435.0	9,175.1	7,341.0	60.3	41.2	81.50	-3,256.4	-847.8	831.9	737.9	94.03	8.848		
10,500.0	7,435.0	9,075.1	7,341.0	62.0	39.9	81.51	-3,356.3	-849.6	833.7	739.5	94.12	8.857		
10,600.0	7,435.0	8,975.1	7,341.0	63.7	38.5	81.53	-3,456.3	-851.3	835.4	741.2	94.23	8.865		
10,700.0	7,435.0	8,875.1	7,341.0	65.5	37.2	81.55	-3,556.3	-853.1	837.1	742.8	94.36	8.872		
10,800.0	7,435.0	8,775.2	7,341.0	67.2	35.9	81.57	-3,656.2	-854.8	838.9	744.4	94.50	8.877		
10,900.0	7,435.0	8,675.2	7,341.0	68.9	34.7	81.58	-3,756.2	-856.6	840.6	745.9	94.67	8.879		
11,000.0	7,435.0	8,575.2	7,341.0	70.6	33.5	81.60	-3,856.2	-858.3	842.3	747.5	94.86	8.879		
11,100.0	7,435.0	8,475.2	7,341.0	72.4	32.4	81.62	-3,956.1	-860.1	844.1	749.0	95.09	8.876		
11,200.0	7,435.0	8,375.2	7,341.0	74.1	31.3	81.64	-4,056.1	-861.8	845.8	750.4	95.36	8.870		
11,300.0	7,435.0	8,275.2	7,341.0	75.8	30.3	81.65	-4,156.1	-863.6	847.5	751.9	95.67	8.859		
11,400.0	7,435.0	8,175.2	7,341.0	77.6	29.4	81.67	-4,256.0	-865.4	849.3	753.2	96.03	8.844		
11,500.0	7,435.0	8,075.3	7,341.0	79.3	28.5	81.69	-4,356.0	-867.1	851.0	754.5	96.46	8.822		
11,600.0	7,435.0	7,975.3	7,341.0	81.0	27.8	81.71	-4,456.0	-868.9	852.7	755.8	96.98	8.793		
11,700.0	7,435.0	7,875.3	7,341.0	82.8	27.1	81.72	-4,556.0	-870.6	854.5	756.9	97.59	8.756		
11,800.0	7,435.0	7,780.3	7,341.0	84.5	26.5	81.74	-4,650.9	-872.3	856.2	757.9	98.36	8.705		
11,900.0	7,435.0	7,709.8	7,336.7	86.2	26.2	81.48	-4,721.3	-874.3	860.0	760.6	99.41	8.652		
11,924.8	7,435.0	7,700.0	7,335.5	86.7	26.1	81.40	-4,730.9	-874.7	861.6	761.9	99.73	8.640		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3													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)						
0.0	0.0	0.0	0.0	0.0	0.0	-92.79	-1.5	-29.9	30.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.79	-1.5	-29.9	30.0	29.7		0.30	98.635	
200.0	200.0	200.0	200.0	0.3	0.3	-92.79	-1.5	-29.9	30.0	29.3		0.65	45.889 CC, ES	
300.0	300.0	298.9	298.9	0.5	0.5	-92.69	-1.5	-31.6	31.7	30.7		1.00	31.568	
400.0	400.0	397.6	397.5	0.7	0.7	-92.44	-1.6	-36.7	36.9	35.5		1.37	26.892	
500.0	500.0	496.3	495.7	0.8	0.9	-92.16	-1.7	-45.1	45.3	43.6		1.76	25.765	
600.0	600.0	595.8	594.9	1.0	1.1	-5.94	-1.9	-54.5	54.4	52.3		2.04	26.639	
700.0	700.0	695.4	694.0	1.2	1.4	-5.82	-2.0	-63.8	63.4	61.0		2.39	26.540	
800.0	800.0	795.0	793.2	1.4	1.6	-5.73	-2.2	-73.2	72.5	69.7		2.74	26.467	
900.0	900.0	894.6	892.3	1.5	1.8	-5.66	-2.3	-82.5	81.5	78.4		3.09	26.410	
1,000.0	1,000.0	994.2	991.5	1.7	2.1	-5.60	-2.5	-91.9	90.5	87.1		3.43	26.365	
1,100.0	1,100.0	1,093.8	1,090.6	1.9	2.3	-5.55	-2.6	-101.3	99.6	95.8		3.78	26.329	
1,200.0	1,200.0	1,193.4	1,189.8	2.1	2.5	-5.51	-2.8	-110.6	108.6	104.5		4.13	26.298	
1,300.0	1,300.0	1,293.0	1,288.9	2.2	2.8	-5.48	-2.9	-120.0	117.7	113.2		4.48	26.273	
1,400.0	1,400.0	1,392.6	1,388.1	2.4	3.0	-5.45	-3.1	-129.4	126.7	121.9		4.83	26.251	
1,500.0	1,500.0	1,492.2	1,487.2	2.6	3.3	-5.43	-3.2	-138.7	135.7	130.6		5.17	26.232	
1,600.0	1,600.0	1,591.7	1,586.4	2.8	3.5	-5.40	-3.4	-148.1	144.8	139.3		5.52	26.216	
1,700.0	1,700.0	1,691.3	1,685.5	2.9	3.7	-5.38	-3.5	-157.4	153.8	148.0		5.87	26.201	
1,800.0	1,800.0	1,790.9	1,784.7	3.1	4.0	-5.37	-3.7	-166.8	162.9	156.6		6.22	26.188	
1,900.0	1,900.0	1,890.5	1,883.8	3.3	4.2	-5.35	-3.8	-176.2	171.9	165.3		6.57	26.177	
2,000.0	2,000.0	1,990.1	1,983.0	3.5	4.4	-5.34	-4.0	-185.5	180.9	174.0		6.92	26.166	
2,100.0	2,100.0	2,089.7	2,082.1	3.6	4.7	-5.33	-4.1	-194.9	190.0	182.7		7.26	26.157	
2,200.0	2,200.0	2,189.3	2,181.3	3.8	4.9	-5.32	-4.3	-204.2	199.0	191.4		7.61	26.148	
2,300.0	2,300.0	2,288.9	2,280.4	4.0	5.2	-5.31	-4.4	-213.6	208.1	200.1		7.96	26.141	
2,400.0	2,400.0	2,388.5	2,379.6	4.2	5.4	-5.30	-4.6	-223.0	217.1	208.8		8.31	26.133	
2,500.0	2,500.0	2,488.1	2,478.7	4.3	5.6	-5.29	-4.7	-232.3	226.1	217.5		8.66	26.127	
2,600.0	2,600.0	2,587.7	2,577.9	4.5	5.9	-5.28	-4.9	-241.7	235.2	226.2		9.00	26.121	
2,700.0	2,700.0	2,687.2	2,677.0	4.7	6.1	-5.27	-5.0	-251.1	244.2	234.9		9.35	26.115	
2,800.0	2,800.0	2,786.8	2,776.2	4.9	6.4	-5.26	-5.2	-260.4	253.3	243.6		9.70	26.110	
2,900.0	2,900.0	2,886.4	2,875.3	5.0	6.6	-5.26	-5.3	-269.8	262.3	252.3		10.05	26.105	
3,000.0	3,000.0	2,986.0	2,974.5	5.2	6.8	-5.25	-5.5	-279.1	271.3	260.9		10.40	26.101	
3,100.0	3,100.0	3,085.6	3,073.6	5.4	7.1	-5.25	-5.6	-288.5	280.4	269.6		10.74	26.097	
3,200.0	3,200.0	3,185.2	3,172.8	5.6	7.3	-5.24	-5.8	-297.9	289.4	278.3		11.09	26.093	
3,300.0	3,300.0	3,284.8	3,271.9	5.7	7.5	-5.24	-5.9	-307.2	298.5	287.0		11.44	26.089	
3,400.0	3,400.0	3,384.4	3,371.1	5.9	7.8	-5.23	-6.1	-316.6	307.5	295.7		11.79	26.086	
3,500.0	3,500.0	3,484.0	3,470.2	6.1	8.0	-5.23	-6.2	-325.9	316.5	304.4		12.14	26.082	
3,600.0	3,600.0	3,583.6	3,569.4	6.3	8.3	-5.22	-6.4	-335.3	325.6	313.1		12.48	26.079	
3,700.0	3,700.0	3,683.2	3,668.5	6.4	8.5	-5.22	-6.5	-344.7	334.6	321.8		12.83	26.076	
3,800.0	3,800.0	3,782.7	3,767.7	6.6	8.7	-5.22	-6.7	-354.0	343.7	330.5		13.18	26.074	
3,900.0	3,900.0	3,882.3	3,866.8	6.8	9.0	-5.21	-6.8	-363.4	352.7	339.2		13.53	26.071	
4,000.0	4,000.0	3,981.9	3,966.0	7.0	9.2	-5.21	-7.0	-372.7	361.7	347.9		13.88	26.068	
4,100.0	4,100.0	4,081.5	4,065.1	7.1	9.5	-5.21	-7.1	-382.1	370.8	356.6		14.22	26.066	
4,200.0	4,200.0	4,181.1	4,164.3	7.3	9.7	-5.20	-7.3	-391.5	379.8	365.3		14.57	26.064	
4,300.0	4,300.0	4,280.7	4,263.4	7.5	9.9	-5.20	-7.4	-400.8	388.9	373.9		14.92	26.062	
4,400.0	4,400.0	4,380.3	4,362.6	7.7	10.2	-5.20	-7.6	-410.2	397.9	382.6		15.27	26.060	
4,500.0	4,500.0	4,479.9	4,461.7	7.8	10.4	-5.19	-7.7	-419.6	406.9	391.3		15.62	26.058	
4,600.0	4,600.0	4,579.5	4,560.9	8.0	10.7	-5.19	-7.9	-428.9	416.0	400.0		15.97	26.056	
4,700.0	4,700.0	4,679.1	4,660.0	8.2	10.9	-5.19	-8.0	-438.3	425.0	408.7		16.31	26.054	
4,800.0	4,800.0	4,778.6	4,759.2	8.4	11.1	-5.19	-8.2	-447.6	434.1	417.4		16.66	26.052	
4,900.0	4,900.0	4,878.2	4,858.3	8.5	11.4	-5.19	-8.3	-457.0	443.1	426.1		17.01	26.051	
5,000.0	5,000.0	4,977.8	4,957.5	8.7	11.6	-5.18	-8.5	-466.4	452.1	434.8		17.36	26.049	
5,100.0	5,100.0	5,077.4	5,056.6	8.9	11.8	-5.18	-8.6	-475.7	461.2	443.5		17.71	26.048	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3													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		
5,200.0	5,200.0	5,177.0	5,155.8	9.1	12.1	-5.18	-8.8	-485.1	470.2	452.2	18.05	26.046		
5,300.0	5,300.0	5,276.6	5,254.9	9.2	12.3	-5.18	-8.9	-494.4	479.3	460.9	18.40	26.045		
5,400.0	5,400.0	5,376.2	5,354.1	9.4	12.6	-5.18	-9.1	-503.8	488.3	469.6	18.75	26.043		
5,500.0	5,500.0	5,475.8	5,453.2	9.6	12.8	-5.17	-9.2	-513.2	497.3	478.2	19.10	26.042		
5,600.0	5,600.0	5,575.4	5,552.4	9.8	13.0	-5.17	-9.4	-522.5	506.4	486.9	19.45	26.041		
5,700.0	5,700.0	5,675.0	5,651.5	9.9	13.3	-5.17	-9.5	-531.9	515.4	495.6	19.79	26.040		
5,800.0	5,800.0	5,774.6	5,750.7	10.1	13.5	-5.17	-9.7	-541.3	524.5	504.3	20.14	26.038		
5,900.0	5,900.0	5,874.1	5,849.8	10.3	13.8	-5.17	-9.8	-550.6	533.5	513.0	20.49	26.037		
6,000.0	6,000.0	5,973.7	5,949.0	10.5	14.0	-5.17	-10.0	-560.0	542.5	521.7	20.84	26.036		
6,100.0	6,100.0	6,073.3	6,048.1	10.6	14.2	-5.16	-10.2	-569.3	551.6	530.4	21.19	26.035		
6,200.0	6,200.0	6,172.9	6,147.3	10.8	14.5	-5.16	-10.3	-578.7	560.6	539.1	21.53	26.034		
6,300.0	6,300.0	6,272.5	6,246.4	11.0	14.7	-5.16	-10.5	-588.1	569.7	547.8	21.88	26.033		
6,400.0	6,400.0	6,372.1	6,345.6	11.2	15.0	-5.16	-10.6	-597.4	578.7	556.5	22.23	26.032		
6,500.0	6,500.0	6,471.7	6,444.7	11.3	15.2	-5.16	-10.8	-606.8	587.7	565.2	22.58	26.031		
6,600.0	6,600.0	6,571.3	6,543.9	11.5	15.4	-5.16	-10.9	-616.1	596.8	573.9	22.93	26.030		
6,700.0	6,700.0	6,670.9	6,643.0	11.7	15.7	-5.16	-11.1	-625.5	605.8	582.5	23.27	26.029		
6,800.0	6,799.8	6,770.1	6,741.8	11.9	15.9	86.79	-11.5	-634.8	614.8	591.1	23.62	26.023		
6,900.0	6,898.0	6,868.7	6,839.5	12.0	16.2	87.89	-21.0	-644.1	623.6	599.6	23.98	26.002		
7,000.0	6,992.8	6,968.6	6,936.1	12.2	16.4	88.29	-44.2	-653.2	632.2	607.8	24.39	25.923		
7,100.0	7,082.2	7,069.8	7,029.7	12.5	16.7	88.56	-81.3	-662.0	640.5	615.6	24.90	25.719		
7,200.0	7,164.6	7,172.4	7,118.4	12.9	17.0	88.77	-132.0	-670.4	648.2	622.6	25.60	25.322		
7,300.0	7,238.2	7,276.2	7,199.9	13.4	17.5	88.98	-195.8	-678.1	655.3	628.7	26.55	24.677		
7,400.0	7,301.8	7,381.4	7,272.2	14.0	18.0	89.17	-271.8	-684.9	661.4	633.6	27.83	23.767		
7,500.0	7,354.0	7,487.9	7,333.3	14.9	18.7	89.36	-358.7	-690.7	666.6	637.1	29.46	22.624		
7,600.0	7,393.9	7,595.4	7,381.3	15.8	19.5	89.55	-454.7	-695.2	670.6	639.2	31.46	21.318		
7,700.0	7,420.6	7,703.9	7,414.7	17.0	20.5	89.74	-557.8	-698.4	673.4	639.6	33.78	19.934		
7,800.0	7,433.7	7,813.2	7,432.3	18.2	21.7	89.91	-665.4	-700.0	674.9	638.5	36.38	18.554		
7,900.0	7,435.0	7,918.6	7,435.0	19.6	22.8	90.00	-770.8	-700.3	675.1	636.0	39.10	17.266		
8,000.0	7,435.0	8,018.6	7,435.0	20.9	24.0	90.00	-870.8	-700.3	675.1	633.2	41.88	16.120		
8,100.0	7,435.0	8,118.6	7,435.0	22.4	25.3	90.00	-970.8	-700.3	675.1	630.4	44.76	15.082		
8,200.0	7,435.0	8,218.6	7,435.0	23.9	26.6	90.00	-1,070.8	-700.3	675.1	627.4	47.73	14.145		
8,300.0	7,435.0	8,318.6	7,435.0	25.4	28.0	90.00	-1,170.8	-700.3	675.1	624.4	50.77	13.299		
8,400.0	7,435.0	8,418.6	7,435.0	26.9	29.4	90.00	-1,270.8	-700.3	675.1	621.3	53.86	12.535		
8,500.0	7,435.0	8,518.6	7,435.0	28.5	30.8	90.00	-1,370.8	-700.3	675.1	618.1	57.00	11.844		
8,600.0	7,435.0	8,618.6	7,435.0	30.1	32.3	90.00	-1,470.8	-700.3	675.1	614.9	60.18	11.218		
8,700.0	7,435.0	8,718.6	7,435.0	31.7	33.8	90.00	-1,570.8	-700.3	675.1	611.7	63.40	10.649		
8,800.0	7,435.0	8,818.6	7,435.0	33.3	35.3	90.00	-1,670.8	-700.3	675.1	608.5	66.64	10.130		
8,900.0	7,435.0	8,918.6	7,435.0	35.0	36.9	90.00	-1,770.8	-700.3	675.1	605.2	69.91	9.656		
9,000.0	7,435.0	9,018.6	7,435.0	36.6	38.5	90.00	-1,870.8	-700.3	675.1	601.9	73.21	9.222		
9,100.0	7,435.0	9,118.6	7,435.0	38.3	40.0	90.00	-1,970.8	-700.3	675.1	598.6	76.52	8.823		
9,200.0	7,435.0	9,218.6	7,435.0	39.9	41.6	90.00	-2,070.8	-700.3	675.1	595.3	79.85	8.455		
9,300.0	7,435.0	9,318.6	7,435.0	41.6	43.2	90.00	-2,170.8	-700.3	675.1	591.9	83.19	8.115		
9,400.0	7,435.0	9,418.6	7,435.0	43.3	44.8	90.00	-2,270.8	-700.3	675.1	588.6	86.55	7.800		
9,500.0	7,435.0	9,518.6	7,435.0	45.0	46.5	90.00	-2,370.8	-700.3	675.1	585.2	89.92	7.508		
9,600.0	7,435.0	9,618.6	7,435.0	46.7	48.1	90.00	-2,470.8	-700.3	675.1	581.8	93.30	7.236		
9,700.0	7,435.0	9,718.6	7,435.0	48.3	49.8	90.00	-2,570.8	-700.3	675.1	578.4	96.68	6.983		
9,800.0	7,435.0	9,818.6	7,435.0	50.0	51.4	90.00	-2,670.8	-700.3	675.1	575.0	100.08	6.746		
9,900.0	7,435.0	9,918.6	7,435.0	51.7	53.1	90.00	-2,770.8	-700.3	675.1	571.6	103.48	6.524		
10,000.0	7,435.0	10,018.6	7,435.0	53.5	54.7	90.00	-2,870.8	-700.3	675.1	568.2	106.89	6.316		
10,100.0	7,435.0	10,118.6	7,435.0	55.2	56.4	90.00	-2,970.8	-700.3	675.1	564.8	110.31	6.120		
10,200.0	7,435.0	10,218.6	7,435.0	56.9	58.1	90.00	-3,070.8	-700.3	675.1	561.4	113.73	5.936		
10,300.0	7,435.0	10,318.6	7,435.0	58.6	59.7	90.00	-3,170.8	-700.3	675.1	558.0	117.16	5.762		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3												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
10,400.0	7,435.0	10,418.6	7,435.0	60.3	61.4	90.00	-3,270.8	-700.3	675.1	554.5	120.59	5.598	
10,500.0	7,435.0	10,518.6	7,435.0	62.0	63.1	90.00	-3,370.8	-700.3	675.1	551.1	124.03	5.443	
10,600.0	7,435.0	10,618.6	7,435.0	63.7	64.8	90.00	-3,470.8	-700.3	675.1	547.7	127.47	5.296	
10,700.0	7,435.0	10,718.6	7,435.0	65.5	66.5	90.00	-3,570.8	-700.3	675.1	544.2	130.91	5.157	
10,800.0	7,435.0	10,818.6	7,435.0	67.2	68.2	90.00	-3,670.8	-700.3	675.1	540.8	134.36	5.025	
10,900.0	7,435.0	10,918.6	7,435.0	68.9	69.9	90.00	-3,770.8	-700.3	675.1	537.3	137.81	4.899	
11,000.0	7,435.0	11,018.6	7,435.0	70.6	71.6	90.00	-3,870.8	-700.3	675.1	533.9	141.26	4.779	
11,100.0	7,435.0	11,118.6	7,435.0	72.4	73.3	90.00	-3,970.8	-700.3	675.1	530.4	144.71	4.665	
11,200.0	7,435.0	11,218.6	7,435.0	74.1	75.0	90.00	-4,070.8	-700.3	675.1	526.9	148.17	4.556	
11,300.0	7,435.0	11,318.6	7,435.0	75.8	76.7	90.00	-4,170.8	-700.3	675.1	523.5	151.63	4.452	
11,400.0	7,435.0	11,418.6	7,435.0	77.6	78.4	90.00	-4,270.8	-700.3	675.1	520.0	155.10	4.353	
11,500.0	7,435.0	11,518.6	7,435.0	79.3	80.1	90.00	-4,370.8	-700.3	675.1	516.6	158.56	4.258	
11,600.0	7,435.0	11,618.6	7,435.0	81.0	81.9	90.00	-4,470.8	-700.3	675.1	513.1	162.03	4.167	
11,700.0	7,435.0	11,718.6	7,435.0	82.8	83.6	90.00	-4,570.8	-700.3	675.1	509.6	165.49	4.079	
11,800.0	7,435.0	11,818.6	7,435.0	84.5	85.3	90.00	-4,670.8	-700.3	675.1	506.2	168.96	3.996	
11,900.0	7,435.0	11,918.6	7,435.0	86.2	87.0	90.00	-4,770.8	-700.3	675.1	502.7	172.44	3.915	
11,924.8	7,435.0	11,943.4	7,435.0	86.7	87.4	90.00	-4,795.5	-700.3	675.1	501.8	173.29	3.896 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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			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)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-92.09	-0.7	-19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	-92.09	-0.7	-19.9	19.9	19.6	0.30	65.416		
200.0	200.0	200.0	200.0	0.3	0.3	-92.09	-0.7	-19.9	19.9	19.2	0.65	30.434		
300.0	300.0	300.0	300.0	0.5	0.5	-92.09	-0.7	-19.9	19.9	18.9	1.00	19.830 CC, ES		
400.0	400.0	399.3	399.3	0.7	0.7	-91.99	-0.7	-21.6	21.6	20.2	1.35	15.971		
500.0	500.0	498.5	498.3	0.8	0.9	-91.77	-0.8	-26.7	26.7	25.0	1.71	15.601		
600.0	600.0	598.3	597.9	1.0	1.1	-5.61	-0.9	-33.0	32.7	30.7	2.05	15.999		
700.0	700.0	698.1	697.5	1.2	1.3	-5.53	-1.0	-39.3	38.7	36.3	2.39	16.165		
800.0	800.0	797.9	797.2	1.4	1.5	-5.48	-1.1	-45.7	44.7	41.9	2.74	16.288		
900.0	900.0	897.7	896.8	1.5	1.7	-5.43	-1.2	-52.0	50.7	47.6	3.09	16.384		
1,000.0	1,000.0	997.6	996.4	1.7	1.9	-5.40	-1.3	-58.3	56.6	53.2	3.44	16.460		
1,100.0	1,100.0	1,097.4	1,096.0	1.9	2.1	-5.37	-1.4	-64.6	62.6	58.8	3.79	16.523		
1,200.0	1,200.0	1,197.2	1,195.6	2.1	2.3	-5.35	-1.5	-71.0	68.6	64.4	4.14	16.574		
1,300.0	1,300.0	1,297.0	1,295.3	2.2	2.5	-5.33	-1.6	-77.3	74.6	70.1	4.49	16.618		
1,400.0	1,400.0	1,396.9	1,394.9	2.4	2.7	-5.31	-1.7	-83.6	80.5	75.7	4.84	16.656		
1,500.0	1,500.0	1,496.7	1,494.5	2.6	2.9	-5.30	-1.8	-89.9	86.5	81.3	5.18	16.688		
1,600.0	1,600.0	1,596.5	1,594.1	2.8	3.1	-5.28	-1.9	-96.3	92.5	87.0	5.53	16.717		
1,700.0	1,700.0	1,696.3	1,693.8	2.9	3.3	-5.27	-2.0	-102.6	98.5	92.6	5.88	16.742		
1,800.0	1,800.0	1,796.1	1,793.4	3.1	3.5	-5.26	-2.0	-108.9	104.4	98.2	6.23	16.764		
1,900.0	1,900.0	1,896.0	1,893.0	3.3	3.7	-5.25	-2.1	-115.2	110.4	103.8	6.58	16.784		
2,000.0	2,000.0	1,995.8	1,992.6	3.5	3.9	-5.25	-2.2	-121.6	116.4	109.5	6.93	16.802		
