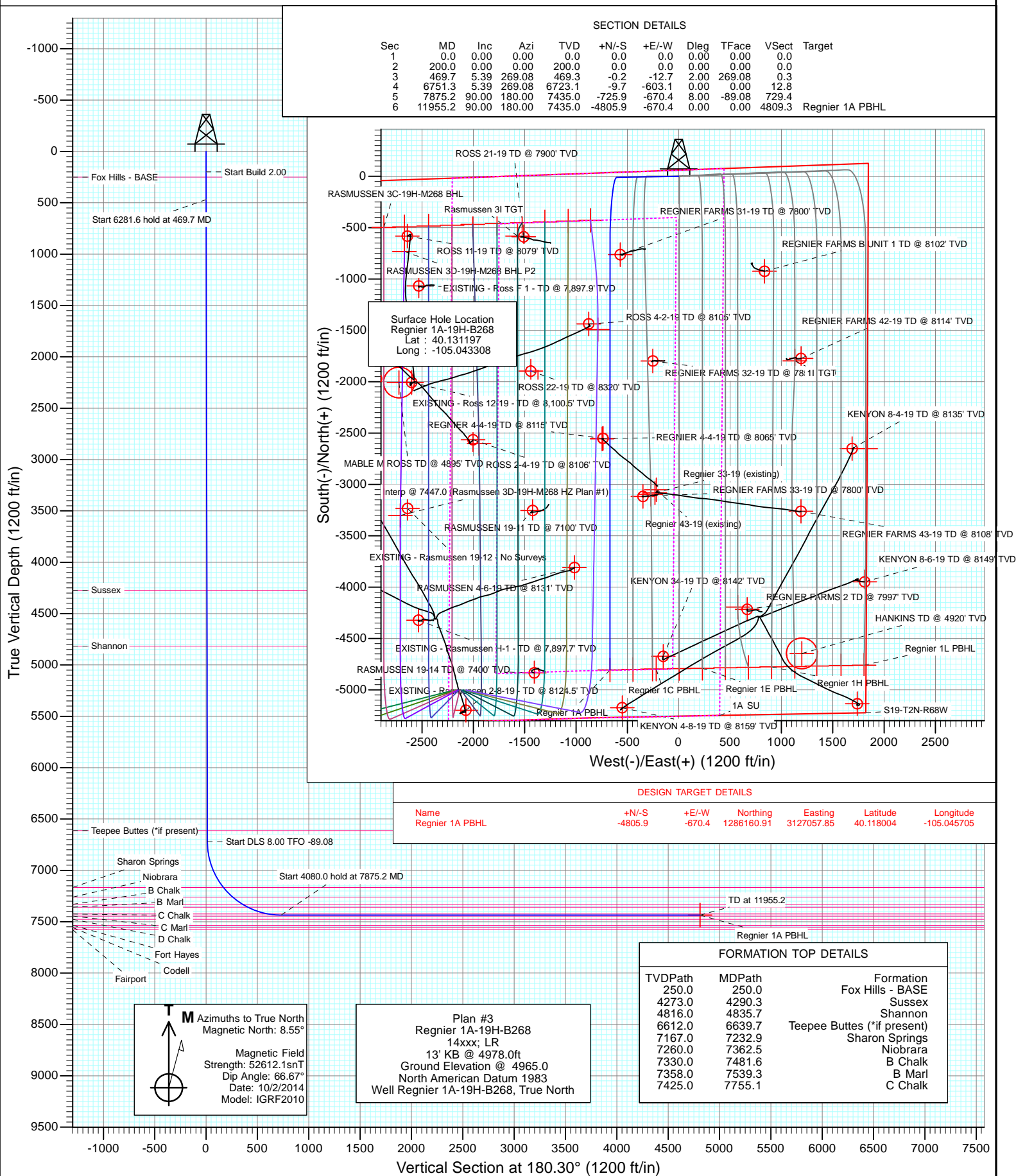




Project: DJ Wattenberg
Site: S19-T2N-R68W (Rasmussen/Regnier)
Well: Regnier 1A-19H-B268
Vellbore: Hz
Design: Plan #3



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 1A-19H-B268					
Well Position	+N/-S	0.0 ft	Northing:	1,290,970.21 ft	Latitude:	40.131197
	+E/-W	0.0 ft	Easting:	3,127,703.46 ft	Longitude:	-105.043308
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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
469.7	5.39	269.08	469.3	-0.2	-12.7	2.00	2.00	0.00	269.08	
6,751.3	5.39	269.08	6,723.1	-9.7	-603.1	0.00	0.00	0.00	0.00	
7,875.2	90.00	180.00	7,435.0	-725.9	-670.4	8.00	7.53	-7.93	-89.08	
11,955.2	90.00	180.00	7,435.0	-4,805.9	-670.4	0.00	0.00	0.00	0.00	Regnier 1A PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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	Start Build 2.00
250.0	1.00	269.08	250.0	0.0	-0.4	0.0	2.00	2.00	Fox Hills - BASE
300.0	2.00	269.08	300.0	0.0	-1.7	0.0	2.00	2.00	
400.0	4.00	269.08	399.8	-0.1	-7.0	0.1	2.00	2.00	
469.7	5.39	269.08	469.3	-0.2	-12.7	0.3	2.00	2.00	Start 6281.6 hold at 469.7 MD
500.0	5.39	269.08	499.5	-0.3	-15.5	0.3	0.00	0.00	
600.0	5.39	269.08	599.0	-0.4	-24.9	0.5	0.00	0.00	
700.0	5.39	269.08	698.6	-0.6	-34.3	0.7	0.00	0.00	
800.0	5.39	269.08	798.1	-0.7	-43.7	0.9	0.00	0.00	
900.0	5.39	269.08	897.7	-0.9	-53.1	1.1	0.00	0.00	
1,000.0	5.39	269.08	997.3	-1.0	-62.5	1.3	0.00	0.00	
1,100.0	5.39	269.08	1,096.8	-1.2	-71.9	1.5	0.00	0.00	
1,200.0	5.39	269.08	1,196.4	-1.3	-81.3	1.7	0.00	0.00	
1,300.0	5.39	269.08	1,295.9	-1.5	-90.7	1.9	0.00	0.00	
1,400.0	5.39	269.08	1,395.5	-1.6	-100.1	2.1	0.00	0.00	
1,500.0	5.39	269.08	1,495.0	-1.8	-109.5	2.3	0.00	0.00	
1,600.0	5.39	269.08	1,594.6	-1.9	-118.9	2.5	0.00	0.00	
1,700.0	5.39	269.08	1,694.2	-2.1	-128.3	2.7	0.00	0.00	
1,800.0	5.39	269.08	1,793.7	-2.2	-137.7	2.9	0.00	0.00	
1,900.0	5.39	269.08	1,893.3	-2.4	-147.1	3.1	0.00	0.00	
2,000.0	5.39	269.08	1,992.8	-2.5	-156.5	3.3	0.00	0.00	
2,100.0	5.39	269.08	2,092.4	-2.7	-165.9	3.5	0.00	0.00	
2,200.0	5.39	269.08	2,191.9	-2.8	-175.3	3.7	0.00	0.00	
2,300.0	5.39	269.08	2,291.5	-3.0	-184.7	3.9	0.00	0.00	
2,400.0	5.39	269.08	2,391.1	-3.1	-194.1	4.1	0.00	0.00	
2,500.0	5.39	269.08	2,490.6	-3.3	-203.5	4.3	0.00	0.00	
2,600.0	5.39	269.08	2,590.2	-3.4	-212.9	4.5	0.00	0.00	
2,700.0	5.39	269.08	2,689.7	-3.6	-222.3	4.7	0.00	0.00	