2,100.0	2,100.0	2,095.6	2,092.2	3.6	4.1	-5.24	-2.3	-127.9	122.4	115.1	7.28	16.818		
2,200.0	2,200.0	2,195.4	2,191.9	3.8	4.3	-5.23	-2.4	-134.2	128.3	120.7	7.62	16.832		
2,300.0	2,300.0	2,295.2	2,291.5	4.0	4.5	-5.23	-2.5	-140.5	134.3	126.3	7.97	16.846		
2,400.0	2,400.0	2,395.1	2,391.1	4.2	4.7	-5.22	-2.6	-146.9	140.3	132.0	8.32	16.858		
2,500.0	2,500.0	2,494.9	2,490.7	4.3	4.9	-5.22	-2.7	-153.2	146.3	137.6	8.67	16.869		
2,600.0	2,600.0	2,594.7	2,590.3	4.5	5.1	-5.21	-2.8	-159.5	152.2	143.2	9.02	16.880		
2,700.0	2,700.0	2,694.5	2,690.0	4.7	5.4	-5.21	-2.9	-165.8	158.2	148.8	9.37	16.889		
2,800.0	2,800.0	2,794.4	2,789.6	4.9	5.6	-5.20	-3.0	-172.2	164.2	154.5	9.72	16.898		
2,900.0	2,900.0	2,894.2	2,889.2	5.0	5.8	-5.20	-3.1	-178.5	170.2	160.1	10.07	16.907		
3,000.0	3,000.0	2,994.0	2,988.8	5.2	6.0	-5.20	-3.2	-184.8	176.1	165.7	10.41	16.915		
3,100.0	3,100.0	3,093.8	3,088.4	5.4	6.2	-5.19	-3.3	-191.1	182.1	171.4	10.76	16.922		
3,200.0	3,200.0	3,193.6	3,188.1	5.6	6.4	-5.19	-3.4	-197.5	188.1	177.0	11.11	16.929		
3,300.0	3,300.0	3,293.5	3,287.7	5.7	6.6	-5.19	-3.5	-203.8	194.1	182.6	11.46	16.935		
3,400.0	3,400.0	3,393.3	3,387.3	5.9	6.8	-5.19	-3.5	-210.1	200.0	188.2	11.81	16.941		
3,500.0	3,500.0	3,493.1	3,486.9	6.1	7.0	-5.18	-3.6	-216.4	206.0	193.9	12.16	16.947		
3,600.0	3,600.0	3,592.9	3,586.5	6.3	7.2	-5.18	-3.7	-222.8	212.0	199.5	12.51	16.952		
3,700.0	3,700.0	3,692.7	3,686.2	6.4	7.4	-5.18	-3.8	-229.1	218.0	205.1	12.85	16.957		
3,800.0	3,800.0	3,792.6	3,785.8	6.6	7.6	-5.18	-3.9	-235.4	223.9	210.7	13.20	16.962		
3,900.0	3,900.0	3,892.4	3,885.4	6.8	7.8	-5.18	-4.0	-241.7	229.9	216.4	13.55	16.967		
4,000.0	4,000.0	3,992.2	3,985.0	7.0	8.0	-5.17	-4.1	-248.1	235.9	222.0	13.90	16.971		
4,100.0	4,100.0	4,092.0	4,084.6	7.1	8.2	-5.17	-4.2	-254.4	241.9	227.6	14.25	16.975		
4,200.0	4,200.0	4,191.8	4,184.3	7.3	8.4	-5.17	-4.3	-260.7	247.8	233.2	14.60	16.979		
4,300.0	4,300.0	4,291.7	4,283.9	7.5	8.7	-5.17	-4.4	-267.0	253.8	238.9	14.95	16.983		
4,400.0	4,400.0	4,391.5	4,383.5	7.7	8.9	-5.17	-4.5	-273.4	259.8	244.5	15.29	16.986		
4,500.0	4,500.0	4,491.3	4,483.1	7.8	9.1	-5.17	-4.6	-279.7	265.8	250.1	15.64	16.990		
4,600.0	4,600.0	4,591.1	4,582.8	8.0	9.3	-5.16	-4.7	-286.0	271.7	255.8	15.99	16.993		
4,700.0	4,700.0	4,691.0	4,682.4	8.2	9.5	-5.16	-4.8	-292.3	277.7	261.4	16.34	16.996		
4,800.0	4,800.0	4,790.8	4,782.0	8.4	9.7	-5.16	-4.9	-298.7	283.7	267.0	16.69	16.999		
4,900.0	4,900.0	4,890.6	4,881.6	8.5	9.9	-5.16	-5.0	-305.0	289.7	272.6	17.04	17.002		
5,000.0	5,000.0	4,990.4	4,981.2	8.7	10.1	-5.16	-5.1	-311.3	295.6	278.3	17.39	17.005		
5,100.0	5,100.0	5,090.2	5,080.9	8.9	10.3	-5.16	-5.1	-317.6	301.6	283.9	17.74	17.007		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		
5,200.0	5,200.0	5,190.1	5,180.5	9.1	10.5	-5.16	-5.2	-324.0	307.6	289.5	18.08	17.010		
5,300.0	5,300.0	5,289.9	5,280.1	9.2	10.7	-5.16	-5.3	-330.3	313.6	295.1	18.43	17.012		
5,400.0	5,400.0	5,389.7	5,379.7	9.4	10.9	-5.16	-5.4	-336.6	319.6	300.8	18.78	17.015		
5,500.0	5,500.0	5,489.5	5,479.3	9.6	11.1	-5.15	-5.5	-342.9	325.5	306.4	19.13	17.017		
5,600.0	5,600.0	5,589.3	5,579.0	9.8	11.3	-5.15	-5.6	-349.3	331.5	312.0	19.48	17.019		
5,700.0	5,700.0	5,689.2	5,678.6	9.9	11.5	-5.15	-5.7	-355.6	337.5	317.6	19.83	17.021		
5,800.0	5,800.0	5,789.0	5,778.2	10.1	11.7	-5.15	-5.8	-361.9	343.5	323.3	20.18	17.023		
5,900.0	5,900.0	5,888.8	5,877.8	10.3	12.0	-5.15	-5.9	-368.2	349.4	328.9	20.52	17.025		
6,000.0	6,000.0	5,988.6	5,977.4	10.5	12.2	-5.15	-6.0	-374.6	355.4	334.5	20.87	17.027		
6,100.0	6,100.0	6,088.5	6,077.1	10.6	12.4	-5.15	-6.1	-380.9	361.4	340.2	21.22	17.029		
6,200.0	6,200.0	6,188.3	6,176.7	10.8	12.6	-5.15	-6.2	-387.2	367.4	345.8	21.57	17.031		
6,300.0	6,300.0	6,288.1	6,276.3	11.0	12.8	-5.15	-6.3	-393.5	373.3	351.4	21.92	17.032		
6,400.0	6,400.0	6,387.9	6,375.9	11.2	13.0	-5.15	-6.4	-399.9	379.3	357.0	22.27	17.034		
6,500.0	6,500.0	6,487.7	6,475.5	11.3	13.2	-5.15	-6.5	-406.2	385.3	362.7	22.62	17.036		
6,600.0	6,600.0	6,587.6	6,575.2	11.5	13.4	-5.15	-6.6	-412.5	391.3	368.3	22.96	17.037		
6,700.0	6,700.0	6,687.4	6,674.8	11.7	13.6	-5.14	-6.6	-418.8	397.2	373.9	23.31	17.039		
6,800.0	6,799.8	6,787.0	6,774.2	11.9	13.8	87.25	-6.7	-425.2	403.1	379.5	23.66	17.036		
6,900.0	6,898.0	6,885.5	6,872.5	12.0	14.0	90.24	-7.1	-431.4	409.2	385.2	24.02	17.038		
7,000.0	6,992.8	6,986.4	6,972.7	12.2	14.2	93.03	-17.2	-437.8	416.2	391.8	24.42	17.045		
7,100.0	7,082.2	7,090.8	7,073.6	12.5	14.5	95.55	-42.4	-444.2	424.0	399.1	24.91	17.017		
7,200.0	7,164.6	7,198.8	7,173.1	12.9	14.7	97.87	-83.6	-450.5	432.2	406.6	25.56	16.906		
7,300.0	7,238.2	7,310.6	7,268.5	13.4	15.1	99.97	-141.5	-456.5	440.5	414.1	26.43	16.667		
7,400.0	7,301.8	7,426.4	7,356.4	14.0	15.6	101.82	-216.4	-462.1	448.5	420.9	27.56	16.270		
7,500.0	7,354.0	7,545.9	7,433.4	14.9	16.3	103.39	-307.5	-467.0	455.6	426.6	29.00	15.710		
7,600.0	7,393.9	7,668.8	7,495.7	15.8	17.3	104.64	-413.2	-471.0	461.6	430.8	30.79	14.995		
7,700.0	7,420.6	7,794.5	7,539.7	17.0	18.5	105.55	-530.7	-473.8	466.0	433.1	32.89	14.169		
7,800.0	7,433.7	7,922.1	7,562.9	18.2	19.9	106.10	-656.0	-475.2	468.5	433.2	35.30	13.273		
7,900.0	7,435.0	8,037.0	7,566.0	19.6	21.3	106.22	-770.8	-475.4	468.9	431.0	37.91	12.370		
8,000.0	7,435.0	8,137.0	7,566.0	20.9	22.6	106.22	-870.8	-475.4	468.9	428.4	40.57	11.557		
8,100.0	7,435.0	8,237.0	7,566.0	22.4	23.9	106.22	-970.8	-475.4	468.9	425.6	43.34	10.820		
8,200.0	7,435.0	8,337.0	7,566.0	23.9	25.3	106.22	-1,070.8	-475.4	468.9	422.8	46.18	10.154		
8,300.0	7,435.0	8,437.0	7,566.0	25.4	26.7	106.22	-1,170.8	-475.4	468.9	419.8	49.10	9.552		
8,400.0	7,435.0	8,537.0	7,566.0	26.9	28.2	106.22	-1,270.8	-475.4	468.9	416.9	52.06	9.007		
8,500.0	7,435.0	8,637.0	7,566.0	28.5	29.7	106.22	-1,370.8	-475.4	468.9	413.9	55.08	8.514		
8,600.0	7,435.0	8,737.0	7,566.0	30.1	31.2	106.22	-1,470.8	-475.4	468.9	410.8	58.13	8.067		
8,700.0	7,435.0	8,837.0	7,566.0	31.7	32.8	106.22	-1,570.8	-475.4	468.9	407.7	61.21	7.661		
8,800.0	7,435.0	8,937.0	7,566.0	33.3	34.4	106.22	-1,670.8	-475.4	468.9	404.6	64.33	7.290		
8,900.0	7,435.0	9,037.0	7,566.0	35.0	36.0	106.22	-1,770.8	-475.4	468.9	401.5	67.47	6.950		
9,000.0	7,435.0	9,137.0	7,566.0	36.6	37.6	106.22	-1,870.8	-475.4	468.9	398.3	70.63	6.639		
9,100.0	7,435.0	9,237.0	7,566.0	38.3	39.2	106.22	-1,970.8	-475.4	468.9	395.1	73.81	6.353		
9,200.0	7,435.0	9,337.0	7,566.0	39.9	40.8	106.22	-2,070.8	-475.4	468.9	391.9	77.00	6.090		
9,300.0	7,435.0	9,437.0	7,566.0	41.6	42.4	106.22	-2,170.8	-475.4	468.9	388.7	80.21	5.846		
9,400.0	7,435.0	9,537.0	7,566.0	43.3	44.1	106.22	-2,270.8	-475.4	468.9	385.5	83.43	5.620		
9,500.0	7,435.0	9,637.0	7,566.0	45.0	45.7	106.22	-2,370.8	-475.4	468.9	382.3	86.67	5.411		
9,600.0	7,435.0	9,737.0	7,566.0	46.7	47.4	106.22	-2,470.8	-475.4	468.9	379.0	89.91	5.216		
9,700.0	7,435.0	9,837.0	7,566.0	48.3	49.1	106.22	-2,570.8	-475.4	468.9	375.8	93.16	5.033		
9,800.0	7,435.0	9,937.0	7,566.0	50.0	50.7	106.22	-2,670.8	-475.4	468.9	372.5	96.43	4.863		
9,900.0	7,435.0	10,037.0	7,566.0	51.7	52.4	106.22	-2,770.8	-475.4	468.9	369.2	99.69	4.704		
10,000.0	7,435.0	10,137.0	7,566.0	53.5	54.1	106.22	-2,870.8	-475.4	468.9	366.0	102.97	4.554		
10,100.0	7,435.0	10,237.0	7,566.0	55.2	55.8	106.22	-2,970.8	-475.4	468.9	362.7	106.25	4.414		
10,200.0	7,435.0	10,337.0	7,566.0	56.9	57.5	106.22	-3,070.8	-475.4	468.9	359.4	109.53	4.281		
10,300.0	7,435.0	10,437.0	7,566.0	58.6	59.2	106.22	-3,170.8	-475.4	468.9	356.1	112.82	4.156		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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)				
10,400.0	7,435.0	10,537.0	7,566.0	60.3	60.9	106.22	-3,270.8	-475.4	468.9	352.8	116.12	4.038		
10,500.0	7,435.0	10,637.0	7,566.0	62.0	62.6	106.22	-3,370.8	-475.4	468.9	349.5	119.42	3.927		
10,600.0	7,435.0	10,737.0	7,566.0	63.7	64.3	106.22	-3,470.8	-475.4	468.9	346.2	122.72	3.821		
10,700.0	7,435.0	10,837.0	7,566.0	65.5	66.0	106.22	-3,570.8	-475.4	468.9	342.9	126.03	3.721		
10,800.0	7,435.0	10,937.0	7,566.0	67.2	67.7	106.22	-3,670.8	-475.4	468.9	339.6	129.34	3.626		
10,900.0	7,435.0	11,037.0	7,566.0	68.9	69.4	106.22	-3,770.8	-475.4	468.9	336.3	132.65	3.535		
11,000.0	7,435.0	11,137.0	7,566.0	70.6	71.1	106.22	-3,870.8	-475.4	468.9	333.0	135.97	3.449		
11,100.0	7,435.0	11,237.0	7,566.0	72.4	72.9	106.22	-3,970.8	-475.4	468.9	329.6	139.29	3.367		
11,200.0	7,435.0	11,337.0	7,566.0	74.1	74.6	106.22	-4,070.8	-475.4	468.9	326.3	142.61	3.288		
11,300.0	7,435.0	11,437.0	7,566.0	75.8	76.3	106.22	-4,170.8	-475.4	468.9	323.0	145.93	3.213		
11,400.0	7,435.0	11,537.0	7,566.0	77.6	78.0	106.22	-4,270.8	-475.4	468.9	319.7	149.26	3.142		
11,500.0	7,435.0	11,637.0	7,566.0	79.3	79.7	106.22	-4,370.8	-475.4	468.9	316.4	152.59	3.073		
11,600.0	7,435.0	11,737.0	7,566.0	81.0	81.5	106.22	-4,470.8	-475.4	468.9	313.0	155.92	3.008		
11,700.0	7,435.0	11,837.0	7,566.0	82.8	83.2	106.22	-4,570.8	-475.4	468.9	309.7	159.25	2.945		
11,800.0	7,435.0	11,937.0	7,566.0	84.5	84.9	106.22	-4,670.8	-475.4	468.9	306.4	162.58	2.884		
11,900.0	7,435.0	12,037.0	7,566.0	86.2	86.6	106.22	-4,770.8	-475.4	468.9	303.0	165.91	2.826		
11,924.8	7,435.0	12,061.7	7,566.0	86.7	87.1	106.22	-4,795.5	-475.4	468.9	302.2	166.74	2.812 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4													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	-92.05	-0.4	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-92.05	-0.4	-10.1	10.1	9.8	0.30	33.168		
200.0	200.0	200.0	200.0	0.3	0.3	-92.05	-0.4	-10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	-92.05	-0.4	-10.1	10.1	9.1	1.00	10.054		
400.0	400.0	400.0	400.0	0.7	0.7	-92.05	-0.4	-10.1	10.1	8.7	1.35	7.456 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.9	-91.92	-0.4	-11.8	11.8	10.1	1.70	6.942		
600.0	600.0	599.5	599.4	1.0	1.0	-5.83	-0.5	-15.8	15.4	13.4	2.05	7.544		
700.0	700.0	699.4	699.2	1.2	1.2	-5.79	-0.6	-19.8	19.1	16.7	2.40	7.974		
800.0	800.0	799.3	799.1	1.4	1.4	-5.77	-0.6	-23.8	22.8	20.0	2.75	8.295		
900.0	900.0	899.3	898.9	1.5	1.6	-5.76	-0.7	-27.8	26.4	23.3	3.09	8.543		
1,000.0	1,000.0	999.2	998.8	1.7	1.8	-5.75	-0.8	-31.9	30.1	26.7	3.44	8.741		
1,100.0	1,100.0	1,099.1	1,098.6	1.9	2.0	-5.74	-0.9	-35.9	33.8	30.0	3.79	8.903		
1,200.0	1,200.0	1,199.1	1,198.5	2.1	2.1	-5.73	-1.0	-39.9	37.4	33.3	4.14	9.038		
1,300.0	1,300.0	1,299.0	1,298.3	2.2	2.3	-5.72	-1.1	-43.9	41.1	36.6	4.49	9.151		
1,400.0	1,400.0	1,398.9	1,398.2	2.4	2.5	-5.72	-1.1	-48.0	44.8	39.9	4.84	9.248		
1,500.0	1,500.0	1,498.9	1,498.0	2.6	2.7	-5.72	-1.2	-52.0	48.4	43.2	5.19	9.333		
1,600.0	1,600.0	1,598.8	1,597.9	2.8	2.9	-5.71	-1.3	-56.0	52.1	46.5	5.54	9.406		
1,700.0	1,700.0	1,698.7	1,697.7	2.9	3.1	-5.71	-1.4	-60.0	55.7	49.9	5.89	9.471		
1,800.0	1,800.0	1,798.7	1,797.6	3.1	3.3	-5.71	-1.5	-64.0	59.4	53.2	6.24	9.528		
1,900.0	1,900.0	1,898.6	1,897.5	3.3	3.5	-5.70	-1.6	-68.1	63.1	56.5	6.58	9.580		
2,000.0	2,000.0	1,998.5	1,997.3	3.5	3.6	-5.70	-1.7	-72.1	66.7	59.8	6.93	9.626		
2,100.0	2,100.0	2,098.5	2,097.2	3.6	3.8	-5.70	-1.7	-76.1	70.4	63.1	7.28	9.668		
2,200.0	2,200.0	2,198.4	2,197.0	3.8	4.0	-5.70	-1.8	-80.1	74.1	66.4	7.63	9.706		
2,300.0	2,300.0	2,298.3	2,296.9	4.0	4.2	-5.70	-1.9	-84.1	77.7	69.7	7.98	9.741		
2,400.0	2,400.0	2,398.3	2,396.7	4.2	4.4	-5.69	-2.0	-88.2	81.4	73.1	8.33	9.773		
2,500.0	2,500.0	2,498.2	2,496.6	4.3	4.6	-5.69	-2.1	-92.2	85.1	76.4	8.68	9.802		
2,600.0	2,600.0	2,598.1	2,596.4	4.5	4.8	-5.69	-2.2	-96.2	88.7	79.7	9.03	9.829		
2,700.0	2,700.0	2,698.1	2,696.3	4.7	5.0	-5.69	-2.2	-100.2	92.4	83.0	9.38	9.854		
2,800.0	2,800.0	2,798.0	2,796.1	4.9	5.1	-5.69	-2.3	-104.3	96.0	86.3	9.72	9.877		
2,900.0	2,900.0	2,897.9	2,896.0	5.0	5.3	-5.69	-2.4	-108.3	99.7	89.6	10.07	9.899		
3,000.0	3,000.0	2,997.9	2,995.8	5.2	5.5	-5.69	-2.5	-112.3	103.4	93.0	10.42	9.919		
3,100.0	3,100.0	3,097.8	3,095.7	5.4	5.7	-5.69	-2.6	-116.3	107.0	96.3	10.77	9.938		
3,200.0	3,200.0	3,197.7	3,195.5	5.6	5.9	-5.69	-2.7	-120.3	110.7	99.6	11.12	9.955		
3,300.0	3,300.0	3,297.7	3,295.4	5.7	6.1	-5.69	-2.7	-124.4	114.4	102.9	11.47	9.972		
3,400.0	3,400.0	3,397.6	3,395.2	5.9	6.3	-5.68	-2.8	-128.4	118.0	106.2	11.82	9.987		
3,500.0	3,500.0	3,497.5	3,495.1	6.1	6.5	-5.68	-2.9	-132.4	121.7	109.5	12.17	10.002		
3,600.0	3,600.0	3,597.5	3,594.9	6.3	6.6	-5.68	-3.0	-136.4	125.4	112.8	12.52	10.016		
3,700.0	3,700.0	3,697.4	3,694.8	6.4	6.8	-5.68	-3.1	-140.5	129.0	116.2	12.86	10.029		
3,800.0	3,800.0	3,797.3	3,794.6	6.6	7.0	-5.68	-3.2	-144.5	132.7	119.5	13.21	10.041		
3,900.0	3,900.0	3,897.3	3,894.5	6.8	7.2	-5.68	-3.2	-148.5	136.3	122.8	13.56	10.053		
4,000.0	4,000.0	3,997.2	3,994.3	7.0	7.4	-5.68	-3.3	-152.5	140.0	126.1	13.91	10.064		
4,100.0	4,100.0	4,097.1	4,094.2	7.1	7.6	-5.68	-3.4	-156.5	143.7	129.4	14.26	10.075		
4,200.0	4,200.0	4,197.1	4,194.0	7.3	7.8	-5.68	-3.5	-160.6	147.3	132.7	14.61	10.085		
4,300.0	4,300.0	4,297.0	4,293.9	7.5	8.0	-5.68	-3.6	-164.6	151.0	136.0	14.96	10.095		
4,400.0	4,400.0	4,396.9	4,393.7	7.7	8.1	-5.68	-3.7	-168.6	154.7	139.4	15.31	10.104		
4,500.0	4,500.0	4,496.9	4,493.6	7.8	8.3	-5.68	-3.7	-172.6	158.3	142.7	15.66	10.113		
4,600.0	4,600.0	4,596.8	4,593.5	8.0	8.5	-5.68	-3.8	-176.7	162.0	146.0	16.00	10.121		
4,700.0	4,700.0	4,696.7	4,693.3	8.2	8.7	-5.68	-3.9	-180.7	165.7	149.3	16.35	10.129		
4,800.0	4,800.0	4,796.7	4,793.2	8.4	8.9	-5.68	-4.0	-184.7	169.3	152.6	16.70	10.137		
4,900.0	4,900.0	4,896.6	4,893.0	8.5	9.1	-5.68	-4.1	-188.7	173.0	155.9	17.05	10.145		
5,000.0	5,000.0	4,996.5	4,992.9	8.7	9.3	-5.68	-4.2	-192.7	176.6	159.2	17.40	10.152		
5,100.0	5,100.0	5,096.5	5,092.7	8.9	9.5	-5.68	-4.2	-196.8	180.3	162.6	17.75	10.159		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4													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)				
5,200.0	5,200.0	5,196.4	5,192.6	9.1	9.7	-5.68	-4.3	-200.8	184.0	165.9	18.10	10.165		
5,300.0	5,300.0	5,296.3	5,292.4	9.2	9.8	-5.68	-4.4	-204.8	187.6	169.2	18.45	10.171		
5,400.0	5,400.0	5,396.3	5,392.3	9.4	10.0	-5.68	-4.5	-208.8	191.3	172.5	18.80	10.178		
5,500.0	5,500.0	5,496.2	5,492.1	9.6	10.2	-5.68	-4.6	-212.9	195.0	175.8	19.14	10.183		
5,600.0	5,600.0	5,596.1	5,592.0	9.8	10.4	-5.68	-4.7	-216.9	198.6	179.1	19.49	10.189		
5,700.0	5,700.0	5,596.1	5,691.8	9.9	10.6	-5.68	-4.7	-220.9	202.3	182.4	19.84	10.195		
5,800.0	5,800.0	5,796.0	5,791.7	10.1	10.8	-5.68	-4.8	-224.9	206.0	185.8	20.19	10.200		
5,900.0	5,900.0	5,895.9	5,891.5	10.3	11.0	-5.68	-4.9	-228.9	209.6	189.1	20.54	10.205		
6,000.0	6,000.0	5,995.9	5,991.4	10.5	11.2	-5.68	-5.0	-233.0	213.3	192.4	20.89	10.210		