2,800.0	5.39	269.08	2,789.3	-3.7	-231.7	4.9	0.00	0.00	
2,900.0	5.39	269.08	2,888.8	-3.9	-241.1	5.1	0.00	0.00	
3,000.0	5.39	269.08	2,988.4	-4.0	-250.5	5.3	0.00	0.00	
3,100.0	5.39	269.08	3,088.0	-4.2	-259.9	5.5	0.00	0.00	
3,200.0	5.39	269.08	3,187.5	-4.3	-269.3	5.7	0.00	0.00	
3,300.0	5.39	269.08	3,287.1	-4.5	-278.7	5.9	0.00	0.00	
3,400.0	5.39	269.08	3,386.6	-4.6	-288.1	6.1	0.00	0.00	
3,500.0	5.39	269.08	3,486.2	-4.8	-297.5	6.3	0.00	0.00	
3,600.0	5.39	269.08	3,585.7	-4.9	-306.9	6.5	0.00	0.00	
3,700.0	5.39	269.08	3,685.3	-5.1	-316.3	6.7	0.00	0.00	
3,800.0	5.39	269.08	3,784.9	-5.3	-325.7	6.9	0.00	0.00	
3,900.0	5.39	269.08	3,884.4	-5.4	-335.1	7.1	0.00	0.00	
4,000.0	5.39	269.08	3,984.0	-5.6	-344.5	7.3	0.00	0.00	
4,100.0	5.39	269.08	4,083.5	-5.7	-353.9	7.5	0.00	0.00	
4,200.0	5.39	269.08	4,183.1	-5.9	-363.3	7.7	0.00	0.00	
4,290.3	5.39	269.08	4,273.0	-6.0	-371.8	7.9	0.00	0.00	Sussex
4,300.0	5.39	269.08	4,282.6	-6.0	-372.7	7.9	0.00	0.00	
4,400.0	5.39	269.08	4,382.2	-6.2	-382.1	8.1	0.00	0.00	
4,500.0	5.39	269.08	4,481.8	-6.3	-391.5	8.3	0.00	0.00	
4,600.0	5.39	269.08	4,581.3	-6.5	-400.9	8.5	0.00	0.00	
4,700.0	5.39	269.08	4,680.9	-6.6	-410.3	8.7	0.00	0.00	
4,800.0	5.39	269.08	4,780.4	-6.8	-419.7	8.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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
4,835.7	5.39	269.08	4,816.0	-6.8	-423.1	9.0	0.00	0.00	Shannon
4,900.0	5.39	269.08	4,880.0	-6.9	-429.1	9.1	0.00	0.00	
5,000.0	5.39	269.08	4,979.5	-7.1	-438.5	9.3	0.00	0.00	
5,100.0	5.39	269.08	5,079.1	-7.2	-447.9	9.5	0.00	0.00	
5,200.0	5.39	269.08	5,178.7	-7.4	-457.3	9.7	0.00	0.00	
5,300.0	5.39	269.08	5,278.2	-7.5	-466.7	9.9	0.00	0.00	
5,400.0	5.39	269.08	5,377.8	-7.7	-476.1	10.1	0.00	0.00	
5,500.0	5.39	269.08	5,477.3	-7.8	-485.5	10.3	0.00	0.00	
5,600.0	5.39	269.08	5,576.9	-8.0	-494.9	10.5	0.00	0.00	
5,700.0	5.39	269.08	5,676.4	-8.1	-504.3	10.7	0.00	0.00	
5,800.0	5.39	269.08	5,776.0	-8.3	-513.7	10.9	0.00	0.00	Teepee Buttes (*if present)
5,900.0	5.39	269.08	5,875.6	-8.4	-523.1	11.1	0.00	0.00	
6,000.0	5.39	269.08	5,975.1	-8.6	-532.5	11.3	0.00	0.00	
6,100.0	5.39	269.08	6,074.7	-8.7	-541.9	11.5	0.00	0.00	
6,200.0	5.39	269.08	6,174.2	-8.9	-551.3	11.7	0.00	0.00	
6,300.0	5.39	269.08	6,273.8	-9.0	-560.7	11.9	0.00	0.00	
6,400.0	5.39	269.08	6,373.3	-9.2	-570.1	12.1	0.00	0.00	
6,500.0	5.39	269.08	6,472.9	-9.3	-579.5	12.3	0.00	0.00	
6,600.0	5.39	269.08	6,572.5	-9.5	-588.9	12.5	0.00	0.00	
6,639.7	5.39	269.08	6,612.0	-9.6	-592.7	12.6	0.00	0.00	
6,700.0	5.39	269.08	6,672.0	-9.6	-598.3	12.7	0.00	0.00	Start DLS 8.00 TFO -89.08
6,751.3	5.39	269.08	6,723.1	-9.7	-603.1	12.8	0.00	0.00	
6,800.0	6.70	233.46	6,771.5	-11.5	-607.7	14.6	8.00	2.68	
6,900.0	13.13	203.88	6,870.0	-25.3	-617.0	28.5	8.00	6.42	
7,000.0	20.67	194.49	6,965.7	-52.8	-626.1	56.1	8.00	7.54	
7,100.0	28.46	190.03	7,056.6	-93.5	-634.6	96.7	8.00	7.79	
7,200.0	36.33	187.38	7,140.9	-146.4	-642.6	149.7	8.00	7.87	
7,232.9	38.94	186.71	7,167.0	-166.3	-645.1	169.7	8.00	7.90	
7,300.0	44.25	185.56	7,217.1	-210.6	-649.8	213.9	8.00	7.92	
7,362.5	49.21	184.67	7,260.0	-255.9	-653.8	259.3	8.00	7.93	Niobrara
7,400.0	52.18	184.20	7,283.7	-284.8	-656.1	288.2	8.00	7.94	
7,481.6	58.67	183.30	7,330.0	-351.8	-660.5	355.2	8.00	7.95	
7,500.0	60.13	183.11	7,339.4	-367.7	-661.3	371.1	8.00	7.95	
7,539.3	63.26	182.73	7,358.0	-402.2	-663.1	405.6	8.00	7.95	
7,600.0	68.09	182.18	7,383.0	-457.5	-665.5	460.9	8.00	7.96	
7,700.0	76.05	181.34	7,413.8	-552.5	-668.4	555.9	8.00	7.96	
7,755.1	80.44	180.91	7,425.0	-606.4	-669.4	609.8	8.00	7.96	
7,800.0	84.01	180.57	7,431.1	-650.9	-670.0	654.3	8.00	7.96	
7,875.2	90.00	180.00	7,435.0	-725.9	-670.4	729.4	8.00	7.96	Start 4080.0 hold at 7875.2 MD
7,900.0	90.00	180.00	7,435.0	-750.7	-670.4	754.2	0.00	0.00	
8,000.0	90.00	180.00	7,435.0	-850.7	-670.4	854.2	0.00	0.00	
8,100.0	90.00	180.00	7,435.0	-950.7	-670.4	954.2	0.00	0.00	
8,200.0	90.00	180.00	7,435.0	-1,050.7	-670.4	1,054.2	0.00	0.00	
8,300.0	90.00	180.00	7,435.0	-1,150.7	-670.4	1,154.2	0.00	0.00	
8,400.0	90.00	180.00	7,435.0	-1,250.7	-670.4	1,254.2	0.00	0.00	
8,500.0	90.00	180.00	7,435.0	-1,350.7	-670.4	1,354.2	0.00	0.00	
8,600.0	90.00	180.00	7,435.0	-1,450.7	-670.4	1,454.2	0.00	0.00	
8,700.0	90.00	180.00	7,435.0	-1,550.7	-670.4	1,554.2	0.00	0.00	C Chalk
8,800.0	90.00	180.00	7,435.0	-1,650.7	-670.4	1,654.2	0.00	0.00	
8,900.0	90.00	180.00	7,435.0	-1,750.7	-670.4	1,754.2	0.00	0.00	
9,000.0	90.00	180.00	7,435.0	-1,850.7	-670.4	1,854.2	0.00	0.00	
9,100.0	90.00	180.00	7,435.0	-1,950.7	-670.4	1,954.2	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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	-2,050.7	-670.4	2,054.2	0.00	0.00	
9,300.0	90.00	180.00	7,435.0	-2,150.7	-670.4	2,154.2	0.00	0.00	