6,100.0	6,100.0	6,095.8	6,091.2	10.6	11.3	-5.68	-5.1	-237.0	216.9	195.7	21.24	10.215		
6,200.0	6,200.0	6,195.7	6,191.1	10.8	11.5	-5.67	-5.2	-241.0	220.6	199.0	21.59	10.219		
6,300.0	6,300.0	6,295.7	6,290.9	11.0	11.7	-5.67	-5.3	-245.0	224.3	202.3	21.94	10.224		
6,400.0	6,400.0	6,395.6	6,390.8	11.2	11.9	-5.67	-5.3	-249.1	227.9	205.6	22.29	10.228		
6,500.0	6,500.0	6,495.5	6,490.6	11.3	12.1	-5.67	-5.4	-253.1	231.6	209.0	22.63	10.232		
6,600.0	6,600.0	6,595.4	6,590.5	11.5	12.3	-5.67	-5.5	-257.1	235.3	212.3	22.98	10.236		
6,700.0	6,700.0	6,694.0	6,688.9	11.7	12.5	-6.34	-8.4	-261.1	239.1	215.8	23.33	10.249		
6,800.0	6,799.8	6,790.4	6,783.9	11.9	12.7	83.00	-23.4	-265.4	243.9	220.2	23.67	10.301		
6,900.0	6,898.0	6,885.4	6,874.8	12.0	12.9	81.33	-50.5	-269.7	249.3	225.3	24.03	10.377		
7,000.0	6,992.8	6,979.1	6,960.1	12.2	13.1	79.20	-88.9	-274.2	255.3	230.9	24.41	10.456		
7,100.0	7,082.2	7,071.8	7,038.9	12.5	13.5	77.21	-137.4	-278.6	261.4	236.6	24.87	10.511		
7,200.0	7,164.6	7,163.6	7,110.0	12.9	13.9	75.47	-195.1	-283.0	267.6	242.2	25.47	10.508		
7,300.0	7,238.2	7,254.5	7,172.7	13.4	14.4	74.02	-260.8	-287.2	273.7	247.4	26.27	10.418		
7,400.0	7,301.8	7,344.9	7,226.2	14.0	15.0	72.86	-333.4	-291.3	279.3	252.0	27.33	10.218		
7,500.0	7,354.0	7,434.8	7,269.9	14.9	15.8	72.01	-411.8	-295.1	284.4	255.7	28.71	9.905		
7,600.0	7,393.9	7,524.3	7,303.4	15.8	16.7	71.44	-494.7	-298.6	288.8	258.4	30.43	9.492		
7,700.0	7,420.6	7,613.7	7,326.2	17.0	17.7	71.17	-581.1	-301.8	292.5	260.0	32.47	9.008		
7,800.0	7,433.7	7,703.1	7,338.2	18.2	18.8	71.18	-669.5	-304.6	295.3	260.5	34.81	8.484		
7,900.0	7,435.0	7,797.1	7,340.0	19.6	20.0	71.38	-763.4	-307.1	297.6	260.3	37.34	7.971		
8,000.0	7,435.0	7,897.0	7,340.0	20.9	21.4	71.54	-863.3	-309.7	300.1	260.1	40.00	7.503		
8,100.0	7,435.0	7,997.0	7,340.0	22.4	22.8	71.70	-963.3	-312.4	302.6	259.8	42.76	7.076		
8,200.0	7,435.0	8,097.0	7,340.0	23.9	24.3	71.85	-1,063.2	-315.0	305.1	259.5	45.61	6.689		
8,300.0	7,435.0	8,196.9	7,340.0	25.4	25.7	72.00	-1,163.1	-317.6	307.6	259.0	48.52	6.338		
8,400.0	7,435.0	8,296.9	7,340.0	26.9	27.3	72.15	-1,263.1	-320.2	310.0	258.5	51.50	6.020		
8,500.0	7,435.0	8,396.9	7,340.0	28.5	28.8	72.30	-1,363.0	-322.8	312.5	258.0	54.53	5.732		
8,600.0	7,435.0	8,496.8	7,340.0	30.1	30.4	72.44	-1,462.9	-325.4	315.0	257.4	57.59	5.470		
8,700.0	7,435.0	8,596.8	7,340.0	31.7	32.0	72.59	-1,562.9	-328.1	317.5	256.8	60.70	5.231		
8,800.0	7,435.0	8,696.7	7,340.0	33.3	33.6	72.73	-1,662.8	-330.7	320.0	256.2	63.84	5.013		
8,900.0	7,435.0	8,796.7	7,340.0	35.0	35.2	72.86	-1,762.7	-333.3	322.5	255.5	67.01	4.814		
9,000.0	7,435.0	8,900.3	7,340.0	36.6	36.9	72.99	-1,866.2	-335.6	324.7	254.4	70.25	4.622		
9,100.0	7,435.0	9,006.0	7,340.0	38.3	38.6	73.02	-1,972.0	-336.2	325.2	251.7	73.52	4.424		
9,200.0	7,435.0	9,111.7	7,340.0	39.9	40.4	72.94	-2,077.7	-334.8	324.0	247.2	76.77	4.220		
9,300.0	7,435.0	9,214.1	7,340.0	41.6	42.1	72.79	-2,180.1	-331.9	321.3	241.3	79.94	4.019		
9,400.0	7,435.0	9,314.1	7,340.0	43.3	43.7	72.63	-2,280.0	-328.9	318.4	235.3	83.08	3.832		
9,500.0	7,435.0	9,414.0	7,340.0	45.0	45.4	72.47	-2,379.9	-325.9	315.5	229.3	86.23	3.659		
9,600.0	7,435.0	9,514.0	7,340.0	46.7	47.1	72.30	-2,479.8	-322.9	312.6	223.2	89.37	3.498		
9,700.0	7,435.0	9,613.9	7,340.0	48.3	48.8	72.13	-2,579.7	-319.8	309.7	217.2	92.52	3.348		
9,800.0	7,435.0	9,713.9	7,340.0	50.0	50.4	71.96	-2,679.6	-316.8	306.9	211.2	95.67	3.208		
9,900.0	7,435.0	9,813.9	7,340.0	51.7	52.1	71.78	-2,779.5	-313.8	304.0	205.2	98.81	3.076		
10,000.0	7,435.0	9,913.8	7,340.0	53.5	53.8	71.60	-2,879.4	-310.8	301.1	199.2	101.95	2.954		
10,100.0	7,435.0	10,013.8	7,340.0	55.2	55.5	71.42	-2,979.3	-307.8	298.3	193.2	105.09	2.838		
10,200.0	7,435.0	10,113.7	7,340.0	56.9	57.2	71.23	-3,079.2	-304.8	295.4	187.2	108.23	2.730		
10,300.0	7,435.0	10,213.7	7,340.0	58.6	58.9	71.04	-3,179.1	-301.7	292.5	181.2	111.35	2.627		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4													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)				
10,400.0	7,435.0	10,311.1	7,340.0	60.3	60.6	70.87	-3,276.5	-299.0	289.9	175.5	114.45	2.533		
10,500.0	7,435.0	10,406.5	7,340.0	62.0	62.2	70.79	-3,371.9	-297.9	288.8	171.2	117.57	2.456		
10,600.0	7,435.0	10,505.8	7,340.0	63.7	63.9	70.78	-3,471.3	-297.7	288.6	167.8	120.80	2.389		
10,700.0	7,435.0	10,605.8	7,340.0	65.5	65.6	70.77	-3,571.3	-297.5	288.4	164.4	124.04	2.325		
10,800.0	7,435.0	10,705.8	7,340.0	67.2	67.3	70.76	-3,671.3	-297.3	288.3	161.0	127.29	2.265		
10,900.0	7,435.0	10,805.8	7,340.0	68.9	69.1	70.75	-3,771.3	-297.1	288.1	157.5	130.54	2.207		
11,000.0	7,435.0	10,905.8	7,340.0	70.6	70.8	70.73	-3,871.3	-297.0	287.9	154.1	133.79	2.152		
11,100.0	7,435.0	11,005.8	7,340.0	72.4	72.5	70.72	-3,971.3	-296.8	287.8	150.7	137.05	2.100		
11,200.0	7,435.0	11,105.8	7,340.0	74.1	74.2	70.71	-4,071.3	-296.6	287.6	147.3	140.30	2.050		
11,300.0	7,435.0	11,205.8	7,340.0	75.8	76.0	70.70	-4,171.3	-296.4	287.4	143.9	143.56	2.002		
11,400.0	7,435.0	11,305.8	7,340.0	77.6	77.7	70.69	-4,271.3	-296.3	287.3	140.4	146.82	1.957		
11,500.0	7,435.0	11,405.8	7,340.0	79.3	79.4	70.68	-4,371.3	-296.1	287.1	137.0	150.08	1.913		
11,600.0	7,435.0	11,505.8	7,340.0	81.0	81.2	70.67	-4,471.3	-295.9	286.9	133.6	153.34	1.871		
11,700.0	7,435.0	11,605.8	7,340.0	82.8	82.9	70.65	-4,571.3	-295.7	286.8	130.2	156.61	1.831		
11,800.0	7,435.0	11,845.3	7,340.0	84.5	86.8	67.12	-4,799.0	-250.3	276.0	117.6	158.36	1.743		
11,900.0	7,435.0	11,845.3	7,340.0	86.2	86.8	67.12	-4,799.0	-250.3	246.0	86.0	159.96	1.538		
11,924.8	7,435.0	11,845.3	7,340.0	86.7	86.8	67.12	-4,799.0	-250.3	244.4	84.0	160.36	1.524 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	87.93	0.4	10.1	10.1						
100.0	100.0	100.0	100.0	0.2	0.2	87.93	0.4	10.1	10.1	9.8	0.30	33.168			
200.0	200.0	200.0	200.0	0.3	0.3	87.93	0.4	10.1	10.1	9.4	0.65	15.431			
300.0	300.0	300.0	300.0	0.5	0.5	87.93	0.4	10.1	10.1	9.1	1.00	10.054			
400.0	400.0	400.0	400.0	0.7	0.7	87.93	0.4	10.1	10.1	8.7	1.35	7.456			
500.0	500.0	500.0	500.0	0.8	0.8	87.93	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	174.17	0.4	10.1	10.4	8.4	2.05	5.083 ES			
700.0	700.0	700.0	700.0	1.2	1.2	174.36	0.4	10.1	10.8	8.4	2.40	4.495			
800.0	800.0	800.0	800.0	1.4	1.4	174.55	0.4	10.1	11.1	8.4	2.75	4.055			
900.0	900.0	900.0	900.0	1.5	1.5	174.72	0.4	10.1	11.5	8.4	3.10	3.715			
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	174.88	0.4	10.1	11.9	8.4	3.45	3.444			
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	175.03	0.4	10.1	12.2	8.4	3.79	3.223			
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	175.18	0.4	10.1	12.6	8.4	4.14	3.039			
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	175.31	0.4	10.1	13.0	8.5	4.49	2.883			
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	175.44	0.4	10.1	13.3	8.5	4.84	2.751			
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	175.56	0.4	10.1	13.7	8.5	5.19	2.636			
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	175.68	0.4	10.1	14.0	8.5	5.54	2.535			
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	175.79	0.4	10.1	14.4	8.5	5.89	2.446			
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	175.89	0.4	10.1	14.8	8.5	6.24	2.368			
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	175.99	0.4	10.1	15.1	8.5	6.59	2.297			
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	176.08	0.4	10.1	15.5	8.6	6.94	2.234			
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	176.17	0.4	10.1	15.9	8.6	7.28	2.177			
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	176.26	0.4	10.1	16.2	8.6	7.63	2.125			
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	176.34	0.4	10.1	16.6	8.6	7.98	2.078			
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	176.42	0.4	10.1	16.9	8.6	8.33	2.034			
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	176.49	0.4	10.1	17.3	8.6	8.68	1.994			
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	176.57	0.4	10.1	17.7	8.6	9.03	1.957			
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	176.64	0.4	10.1	18.0	8.7	9.38	1.923			
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	176.70	0.4	10.1	18.4	8.7	9.73	1.892			
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	176.77	0.4	10.1	18.8	8.7	10.08	1.862			
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	176.83	0.4	10.1	19.1	8.7	10.43	1.835			
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	176.89	0.4	10.1	19.5	8.7	10.78	1.809			
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	176.94	0.4	10.1	19.9	8.7	11.12	1.785			
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	177.00	0.4	10.1	20.2	8.7	11.47	1.762			
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	177.05	0.4	10.1	20.6	8.8	11.82	1.741			
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	177.10	0.4	10.1	20.9	8.8	12.17	1.721			
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	177.15	0.4	10.1	21.3	8.8	12.52	1.702			
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	177.20	0.4	10.1	21.7	8.8	12.87	1.684			
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	177.25	0.4	10.1	22.0	8.8	13.22	1.667			
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	177.29	0.4	10.1	22.4	8.8	13.57	1.651			
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	177.33	0.4	10.1	22.8	8.8	13.92	1.636 SF			
4,100.0	4,100.0	4,099.1	4,099.1	7.1	7.1	177.15	0.4	11.8	24.9	10.6	14.26	1.743			
4,200.0	4,200.0	4,198.5	4,198.3	7.3	7.3	176.69	0.6	16.6	30.1	15.5	14.61	2.059			
4,300.0	4,300.0	4,298.3	4,298.0	7.5	7.5	176.32	0.8	22.0	35.9	20.9	14.96	2.398			
4,400.0	4,400.0	4,398.1	4,397.7	7.7	7.7	176.06	1.0	27.5	41.7	26.4	15.31	2.721			
4,500.0	4,500.0	4,498.0	4,497.4	7.8	7.8	175.86	1.2	32.9	47.5	31.8	15.66	3.030			
4,600.0	4,600.0	4,597.8	4,597.1	8.0	8.0	175.71	1.3	38.3	53.2	37.2	16.01	3.326			
4,700.0	4,700.0	4,697.6	4,696.8	8.2	8.2	175.58	1.5	43.7	59.0	42.7	16.36	3.609			
4,800.0	4,800.0	4,797.5	4,796.5	8.4	8.4	175.48	1.7	49.1	64.8	48.1	16.71	3.881			
4,900.0	4,900.0	4,897.3	4,896.1	8.5	8.6	175.39	1.9	54.5	70.6	53.6	17.05	4.141			
5,000.0	5,000.0	4,997.1	4,995.8	8.7	8.7	175.32	2.1	60.0	76.4	59.0	17.40	4.391			
5,100.0	5,100.0	5,097.0	5,095.5	8.9	8.9	175.26	2.3	65.4	82.2	64.5	17.75	4.631			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		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			
5,200.0	5,200.0	5,196.8	5,195.2	9.1	9.1	175.21	2.5	70.8	88.0	69.9	18.10	4.862		
5,300.0	5,300.0	5,296.6	5,294.9	9.2	9.3	175.16	2.6	76.2	93.8	75.3	18.45	5.084		
5,400.0	5,400.0	5,396.5	5,394.6	9.4	9.5	175.12	2.8	81.6	99.6	80.8	18.80	5.298		
5,500.0	5,500.0	5,496.3	5,494.2	9.6	9.7	175.08	3.0	87.1	105.4	86.2	19.15	5.504		
5,600.0	5,600.0	5,596.1	5,593.9	9.8	9.9	175.05	3.2	92.5	111.2	91.7	19.49	5.702		
5,700.0	5,700.0	5,696.0	5,693.6	9.9	10.0	175.01	3.4	97.9	117.0	97.1	19.84	5.894		
5,800.0	5,800.0	5,795.8	5,793.3	10.1	10.2	174.99	3.6	103.3	122.8	102.6	20.19	6.079		
5,900.0	5,900.0	5,895.6	5,893.0	10.3	10.4	174.96	3.8	108.7	128.5	108.0	20.54	6.258		
6,000.0	6,000.0	5,895.5	5,892.7	10.5	10.6	174.94	4.0	114.2	134.3	113.4	20.89	6.431		
6,100.0	6,100.0	6,095.3	6,092.4	10.6	10.8	174.92	4.1	119.6	140.1	118.9	21.24	6.598		
6,200.0	6,200.0	6,195.1	6,192.0	10.8	11.0	174.90	4.3	125.0	145.9	124.3	21.59	6.760		
6,300.0	6,300.0	6,295.0	6,291.7	11.0	11.2	174.88	4.5	130.4	151.7	129.8	21.94	6.916		
6,400.0	6,400.0	6,394.8	6,391.4	11.2	11.4	174.87	4.7	135.8	157.5	135.2	22.28	7.068		
6,500.0	6,500.0	6,494.6	6,491.1	11.3	11.6	174.85	4.9	141.2	163.3	140.7	22.63	7.215		
6,600.0	6,600.0	6,594.5	6,590.8	11.5	11.7	174.84	5.1	146.7	169.1	146.1	22.98	7.358		
6,700.0	6,700.0	6,694.3	6,690.5	11.7	11.9	174.82	5.3	152.1	174.9	151.6	23.33	7.496		
6,800.0	6,799.8	6,793.9	6,790.0	11.9	12.1	-94.14	5.4	157.5	180.8	157.1	23.68	7.637		
6,900.0	6,898.0	6,893.4	6,889.3	12.0	12.3	-97.75	4.5	162.9	188.1	164.1	24.02	7.829		
7,000.0	6,992.8	6,996.5	6,991.3	12.2	12.5	-102.40	-8.4	168.4	197.1	172.7	24.38	8.085		
7,100.0	7,082.2	7,102.7	7,093.3	12.5	12.7	-106.62	-36.9	174.0	207.3	182.5	24.76	8.371		
7,200.0	7,164.6	7,212.2	7,193.0	12.9	13.0	-110.26	-81.7	179.4	217.9	192.7	25.20	8.648		
7,300.0	7,238.2	7,325.0	7,287.3	13.4	13.4	-113.32	-143.3	184.5	228.5	202.7	25.76	8.870		
7,400.0	7,301.8	7,441.1	7,373.0	14.0	14.0	-115.79	-221.3	189.2	238.3	211.8	26.51	8.989		
7,500.0	7,354.0	7,560.2	7,446.7	14.9	14.8	-117.69	-314.6	193.2	246.9	219.3	27.53	8.965		
7,600.0	7,393.9	7,681.9	7,505.0	15.8	15.8	-119.05	-421.1	196.4	253.6	224.7	28.89	8.778		
7,700.0	7,420.6	7,805.5	7,544.9	17.0	17.1	-119.90	-537.9	198.5	258.1	227.5	30.61	8.432		
7,800.0	7,433.7	7,930.1	7,564.3	18.2	18.6	-120.23	-660.9	199.6	260.1	227.4	32.70	7.954		
7,900.0	7,435.0	8,040.1	7,566.0	19.6	20.0	-120.23	-770.8	199.7	260.2	225.2	35.02	7.430		
8,000.0	7,435.0	8,140.1	7,566.0	20.9	21.4	-120.23	-870.8	199.7	260.2	222.8	37.42	6.955		
8,100.0	7,435.0	8,240.1	7,566.0	22.4	22.8	-120.23	-970.8	199.7	260.2	220.3	39.90	6.522		
8,200.0	7,435.0	8,340.1	7,566.0	23.9	24.3	-120.23	-1,070.8	199.7	260.2	217.8	42.45	6.130		
8,300.0	7,435.0	8,440.1	7,566.0	25.4	25.8	-120.23	-1,170.8	199.7	260.2	215.2	45.07	5.775		
8,400.0	7,435.0	8,540.1	7,566.0	26.9	27.3	-120.23	-1,270.8	199.7	260.2	212.5	47.73	5.452		
8,500.0	7,435.0	8,640.1	7,566.0	28.5	28.8	-120.23	-1,370.8	199.7	260.2	209.8	50.44	5.160		
8,600.0	7,435.0	8,740.1	7,566.0	30.1	30.4	-120.23	-1,470.8	199.7	260.2	207.1	53.18	4.894		
8,700.0	7,435.0	8,840.1	7,566.0	31.7	32.0	-120.23	-1,570.8	199.7	260.2	204.3	55.95	4.651		
8,800.0	7,435.0	8,940.1	7,566.0	33.3	33.6	-120.23	-1,670.8	199.7	260.2	201.5	58.75	4.430		
8,900.0	7,435.0	9,040.1	7,566.0	35.0	35.2	-120.23	-1,770.8	199.7	260.2	198.7	61.57	4.227		
9,000.0	7,435.0	9,140.1	7,566.0	36.6	36.9	-120.23	-1,870.8	199.7	260.2	195.8	64.41	4.040		
9,100.0	7,435.0	9,240.1	7,566.0	38.3	38.5	-120.23	-1,970.8	199.7	260.2	193.0	67.27	3.868		
9,200.0	7,435.0	9,340.1	7,566.0	39.9	40.2	-120.23	-2,070.8	199.7	260.2	190.1	70.14	3.710		
9,300.0	7,435.0	9,440.1	7,566.0	41.6	41.8	-120.23	-2,170.8	199.7	260.2	187.2	73.03	3.563		
9,400.0	7,435.0	9,540.1	7,566.0	43.3	43.5	-120.23	-2,270.8	199.7	260.2	184.3	75.93	3.427		
9,500.0	7,435.0	9,640.1	7,566.0	45.0	45.2	-120.23	-2,370.8	199.7	260.2	181.4	78.84	3.301		
9,600.0	7,435.0	9,740.1	7,566.0	46.7	46.9	-120.23	-2,470.8	199.7	260.2	178.5	81.76	3.183		
9,700.0	7,435.0	9,840.1	7,566.0	48.3	48.6	-120.23	-2,570.8	199.7	260.2	175.5	84.68	3.073		
9,800.0	7,435.0	9,940.1	7,566.0	50.0	50.2	-120.23	-2,670.8	199.7	260.2	172.6	87.62	2.970		
9,900.0	7,435.0	10,040.1	7,566.0	51.7	51.9	-120.23	-2,770.8	199.7	260.2	169.7	90.56	2.874		
10,000.0	7,435.0	10,140.1	7,566.0	53.5	53.6	-120.23	-2,870.8	199.7	260.2	166.7	93.50	2.783		
10,100.0	7,435.0	10,240.1	7,566.0	55.2	55.3	-120.23	-2,970.8	199.7	260.2	163.8	96.46	2.698		
10,200.0	7,435.0	10,340.1	7,566.0	56.9	57.1	-120.23	-3,070.8	199.7	260.2	160.8	99.42	2.618		
10,300.0	7,435.0	10,440.1	7,566.0	58.6	58.8	-120.23	-3,170.8	199.7	260.2	157.9	102.38	2.542		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical	Measured Depth	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Uncertainty Axis	Factor		
10,400.0	7,435.0	10,540.1	7,566.0	60.3	60.5	-120.23	-3,270.8	199.7	260.2	154.9	105.34	2.470		
10,500.0	7,435.0	10,640.1	7,566.0	62.0	62.2	-120.23	-3,370.8	199.7	260.2	151.9	108.32	2.403		
10,600.0	7,435.0	10,740.1	7,566.0	63.7	63.9	-120.23	-3,470.8	199.7	260.2	148.9	111.29	2.338		
10,700.0	7,435.0	10,840.1	7,566.0	65.5	65.6	-120.23	-3,570.8	199.7	260.2	146.0	114.27	2.277		
10,800.0	7,435.0	10,940.1	7,566.0	67.2	67.3	-120.23	-3,670.8	199.7	260.2	143.0	117.25	2.219		
10,900.0	7,435.0	11,040.1	7,566.0	68.9	69.1	-120.23	-3,770.8	199.7	260.2	140.0	120.23	2.164		
11,000.0	7,435.0	11,140.1	7,566.0	70.6	70.8	-120.23	-3,870.8	199.7	260.2	137.0	123.22	2.112		
11,100.0	7,435.0	11,240.1	7,566.0	72.4	72.5	-120.23	-3,970.8	199.7	260.2	134.0	126.21	2.062		
11,200.0	7,435.0	11,340.1	7,566.0	74.1	74.2	-120.23	-4,070.8	199.7	260.2	131.0	129.20	2.014		
11,300.0	7,435.0	11,440.1	7,566.0	75.8	76.0	-120.23	-4,170.8	199.7	260.2	128.0	132.19	1.969		
11,400.0	7,435.0	11,540.1	7,566.0	77.6	77.7	-120.23	-4,270.8	199.7	260.2	125.0	135.19	1.925		
11,500.0	7,435.0	11,640.1	7,566.0	79.3	79.4	-120.23	-4,370.8	199.7	260.2	122.0	138.18	1.883		
11,600.0	7,435.0	11,740.1	7,566.0	81.0	81.2	-120.23	-4,470.8	199.7	260.2	119.0	141.18	1.843		
11,700.0	7,435.0	11,840.1	7,566.0	82.8	82.9	-120.23	-4,570.8	199.7	260.2	116.0	144.18	1.805		
11,800.0	7,435.0	11,940.1	7,566.0	84.5	84.6	-120.23	-4,670.8	199.7	260.2	113.0	147.18	1.768		
11,900.0	7,435.0	12,040.1	7,566.0	86.2	86.4	-120.23	-4,770.8	199.7	260.2	110.0	150.19	1.733		
11,908.9	7,435.0	12,049.0	7,566.0	86.4	86.5	-120.23	-4,779.7	199.7	260.2	109.8	150.45	1.730		
11,924.8	7,435.0	12,059.9	7,566.0	86.7	86.7	-120.23	-4,790.6	199.7	260.3	109.4	150.86	1.725		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	87.94	0.7	20.1	20.1					
100.0	100.0	100.0	100.0	0.2	0.2	87.94	0.7	20.1	20.1	19.8	0.30	66.336		
200.0	200.0	200.0	200.0	0.3	0.3	87.94	0.7	20.1	20.1	19.5	0.65	30.862		
300.0	300.0	300.0	300.0	0.5	0.5	87.94	0.7	20.1	20.1	19.1	1.00	20.109		
400.0	400.0	400.0	400.0	0.7	0.7	87.94	0.7	20.1	20.1	18.8	1.35	14.913		
500.0	500.0	500.0	500.0	0.8	0.8	87.94	0.7	20.1	20.1	18.4	1.70	11.851 CC		
600.0	600.0	600.0	600.0	1.0	1.0	174.08	0.7	20.1	20.5	18.4	2.05	9.999 ES		
700.0	700.0	700.0	700.0	1.2	1.2	174.18	0.7	20.1	20.9	18.5	2.40	8.695		
800.0	800.0	800.0	800.0	1.4	1.4	174.28	0.7	20.1	21.2	18.5	2.75	7.722		
900.0	900.0	900.0	900.0	1.5	1.5	174.38	0.7	20.1	21.6	18.5	3.10	6.968		
1,000.0	1,000.0	999.2	999.2	1.7	1.7	174.33	0.8	21.8	23.7	20.2	3.44	6.873		
1,100.0	1,100.0	1,098.3	1,098.1	1.9	1.9	174.09	1.1	26.9	29.2	25.4	3.79	7.695		
1,200.0	1,200.0	1,198.1	1,197.7	2.1	2.1	173.88	1.5	33.3	35.9	31.8	4.14	8.673		
1,300.0	1,300.0	1,297.8	1,297.3	2.2	2.3	173.73	1.9	39.6	42.6	38.2	4.49	9.499		
1,400.0	1,400.0	1,397.6	1,396.8	2.4	2.5	173.63	2.3	46.0	49.4	44.5	4.84	10.207		
1,500.0	1,500.0	1,497.4	1,496.4	2.6	2.7	173.55	2.7	52.3	56.1	50.9	5.19	10.819		
1,600.0	1,600.0	1,597.2	1,596.0	2.8	2.9	173.48	3.1	58.7	62.8	57.3	5.53	11.354		
1,700.0	1,700.0	1,696.9	1,695.6	2.9	3.1	173.43	3.5	65.0	69.6	63.7	5.88	11.826		
1,800.0	1,800.0	1,796.7	1,795.1	3.1	3.3	173.39	3.8	71.4	76.3	70.1	6.23	12.245		
1,900.0	1,900.0	1,896.5	1,894.7	3.3	3.5	173.36	4.2	77.7	83.0	76.5	6.58	12.620		
2,000.0	2,000.0	1,996.3	1,994.3	3.5	3.7	173.33	4.6	84.1	89.8	82.8	6.93	12.957		
2,100.0	2,100.0	2,096.0	2,093.8	3.6	3.9	173.30	5.0	90.4	96.5	89.2	7.28	13.262		
2,200.0	2,200.0	2,195.8	2,193.4	3.8	4.1	173.28	5.4	96.8	103.2	95.6	7.63	13.538		
2,300.0	2,300.0	2,295.6	2,293.0	4.0	4.3	173.26	5.8	103.1	110.0	102.0	7.97	13.791		
2,400.0	2,400.0	2,395.3	2,392.6	4.2	4.5	173.24	6.2	109.4	116.7	108.4	8.32	14.023		
2,500.0	2,500.0	2,495.1	2,492.1	4.3	4.7	173.23	6.5	115.8	123.4	114.8	8.67	14.236		
2,600.0	2,600.0	2,594.9	2,591.7	4.5	4.9	173.21	6.9	122.1	130.2	121.2	9.02	14.432		
2,700.0	2,700.0	2,694.7	2,691.3	4.7	5.1	173.20	7.3	128.5	136.9	127.5	9.37	14.614		
2,800.0	2,800.0	2,794.4	2,790.8	4.9	5.3	173.19	7.7	134.8	143.6	133.9	9.72	14.783		
2,900.0	2,900.0	2,894.2	2,890.4	5.0	5.5	173.18	8.1	141.2	150.4	140.3	10.07	14.940		
3,000.0	3,000.0	2,994.0	2,990.0	5.2	5.7	173.17	8.5	147.5	157.1	146.7	10.41	15.086		
3,100.0	3,100.0	3,093.8	3,089.5	5.4	5.9	173.16	8.9	153.9	163.8	153.1	10.76	15.224		
3,200.0	3,200.0	3,193.5	3,189.1	5.6	6.1	173.15	9.3	160.2	170.6	159.5	11.11	15.352		
3,300.0	3,300.0	3,293.3	3,288.7	5.7	6.3	173.14	9.6	166.6	177.3	165.8	11.46	15.473		
3,400.0	3,400.0	3,393.1	3,388.3	5.9	6.5	173.14	10.0	172.9	184.0	172.2	11.81	15.586		
3,500.0	3,500.0	3,492.8	3,487.8	6.1	6.7	173.13	10.4	179.3	190.8	178.6	12.16	15.693		
3,600.0	3,600.0	3,592.6	3,587.4	6.3	6.9	173.13	10.8	185.6	197.5	185.0	12.50	15.795		
3,700.0	3,700.0	3,692.4	3,687.0	6.4	7.1	173.12	11.2	192.0	204.2	191.4	12.85	15.890		
3,800.0	3,800.0	3,792.2	3,786.5	6.6	7.3	173.11	11.6	198.3	211.0	197.8	13.20	15.981		
3,900.0	3,900.0	3,891.9	3,886.1	6.8	7.5	173.11	12.0	204.7	217.7	204.2	13.55	16.067		
4,000.0	4,000.0	3,991.7	3,985.7	7.0	7.7	173.11	12.3	211.0	224.4	210.5	13.90	16.148		
4,100.0	4,100.0	4,091.5	4,085.2	7.1	7.9	173.10	12.7	217.3	231.2	216.9	14.25	16.226		
4,200.0	4,200.0	4,191.3	4,184.8	7.3	8.1	173.10	13.1	223.7	237.9	223.3	14.60	16.300		
4,300.0	4,300.0	4,291.0	4,284.4	7.5	8.3	173.09	13.5	230.0	244.6	229.7	14.94	16.370		
4,400.0	4,400.0	4,390.8	4,384.0	7.7	8.6	173.09	13.9	236.4	251.4	236.1	15.29	16.437		
4,500.0	4,500.0	4,490.6	4,483.5	7.8	8.8	173.09	14.3	242.7	258.1	242.5	15.64	16.502		
4,600.0	4,600.0	4,590.3	4,583.1	8.0	9.0	173.08	14.7	249.1	264.8	248.9	15.99	16.563		
4,700.0	4,700.0	4,690.1	4,682.7	8.2	9.2	173.08	15.0	255.4	271.6	255.2	16.34	16.622		
4,800.0	4,800.0	4,789.9	4,782.2	8.4	9.4	173.08	15.4	261.8	278.3	261.6	16.69	16.678		
4,900.0	4,900.0	4,889.7	4,881.8	8.5	9.6	173.07	15.8	268.1	285.0	268.0	17.04	16.732		
5,000.0	5,000.0	4,989.4	4,981.4	8.7	9.8	173.07	16.2	274.5	291.8	274.4	17.38	16.784		
5,100.0	5,100.0	5,089.2	5,080.9	8.9	10.0	173.07	16.6	280.8	298.5	280.8	17.73	16.834		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,200.0	5,189.0	5,180.5	9.1	10.2	173.07	17.0	287.2	305.2	287.2	18.08	16.882		
5,300.0	5,300.0	5,288.8	5,280.1	9.2	10.4	173.06	17.4	293.5	312.0	293.5	18.43	16.928		
5,400.0	5,400.0	5,388.5	5,379.7	9.4	10.6	173.06	17.7	299.9	318.7	299.9	18.78	16.973		
5,500.0	5,500.0	5,488.3	5,479.2	9.6	10.8	173.06	18.1	306.2	325.4	306.3	19.13	17.015		
5,600.0	5,600.0	5,588.1	5,578.8	9.8	11.0	173.06	18.5	312.5	332.2	312.7	19.47	17.057		
5,700.0	5,700.0	5,687.9	5,678.4	9.9	11.2	173.06	18.9	318.9	338.9	319.1	19.82	17.097		
5,800.0	5,800.0	5,787.6	5,777.9	10.1	11.4	173.05	19.3	325.2	345.6	325.5	20.17	17.135		
5,900.0	5,900.0	5,887.4	5,877.5	10.3	11.6	173.05	19.7	331.6	352.4	331.9	20.52	17.172		
6,000.0	6,000.0	5,987.2	5,977.1	10.5	11.8	173.05	20.1	337.9	359.1	338.2	20.87	17.208		
6,100.0	6,100.0	6,086.9	6,076.6	10.6	12.1	173.05	20.5	344.3	365.8	344.6	21.22	17.243		
6,200.0	6,200.0	6,186.7	6,176.2	10.8	12.3	173.05	20.8	350.6	372.6	351.0	21.57	17.276		
6,300.0	6,300.0	6,286.5	6,275.8	11.0	12.5	173.04	21.2	357.0	379.3	357.4	21.91	17.309		
6,400.0	6,400.0	6,386.3	6,375.4	11.2	12.7	173.04	21.6	363.3	386.0	363.8	22.26	17.340		
6,500.0	6,500.0	6,486.0	6,474.9	11.3	12.9	173.04	22.0	369.7	392.8	370.2	22.61	17.371		
6,600.0	6,600.0	6,585.8	6,574.5	11.5	13.1	173.04	22.4	376.0	399.5	376.6	22.96	17.400		
6,700.0	6,700.0	6,687.1	6,675.5	11.7	13.3	173.32	20.8	382.5	406.2	382.8	23.31	17.423		
6,800.0	6,799.8	6,788.5	6,775.6	11.9	13.5	-92.76	6.6	388.8	412.5	388.9	23.66	17.434		
6,900.0	6,898.0	6,888.4	6,871.4	12.0	13.7	-89.87	-21.2	394.9	419.0	395.0	24.03	17.437		
7,000.0	6,992.8	6,987.1	6,961.2	12.2	14.0	-87.77	-61.5	400.7	425.5	401.0	24.45	17.399		
7,100.0	7,082.2	7,084.5	7,043.6	12.5	14.3	-85.93	-112.9	405.9	431.8	406.8	24.99	17.280		
7,200.0	7,164.6	7,180.8	7,117.5	12.9	14.7	-84.27	-174.4	410.6	437.8	412.1	25.70	17.039		
7,300.0	7,238.2	7,276.0	7,181.9	13.4	15.2	-82.80	-244.4	414.7	443.4	416.7	26.64	16.645		
7,400.0	7,301.8	7,370.4	7,235.9	14.0	15.8	-81.50	-321.5	418.2	448.3	420.5	27.86	16.090		
7,500.0	7,354.0	7,463.9	7,279.1	14.9	16.6	-80.38	-404.3	420.9	452.5	423.1	29.40	15.390		
7,600.0	7,393.9	7,556.7	7,310.9	15.8	17.4	-79.46	-491.4	423.0	455.9	424.6	31.26	14.584		
7,700.0	7,420.6	7,650.0	7,331.3	17.0	18.4	-78.73	-582.4	424.3	458.3	424.9	33.42	13.714		
7,800.0	7,433.7	7,740.8	7,339.7	18.2	19.5	-78.21	-672.7	424.8	459.7	423.9	35.80	12.839		
7,900.0	7,435.0	7,838.8	7,340.0	19.6	20.7	-78.08	-770.8	424.8	459.9	421.5	38.42	11.970		
8,000.0	7,435.0	7,938.8	7,340.0	20.9	22.1	-78.08	-870.8	424.8	459.9	418.8	41.14	11.178		
8,100.0	7,435.0	8,038.8	7,340.0	22.4	23.4	-78.08	-970.8	424.8	459.9	415.9	43.96	10.461		
8,200.0	7,435.0	8,138.8	7,340.0	23.9	24.9	-78.08	-1,070.8	424.8	459.9	413.0	46.87	9.813		
8,300.0	7,435.0	8,238.8	7,340.0	25.4	26.3	-78.08	-1,170.8	424.8	459.9	410.1	49.84	9.228		
8,400.0	7,435.0	8,338.8	7,340.0	26.9	27.8	-78.08	-1,270.8	424.8	459.9	407.0	52.86	8.700		
8,500.0	7,435.0	8,438.8	7,340.0	28.5	29.3	-78.08	-1,370.8	424.8	459.9	404.0	55.94	8.222		
8,600.0	7,435.0	8,538.8	7,340.0	30.1	30.9	-78.08	-1,470.8	424.8	459.9	400.9	59.05	7.788		
8,700.0	7,435.0	8,638.8	7,340.0	31.7	32.4	-78.08	-1,570.8	424.8	459.9	397.7	62.20	7.394		
8,800.0	7,435.0	8,738.8	7,340.0	33.3	34.0	-78.08	-1,670.8	424.8	459.9	394.5	65.37	7.035		
8,900.0	7,435.0	8,838.8	7,340.0	35.0	35.6	-78.08	-1,770.8	424.8	459.9	391.3	68.57	6.707		
9,000.0	7,435.0	8,938.8	7,340.0	36.6	37.3	-78.08	-1,870.8	424.8	459.9	388.1	71.80	6.406		
9,100.0	7,435.0	9,038.8	7,340.0	38.3	38.9	-78.08	-1,970.8	424.8	459.9	384.9	75.04	6.129		
9,200.0	7,435.0	9,138.8	7,340.0	39.9	40.5	-78.08	-2,070.8	424.8	459.9	381.6	78.29	5.874		
9,300.0	7,435.0	9,238.8	7,340.0	41.6	42.2	-78.08	-2,170.8	424.8	459.9	378.3	81.57	5.638		
9,400.0	7,435.0	9,338.8	7,340.0	43.3	43.8	-78.08	-2,270.8	424.8	459.9	375.1	84.85	5.420		
9,500.0	7,435.0	9,438.8	7,340.0	45.0	45.5	-78.08	-2,370.8	424.8	459.9	371.8	88.15	5.218		
9,600.0	7,435.0	9,538.8	7,340.0	46.7	47.2	-78.08	-2,470.8	424.8	459.9	368.5	91.45	5.029		
9,700.0	7,435.0	9,638.8	7,340.0	48.3	48.8	-78.08	-2,570.8	424.8	459.9	365.1	94.77	4.853		
9,800.0	7,435.0	9,738.8	7,340.0	50.0	50.5	-78.08	-2,670.8	424.8	459.9	361.8	98.09	4.689		
9,900.0	7,435.0	9,838.8	7,340.0	51.7	52.2	-78.08	-2,770.8	424.8	459.9	358.5	101.42	4.535		
10,000.0	7,435.0	9,938.8	7,340.0	53.5	53.9	-78.08	-2,870.8	424.8	459.9	355.1	104.76	4.390		
10,100.0	7,435.0	10,038.8	7,340.0	55.2	55.6	-78.08	-2,970.8	424.8	459.9	351.8	108.10	4.254		
10,200.0	7,435.0	10,138.8	7,340.0	56.9	57.3	-78.08	-3,070.8	424.8	459.9	348.5	111.45	4.127		
10,300.0	7,435.0	10,238.8	7,340.0	58.6	59.0	-78.08	-3,170.8	424.8	459.9	345.1	114.80	4.006		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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	Measured Depth	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Uncertainty Axis	Factor		
10,400.0	7,435.0	10,338.8	7,340.0	60.3	60.7	-78.08	-3,270.8	424.8	459.9	341.7	118.16	3.892		
10,500.0	7,435.0	10,438.8	7,340.0	62.0	62.4	-78.08	-3,370.8	424.8	459.9	338.4	121.52	3.784		
10,600.0	7,435.0	10,538.8	7,340.0	63.7	64.1	-78.08	-3,470.8	424.8	459.9	335.0	124.89	3.682		
10,700.0	7,435.0	10,638.8	7,340.0	65.5	65.8	-78.08	-3,570.8	424.8	459.9	331.6	128.26	3.586		
10,800.0	7,435.0	10,738.8	7,340.0	67.2	67.5	-78.08	-3,670.8	424.8	459.9	328.3	131.63	3.494		
10,900.0	7,435.0	10,838.8	7,340.0	68.9	69.3	-78.08	-3,770.8	424.8	459.9	324.9	135.01	3.406		
11,000.0	7,435.0	10,938.8	7,340.0	70.6	71.0	-78.08	-3,870.8	424.8	459.9	321.5	138.39	3.323		
11,100.0	7,435.0	11,038.8	7,340.0	72.4	72.7	-78.08	-3,970.8	424.8	459.9	318.1	141.77	3.244		
11,200.0	7,435.0	11,138.8	7,340.0	74.1	74.4	-78.08	-4,070.8	424.8	459.9	314.8	145.15	3.168		
11,300.0	7,435.0	11,238.8	7,340.0	75.8	76.1	-78.08	-4,170.8	424.8	459.9	311.4	148.54	3.096		
11,400.0	7,435.0	11,338.8	7,340.0	77.6	77.9	-78.08	-4,270.8	424.8	459.9	308.0	151.93	3.027		
11,500.0	7,435.0	11,438.8	7,340.0	79.3	79.6	-78.08	-4,370.8	424.8	459.9	304.6	155.32	2.961		
11,600.0	7,435.0	11,538.8	7,340.0	81.0	81.3	-78.08	-4,470.8	424.8	459.9	301.2	158.71	2.898		
11,700.0	7,435.0	11,638.8	7,340.0	82.8	83.0	-78.08	-4,570.8	424.8	459.9	297.8	162.11	2.837		
11,800.0	7,435.0	11,738.8	7,340.0	84.5	84.8	-78.08	-4,670.8	424.8	459.9	294.4	165.50	2.779		
11,900.0	7,435.0	11,838.8	7,340.0	86.2	86.5	-78.08	-4,770.8	424.8	459.9	291.0	168.90	2.723		
11,906.3	7,435.0	11,845.1	7,340.0	86.3	86.6	-78.08	-4,777.1	424.8	459.9	290.8	169.11	2.720		
11,924.8	7,435.0	11,854.7	7,340.0	86.7	86.8	-78.08	-4,786.6	424.8	460.0	290.4	169.59	2.712 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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	87.91	1.1	29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.91	1.1	29.9	29.9	29.6	0.30	98.584		
200.0	200.0	200.0	200.0	0.3	0.3	87.91	1.1	29.9	29.9	29.3	0.65	45.865		
300.0	300.0	300.0	300.0	0.5	0.5	87.91	1.1	29.9	29.9	28.9	1.00	29.884		
400.0	400.0	400.0	400.0	0.7	0.7	87.91	1.1	29.9	29.9	28.6	1.35	22.162		
500.0	500.0	500.0	500.0	0.8	0.8	87.91	1.1	29.9	29.9	28.2	1.70	17.612 CC		
600.0	600.0	600.0	600.0	1.0	1.0	174.02	1.1	29.9	30.3	28.2	2.05	14.779 ES		
700.0	700.0	700.0	700.0	1.2	1.2	174.09	1.1	29.9	30.6	28.2	2.40	12.779		
800.0	800.0	798.9	798.9	1.4	1.4	174.13	1.2	31.6	32.7	30.0	2.75	11.923		
900.0	900.0	897.5	897.4	1.5	1.6	174.11	1.4	36.7	38.3	35.2	3.09	12.376		
1,000.0	1,000.0	996.9	996.4	1.7	1.7	174.08	1.7	44.3	46.3	42.8	3.44	13.453		
1,100.0	1,100.0	1,096.5	1,095.8	1.9	1.9	174.05	2.0	52.0	54.4	50.6	3.79	14.360		
1,200.0	1,200.0	1,196.2	1,195.1	2.1	2.1	174.03	2.4	59.8	62.5	58.4	4.14	15.113		
1,300.0	1,300.0	1,295.9	1,294.5	2.2	2.4	174.02	2.7	67.5	70.6	66.2	4.48	15.750		
1,400.0	1,400.0	1,395.5	1,393.9	2.4	2.6	174.00	3.0	75.2	78.8	73.9	4.83	16.295		