9,400.0	90.00	180.00	7,435.0	-2,250.7	-670.4	2,254.2	0.00	0.00	
9,500.0	90.00	180.00	7,435.0	-2,350.7	-670.4	2,354.2	0.00	0.00	
9,600.0	90.00	180.00	7,435.0	-2,450.7	-670.4	2,454.2	0.00	0.00	
9,700.0	90.00	180.00	7,435.0	-2,550.7	-670.4	2,554.2	0.00	0.00	
9,800.0	90.00	180.00	7,435.0	-2,650.7	-670.4	2,654.2	0.00	0.00	
9,900.0	90.00	180.00	7,435.0	-2,750.7	-670.4	2,754.1	0.00	0.00	
10,000.0	90.00	180.00	7,435.0	-2,850.7	-670.4	2,854.1	0.00	0.00	
10,100.0	90.00	180.00	7,435.0	-2,950.7	-670.4	2,954.1	0.00	0.00	
10,200.0	90.00	180.00	7,435.0	-3,050.7	-670.4	3,054.1	0.00	0.00	
10,300.0	90.00	180.00	7,435.0	-3,150.7	-670.4	3,154.1	0.00	0.00	
10,400.0	90.00	180.00	7,435.0	-3,250.7	-670.4	3,254.1	0.00	0.00	
10,500.0	90.00	180.00	7,435.0	-3,350.7	-670.4	3,354.1	0.00	0.00	
10,600.0	90.00	180.00	7,435.0	-3,450.7	-670.4	3,454.1	0.00	0.00	
10,700.0	90.00	180.00	7,435.0	-3,550.7	-670.4	3,554.1	0.00	0.00	
10,800.0	90.00	180.00	7,435.0	-3,650.7	-670.4	3,654.1	0.00	0.00	
10,900.0	90.00	180.00	7,435.0	-3,750.7	-670.4	3,754.1	0.00	0.00	
11,000.0	90.00	180.00	7,435.0	-3,850.7	-670.4	3,854.1	0.00	0.00	
11,100.0	90.00	180.00	7,435.0	-3,950.7	-670.4	3,954.1	0.00	0.00	
11,200.0	90.00	180.00	7,435.0	-4,050.7	-670.4	4,054.1	0.00	0.00	
11,300.0	90.00	180.00	7,435.0	-4,150.7	-670.4	4,154.1	0.00	0.00	
11,400.0	90.00	180.00	7,435.0	-4,250.7	-670.4	4,254.1	0.00	0.00	
11,500.0	90.00	180.00	7,435.0	-4,350.7	-670.4	4,354.1	0.00	0.00	
11,600.0	90.00	180.00	7,435.0	-4,450.7	-670.4	4,454.1	0.00	0.00	
11,700.0	90.00	180.00	7,435.0	-4,550.7	-670.4	4,554.1	0.00	0.00	
11,800.0	90.00	180.00	7,435.0	-4,650.7	-670.4	4,654.1	0.00	0.00	
11,900.0	90.00	180.00	7,435.0	-4,750.7	-670.4	4,754.1	0.00	0.00	
11,955.2	90.00	180.00	7,435.0	-4,805.9	-670.4	4,809.3	0.00	0.00	TD at 11955.2

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Regnier 1A PBHL	0.00	0.29	7,435.0	-4,805.9	-670.4	1,286,160.91	3,127,057.85	40.118004	-105.045705
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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				
4,290.3	4,273.0	Sussex				
4,835.7	4,816.0	Shannon				
6,639.7	6,612.0	Teepee Buttes (*if present)				
7,232.9	7,167.0	Sharon Springs				
7,362.5	7,260.0	Niobrara				
7,481.6	7,330.0	B Chalk				
7,539.3	7,358.0	B Marl				
7,755.1	7,425.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	Start Build 2.00	