1,500.0	1,500.0	1,495.2	1,493.3	2.6	2.8	173.99	3.3	82.9	86.9	81.7	5.18	16.767		
1,600.0	1,600.0	1,594.9	1,592.6	2.8	3.0	173.98	3.7	90.7	95.0	89.5	5.53	17.179		
1,700.0	1,700.0	1,694.5	1,692.0	2.9	3.2	173.98	4.0	98.4	103.1	97.2	5.88	17.543		
1,800.0	1,800.0	1,794.2	1,791.4	3.1	3.4	173.97	4.3	106.1	111.2	105.0	6.23	17.865		
1,900.0	1,900.0	1,893.9	1,890.7	3.3	3.6	173.97	4.7	113.9	119.4	112.8	6.57	18.154		
2,000.0	2,000.0	1,993.6	1,990.1	3.5	3.8	173.96	5.0	121.6	127.5	120.6	6.92	18.414		
2,100.0	2,100.0	2,093.2	2,089.5	3.6	4.1	173.96	5.3	129.3	135.6	128.3	7.27	18.649		
2,200.0	2,200.0	2,192.9	2,188.8	3.8	4.3	173.95	5.6	137.0	143.7	136.1	7.62	18.862		
2,300.0	2,300.0	2,292.6	2,288.2	4.0	4.5	173.95	6.0	144.8	151.8	143.9	7.97	19.057		
2,400.0	2,400.0	2,392.2	2,387.6	4.2	4.7	173.95	6.3	152.5	160.0	151.6	8.32	19.235		
2,500.0	2,500.0	2,491.9	2,486.9	4.3	4.9	173.95	6.6	160.2	168.1	159.4	8.66	19.399		
2,600.0	2,600.0	2,591.6	2,586.3	4.5	5.1	173.94	6.9	167.9	176.2	167.2	9.01	19.550		
2,700.0	2,700.0	2,691.2	2,685.7	4.7	5.4	173.94	7.3	175.7	184.3	175.0	9.36	19.690		
2,800.0	2,800.0	2,790.9	2,785.1	4.9	5.6	173.94	7.6	183.4	192.4	182.7	9.71	19.821		
2,900.0	2,900.0	2,890.6	2,884.4	5.0	5.8	173.94	7.9	191.1	200.6	190.5	10.06	19.942		
3,000.0	3,000.0	2,990.2	2,983.8	5.2	6.0	173.94	8.3	198.8	208.7	198.3	10.41	20.055		
3,100.0	3,100.0	3,089.9	3,083.2	5.4	6.2	173.94	8.6	206.6	216.8	206.0	10.75	20.160		
3,200.0	3,200.0	3,189.6	3,182.5	5.6	6.4	173.93	8.9	214.3	224.9	213.8	11.10	20.259		
3,300.0	3,300.0	3,289.3	3,281.9	5.7	6.7	173.93	9.2	222.0	233.0	221.6	11.45	20.352		
3,400.0	3,400.0	3,388.9	3,381.3	5.9	6.9	173.93	9.6	229.8	241.2	229.4	11.80	20.440		
3,500.0	3,500.0	3,488.6	3,480.6	6.1	7.1	173.93	9.9	237.5	249.3	237.1	12.15	20.522		
3,600.0	3,600.0	3,588.3	3,580.0	6.3	7.3	173.93	10.2	245.2	257.4	244.9	12.50	20.600		
3,700.0	3,700.0	3,687.9	3,679.4	6.4	7.5	173.93	10.5	252.9	265.5	252.7	12.84	20.674		
3,800.0	3,800.0	3,787.6	3,778.7	6.6	7.8	173.93	10.9	260.7	273.6	260.4	13.19	20.744		
3,900.0	3,900.0	3,887.3	3,878.1	6.8	8.0	173.93	11.2	268.4	281.8	268.2	13.54	20.810		
4,000.0	4,000.0	3,986.9	3,977.5	7.0	8.2	173.93	11.5	276.1	289.9	276.0	13.89	20.873		
4,100.0	4,100.0	4,086.6	4,076.9	7.1	8.4	173.92	11.9	283.8	298.0	283.8	14.24	20.932		
4,200.0	4,200.0	4,186.3	4,176.2	7.3	8.6	173.92	12.2	291.6	306.1	291.5	14.58	20.989		
4,300.0	4,300.0	4,286.0	4,275.6	7.5	8.9	173.92	12.5	299.3	314.2	299.3	14.93	21.044		
4,400.0	4,400.0	4,385.6	4,375.0	7.7	9.1	173.92	12.8	307.0	322.4	307.1	15.28	21.096		
4,500.0	4,500.0	4,485.3	4,474.3	7.8	9.3	173.92	13.2	314.8	330.5	314.9	15.63	21.145		
4,600.0	4,600.0	4,585.0	4,573.7	8.0	9.5	173.92	13.5	322.5	338.6	322.6	15.98	21.192		
4,700.0	4,700.0	4,684.6	4,673.1	8.2	9.7	173.92	13.8	330.2	346.7	330.4	16.33	21.238		
4,800.0	4,800.0	4,784.3	4,772.4	8.4	10.0	173.92	14.2	337.9	354.8	338.2	16.67	21.281		
4,900.0	4,900.0	4,884.0	4,871.8	8.5	10.2	173.92	14.5	345.7	363.0	345.9	17.02	21.323		
5,000.0	5,000.0	4,983.6	4,971.2	8.7	10.4	173.92	14.8	353.4	371.1	353.7	17.37	21.363		
5,100.0	5,100.0	5,083.3	5,070.5	8.9	10.6	173.92	15.1	361.1	379.2	361.5	17.72	21.401		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		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			
5,200.0	5,200.0	5,183.0	5,169.9	9.1	10.8	173.92	15.5	368.8	387.3	369.3	18.07	21.438		
5,300.0	5,300.0	5,282.7	5,269.3	9.2	11.1	173.92	15.8	376.6	395.4	377.0	18.42	21.474		
5,400.0	5,400.0	5,382.3	5,368.7	9.4	11.3	173.92	16.1	384.3	403.6	384.8	18.76	21.508		
5,500.0	5,500.0	5,482.0	5,468.0	9.6	11.5	173.92	16.4	392.0	411.7	392.6	19.11	21.541		
5,600.0	5,600.0	5,581.7	5,567.4	9.8	11.7	173.92	16.8	399.7	419.8	400.3	19.46	21.573		
5,700.0	5,700.0	5,681.3	5,666.8	9.9	11.9	173.92	17.1	407.5	427.9	408.1	19.81	21.603		
5,800.0	5,800.0	5,781.0	5,766.1	10.1	12.2	173.92	17.4	415.2	436.0	415.9	20.16	21.633		
5,900.0	5,900.0	5,880.7	5,865.5	10.3	12.4	173.92	17.8	422.9	444.2	423.7	20.50	21.662		
6,000.0	6,000.0	5,980.3	5,964.9	10.5	12.6	173.92	18.1	430.7	452.3	431.4	20.85	21.689		
6,100.0	6,100.0	6,080.0	6,064.2	10.6	12.8	173.91	18.4	438.4	460.4	439.2	21.20	21.716		
6,200.0	6,200.0	6,179.7	6,163.6	10.8	13.0	173.91	18.7	446.1	468.5	447.0	21.55	21.742		
6,300.0	6,300.0	6,279.4	6,263.0	11.0	13.3	173.91	19.1	453.8	476.6	454.7	21.90	21.767		
6,400.0	6,400.0	6,379.0	6,362.3	11.2	13.5	173.91	19.4	461.6	484.8	462.5	22.25	21.791		
6,500.0	6,500.0	6,478.7	6,461.7	11.3	13.7	173.91	19.7	469.3	492.9	470.3	22.59	21.815		
6,600.0	6,600.0	6,578.4	6,561.1	11.5	13.9	173.91	20.1	477.0	501.0	478.1	22.94	21.838		
6,700.0	6,700.0	6,678.0	6,660.5	11.7	14.1	173.91	20.4	484.7	509.1	485.8	23.29	21.860		
6,800.0	6,799.8	6,778.9	6,761.0	11.9	14.4	-93.81	19.4	492.6	517.4	493.7	23.64	21.886		
6,900.0	6,898.0	6,882.0	6,862.9	12.0	14.6	-92.73	6.3	500.5	525.6	501.6	24.00	21.898		
7,000.0	6,992.8	6,986.1	6,962.7	12.2	14.8	-92.33	-21.7	508.2	533.6	509.2	24.42	21.854		
7,100.0	7,082.2	7,090.9	7,058.1	12.5	15.1	-92.04	-64.3	515.7	541.1	516.2	24.94	21.694		
7,200.0	7,164.6	7,196.4	7,146.9	12.9	15.4	-91.78	-120.8	522.6	548.1	522.4	25.66	21.362		
7,300.0	7,238.2	7,302.6	7,226.8	13.4	15.9	-91.52	-190.2	528.8	554.2	527.6	26.63	20.812		
7,400.0	7,301.8	7,409.2	7,296.0	14.0	16.5	-91.25	-271.0	534.2	559.6	531.6	27.93	20.034		
7,500.0	7,354.0	7,516.2	7,352.6	14.9	17.2	-90.96	-361.6	538.6	563.9	534.3	29.58	19.060		
7,600.0	7,393.9	7,623.3	7,395.1	15.8	18.1	-90.68	-459.7	541.9	567.1	535.5	31.59	17.954		
7,700.0	7,420.6	7,730.4	7,422.7	17.0	19.2	-90.39	-563.1	544.0	569.2	535.3	33.91	16.788		
7,800.0	7,433.7	7,837.2	7,434.5	18.2	20.4	-90.10	-669.1	544.9	570.1	533.6	36.47	15.630		
7,900.0	7,435.0	7,938.9	7,435.0	19.6	21.6	-90.00	-770.8	545.0	570.1	531.0	39.16	14.560		
8,000.0	7,435.0	8,038.9	7,435.0	20.9	22.9	-90.00	-870.8	545.0	570.1	528.2	41.94	13.595		
8,100.0	7,435.0	8,138.9	7,435.0	22.4	24.2	-90.00	-970.8	545.0	570.1	525.3	44.82	12.721		
8,200.0	7,435.0	8,238.9	7,435.0	23.9	25.6	-90.00	-1,070.8	545.0	570.1	522.4	47.78	11.932		
8,300.0	7,435.0	8,338.9	7,435.0	25.4	27.0	-90.00	-1,170.8	545.0	570.1	519.3	50.82	11.219		
8,400.0	7,435.0	8,438.9	7,435.0	26.9	28.5	-90.00	-1,270.8	545.0	570.1	516.2	53.91	10.575		
8,500.0	7,435.0	8,538.9	7,435.0	28.5	30.0	-90.00	-1,370.8	545.0	570.1	513.1	57.05	9.993		
8,600.0	7,435.0	8,638.9	7,435.0	30.1	31.5	-90.00	-1,470.8	545.0	570.1	509.9	60.23	9.465		
8,700.0	7,435.0	8,738.9	7,435.0	31.7	33.0	-90.00	-1,570.8	545.0	570.1	506.7	63.45	8.986		
8,800.0	7,435.0	8,838.9	7,435.0	33.3	34.6	-90.00	-1,670.8	545.0	570.1	503.4	66.69	8.549		
8,900.0	7,435.0	8,938.9	7,435.0	35.0	36.2	-90.00	-1,770.8	545.0	570.1	500.2	69.97	8.149		
9,000.0	7,435.0	9,038.9	7,435.0	36.6	37.8	-90.00	-1,870.8	545.0	570.1	496.9	73.26	7.783		
9,100.0	7,435.0	9,138.9	7,435.0	38.3	39.4	-90.00	-1,970.8	545.0	570.1	493.6	76.57	7.446		
9,200.0	7,435.0	9,238.9	7,435.0	39.9	41.0	-90.00	-2,070.8	545.0	570.1	490.2	79.90	7.136		
9,300.0	7,435.0	9,338.9	7,435.0	41.6	42.6	-90.00	-2,170.8	545.0	570.1	486.9	83.24	6.849		
9,400.0	7,435.0	9,438.9	7,435.0	43.3	44.3	-90.00	-2,270.8	545.0	570.1	483.5	86.60	6.584		
9,500.0	7,435.0	9,538.9	7,435.0	45.0	45.9	-90.00	-2,370.8	545.0	570.1	480.2	89.97	6.337		
9,600.0	7,435.0	9,638.9	7,435.0	46.7	47.6	-90.00	-2,470.8	545.0	570.1	476.8	93.34	6.108		
9,700.0	7,435.0	9,738.9	7,435.0	48.3	49.2	-90.00	-2,570.8	545.0	570.1	473.4	96.73	5.894		
9,800.0	7,435.0	9,838.9	7,435.0	50.0	50.9	-90.00	-2,670.8	545.0	570.1	470.0	100.13	5.694		
9,900.0	7,435.0	9,938.9	7,435.0	51.7	52.6	-90.00	-2,770.8	545.0	570.1	466.6	103.53	5.507		
10,000.0	7,435.0	10,038.9	7,435.0	53.5	54.3	-90.00	-2,870.8	545.0	570.1	463.2	106.94	5.331		
10,100.0	7,435.0	10,138.9	7,435.0	55.2	55.9	-90.00	-2,970.8	545.0	570.1	459.8	110.36	5.166		
10,200.0	7,435.0	10,238.9	7,435.0	56.9	57.6	-90.00	-3,070.8	545.0	570.1	456.4	113.78	5.011		
10,300.0	7,435.0	10,338.9	7,435.0	58.6	59.3	-90.00	-3,170.8	545.0	570.1	452.9	117.21	4.864		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,400.0	7,435.0	10,438.9	7,435.0	60.3	61.0	-90.00	-3,270.8	545.0	570.1	449.5	120.64	4.726		
10,500.0	7,435.0	10,538.9	7,435.0	62.0	62.7	-90.00	-3,370.8	545.0	570.1	446.1	124.07	4.595		
10,600.0	7,435.0	10,638.9	7,435.0	63.7	64.4	-90.00	-3,470.8	545.0	570.1	442.6	127.51	4.471		
10,700.0	7,435.0	10,738.9	7,435.0	65.5	66.1	-90.00	-3,570.8	545.0	570.1	439.2	130.96	4.354		
10,800.0	7,435.0	10,838.9	7,435.0	67.2	67.8	-90.00	-3,670.8	545.0	570.1	435.7	134.40	4.242		
10,900.0	7,435.0	10,938.9	7,435.0	68.9	69.5	-90.00	-3,770.8	545.0	570.1	432.3	137.85	4.136		
11,000.0	7,435.0	11,038.9	7,435.0	70.6	71.2	-90.00	-3,870.8	545.0	570.1	428.8	141.31	4.035		
11,100.0	7,435.0	11,138.9	7,435.0	72.4	73.0	-90.00	-3,970.8	545.0	570.1	425.4	144.76	3.939		
11,200.0	7,435.0	11,238.9	7,435.0	74.1	74.7	-90.00	-4,070.8	545.0	570.1	421.9	148.22	3.847		
11,300.0	7,435.0	11,338.9	7,435.0	75.8	76.4	-90.00	-4,170.8	545.0	570.1	418.5	151.68	3.759		
11,400.0	7,435.0	11,419.9	7,435.0	77.6	77.8	-90.00	-4,251.8	545.9	571.4	416.6	154.81	3.691		
11,500.0	7,435.0	11,500.0	7,435.0	79.3	79.2	-90.00	-4,331.8	550.4	576.9	419.0	157.93	3.653		
11,600.0	7,435.0	11,568.6	7,435.0	81.0	80.4	-90.00	-4,400.0	557.3	586.8	426.0	160.84	3.648 SF		
11,700.0	7,435.0	11,642.0	7,435.0	82.8	81.6	-90.00	-4,472.6	567.8	601.0	437.2	163.83	3.668		
11,800.0	7,435.0	11,714.2	7,435.0	84.5	82.9	-90.00	-4,543.7	581.1	619.4	452.6	166.79	3.714		
11,900.0	7,435.0	11,785.3	7,435.0	86.2	84.1	-90.00	-4,612.8	597.1	642.0	472.3	169.72	3.783		
11,924.8	7,435.0	11,800.0	7,435.0	86.7	84.4	-90.00	-4,627.1	600.8	648.2	477.8	170.40	3.804		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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: 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	131.753			
200.0	200.0	200.0	200.0	0.3	0.3	87.91	1.5	40.0	40.0	39.4	0.65	61.297			
300.0	300.0	300.0	300.0	0.5	0.5	87.91	1.5	40.0	40.0	39.0	1.00	39.939			
400.0	400.0	400.0	400.0	0.7	0.7	87.91	1.5	40.0	40.0	38.7	1.35	29.619			
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			
600.0	600.0	600.0	600.0	1.0	1.0	174.00	1.5	40.0	40.4	38.3	2.05	19.695 ES			
700.0	700.0	698.6	698.5	1.2	1.2	174.03	1.5	41.7	42.4	40.0	2.40	17.715			
800.0	800.0	796.9	796.7	1.4	1.4	174.02	1.8	46.7	48.0	45.2	2.74	17.491			
900.0	900.0	894.7	894.2	1.5	1.6	173.98	2.1	55.1	56.9	53.8	3.09	18.427			
1,000.0	1,000.0	992.5	991.3	1.7	1.8	173.94	2.6	66.6	69.0	65.6	3.43	20.114			
1,100.0	1,100.0	1,091.7	1,089.7	1.9	2.0	173.90	3.2	79.1	82.0	78.2	3.78	21.689			
1,200.0	1,200.0	1,190.8	1,188.1	2.1	2.3	173.87	3.7	91.6	94.9	90.8	4.13	23.000			
1,300.0	1,300.0	1,290.0	1,286.4	2.2	2.5	173.85	4.3	104.0	107.9	103.4	4.47	24.107			
1,400.0	1,400.0	1,389.2	1,384.8	2.4	2.8	173.83	4.8	116.5	120.8	116.0	4.82	25.055			
1,500.0	1,500.0	1,488.3	1,483.2	2.6	3.1	173.82	5.4	129.0	133.7	128.6	5.17	25.876			
1,600.0	1,600.0	1,587.5	1,581.5	2.8	3.3	173.81	5.9	141.4	146.7	141.2	5.52	26.593			
1,700.0	1,700.0	1,686.6	1,679.9	2.9	3.6	173.80	6.5	153.9	159.6	153.7	5.86	27.226			
1,800.0	1,800.0	1,785.8	1,778.3	3.1	3.9	173.79	7.0	166.3	172.6	166.3	6.21	27.788			
1,900.0	1,900.0	1,884.9	1,876.7	3.3	4.1	173.79	7.6	178.8	185.5	178.9	6.56	28.291			
2,000.0	2,000.0	1,984.1	1,975.0	3.5	4.4	173.78	8.1	191.3	198.4	191.5	6.90	28.743			
2,100.0	2,100.0	2,083.3	2,073.4	3.6	4.7	173.77	8.7	203.7	211.4	204.1	7.25	29.152			
2,200.0	2,200.0	2,182.4	2,171.8	3.8	5.0	173.77	9.2	216.2	224.3	216.7	7.60	29.523			
2,300.0	2,300.0	2,281.6	2,270.1	4.0	5.2	173.77	9.8	228.7	237.3	229.3	7.94	29.862			
2,400.0	2,400.0	2,380.7	2,368.5	4.2	5.5	173.76	10.3	241.1	250.2	241.9	8.29	30.173			
2,500.0	2,500.0	2,479.9	2,466.9	4.3	5.8	173.76	10.9	253.6	263.1	254.5	8.64	30.459			
2,600.0	2,600.0	2,579.1	2,565.3	4.5	6.1	173.76	11.4	266.1	276.1	267.1	8.99	30.723			
2,700.0	2,700.0	2,678.2	2,663.6	4.7	6.3	173.75	12.0	278.5	289.0	279.7	9.33	30.967			
2,800.0	2,800.0	2,777.4	2,762.0	4.9	6.6	173.75	12.5	291.0	302.0	292.3	9.68	31.194			
2,900.0	2,900.0	2,876.5	2,860.4	5.0	6.9	173.75	13.1	303.4	314.9	304.9	10.03	31.404			
3,000.0	3,000.0	2,975.7	2,958.7	5.2	7.2	173.75	13.6	315.9	327.8	317.5	10.37	31.601			
3,100.0	3,100.0	3,074.9	3,057.1	5.4	7.4	173.75	14.2	328.4	340.8	330.1	10.72	31.786			
3,200.0	3,200.0	3,174.0	3,155.5	5.6	7.7	173.74	14.7	340.8	353.7	342.6	11.07	31.958			
3,300.0	3,300.0	3,273.2	3,253.9	5.7	8.0	173.74	15.3	353.3	366.7	355.2	11.42	32.120			
3,400.0	3,400.0	3,372.3	3,352.2	5.9	8.3	173.74	15.8	365.8	379.6	367.8	11.76	32.273			
3,500.0	3,500.0	3,471.5	3,450.6	6.1	8.6	173.74	16.4	378.2	392.5	380.4	12.11	32.417			
3,600.0	3,600.0	3,570.7	3,549.0	6.3	8.8	173.74	16.9	390.7	405.5	393.0	12.46	32.552			
3,700.0	3,700.0	3,669.8	3,647.3	6.4	9.1	173.74	17.5	403.2	418.4	405.6	12.80	32.681			
3,800.0	3,800.0	3,769.0	3,745.7	6.6	9.4	173.74	18.0	415.6	431.4	418.2	13.15	32.803			
3,900.0	3,900.0	3,868.1	3,844.1	6.8	9.7	173.73	18.6	428.1	444.3	430.8	13.50	32.918			
4,000.0	4,000.0	3,967.3	3,942.5	7.0	9.9	173.73	19.1	440.5	457.2	443.4	13.84	33.028			
4,100.0	4,100.0	4,066.5	4,040.8	7.1	10.2	173.73	19.7	453.0	470.2	456.0	14.19	33.132			
4,200.0	4,200.0	4,165.6	4,139.2	7.3	10.5	173.73	20.2	465.5	483.1	468.6	14.54	33.231			
4,300.0	4,300.0	4,264.8	4,237.6	7.5	10.8	173.73	20.8	477.9	496.1	481.2	14.89	33.326			
4,400.0	4,400.0	4,363.9	4,335.9	7.7	11.1	173.73	21.3	490.4	509.0	493.8	15.23	33.416			
4,500.0	4,500.0	4,463.1	4,434.3	7.8	11.3	173.73	21.9	502.9	521.9	506.4	15.58	33.503			
4,600.0	4,600.0	4,562.2	4,532.7	8.0	11.6	173.73	22.4	515.3	534.9	519.0	15.93	33.585			
4,700.0	4,700.0	4,661.4	4,631.0	8.2	11.9	173.73	23.0	527.8	547.8	531.5	16.27	33.664			
4,800.0	4,800.0	4,760.6	4,729.4	8.4	12.2	173.73	23.5	540.3	560.8	544.1	16.62	33.740			
4,900.0	4,900.0	4,859.7	4,827.8	8.5	12.4	173.73	24.1	552.7	573.7	556.7	16.97	33.813			
5,000.0	5,000.0	4,958.9	4,926.2	8.7	12.7	173.73	24.6	565.2	586.6	569.3	17.31	33.883			
5,100.0	5,100.0	5,058.0	5,024.5	8.9	13.0	173.72	25.2	577.6	599.6	581.9	17.66	33.950			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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 +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,200.0	5,157.2	5,122.9	9.1	13.3	173.72	25.7	590.1	612.5	594.5	18.01	34.014		
5,300.0	5,300.0	5,256.4	5,221.3	9.2	13.6	173.72	26.3	602.6	625.5	607.1	18.35	34.076		
5,400.0	5,400.0	5,355.5	5,319.6	9.4	13.8	173.72	26.8	615.0	638.4	619.7	18.70	34.136		
5,500.0	5,500.0	5,454.7	5,418.0	9.6	14.1	173.72	27.4	627.5	651.3	632.3	19.05	34.193		
5,600.0	5,600.0	5,553.8	5,516.4	9.8	14.4	173.72	27.9	640.0	664.3	644.9	19.40	34.249		
5,700.0	5,700.0	5,653.0	5,614.8	9.9	14.7	173.72	28.5	652.4	677.2	657.5	19.74	34.302		
5,800.0	5,800.0	5,752.2	5,713.1	10.1	15.0	173.72	29.0	664.9	690.2	670.1	20.09	34.354		
5,900.0	5,900.0	5,851.3	5,811.5	10.3	15.2	173.72	29.6	677.3	703.1	682.7	20.44	34.404		
6,000.0	6,000.0	5,950.5	5,909.9	10.5	15.5	173.72	30.1	689.8	716.0	695.3	20.78	34.452		
6,100.0	6,100.0	6,049.6	6,008.2	10.6	15.8	173.72	30.6	702.3	729.0	707.9	21.13	34.499		
6,200.0	6,200.0	6,148.8	6,106.6	10.8	16.1	173.72	31.2	714.7	741.9	720.4	21.48	34.544		
6,300.0	6,300.0	6,248.0	6,205.0	11.0	16.3	173.72	31.7	727.2	754.9	733.0	21.82	34.588		
6,400.0	6,400.0	6,347.1	6,303.4	11.2	16.6	173.72	32.3	739.7	767.8	745.6	22.17	34.630		
6,500.0	6,500.0	6,446.3	6,401.7	11.3	16.9	173.72	32.8	752.1	780.7	758.2	22.52	34.671		
6,600.0	6,600.0	6,545.4	6,500.1	11.5	17.2	173.72	33.4	764.6	793.7	770.8	22.87	34.711		
6,700.0	6,700.0	6,644.6	6,598.5	11.7	17.5	173.72	33.9	777.1	806.6	783.4	23.21	34.749		
6,800.0	6,799.8	6,743.6	6,696.7	11.9	17.7	-93.62	34.5	789.5	819.7	796.2	23.56	34.798		
6,900.0	6,898.0	6,840.9	6,793.2	12.0	18.0	-92.74	35.0	801.7	833.5	809.6	23.90	34.867		
7,000.0	6,992.8	6,939.9	6,891.4	12.2	18.3	-93.33	34.4	814.2	848.3	824.1	24.28	34.946		
7,100.0	7,082.2	7,050.3	7,000.0	12.5	18.6	-94.32	20.3	827.8	863.8	839.0	24.73	34.927		
7,200.0	7,164.6	7,167.9	7,111.7	12.9	18.9	-95.32	-13.0	841.8	879.0	853.7	25.33	34.703		
7,300.0	7,238.2	7,293.1	7,223.1	13.4	19.3	-96.27	-68.2	855.7	893.5	867.3	26.16	34.153		
7,400.0	7,301.8	7,426.5	7,329.3	14.0	19.8	-97.12	-147.4	868.7	906.5	879.2	27.33	33.170		
7,500.0	7,354.0	7,567.6	7,423.8	14.9	20.4	-97.80	-251.3	880.1	917.3	888.4	28.92	31.720		
7,600.0	7,393.9	7,715.1	7,499.0	15.8	21.3	-98.23	-377.6	889.0	925.2	894.2	30.99	29.856		
7,700.0	7,420.6	7,866.9	7,548.0	17.0	22.5	-98.36	-520.9	894.5	929.8	896.2	33.53	27.729		
7,800.0	7,433.7	8,019.9	7,565.9	18.2	23.9	-98.15	-672.5	896.0	930.6	894.1	36.45	25.534		
7,900.0	7,435.0	8,122.9	7,566.0	19.6	25.0	-98.10	-775.5	895.4	929.9	890.9	39.03	23.822		
8,000.0	7,435.0	8,222.9	7,566.0	20.9	26.1	-98.10	-875.5	894.9	929.4	887.6	41.78	22.243		
8,100.0	7,435.0	8,322.9	7,566.0	22.4	27.3	-98.11	-975.5	894.4	928.9	884.2	44.63	20.811		
8,200.0	7,435.0	8,422.9	7,566.0	23.9	28.5	-98.11	-1,075.5	893.9	928.4	880.8	47.57	19.517		
8,300.0	7,435.0	8,522.9	7,566.0	25.4	29.8	-98.12	-1,175.5	893.4	927.9	877.3	50.57	18.349		
8,400.0	7,435.0	8,622.9	7,566.0	26.9	31.1	-98.12	-1,275.5	892.9	927.3	873.7	53.63	17.293		
8,500.0	7,435.0	8,722.9	7,566.0	28.5	32.5	-98.13	-1,375.5	892.3	926.8	870.1	56.73	16.337		
8,600.0	7,435.0	8,822.9	7,566.0	30.1	33.9	-98.13	-1,475.5	891.8	926.3	866.4	59.88	15.470		
8,700.0	7,435.0	8,922.9	7,566.0	31.7	35.3	-98.13	-1,575.5	891.3	925.8	862.8	63.06	14.682		
8,800.0	7,435.0	9,022.9	7,566.0	33.3	36.8	-98.14	-1,675.5	890.8	925.3	859.0	66.27	13.963		
8,900.0	7,435.0	9,122.9	7,566.0	35.0	38.3	-98.14	-1,775.5	890.3	924.8	855.3	69.50	13.306		
9,000.0	7,435.0	9,222.9	7,566.0	36.6	39.8	-98.15	-1,875.5	889.8	924.3	851.5	72.76	12.703		
9,100.0	7,435.0	9,322.9	7,566.0	38.3	41.3	-98.15	-1,975.5	889.3	923.8	847.7	76.04	12.149		
9,200.0	7,435.0	9,422.9	7,566.0	39.9	42.9	-98.16	-2,075.5	888.7	923.3	843.9	79.33	11.638		
9,300.0	7,435.0	9,522.9	7,566.0	41.6	44.4	-98.16	-2,175.5	888.2	922.8	840.1	82.64	11.166		
9,400.0	7,435.0	9,622.9	7,566.0	43.3	46.0	-98.17	-2,275.5	887.7	922.2	836.3	85.96	10.729		
9,500.0	7,435.0	9,722.9	7,566.0	45.0	47.6	-98.17	-2,375.5	887.2	921.7	832.4	89.29	10.323		
9,600.0	7,435.0	9,822.9	7,566.0	46.7	49.2	-98.18	-2,475.5	886.7	921.2	828.6	92.63	9.945		
9,700.0	7,435.0	9,922.9	7,566.0	48.3	50.8	-98.18	-2,575.5	886.2	920.7	824.7	95.98	9.593		
9,800.0	7,435.0	10,022.9	7,566.0	50.0	52.4	-98.18	-2,675.5	885.6	920.2	820.9	99.34	9.263		
9,900.0	7,435.0	10,122.9	7,566.0	51.7	54.1	-98.19	-2,775.5	885.1	919.7	817.0	102.71	8.955		
10,000.0	7,435.0	10,222.9	7,566.0	53.5	55.7	-98.19	-2,875.5	884.6	919.2	813.1	106.08	8.665		
10,100.0	7,435.0	10,322.9	7,566.0	55.2	57.3	-98.20	-2,975.5	884.1	918.7	809.2	109.46	8.393		
10,200.0	7,435.0	10,422.9	7,566.0	56.9	59.0	-98.20	-3,075.5	883.6	918.2	805.3	112.84	8.137		
10,300.0	7,435.0	10,522.9	7,566.0	58.6	60.7	-98.21	-3,175.5	883.1	917.6	801.4	116.23	7.895		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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 Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
10,400.0	7,435.0	10,622.9	7,566.0	60.3	62.3	-98.21	-3,275.5	882.6	917.1	797.5	119.63	7.667	
10,500.0	7,435.0	10,722.9	7,566.0	62.0	64.0	-98.22	-3,375.5	882.0	916.6	793.6	123.03	7.451	
10,600.0	7,435.0	10,822.9	7,566.0	63.7	65.7	-98.22	-3,475.5	881.5	916.1	789.7	126.43	7.246	
10,700.0	7,435.0	10,922.9	7,566.0	65.5	67.3	-98.23	-3,575.5	881.0	915.6	785.8	129.84	7.052	
10,800.0	7,435.0	11,022.9	7,566.0	67.2	69.0	-98.23	-3,675.5	880.5	915.1	781.9	133.25	6.868	
10,900.0	7,435.0	11,122.9	7,566.0	68.9	70.7	-98.24	-3,775.5	880.0	914.6	777.9	136.66	6.693	
11,000.0	7,435.0	11,222.9	7,566.0	70.6	72.4	-98.24	-3,875.4	879.5	914.1	774.0	140.07	6.526	
11,100.0	7,435.0	11,322.9	7,566.0	72.4	74.1	-98.24	-3,975.4	878.9	913.6	770.1	143.49	6.367	
11,200.0	7,435.0	11,422.9	7,566.0	74.1	75.8	-98.25	-4,075.4	878.4	913.1	766.1	146.91	6.215	
11,300.0	7,435.0	11,522.9	7,566.0	75.8	77.4	-98.25	-4,175.4	877.9	912.5	762.2	150.33	6.070	
11,400.0	7,435.0	11,622.9	7,566.0	77.6	79.1	-98.26	-4,275.4	877.4	912.0	758.3	153.76	5.932	
11,500.0	7,435.0	11,722.9	7,566.0	79.3	80.8	-98.26	-4,375.4	876.9	911.5	754.3	157.18	5.799	
11,600.0	7,435.0	11,822.9	7,566.0	81.0	82.5	-98.27	-4,475.4	876.4	911.0	750.4	160.61	5.672	
11,700.0	7,435.0	11,922.9	7,566.0	82.8	84.3	-98.27	-4,575.4	875.9	910.5	746.5	164.04	5.550	
11,800.0	7,435.0	12,022.9	7,566.0	84.5	86.0	-98.28	-4,675.4	875.3	910.0	742.5	167.47	5.434	
11,900.0	7,435.0	12,122.9	7,566.0	86.2	87.7	-98.28	-4,775.4	874.8	909.5	738.6	170.91	5.322	
11,907.4	7,435.0	12,125.7	7,566.0	86.4	87.7	-98.28	-4,778.2	874.8	909.5	738.4	171.08	5.316	
11,924.8	7,435.0	12,125.7	7,566.0	86.7	87.7	-98.28	-4,778.2	874.8	909.6	738.2	171.38	5.308 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #3														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	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			
500.0	500.0	500.0	500.0	0.8	0.8	87.92	1.8	50.1	50.1	48.4	1.70	29.462 CC, ES			
600.0	600.0	598.2	598.2	1.0	1.0	173.98	1.9	51.7	52.1	50.1	2.05	25.486			
700.0	700.0	696.2	696.1	1.2	1.2	173.99	2.1	56.8	57.6	55.2	2.39	24.103 SF			
800.0	800.0	793.7	793.2	1.4	1.4	173.97	2.5	65.1	66.5	63.8	2.74	24.320			
900.0	900.0	890.5	889.3	1.5	1.6	173.94	3.0	76.6	78.8	75.7	3.08	25.594			
1,000.0	1,000.0	987.5	985.2	1.7	1.9	173.90	3.6	91.2	94.2	90.8	3.42	27.520			
1,100.0	1,100.0	1,086.2	1,082.7	1.9	2.2	173.88	4.2	106.6	110.3	106.5	3.77	29.249			
1,200.0	1,200.0	1,184.9	1,180.2	2.1	2.5	173.86	4.9	122.1	126.3	122.2	4.12	30.688			
1,300.0	1,300.0	1,283.6	1,277.7	2.2	2.8	173.84	5.6	137.6	142.4	137.9	4.46	31.905			
1,400.0	1,400.0	1,382.3	1,375.1	2.4	3.1	173.83	6.2	153.1	158.4	153.6	4.81	32.946			
1,500.0	1,500.0	1,481.0	1,472.6	2.6	3.4	173.82	6.9	168.6	174.5	169.3	5.15	33.848			
1,600.0	1,600.0	1,579.7	1,570.1	2.8	3.7	173.82	7.6	184.0	190.5	185.0	5.50	34.636			
1,700.0	1,700.0	1,678.5	1,667.6	2.9	4.0	173.81	8.2	199.5	206.6	200.7	5.85	35.332			
1,800.0	1,800.0	1,777.2	1,765.1	3.1	4.3	173.80	8.9	215.0	222.6	216.4	6.19	35.950			
1,900.0	1,900.0	1,875.9	1,862.5	3.3	4.6	173.80	9.6	230.5	238.7	232.1	6.54	36.502			
2,000.0	2,000.0	1,974.6	1,960.0	3.5	5.0	173.79	10.2	245.9	254.7	247.8	6.88	36.999			
2,100.0	2,100.0	2,073.3	2,057.5	3.6	5.3	173.79	10.9	261.4	270.8	263.5	7.23	37.449			
2,200.0	2,200.0	2,172.0	2,155.0	3.8	5.6	173.79	11.5	276.9	286.8	279.2	7.58	37.857			
2,300.0	2,300.0	2,270.7	2,252.5	4.0	5.9	173.78	12.2	292.4	302.9	294.9	7.92	38.230			
2,400.0	2,400.0	2,369.4	2,349.9	4.2	6.2	173.78	12.9	307.8	318.9	310.6	8.27	38.572			
2,500.0	2,500.0	2,468.1	2,447.4	4.3	6.6	173.78	13.5	323.3	335.0	326.3	8.61	38.886			
2,600.0	2,600.0	2,566.8	2,544.9	4.5	6.9	173.78	14.2	338.8	351.0	342.1	8.96	39.177			
2,700.0	2,700.0	2,665.5	2,642.4	4.7	7.2	173.77	14.9	354.3	367.1	357.8	9.31	39.445			
2,800.0	2,800.0	2,764.2	2,739.9	4.9	7.5	173.77	15.5	369.7	383.1	373.5	9.65	39.694			
2,900.0	2,900.0	2,862.9	2,837.3	5.0	7.8	173.77	16.2	385.2	399.2	389.2	10.00	39.927			
3,000.0	3,000.0	2,961.6	2,934.8	5.2	8.2	173.77	16.9	400.7	415.2	404.9	10.34	40.143			
3,100.0	3,100.0	3,060.3	3,032.3	5.4	8.5	173.77	17.5	416.2	431.3	420.6	10.69	40.346			
3,200.0	3,200.0	3,159.0	3,129.8	5.6	8.8	173.76	18.2	431.6	447.3	436.3	11.04	40.536			
3,300.0	3,300.0	3,257.7	3,227.3	5.7	9.1	173.76	18.9	447.1	463.4	452.0	11.38	40.714			
3,400.0	3,400.0	3,356.4	3,324.7	5.9	9.4	173.76	19.5	462.6	479.4	467.7	11.73	40.882			
3,500.0	3,500.0	3,455.1	3,422.2	6.1	9.8	173.76	20.2	478.1	495.5	483.4	12.07	41.040			
3,600.0	3,600.0	3,553.8	3,519.7	6.3	10.1	173.76	20.8	493.5	511.5	499.1	12.42	41.190			
3,700.0	3,700.0	3,652.5	3,617.2	6.4	10.4	173.76	21.5	509.0	527.6	514.8	12.76	41.331			
3,800.0	3,800.0	3,751.2	3,714.7	6.6	10.7	173.76	22.2	524.5	543.6	530.5	13.11	41.465			
3,900.0	3,900.0	3,849.9	3,812.1	6.8	11.0	173.76	22.8	540.0	559.7	546.2	13.46	41.592			
4,000.0	4,000.0	3,948.6	3,909.6	7.0	11.4	173.76	23.5	555.4	575.7	561.9	13.80	41.713			
4,100.0	4,100.0	4,047.3	4,007.1	7.1	11.7	173.76	24.2	570.9	591.8	577.6	14.15	41.827			
4,200.0	4,200.0	4,146.0	4,104.6	7.3	12.0	173.76	24.8	586.4	607.8	593.3	14.49	41.937			
4,300.0	4,300.0	4,244.7	4,202.1	7.5	12.3	173.75	25.5	601.9	623.9	609.0	14.84	42.041			
4,400.0	4,400.0	4,343.4	4,299.5	7.7	12.7	173.75	26.2	617.4	639.9	624.7	15.19	42.140			
4,500.0	4,500.0	4,442.1	4,397.0	7.8	13.0	173.75	26.8	632.8	656.0	640.4	15.53	42.235			
4,600.0	4,600.0	4,540.9	4,494.5	8.0	13.3	173.75	27.5	648.3	672.0	656.2	15.88	42.326			
4,700.0	4,700.0	4,639.6	4,592.0	8.2	13.6	173.75	28.1	663.8	688.1	671.9	16.22	42.413			
4,800.0	4,800.0	4,738.3	4,689.5	8.4	14.0	173.75	28.8	679.3	704.1	687.6	16.57	42.497			
4,900.0	4,900.0	4,837.0	4,786.9	8.5	14.3	173.75	29.5	694.7	720.2	703.3	16.91	42.577			
5,000.0	5,000.0	4,935.7	4,884.4	8.7	14.6	173.75	30.1	710.2	736.2	719.0	17.26	42.654			
5,100.0	5,100.0	5,034.4	4,981.9	8.9	14.9	173.75	30.8	725.7	752.3	734.7	17.61	42.727			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #3													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		
5,200.0	5,200.0	5,133.1	5,079.4	9.1	15.2	173.75	31.5	741.2	768.3	750.4	17.95	42.798		
5,300.0	5,300.0	5,231.8	5,176.9	9.2	15.6	173.75	32.1	756.6	784.4	766.1	18.30	42.867		
5,400.0	5,400.0	5,330.5	5,274.4	9.4	15.9	173.75	32.8	772.1	800.4	781.8	18.64	42.932		
5,500.0	5,500.0	5,429.2	5,371.8	9.6	16.2	173.75	33.5	787.6	816.5	797.5	18.99	42.996		
5,600.0	5,600.0	5,527.9	5,469.3	9.8	16.5	173.75	34.1	803.1	832.5	813.2	19.34	43.057		
5,700.0	5,700.0	5,626.6	5,566.8	9.9	16.9	173.75	34.8	818.5	848.6	828.9	19.68	43.116		
5,800.0	5,800.0	5,725.3	5,664.3	10.1	17.2	173.75	35.4	834.0	864.6	844.6	20.03	43.173		
5,900.0	5,900.0	5,824.0	5,761.8	10.3	17.5	173.75	36.1	849.5	880.7	860.3	20.37	43.228		
6,000.0	6,000.0	5,922.7	5,859.2	10.5	17.8	173.75	36.8	865.0	896.7	876.0	20.72	43.281		
6,100.0	6,100.0	6,021.4	5,956.7	10.6	18.1	173.75	37.4	880.4	912.8	891.7	21.07	43.332		
6,200.0	6,200.0	6,120.1	6,054.2	10.8	18.5	173.75	38.1	895.9	928.8	907.4	21.41	43.382		
6,300.0	6,300.0	6,218.8	6,151.7	11.0	18.8	173.75	38.8	911.4	944.9	923.1	21.76	43.430		
6,400.0	6,400.0	6,317.5	6,249.2	11.2	19.1	173.75	39.4	926.9	960.9	938.8	22.10	43.477		
6,500.0	6,500.0	6,416.2	6,346.6	11.3	19.4	173.74	40.1	942.3	977.0	954.5	22.45	43.522		
6,600.0	6,600.0	6,514.9	6,444.1	11.5	19.8	173.74	40.8	957.8	993.0	970.3	22.79	43.566		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-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)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	87.92	2.2	60.1	60.2					
100.0	100.0	100.0	100.0	0.2	0.2	87.92	2.2	60.1	60.2	59.9	0.30	198.088		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	2.2	60.1	60.2	59.5	0.65	92.159		
300.0	300.0	300.0	300.0	0.5	0.5	87.92	2.2	60.1	60.2	59.2	1.00	60.048		
400.0	400.0	400.0	400.0	0.7	0.7	87.92	2.2	60.1	60.2	58.8	1.35	44.532 CC, ES		
500.0	500.0	497.9	497.9	0.8	0.8	87.91	2.3	61.8	61.9	60.2	1.70	36.426		
600.0	600.0	595.6	595.4	1.0	1.0	173.97	2.4	66.8	67.3	65.3	2.04	32.984		
700.0	700.0	692.7	692.2	1.2	1.2	173.98	2.8	75.0	76.2	73.8	2.39	31.946 SF		
800.0	800.0	789.2	788.0	1.4	1.5	173.98	3.2	86.5	88.4	85.7	2.73	32.417		
900.0	900.0	884.8	882.5	1.5	1.8	173.97	3.8	101.0	104.0	100.9	3.07	33.883		
1,000.0	1,000.0	981.6	977.7	1.7	2.1	173.96	4.5	118.4	122.3	118.9	3.41	35.839		
1,100.0	1,100.0	1,079.8	1,074.3	1.9	2.4	173.96	5.2	136.3	140.9	137.1	3.76	37.493		
1,200.0	1,200.0	1,178.1	1,170.9	2.1	2.7	173.95	5.9	154.2	159.5	155.4	4.10	38.869		
1,300.0	1,300.0	1,276.4	1,267.5	2.2	3.1	173.95	6.6	172.1	178.1	173.6	4.45	40.033		
1,400.0	1,400.0	1,374.6	1,364.1	2.4	3.4	173.94	7.3	190.0	196.6	191.9	4.79	41.029		
1,500.0	1,500.0	1,472.9	1,460.7	2.6	3.8	173.94	8.0	207.9	215.2	210.1	5.14	41.892		
1,600.0	1,600.0	1,571.1	1,557.4	2.8	4.1	173.94	8.7	225.8	233.8	228.3	5.48	42.647		
1,700.0	1,700.0	1,669.4	1,654.0	2.9	4.5	173.93	9.4	243.7	252.4	246.6	5.83	43.313		
1,800.0	1,800.0	1,767.6	1,750.6	3.1	4.8	173.93	10.1	261.6	271.0	264.8	6.17	43.904		
1,900.0	1,900.0	1,865.9	1,847.2	3.3	5.2	173.93	10.8	279.5	289.6	283.1	6.52	44.433		
2,000.0	2,000.0	1,964.1	1,943.8	3.5	5.5	173.93	11.5	297.4	308.2	301.3	6.86	44.909		
2,100.0	2,100.0	2,062.4	2,040.4	3.6	5.9	173.93	12.2	315.3	326.8	319.6	7.21	45.339		
2,200.0	2,200.0	2,160.7	2,137.0	3.8	6.2	173.93	12.9	333.2	345.4	337.8	7.55	45.731		
2,300.0	2,300.0	2,258.9	2,233.6	4.0	6.6	173.93	13.6	351.1	364.0	356.1	7.90	46.088		
2,400.0	2,400.0	2,357.2	2,330.2	4.2	7.0	173.93	14.3	369.0	382.6	374.3	8.24	46.415		
2,500.0	2,500.0	2,455.4	2,426.8	4.3	7.3	173.92	15.0	386.9	401.1	392.6	8.59	46.716		
2,600.0	2,600.0	2,553.7	2,523.4	4.5	7.7	173.92	15.7	404.8	419.7	410.8	8.93	46.994		
2,700.0	2,700.0	2,651.9	2,620.1	4.7	8.0	173.92	16.4	422.7	438.3	429.1	9.28	47.251		
2,800.0	2,800.0	2,750.2	2,716.7	4.9	8.4	173.92	17.1	440.6	456.9	447.3	9.62	47.490		