469.7	469.3	-0.2	-12.7	Start 6281.6 hold at 469.7 MD	
6,751.3	6,723.1	-9.7	-603.1	Start DLS 8.00 TFO -89.08	
7,875.2	7,435.0	-725.9	-670.4	Start 4080.0 hold at 7875.2 MD	
11,955.2	7,435.0	-4,805.9	-670.4	TD at 11955.2	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1A-19H-B268

Hz

Plan #3

Anticollision Report

07 January, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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	1/7/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,955.2	Plan #3 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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)						
HANKINS 1 - ENCANA - NO SURVEYS						Out of range
KENYON 34-19 - ENCANA - ENCANA	11,824.4	7,595.8	516.0	416.5	5.186	CC, ES
KENYON 34-19 - ENCANA - ENCANA	11,900.0	7,595.0	521.5	420.7	5.173	SF
KENYON 4-8-19 - ENCANA - ENCANA	11,955.2	7,743.3	389.1	281.4	3.611	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	10,402.7	7,100.0	824.4	757.4	12.307	CC, ES
RASMUSSEN 19-11 - ENCANA - GYRO	10,600.0	7,100.0	847.7	777.6	12.096	SF
RASMUSSEN 19-12 - ENCANA - NO SURVEYS						Out of range
RASMUSSEN 19-14 - ENCANA - GYRO	11,955.2	7,400.0	739.1	639.5	7.424	CC, ES, SF
RASMUSSEN 2-8-19 - ENCANA WELL - SURVEYS						Out of range
Rasmussen 3A-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3B-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3C-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3D-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3E-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3F-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3G-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3H-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3I-19H-M268 - HZ - Plan #2	7,598.4	11,935.9	861.4	763.5	8.797	CC
Rasmussen 3I-19H-M268 - HZ - Plan #2	7,600.0	11,935.9	861.4	763.5	8.795	ES
Rasmussen 3I-19H-M268 - HZ - Plan #2	7,700.0	11,935.9	867.5	768.6	8.770	SF
Rasmussen 3J-19H-M268 - HZ - Plan #2	7,898.8	11,738.3	633.7	537.0	6.557	CC
Rasmussen 3J-19H-M268 - HZ - Plan #2	11,900.0	7,750.0	634.9	534.7	6.337	ES
Rasmussen 3J-19H-M268 - HZ - Plan #2	11,955.2	7,700.0	636.4	535.7	6.318	SF
Rasmussen 3K-19H-M268 - HZ - Plan #1	7,882.6	11,903.6	422.2	328.4	4.501	CC, ES
Rasmussen 3K-19H-M268 - HZ - Plan #1	11,955.2	7,820.8	434.8	335.7	4.389	SF
Rasmussen 3L-19H-M268 - HZ - Plan #2	7,574.5	11,978.2	201.0	110.3	2.216	SF
Rasmussen 3L-19H-M268 - HZ - Plan #2	8,540.8	11,038.8	168.9	100.7	2.477	CC, ES
RASMUSSEN 4-6-19 - ENCANA - SURVEYS	10,964.1	7,678.7	350.8	265.1	4.095	CC, ES
RASMUSSEN 4-6-19 - ENCANA - SURVEYS	11,000.0	7,678.4	352.6	266.3	4.087	SF
RASMUSSEN H UNIT 1 - ENCANA - GYRO						Out of range
Regnier 1B-19H-B268 - Hz - Plan #2	200.0	200.0	10.1	9.4	15.462	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	11,955.2	12,069.2	260.3	108.9	1.720	SF
Regnier 1C-19H-B2689 - Hz - Plan #3	200.0	200.0	19.9	19.2	30.460	CC, ES
Regnier 1C-19H-B2689 - Hz - Plan #3	11,955.2	11,840.8	425.8	256.5	2.515	SF
Regnier 1D-19H-B2688 - Hz - Plan #2	200.0	200.0	30.0	29.3	45.889	CC, ES
Regnier 1D-19H-B2688 - Hz - Plan #2	11,955.2	11,924.8	675.2	501.7	3.892	SF
Regnier 1E-19H-B2687 - Hz - Plan #2	200.0	200.0	40.0	39.4	61.319	CC, ES
Regnier 1E-19H-B2687 - Hz - Plan #2	11,955.2	12,059.9	909.6	737.8	5.295	SF
Regnier 1F-19H-B2686 - Hz - Plan #2	200.0	200.0	50.1	49.4	76.750	CC, ES
Regnier 1F-19H-B2686 - Hz - Plan #2	1,000.0	993.5	114.2	110.8	33.306	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	200.0	200.0	59.9	59.2	91.753	CC, ES
Regnier 1G-19H-B2685 - Hz - Plan #2	800.0	794.7	105.2	102.5	38.499	SF
Regnier 1H-19H-B2684 - Hz - Plan #2	200.0	200.0	70.0	69.3	107.184	CC, ES
Regnier 1H-19H-B2684 - Hz - Plan #2	800.0	790.3	120.3	117.6	44.128	SF
Regnier 1I-19H-B2683 - Hz - Plan #3	200.0	200.0	80.0	79.4	122.615	CC, ES
Regnier 1I-19H-B2683 - Hz - Plan #3	700.0	690.7	121.0	118.6	50.885	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 1A-19H-B268
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 1A-19H-B268	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	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S19-T2N-R68W (Rasmussen/Regnier)						
Regnier 1J-19H-B2682 - Hz - Plan #2	200.0	200.0	90.1	89.5	138.046	CC, ES
Regnier 1J-19H-B2682 - Hz - Plan #2	700.0	685.2	139.3	136.9	58.853	SF
Regnier 1K-19H-B2681 - Hz - Plan #2	200.0	200.0	99.9	99.3	153.049	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	700.0	678.5	160.6	158.2	68.216	SF
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	110.0	109.3	168.480	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	700.0	670.4	185.3	183.0	79.251	SF
REGNIER 4-4-19 - ENCANA - SURVEYS	9,701.6	7,492.0	66.8	3.4	1.054	Level 2, CC, ES, SF