2,900.0	2,900.0	2,848.5	2,813.3	5.0	8.8	173.92	17.8	458.5	475.5	465.5	9.97	47.712		
3,000.0	3,000.0	2,946.7	2,909.9	5.2	9.1	173.92	18.6	476.4	494.1	483.8	10.31	47.920		
3,100.0	3,100.0	3,045.0	3,006.5	5.4	9.5	173.92	19.3	494.3	512.7	502.0	10.66	48.114		
3,200.0	3,200.0	3,143.2	3,103.1	5.6	9.8	173.92	20.0	512.2	531.3	520.3	11.00	48.296		
3,300.0	3,300.0	3,241.5	3,199.7	5.7	10.2	173.92	20.7	530.1	549.9	538.5	11.35	48.467		
3,400.0	3,400.0	3,339.7	3,296.3	5.9	10.6	173.92	21.4	548.0	568.5	556.8	11.69	48.628		
3,500.0	3,500.0	3,438.0	3,392.9	6.1	10.9	173.92	22.1	565.9	587.1	575.0	12.03	48.779		
3,600.0	3,600.0	3,536.3	3,489.5	6.3	11.3	173.92	22.8	583.8	605.6	593.3	12.38	48.923		
3,700.0	3,700.0	3,634.5	3,586.2	6.4	11.6	173.92	23.5	601.7	624.2	611.5	12.72	49.058		
3,800.0	3,800.0	3,732.8	3,682.8	6.6	12.0	173.92	24.2	619.6	642.8	629.8	13.07	49.186		
3,900.0	3,900.0	3,831.0	3,779.4	6.8	12.4	173.92	24.9	637.6	661.4	648.0	13.41	49.308		
4,000.0	4,000.0	3,929.3	3,876.0	7.0	12.7	173.92	25.6	655.5	680.0	666.2	13.76	49.424		
4,100.0	4,100.0	4,027.5	3,972.6	7.1	13.1	173.92	26.3	673.4	698.6	684.5	14.10	49.534		
4,200.0	4,200.0	4,125.8	4,069.2	7.3	13.4	173.92	27.0	691.3	717.2	702.7	14.45	49.639		
4,300.0	4,300.0	4,224.1	4,165.8	7.5	13.8	173.92	27.7	709.2	735.8	721.0	14.79	49.738		
4,400.0	4,400.0	4,322.3	4,262.4	7.7	14.2	173.92	28.4	727.1	754.4	739.2	15.14	49.834		
4,500.0	4,500.0	4,420.6	4,359.0	7.8	14.5	173.92	29.1	745.0	773.0	757.5	15.48	49.925		
4,600.0	4,600.0	4,518.8	4,455.6	8.0	14.9	173.92	29.8	762.9	791.5	775.7	15.83	50.012		
4,700.0	4,700.0	4,617.1	4,552.2	8.2	15.2	173.92	30.5	780.8	810.1	794.0	16.17	50.095		
4,800.0	4,800.0	4,715.3	4,648.9	8.4	15.6	173.92	31.2	798.7	828.7	812.2	16.52	50.175		
4,900.0	4,900.0	4,813.6	4,745.5	8.5	16.0	173.92	31.9	816.6	847.3	830.5	16.86	50.252		
5,000.0	5,000.0	4,911.9	4,842.1	8.7	16.3	173.92	32.6	834.5	865.9	848.7	17.21	50.326		
5,100.0	5,100.0	5,010.1	4,938.7	8.9	16.7	173.92	33.3	852.4	884.5	867.0	17.55	50.396		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #3													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		
5,200.0	5,200.0	5,108.4	5,035.3	9.1	17.0	173.92	34.0	870.3	903.1	885.2	17.90	50.464		
5,300.0	5,300.0	5,206.6	5,131.9	9.2	17.4	173.92	34.7	888.2	921.7	903.4	18.24	50.530		
5,400.0	5,400.0	5,304.9	5,228.5	9.4	17.8	173.92	35.4	906.1	940.3	921.7	18.59	50.593		
5,500.0	5,500.0	5,403.1	5,325.1	9.6	18.1	173.92	36.1	924.0	958.9	939.9	18.93	50.653		
5,600.0	5,600.0	5,501.4	5,421.7	9.8	18.5	173.91	36.8	941.9	977.5	958.2	19.27	50.712		
5,700.0	5,700.0	5,599.6	5,518.3	9.9	18.8	173.91	37.6	959.8	996.0	976.4	19.62	50.769		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		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)						
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		
300.0	300.0	300.0	300.0	0.5	0.5	87.91	2.6	69.9	70.0	68.9	1.00	69.823 CC, ES		
400.0	400.0	397.6	397.6	0.7	0.7	87.91	2.6	71.6	70.3	70.3	1.35	53.103		
500.0	500.0	494.9	494.8	0.8	0.9	87.91	2.8	76.5	76.8	75.0	1.71	44.897		
600.0	600.0	591.8	591.3	1.0	1.1	173.98	3.1	84.7	85.6	83.6	2.03	42.064		
700.0	700.0	688.0	686.8	1.2	1.3	174.00	3.5	96.1	97.8	95.4	2.38	41.139 SF		
800.0	800.0	783.3	781.0	1.4	1.6	174.02	4.0	110.5	113.3	110.6	2.72	41.690		
900.0	900.0	877.5	873.6	1.5	1.9	174.03	4.6	127.9	132.1	129.0	3.06	43.214		
1,000.0	1,000.0	974.1	968.2	1.7	2.3	174.03	5.4	147.9	153.1	149.7	3.40	45.055		
1,100.0	1,100.0	1,071.9	1,063.8	1.9	2.7	174.04	6.1	168.2	174.3	170.5	3.74	46.565		
1,200.0	1,200.0	1,169.6	1,159.4	2.1	3.1	174.04	6.8	188.5	195.4	191.3	4.09	47.822		
1,300.0	1,300.0	1,267.4	1,255.0	2.2	3.4	174.05	7.5	208.8	216.6	212.1	4.43	48.884		
1,400.0	1,400.0	1,365.1	1,350.6	2.4	3.8	174.05	8.3	229.1	237.7	233.0	4.77	49.794		
1,500.0	1,500.0	1,462.8	1,446.2	2.6	4.2	174.05	9.0	249.5	258.9	253.8	5.12	50.582		
1,600.0	1,600.0	1,560.6	1,541.8	2.8	4.6	174.06	9.7	269.8	280.0	274.6	5.46	51.272		
1,700.0	1,700.0	1,658.3	1,637.4	2.9	5.0	174.06	10.5	290.1	301.2	295.4	5.81	51.880		
1,800.0	1,800.0	1,756.0	1,733.0	3.1	5.4	174.06	11.2	310.4	322.3	316.2	6.15	52.421		
1,900.0	1,900.0	1,853.8	1,828.6	3.3	5.8	174.06	11.9	330.7	343.5	337.0	6.49	52.904		
2,000.0	2,000.0	1,951.5	1,924.1	3.5	6.2	174.06	12.7	351.0	364.6	357.8	6.84	53.339		
2,100.0	2,100.0	2,049.3	2,019.7	3.6	6.6	174.06	13.4	371.3	385.8	378.6	7.18	53.733		
2,200.0	2,200.0	2,147.0	2,115.3	3.8	7.0	174.06	14.1	391.7	406.9	399.4	7.52	54.090		
2,300.0	2,300.0	2,244.7	2,210.9	4.0	7.4	174.07	14.8	412.0	428.1	420.2	7.87	54.417		
2,400.0	2,400.0	2,342.5	2,306.5	4.2	7.8	174.07	15.6	432.3	449.3	441.0	8.21	54.716		
2,500.0	2,500.0	2,440.2	2,402.1	4.3	8.2	174.07	16.3	452.6	470.4	461.9	8.55	54.991		
2,600.0	2,600.0	2,537.9	2,497.7	4.5	8.6	174.07	17.0	472.9	491.6	482.7	8.90	55.245		
2,700.0	2,700.0	2,635.7	2,593.3	4.7	9.0	174.07	17.8	493.2	512.7	503.5	9.24	55.481		
2,800.0	2,800.0	2,733.4	2,688.9	4.9	9.4	174.07	18.5	513.5	533.9	524.3	9.58	55.699		
2,900.0	2,900.0	2,831.2	2,784.5	5.0	9.8	174.07	19.2	533.9	555.0	545.1	9.93	55.902		
3,000.0	3,000.0	2,928.9	2,880.1	5.2	10.2	174.07	20.0	554.2	576.2	565.9	10.27	56.092		
3,100.0	3,100.0	3,026.6	2,975.7	5.4	10.6	174.07	20.7	574.5	597.3	586.7	10.62	56.270		
3,200.0	3,200.0	3,124.4	3,071.3	5.6	11.0	174.07	21.4	594.8	618.5	607.5	10.96	56.436		
3,300.0	3,300.0	3,222.1	3,166.9	5.7	11.4	174.07	22.2	615.1	639.6	628.3	11.30	56.593		
3,400.0	3,400.0	3,319.8	3,262.5	5.9	11.8	174.07	22.9	635.4	660.8	649.1	11.65	56.740		
3,500.0	3,500.0	3,417.6	3,358.1	6.1	12.2	174.07	23.6	655.7	681.9	669.9	11.99	56.878		
3,600.0	3,600.0	3,515.3	3,453.7	6.3	12.6	174.07	24.3	676.1	703.1	690.8	12.33	57.009		
3,700.0	3,700.0	3,613.1	3,549.3	6.4	13.0	174.07	25.1	696.4	724.2	711.6	12.68	57.133		
3,800.0	3,800.0	3,710.8	3,644.9	6.6	13.4	174.07	25.8	716.7	745.4	732.4	13.02	57.251		
3,900.0	3,900.0	3,808.5	3,740.5	6.8	13.8	174.07	26.5	737.0	766.5	753.2	13.36	57.362		
4,000.0	4,000.0	3,906.3	3,836.1	7.0	14.2	174.07	27.3	757.3	787.7	774.0	13.71	57.468		
4,100.0	4,100.0	4,004.0	3,931.7	7.1	14.6	174.07	28.0	777.6	808.8	794.8	14.05	57.569		
4,200.0	4,200.0	4,101.7	4,027.3	7.3	15.0	174.07	28.7	798.0	830.0	815.6	14.39	57.664		
4,300.0	4,300.0	4,199.5	4,122.9	7.5	15.4	174.07	29.5	818.3	851.2	836.4	14.74	57.756		
4,400.0	4,400.0	4,297.2	4,218.5	7.7	15.8	174.07	30.2	838.6	872.3	857.2	15.08	57.843		
4,500.0	4,500.0	4,395.0	4,314.1	7.8	16.2	174.07	30.9	858.9	893.5	878.0	15.42	57.926		
4,600.0	4,600.0	4,492.7	4,409.7	8.0	16.6	174.07	31.6	879.2	914.6	898.8	15.77	58.006		
4,700.0	4,700.0	4,590.4	4,505.3	8.2	17.0	174.07	32.4	899.5	935.8	919.7	16.11	58.082		
4,800.0	4,800.0	4,688.2	4,600.9	8.4	17.4	174.07	33.1	919.8	956.9	940.5	16.45	58.156		
4,900.0	4,900.0	4,785.9	4,696.5	8.5	17.8	174.07	33.8	940.2	978.1	961.3	16.80	58.226		
5,000.0	5,000.0	4,883.6	4,792.1	8.7	18.2	174.07	34.6	960.5	999.2	982.1	17.14	58.293		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		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)						
0.0	0.0	0.0	0.0	0.0	0.0	87.91	2.9	80.0	80.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.91	2.9	80.0	80.0	79.7	0.30	263.504		
200.0	200.0	200.0	200.0	0.3	0.3	87.91	2.9	80.0	80.0	79.4	0.65	122.593 CC, ES		
300.0	300.0	297.2	297.2	0.5	0.5	87.91	3.0	81.6	81.7	80.7	1.00	81.672		
400.0	400.0	394.3	394.1	0.7	0.7	87.90	3.2	86.5	86.8	85.4	1.36	63.644		
500.0	500.0	490.8	490.3	0.8	0.9	87.89	3.5	94.7	95.3	93.5	1.75	54.296		
600.0	600.0	586.7	585.5	1.0	1.2	173.93	3.9	106.0	107.4	105.4	2.03	53.023		
700.0	700.0	681.7	679.4	1.2	1.5	173.94	4.5	120.3	122.9	120.5	2.37	51.937 SF		
800.0	800.0	775.6	771.7	1.4	1.8	173.93	5.2	137.6	141.6	138.9	2.70	52.365		
900.0	900.0	868.3	862.2	1.5	2.2	173.93	5.9	157.5	163.5	160.4	3.04	53.790		
1,000.0	1,000.0	962.9	954.0	1.7	2.6	173.93	6.8	180.4	188.0	184.6	3.38	55.660		
1,100.0	1,100.0	1,059.7	1,047.9	1.9	3.0	173.92	7.8	204.0	212.8	209.1	3.72	57.211		
1,200.0	1,200.0	1,156.6	1,141.9	2.1	3.5	173.92	8.7	227.7	237.6	233.5	4.06	58.502		
1,300.0	1,300.0	1,253.5	1,235.8	2.2	3.9	173.92	9.6	251.4	262.4	258.0	4.40	59.595		
1,400.0	1,400.0	1,350.4	1,329.7	2.4	4.4	173.91	10.5	275.1	287.2	282.5	4.75	60.531		
1,500.0	1,500.0	1,447.2	1,423.7	2.6	4.8	173.91	11.4	298.7	312.0	306.9	5.09	61.342		
1,600.0	1,600.0	1,544.1	1,517.6	2.8	5.3	173.91	12.4	322.4	336.8	331.4	5.43	62.051		
1,700.0	1,700.0	1,641.0	1,611.5	2.9	5.7	173.91	13.3	346.1	361.7	355.9	5.77	62.677		
1,800.0	1,800.0	1,737.9	1,705.5	3.1	6.2	173.91	14.2	369.8	386.5	380.4	6.11	63.234		
1,900.0	1,900.0	1,834.7	1,799.4	3.3	6.6	173.91	15.1	393.4	411.3	404.8	6.45	63.732		
2,000.0	2,000.0	1,931.6	1,893.3	3.5	7.1	173.91	16.1	417.1	436.1	429.3	6.79	64.180		
2,100.0	2,100.0	2,028.5	1,987.3	3.6	7.6	173.91	17.0	440.8	460.9	453.8	7.14	64.585		
2,200.0	2,200.0	2,125.4	2,081.2	3.8	8.0	173.91	17.9	464.5	485.7	478.2	7.48	64.953		
2,300.0	2,300.0	2,222.2	2,175.1	4.0	8.5	173.91	18.8	488.1	510.5	502.7	7.82	65.290		
2,400.0	2,400.0	2,319.1	2,269.1	4.2	8.9	173.91	19.8	511.8	535.3	527.2	8.16	65.598		
2,500.0	2,500.0	2,416.0	2,363.0	4.3	9.4	173.90	20.7	535.5	560.1	551.6	8.50	65.882		
2,600.0	2,600.0	2,512.8	2,456.9	4.5	9.8	173.90	21.6	559.2	584.9	576.1	8.84	66.144		
2,700.0	2,700.0	2,609.7	2,550.8	4.7	10.3	173.90	22.5	582.9	609.8	600.6	9.18	66.387		
2,800.0	2,800.0	2,706.6	2,644.8	4.9	10.7	173.90	23.5	606.5	634.6	625.0	9.53	66.612		
2,900.0	2,900.0	2,803.5	2,738.7	5.0	11.2	173.90	24.4	630.2	659.4	649.5	9.87	66.821		
3,000.0	3,000.0	2,900.3	2,832.6	5.2	11.7	173.90	25.3	653.9	684.2	674.0	10.21	67.017		
3,100.0	3,100.0	2,997.2	2,926.6	5.4	12.1	173.90	26.2	677.6	709.0	698.4	10.55	67.200		
3,200.0	3,200.0	3,094.1	3,020.5	5.6	12.6	173.90	27.2	701.2	733.8	722.9	10.89	67.372		
3,300.0	3,300.0	3,191.0	3,114.4	5.7	13.0	173.90	28.1	724.9	758.6	747.4	11.23	67.533		
3,400.0	3,400.0	3,287.8	3,208.4	5.9	13.5	173.90	29.0	748.6	783.4	771.9	11.57	67.685		
3,500.0	3,500.0	3,384.7	3,302.3	6.1	13.9	173.90	29.9	772.3	808.2	796.3	11.92	67.828		
3,600.0	3,600.0	3,481.6	3,396.2	6.3	14.4	173.90	30.8	795.9	833.0	820.8	12.26	67.963		
3,700.0	3,700.0	3,578.5	3,490.2	6.4	14.9	173.90	31.8	819.6	857.9	845.3	12.60	68.091		
3,800.0	3,800.0	3,675.3	3,584.1	6.6	15.3	173.90	32.7	843.3	882.7	869.7	12.94	68.212		
3,900.0	3,900.0	3,772.2	3,678.0	6.8	15.8	173.90	33.6	867.0	907.5	894.2	13.28	68.327		
4,000.0	4,000.0	3,869.1	3,771.9	7.0	16.2	173.90	34.5	890.6	932.3	918.7	13.62	68.436		
4,100.0	4,100.0	3,965.9	3,865.9	7.1	16.7	173.90	35.5	914.3	957.1	943.1	13.96	68.540		
4,200.0	4,200.0	4,062.8	3,959.8	7.3	17.1	173.90	36.4	938.0	981.9	967.6	14.31	68.639		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		
9,100.0	7,435.0	7,492.2	7,443.9	38.3	18.0	90.01	-2,553.7	-767.1	943.5	889.9	53.61	17.601		
9,200.0	7,435.0	7,491.9	7,443.6	39.9	18.0	89.98	-2,553.7	-767.1	885.3	830.0	55.27	16.016		
9,300.0	7,435.0	7,491.6	7,443.3	41.6	18.0	89.96	-2,553.7	-767.1	834.9	778.0	56.94	14.662		
9,400.0	7,435.0	7,491.3	7,443.0	43.3	18.0	89.94	-2,553.7	-767.1	794.0	735.4	58.62	13.545		
9,500.0	7,435.0	7,491.1	7,442.8	45.0	18.0	89.92	-2,553.7	-767.1	764.1	703.8	60.31	12.671		
9,600.0	7,435.0	7,490.8	7,442.5	46.7	18.0	89.90	-2,553.7	-767.1	746.5	684.5	62.00	12.042		
9,683.0	7,435.0	7,490.6	7,442.2	48.1	18.0	89.88	-2,553.7	-767.1	741.9	678.5	63.40	11.702 CC		
9,700.0	7,435.0	7,490.5	7,442.2	48.3	18.0	89.88	-2,553.7	-767.1	742.1	678.4	63.69	11.652 ES		
9,800.0	7,435.0	7,490.2	7,441.9	50.0	18.0	89.85	-2,553.7	-767.1	751.1	685.7	65.39	11.487 SF		
9,900.0	7,435.0	7,490.0	7,441.6	51.7	18.0	89.83	-2,553.7	-767.1	773.0	705.9	67.09	11.522		
10,000.0	7,435.0	7,489.7	7,441.4	53.5	18.0	89.81	-2,553.7	-767.1	806.8	738.0	68.79	11.728		
10,100.0	7,435.0	7,489.4	7,441.1	55.2	18.0	89.79	-2,553.7	-767.1	851.1	780.6	70.50	12.072		
10,200.0	7,435.0	7,489.1	7,440.8	56.9	18.0	89.77	-2,553.7	-767.1	904.3	832.1	72.21	12.523		
10,300.0	7,435.0	7,488.8	7,440.5	58.6	18.0	89.75	-2,553.7	-767.1	965.0	891.1	73.93	13.053		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		
10,700.0	7,435.0	7,456.5	7,453.9	65.5	13.2	-90.68	-4,220.7	637.8	928.4	849.9	78.47	11.831		
10,800.0	7,435.0	7,455.8	7,453.2	67.2	13.2	-90.63	-4,220.7	637.8	861.4	781.2	80.20	10.741		
10,900.0	7,435.0	7,455.1	7,452.5	68.9	13.2	-90.57	-4,220.7	637.8	801.2	719.3	81.92	9.780		
11,000.0	7,435.0	7,454.4	7,451.8	70.6	13.2	-90.50	-4,220.7	637.8	749.7	666.0	83.65	8.962		
11,100.0	7,435.0	7,453.7	7,451.1	72.4	13.2	-90.44	-4,220.7	637.8	708.5	623.1	85.37	8.299		
11,200.0	7,435.0	7,452.9	7,450.4	74.1	13.2	-90.38	-4,220.7	637.8	679.7	592.6	87.10	7.804		
11,300.0	7,435.0	7,452.2	7,449.7	75.8	13.2	-90.32	-4,220.7	637.8	664.8	576.0	88.83	7.484		
11,350.0	7,435.0	7,451.8	7,449.3	76.7	13.2	-90.28	-4,220.7	637.8	663.0	573.3	89.70	7.391 CC, ES		
11,400.0	7,435.0	7,451.5	7,448.9	77.6	13.2	-90.25	-4,220.7	637.8	664.8	574.3	90.56	7.341 SF		
11,500.0	7,435.0	7,450.7	7,448.1	79.3	13.2	-90.19	-4,220.7	637.8	679.7	587.4	92.29	7.365		
11,600.0	7,435.0	7,449.9	7,447.4	81.0	13.2	-90.12	-4,220.8	637.8	708.5	614.5	94.02	7.536		
11,700.0	7,435.0	7,449.1	7,446.6	82.8	13.2	-90.05	-4,220.8	637.8	749.7	653.9	95.76	7.829		
11,800.0	7,435.0	7,448.3	7,445.8	84.5	13.2	-89.98	-4,220.8	637.8	801.3	703.8	97.49	8.219		
11,900.0	7,435.0	7,447.5	7,445.0	86.2	13.2	-89.91	-4,220.8	637.8	861.4	762.2	99.22	8.682		
11,924.8	7,435.0	7,447.3	7,444.8	86.7	13.2	-89.89	-4,220.8	637.8	877.4	777.8	99.65	8.805		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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			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	-153.17	-707.1	-357.6	792.4					
100.0	100.0	89.0	89.0	0.2	0.2	-153.20	-707.5	-357.4	792.7	792.4	0.31	2,576.745		
200.0	200.0	186.8	186.8	0.3	0.3	-153.26	-708.6	-357.0	793.5	792.8	0.65	1,213.936		
300.0	300.0	287.0	287.0	0.5	0.5	-153.32	-709.8	-356.7	794.4	793.4	1.00	791.292		
400.0	400.0	391.1	391.0	0.7	0.7	-153.35	-710.6	-356.6	795.0	793.7	1.36	584.600		
500.0	500.0	491.1	491.1	0.8	0.9	-153.35	-710.9	-356.7	795.4	793.7	1.71	465.355		
600.0	600.0	593.4	593.3	1.0	1.0	-67.33	-711.1	-356.9	795.5	793.4	2.06	385.970		
623.4	623.4	616.3	616.3	1.1	1.1	-67.33	-711.1	-356.9	795.5	793.3	2.14	371.425		
700.0	700.0	690.1	690.1	1.2	1.2	-67.33	-711.1	-357.4	795.6	793.2	2.40	330.958		
800.0	800.0	790.5	790.4	1.4	1.4	-67.29	-711.2	-358.3	796.0	793.2	2.75	289.080		
900.0	900.0	890.4	890.4	1.5	1.6	-67.24	-711.1	-359.4	796.3	793.2	3.10	256.659		
1,000.0	1,000.0	988.7	988.6	1.7	1.7	-67.16	-710.9	-361.0	796.7	793.2	3.45	230.996		