REGNIER FARMS 2 - ENCANA - GYRO						Out of range
REGNIER FARMS 31-19 - ENCANA - GYRO	7,909.9	7,437.6	108.4	75.9	3.339	CC, ES, SF
REGNIER FARMS 32-19 - ENCANA - GYRO	8,946.9	7,423.2	419.5	371.1	8.671	CC, ES
REGNIER FARMS 32-19 - ENCANA - GYRO	9,000.0	7,423.1	422.8	373.6	8.585	SF
REGNIER FARMS 33-19 - ENCANA - GYRO	10,266.6	7,434.0	323.0	252.3	4.571	CC, ES
REGNIER FARMS 33-19 - ENCANA - GYRO	10,300.0	7,433.9	324.7	253.5	4.558	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						Out of range
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	7,751.2	7,438.2	845.3	814.8	27.689	CC, ES
ROSS 21-19 - ENCANA - GYRO	8,100.0	7,452.4	918.9	883.8	26.146	SF
ROSS 22-19 - ENCANA - NO SURVEYS	9,046.0	7,428.0	770.3	720.3	15.400	CC, ES
ROSS 22-19 - ENCANA - NO SURVEYS	9,200.0	7,428.0	785.6	733.0	14.942	SF
ROSS 2-4-19 - ENCANA - SURVEYS						Out of range
ROSS 41-24 - ENCANA - NO SURVEYS						Out of range
ROSS 4-2-19 - ENCANA WELL - SURVEYS	8,589.5	7,791.2	203.2	155.7	4.279	CC, ES
ROSS 4-2-19 - ENCANA WELL - SURVEYS	8,600.0	7,791.1	203.5	155.8	4.270	SF
ROSS F 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 1A-19H-B268
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 1A-19H-B268	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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,000.0	7,435.0	7,604.3	7,468.2	71.3	22.3	-90.57	-4,675.1	-154.3	972.6	887.3	85.26	11.407		
11,100.0	7,435.0	7,603.3	7,467.2	73.0	22.3	-90.46	-4,675.1	-154.3	889.4	802.4	86.98	10.225		
11,200.0	7,435.0	7,602.3	7,466.2	74.7	22.3	-90.35	-4,675.1	-154.3	810.0	721.3	88.71	9.131		
11,300.0	7,435.0	7,601.3	7,465.1	76.4	22.3	-90.24	-4,675.1	-154.3	735.7	645.3	90.44	8.135		
11,400.0	7,435.0	7,600.3	7,464.1	78.1	22.3	-90.12	-4,675.1	-154.3	668.1	576.0	92.17	7.249		
11,500.0	7,435.0	7,599.3	7,463.1	79.8	22.3	-90.01	-4,675.1	-154.3	609.5	515.6	93.89	6.492		
11,600.0	7,435.0	7,598.2	7,462.0	81.5	22.3	-89.89	-4,675.1	-154.3	562.7	467.1	95.62	5.885		
11,700.0	7,435.0	7,597.2	7,461.0	83.3	22.3	-89.78	-4,675.2	-154.3	530.8	433.5	97.35	5.453		
11,800.0	7,435.0	7,596.1	7,459.9	85.0	22.3	-89.66	-4,675.2	-154.3	516.6	417.5	99.08	5.214		
11,824.4	7,435.0	7,595.8	7,459.6	85.4	22.3	-89.63	-4,675.2	-154.3	516.0	416.5	99.51	5.186 CC, ES		
11,900.0	7,435.0	7,595.0	7,458.8	86.7	22.3	-89.54	-4,675.2	-154.4	521.5	420.7	100.81	5.173 SF		