1,100.0	1,100.0	1,088.2	1,088.1	1.9	1.9	-67.04	-710.7	-363.0	797.2	793.4	3.80	209.900		
1,200.0	1,200.0	1,187.1	1,187.0	2.1	2.1	-66.91	-710.4	-365.4	797.9	793.8	4.15	192.390		
1,300.0	1,300.0	1,288.8	1,288.7	2.2	2.3	-66.74	-709.9	-368.2	798.6	794.0	4.50	177.368		
1,400.0	1,400.0	1,387.9	1,387.7	2.4	2.4	-66.56	-709.2	-371.0	799.1	794.3	4.85	164.656		
1,500.0	1,500.0	1,493.4	1,493.2	2.6	2.6	-66.36	-708.2	-374.0	799.5	794.2	5.22	153.261		
1,506.9	1,506.9	1,500.0	1,499.8	2.6	2.6	-66.35	-708.2	-374.2	799.5	794.2	5.24	152.562		
1,600.0	1,600.0	1,584.7	1,584.5	2.8	2.8	-66.18	-707.4	-376.8	799.9	794.3	5.56	143.988		
1,700.0	1,700.0	1,677.9	1,677.5	2.9	3.0	-65.96	-707.2	-380.5	801.4	795.5	5.90	135.851		
1,800.0	1,800.0	1,777.3	1,776.8	3.1	3.1	-65.69	-707.1	-385.1	803.4	797.2	6.26	128.429		
1,900.0	1,900.0	1,871.2	1,870.6	3.3	3.3	-65.42	-707.2	-389.8	805.7	799.1	6.60	122.013		
2,000.0	2,000.0	1,969.5	1,968.8	3.5	3.5	-65.14	-707.8	-395.0	808.7	801.7	6.96	116.202		
2,100.0	2,100.0	2,066.9	2,066.1	3.6	3.7	-64.86	-708.5	-400.2	811.7	804.4	7.31	110.988		
2,200.0	2,200.0	2,163.9	2,162.9	3.8	3.9	-64.60	-709.6	-405.5	815.2	807.6	7.67	106.327		
2,300.0	2,300.0	2,261.9	2,260.7	4.0	4.1	-64.33	-711.0	-411.0	819.0	811.0	8.02	102.071		
2,400.0	2,400.0	2,357.4	2,356.0	4.2	4.3	-64.06	-712.4	-416.6	823.1	814.8	8.38	98.280		
2,500.0	2,500.0	2,457.7	2,456.2	4.3	4.5	-63.80	-714.5	-422.5	827.7	819.0	8.74	94.745		
2,600.0	2,600.0	2,560.4	2,558.6	4.5	4.7	-63.50	-715.9	-428.9	831.9	822.8	9.10	91.375		
2,700.0	2,700.0	2,658.4	2,656.4	4.7	4.9	-63.18	-717.1	-435.3	836.1	826.6	9.46	88.340		
2,800.0	2,800.0	2,753.1	2,750.9	4.9	5.0	-62.89	-718.6	-441.5	840.7	830.8	9.82	85.644		
2,900.0	2,900.0	2,851.5	2,849.1	5.0	5.2	-62.62	-720.9	-447.9	845.9	835.7	10.18	83.126		
3,000.0	3,000.0	2,950.5	2,947.8	5.2	5.5	-62.30	-722.7	-454.9	850.9	840.4	10.54	80.752		
3,100.0	3,100.0	3,049.2	3,046.3	5.4	5.7	-62.00	-724.8	-461.9	856.4	845.5	10.90	78.570		
3,200.0	3,200.0	3,151.2	3,148.0	5.6	5.9	-61.65	-726.6	-469.5	861.6	850.4	11.27	76.452		
3,300.0	3,300.0	3,249.0	3,245.4	5.7	6.1	-61.30	-728.0	-477.1	866.8	855.2	11.63	74.510		
3,400.0	3,400.0	3,347.5	3,343.6	5.9	6.3	-60.93	-729.6	-485.1	872.5	860.5	12.00	72.704		
3,500.0	3,500.0	3,446.1	3,441.8	6.1	6.5	-60.55	-731.0	-493.3	878.0	865.7	12.37	71.006		
3,600.0	3,600.0	3,544.0	3,539.4	6.3	6.7	-60.23	-733.1	-501.0	884.0	871.3	12.73	69.470		
3,700.0	3,700.0	3,650.2	3,645.3	6.4	6.9	-59.93	-735.5	-508.7	889.7	876.7	13.10	67.930		
3,800.0	3,800.0	3,756.7	3,751.6	6.6	7.2	-59.68	-737.6	-515.2	894.6	881.1	13.47	66.424		
3,900.0	3,900.0	3,859.7	3,854.5	6.8	7.4	-59.47	-739.4	-520.8	899.0	885.1	13.83	65.000		
4,000.0	4,000.0	3,958.2	3,952.8	7.0	7.6	-59.29	-741.2	-525.9	903.2	889.0	14.18	63.685		
4,100.0	4,100.0	4,056.9	4,051.3	7.1	7.7	-59.13	-743.4	-530.8	907.7	893.1	14.53	62.454		
4,200.0	4,200.0	4,157.3	4,151.6	7.3	7.9	-58.97	-745.7	-535.8	912.2	897.3	14.89	61.266		
4,300.0	4,300.0	4,259.0	4,253.1	7.5	8.1	-58.81	-747.8	-540.8	916.5	901.3	15.25	60.120		
4,400.0	4,400.0	4,364.6	4,358.6	7.7	8.3	-58.64	-749.7	-545.8	920.6	905.0	15.61	58.971		
4,500.0	4,500.0	4,464.2	4,458.1	7.8	8.5	-58.48	-751.0	-550.4	924.1	908.1	15.96	57.895		
4,600.0	4,600.0	4,564.1	4,557.9	8.0	8.7	-58.37	-753.0	-554.4	927.9	911.6	16.31	56.885		
4,700.0	4,700.0	4,663.8	4,657.5	8.2	8.9	-58.27	-755.0	-558.2	931.5	914.9	16.66	55.908		
4,800.0	4,800.0	4,759.8	4,753.4	8.4	9.1	-58.17	-757.1	-562.0	935.4	918.4	17.00	55.012		
4,900.0	4,900.0	4,860.7	4,854.2	8.5	9.3	-58.09	-759.7	-566.0	939.7	922.3	17.35	54.145		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		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)						
5,000.0	5,000.0	4,964.7	4,958.1	8.7	9.5	-58.02	-762.2	-569.6	943.5	925.7	17.71	53.276		
5,100.0	5,100.0	5,071.7	5,065.0	8.9	9.7	-57.96	-764.5	-572.8	946.8	928.7	18.07	52.397		
5,200.0	5,200.0	5,185.9	5,179.2	9.1	9.9	-57.89	-765.8	-575.7	948.9	930.5	18.44	51.458		
5,300.0	5,300.0	5,292.6	5,285.8	9.2	10.1	-57.84	-766.1	-577.3	949.9	931.1	18.80	50.529		
5,400.0	5,400.0	5,396.7	5,389.9	9.4	10.2	-57.81	-766.2	-578.4	950.3	931.2	19.15	49.621		
5,500.0	5,500.0	5,494.6	5,487.9	9.6	10.4	-57.80	-766.3	-579.1	950.7	931.2	19.49	48.768		
5,600.0	5,600.0	5,593.1	5,586.4	9.8	10.6	-57.79	-766.6	-579.9	951.2	931.4	19.84	47.951		
5,700.0	5,700.0	5,687.3	5,680.6	9.9	10.7	-57.78	-767.2	-580.8	952.1	931.9	20.17	47.200		
5,800.0	5,800.0	5,789.7	5,782.9	10.1	10.9	-57.79	-768.2	-581.7	953.2	932.7	20.52	46.454		
5,900.0	5,900.0	5,897.7	5,890.9	10.3	11.1	-57.85	-769.2	-581.7	953.8	932.9	20.87	45.696		
6,000.0	6,000.0	6,004.0	5,997.2	10.5	11.2	-57.91	-769.6	-581.1	953.6	932.4	21.23	44.922		
6,100.0	6,100.0	6,104.0	6,097.2	10.6	11.4	-57.94	-769.5	-580.7	953.1	931.5	21.57	44.180		
6,200.0	6,200.0	6,203.8	6,197.0	10.8	11.6	-57.97	-769.3	-580.4	952.5	930.6	21.92	43.462		
6,300.0	6,300.0	6,300.7	6,293.9	11.0	11.7	-57.99	-769.2	-580.3	952.2	929.9	22.26	42.783		
6,400.0	6,400.0	6,407.1	6,400.3	11.2	11.9	-58.01	-768.9	-580.0	951.6	929.0	22.61	42.084		
6,500.0	6,500.0	6,500.0	6,493.2	11.3	12.0	-58.03	-768.7	-579.9	951.2	928.2	22.94	41.455		
6,600.0	6,600.0	6,600.0	6,593.2	11.5	12.2	-58.05	-768.6	-579.9	950.9	927.6	23.29	40.827		
6,650.5	6,650.5	6,648.7	6,641.9	11.6	12.3	-58.05	-768.5	-579.9	950.8	927.3	23.46	40.522		
6,700.0	6,700.0	6,692.5	6,685.7	11.7	12.4	-58.05	-768.7	-580.2	950.9	927.3	23.62	40.253		
6,800.0	6,799.8	6,793.7	6,786.9	11.9	12.5	34.40	-769.0	-581.1	947.9	923.9	23.92	39.631		
6,900.0	6,898.0	6,897.3	6,890.5	12.0	12.7	36.87	-768.6	-582.5	933.5	909.4	24.01	38.871		
7,000.0	6,992.8	6,987.3	6,980.4	12.2	12.9	39.69	-768.0	-583.9	908.5	884.5	23.95	37.937		
7,100.0	7,082.2	7,082.0	7,075.2	12.5	13.0	43.84	-767.2	-585.6	874.1	850.2	23.89	36.590		
7,200.0	7,164.6	7,166.5	7,159.7	12.9	13.2	49.38	-766.0	-586.9	831.3	807.3	24.02	34.604		
7,300.0	7,238.2	7,237.7	7,230.8	13.4	13.3	56.19	-764.7	-588.2	782.8	758.2	24.56	31.875		
7,400.0	7,301.8	7,297.1	7,290.2	14.0	13.4	63.95	-763.7	-589.4	731.6	706.0	25.59	28.594		
7,500.0	7,354.0	7,349.1	7,342.2	14.9	13.5	72.25	-763.0	-590.5	681.0	654.0	27.00	25.217		
7,600.0	7,393.9	7,388.8	7,381.9	15.8	13.6	79.80	-762.6	-591.2	634.8	606.3	28.50	22.272		
7,700.0	7,420.6	7,414.4	7,407.5	17.0	13.6	85.45	-762.3	-591.6	597.7	567.8	29.89	19.993		
7,800.0	7,433.7	7,426.4	7,419.5	18.2	13.6	88.61	-762.2	-591.8	574.0	542.8	31.21	18.390		
7,891.4	7,436.7	7,428.7	7,421.8	19.4	13.6	89.10	-762.2	-591.8	566.7	534.3	32.43	17.473 CC		
7,900.0	7,435.0	7,426.9	7,420.0	19.6	13.6	89.09	-762.2	-591.8	566.7	534.2	32.54	17.415 ES		
8,000.0	7,435.0	7,426.1	7,419.2	20.9	13.6	89.01	-762.2	-591.8	577.0	543.0	33.93	17.004 SF		
8,100.0	7,435.0	7,425.3	7,418.4	22.4	13.6	88.93	-762.2	-591.7	603.8	568.5	35.37	17.071		
8,200.0	7,435.0	7,424.5	7,417.5	23.9	13.6	88.84	-762.2	-591.7	645.2	608.4	36.85	17.508		
8,300.0	7,435.0	7,423.6	7,416.7	25.4	13.6	88.75	-762.2	-591.7	698.6	660.2	38.37	18.207		
8,400.0	7,435.0	7,422.7	7,415.8	26.9	13.6	88.66	-762.2	-591.7	761.4	721.5	39.92	19.076		
8,500.0	7,435.0	7,421.8	7,414.9	28.5	13.6	88.57	-762.2	-591.7	831.6	790.1	41.48	20.045		
8,600.0	7,435.0	7,420.9	7,414.0	30.1	13.6	88.48	-762.2	-591.7	907.3	864.2	43.07	21.065		
8,700.0	7,435.0	7,419.9	7,413.0	31.7	13.6	88.38	-762.2	-591.7	987.4	942.7	44.68	22.100		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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 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)				
8,000.0	7,435.0	7,424.9	7,423.0	20.9	13.1	90.22	-1,799.1	-280.8	962.9	929.0	33.90	28.408		
8,100.0	7,435.0	7,424.8	7,422.9	22.4	13.1	90.21	-1,799.1	-280.8	866.9	831.5	35.34	24.531		
8,200.0	7,435.0	7,424.8	7,422.9	23.9	13.1	90.19	-1,799.1	-280.8	771.9	735.1	36.82	20.963		
8,300.0	7,435.0	7,424.7	7,422.8	25.4	13.1	90.18	-1,799.1	-280.8	678.3	640.0	38.34	17.693		
8,400.0	7,435.0	7,424.7	7,422.8	26.9	13.1	90.17	-1,799.1	-280.8	586.9	547.0	39.89	14.715		
8,500.0	7,435.0	7,424.6	7,422.7	28.5	13.1	90.16	-1,799.1	-280.8	498.8	457.4	41.46	12.032		
8,600.0	7,435.0	7,424.6	7,422.6	30.1	13.1	90.14	-1,799.1	-280.8	416.1	373.1	43.05	9.666		
8,700.0	7,435.0	7,424.5	7,422.6	31.7	13.1	90.13	-1,799.1	-280.8	342.8	298.1	44.66	7.675		
8,800.0	7,435.0	7,424.4	7,422.5	33.3	13.1	90.12	-1,799.1	-280.8	286.0	239.8	46.28	6.181		
8,900.0	7,435.0	7,424.4	7,422.5	35.0	13.1	90.11	-1,799.1	-280.8	257.2	209.3	47.92	5.368		
8,928.3	7,435.0	7,424.4	7,422.5	35.4	13.1	90.10	-1,799.1	-280.8	255.7	207.3	48.38	5.284	CC, ES, SF	
9,000.0	7,435.0	7,424.3	7,422.4	36.6	13.1	90.09	-1,799.1	-280.8	265.5	215.9	49.56	5.357		
9,100.0	7,435.0	7,424.3	7,422.4	38.3	13.1	90.08	-1,799.1	-280.8	307.9	256.7	51.22	6.012		
9,200.0	7,435.0	7,424.2	7,422.3	39.9	13.1	90.07	-1,799.1	-280.8	373.1	320.2	52.88	7.054		
9,300.0	7,435.0	7,424.2	7,422.2	41.6	13.1	90.06	-1,799.1	-280.8	451.1	396.6	54.56	8.269		
9,400.0	7,435.0	7,424.1	7,422.2	43.3	13.1	90.04	-1,799.1	-280.8	536.5	480.3	56.23	9.541		
9,500.0	7,435.0	7,424.1	7,422.1	45.0	13.1	90.03	-1,799.1	-280.8	626.2	568.3	57.92	10.812		
9,600.0	7,435.0	7,424.0	7,422.1	46.7	13.1	90.02	-1,799.1	-280.8	718.7	659.1	59.61	12.057		
9,700.0	7,435.0	7,423.9	7,422.0	48.3	13.1	90.00	-1,799.1	-280.8	812.9	751.6	61.30	13.261		
9,800.0	7,435.0	7,423.9	7,422.0	50.0	13.1	89.99	-1,799.1	-280.8	908.4	845.4	63.00	14.419		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		
9,400.0	7,435.0	7,435.1	7,432.4	43.3	13.2	90.22	-3,118.8	-377.3	918.2	862.0	56.26	16.321		
9,500.0	7,435.0	7,434.9	7,432.2	45.0	13.2	90.19	-3,118.8	-377.3	826.8	768.8	57.94	14.269		
9,600.0	7,435.0	7,434.7	7,432.0	46.7	13.2	90.16	-3,118.8	-377.3	737.5	677.9	59.63	12.368		
9,700.0	7,435.0	7,434.5	7,431.8	48.3	13.2	90.13	-3,118.8	-377.3	651.4	590.1	61.33	10.622		
9,800.0	7,435.0	7,434.3	7,431.6	50.0	13.2	90.10	-3,118.8	-377.3	569.9	506.8	63.02	9.042		
9,900.0	7,435.0	7,434.1	7,431.4	51.7	13.2	90.07	-3,118.8	-377.3	495.1	430.4	64.73	7.649		
10,000.0	7,435.0	7,433.9	7,431.2	53.5	13.2	90.03	-3,118.8	-377.3	430.7	364.3	66.43	6.484		
10,100.0	7,435.0	7,433.7	7,431.0	55.2	13.2	90.00	-3,118.8	-377.3	382.0	313.8	68.14	5.606		
10,200.0	7,435.0	7,433.5	7,430.8	56.9	13.2	89.97	-3,118.8	-377.3	355.4	285.5	69.85	5.088		
10,248.0	7,435.0	7,433.4	7,430.7	57.7	13.2	89.95	-3,118.8	-377.3	352.1	281.5	70.67	4.983 CC, ES		
10,300.0	7,435.0	7,433.3	7,430.6	58.6	13.2	89.93	-3,118.8	-377.3	355.9	284.4	71.56	4.974 SF		
10,400.0	7,435.0	7,433.1	7,430.4	60.3	13.2	89.90	-3,118.8	-377.3	383.5	310.2	73.28	5.234		
10,500.0	7,435.0	7,432.9	7,430.2	62.0	13.2	89.87	-3,118.8	-377.3	433.0	358.0	75.00	5.774		
10,600.0	7,435.0	7,432.7	7,430.0	63.7	13.2	89.83	-3,118.8	-377.3	497.9	421.2	76.72	6.490		
10,700.0	7,435.0	7,432.4	7,429.8	65.5	13.2	89.80	-3,118.8	-377.3	573.0	494.5	78.44	7.304		
10,800.0	7,435.0	7,432.2	7,429.5	67.2	13.2	89.76	-3,118.8	-377.3	654.7	574.6	80.16	8.168		
10,900.0	7,435.0	7,432.0	7,429.3	68.9	13.2	89.73	-3,118.8	-377.3	741.0	659.1	81.89	9.049		
11,000.0	7,435.0	7,431.8	7,429.1	70.6	13.2	89.69	-3,118.8	-377.3	830.3	746.7	83.61	9.931		
11,100.0	7,435.0	7,431.6	7,428.9	72.4	13.2	89.66	-3,118.8	-377.3	921.9	836.5	85.34	10.802		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	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		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)						
7,200.0	7,164.6	7,156.7	7,153.7	12.9	12.7	-52.95	-847.2	684.6	991.4	967.3	24.06	41.207		
7,300.0	7,238.2	7,227.1	7,224.1	13.4	12.9	-58.97	-846.6	684.9	945.5	920.8	24.65	38.349		
7,400.0	7,301.8	7,288.0	7,285.0	14.0	13.0	-65.87	-846.5	685.1	896.6	870.9	25.68	34.919		
7,500.0	7,354.0	7,341.0	7,338.0	14.9	13.1	-73.24	-846.6	685.1	847.5	820.4	27.04	31.345		
7,600.0	7,393.9	7,382.3	7,379.2	15.8	13.1	-80.15	-846.8	685.0	801.3	772.8	28.50	28.113		
7,700.0	7,420.6	7,411.0	7,408.0	17.0	13.2	-85.78	-846.9	684.9	761.5	731.6	29.91	25.459		
7,800.0	7,433.7	7,426.3	7,423.2	18.2	13.2	-89.50	-847.0	684.8	731.5	700.3	31.25	23.410		
7,900.0	7,435.0	7,428.5	7,425.5	19.6	13.2	-90.44	-847.0	684.8	714.1	681.5	32.58	21.915		
7,976.3	7,435.0	7,429.0	7,426.0	20.6	13.2	-90.48	-847.0	684.8	710.0	676.3	33.64	21.102 CC, ES		
8,000.0	7,435.0	7,429.2	7,426.2	20.9	13.2	-90.50	-847.0	684.8	710.4	676.4	33.98	20.909		
8,100.0	7,435.0	7,429.9	7,426.9	22.4	13.2	-90.56	-847.0	684.8	720.7	685.3	35.42	20.348		
8,200.0	7,435.0	7,430.7	7,427.6	23.9	13.2	-90.62	-847.0	684.8	744.4	707.5	36.90	20.171 SF		
8,300.0	7,435.0	7,431.4	7,428.4	25.4	13.2	-90.68	-847.1	684.8	780.3	741.9	38.42	20.308		
8,400.0	7,435.0	7,432.2	7,429.1	26.9	13.2	-90.74	-847.1	684.8	826.8	786.8	39.97	20.685		
8,500.0	7,435.0	7,432.9	7,429.9	28.5	13.2	-90.80	-847.1	684.7	882.3	840.7	41.54	21.237		
8,600.0	7,435.0	7,433.7	7,430.7	30.1	13.2	-90.86	-847.1	684.7	945.0	901.9	43.14	21.909		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - ROSS 4-2-19 - ENCANA WELL - SURVEYS										Offset Site Error:		0.0 ft	
Survey Program: 101-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	
8,100.0	7,435.0	7,791.0	7,454.9	22.4	36.1	89.86	-1,441.7	-903.5	996.6	956.4	40.26	24.755	
8,200.0	7,435.0	7,789.7	7,453.6	23.9	36.1	89.78	-1,441.8	-903.5	953.5	911.7	41.74	22.843	
8,300.0	7,435.0	7,788.4	7,452.3	25.4	36.1	89.69	-1,441.8	-903.5	919.2	875.9	43.25	21.251	
8,400.0	7,435.0	7,787.0	7,451.0	26.9	36.1	89.61	-1,441.8	-903.5	894.8	850.0	44.80	19.975	
8,500.0	7,435.0	7,785.7	7,449.6	28.5	36.1	89.52	-1,441.8	-903.5	881.2	834.8	46.36	19.006	
8,571.0	7,435.0	7,784.7	7,448.6	29.6	36.1	89.45	-1,441.8	-903.5	878.3	830.8	47.49	18.495 CC, ES	
8,600.0	7,435.0	7,784.3	7,448.2	30.1	36.1	89.43	-1,441.8	-903.5	878.8	830.9	47.95	18.328	
8,700.0	7,435.0	7,782.8	7,446.8	31.7	36.1	89.33	-1,441.8	-903.4	887.7	838.2	49.55	17.915	
8,800.0	7,435.0	7,781.4	7,445.3	33.3	36.1	89.24	-1,441.9	-903.4	907.7	856.5	51.17	17.738 SF	
8,900.0	7,435.0	7,779.9	7,443.8	35.0	36.1	89.14	-1,441.9	-903.4	937.9	885.1	52.80	17.763	
9,000.0	7,435.0	7,778.4	7,442.3	36.6	36.1	89.04	-1,441.9	-903.4	977.5	923.0	54.44	17.955	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1D-19H-B2688
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 1D-19H-B2688	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 #3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4978.0ft

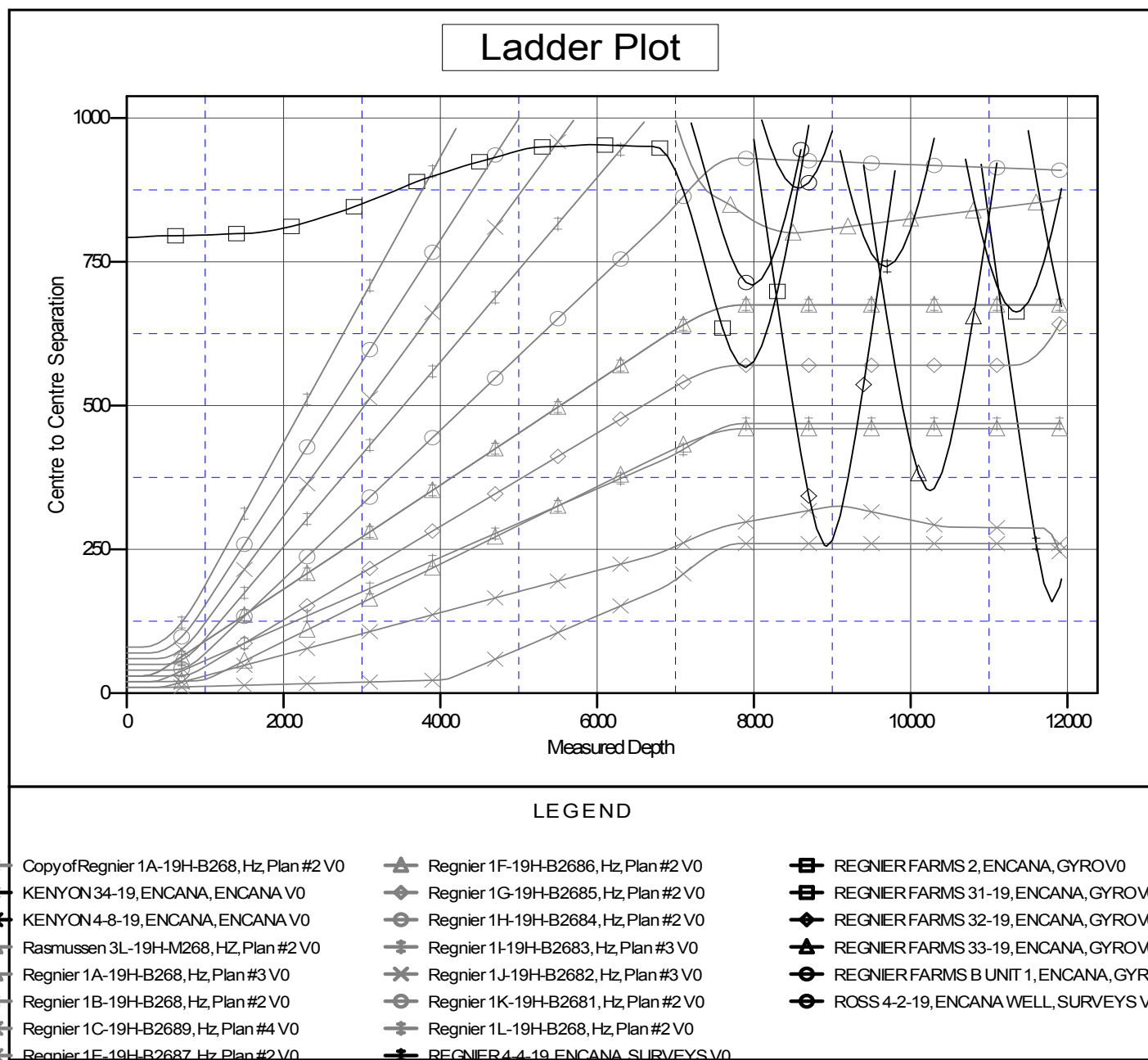
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Regnier 1D-19H-B2688

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