11,955.2	7,435.0	7,594.4	7,458.2	87.6	22.3	-89.47	-4,675.2	-154.4	532.3	430.6	101.77	5.231		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,400.0	7,435.0	7,742.9	7,462.5	78.1	31.9	-89.77	-5,175.7	-549.1	932.8	834.7	98.13	9.506		
11,500.0	7,435.0	7,743.0	7,462.6	79.8	31.9	-89.80	-5,175.7	-549.1	833.8	733.9	99.87	8.349		
11,600.0	7,435.0	7,743.1	7,462.7	81.5	31.9	-89.84	-5,175.7	-549.1	735.0	633.4	101.60	7.234		
11,700.0	7,435.0	7,743.1	7,462.7	83.3	31.9	-89.88	-5,175.7	-549.1	636.6	533.3	103.34	6.160		
11,800.0	7,435.0	7,743.2	7,462.8	85.0	31.9	-89.91	-5,175.7	-549.1	538.8	433.7	105.07	5.128		
11,900.0	7,435.0	7,743.3	7,462.9	86.7	31.9	-89.95	-5,175.7	-549.1	441.9	335.1	106.81	4.137		
11,955.2	7,435.0	7,743.3	7,462.9	87.6	31.9	-89.97	-5,175.7	-549.1	389.1	281.4	107.77	3.611 CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 19-11 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
9,900.0	7,435.0	7,100.0	7,095.3	52.8	12.7	65.89	-3,253.5	-1,422.9	965.6	906.4	59.15	16.326		
10,000.0	7,435.0	7,100.0	7,095.3	54.4	12.7	65.89	-3,253.5	-1,422.9	917.5	856.8	60.70	15.116		
10,100.0	7,435.0	7,100.0	7,095.3	56.1	12.7	65.89	-3,253.5	-1,422.9	878.2	816.0	62.26	14.107		
10,200.0	7,435.0	7,100.0	7,095.3	57.8	12.7	65.89	-3,253.5	-1,422.9	849.0	785.1	63.82	13.303		
10,300.0	7,435.0	7,100.0	7,095.3	59.4	12.7	65.89	-3,253.5	-1,422.9	830.8	765.4	65.38	12.707		
10,400.0	7,435.0	7,100.0	7,095.3	61.1	12.7	65.89	-3,253.5	-1,422.9	824.4	757.5	66.94	12.315		
10,402.7	7,435.0	7,100.0	7,095.3	61.2	12.7	65.89	-3,253.5	-1,422.9	824.4	757.4	66.98	12.307 CC, ES		
10,500.0	7,435.0	7,100.0	7,095.3	62.8	12.7	65.89	-3,253.5	-1,422.9	830.1	761.6	68.51	12.117		
10,600.0	7,435.0	7,100.0	7,095.3	64.5	12.7	65.89	-3,253.5	-1,422.9	847.7	777.6	70.08	12.096 SF		
10,700.0	7,435.0	7,100.0	7,095.3	66.2	12.7	65.89	-3,253.5	-1,422.9	876.4	804.7	71.65	12.231		
10,800.0	7,435.0	7,100.0	7,095.3	67.9	12.7	65.89	-3,253.5	-1,422.9	915.1	841.9	73.22	12.498		
10,900.0	7,435.0	7,100.0	7,095.3	69.6	12.7	65.89	-3,253.5	-1,422.9	962.8	888.0	74.79	12.872		

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 1A-19H-B268
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 1A-19H-B268	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 19-14 - 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,400.0	7,435.0	7,400.0	7,396.6	78.1	13.0	85.85	-4,834.4	-1,406.9	941.3	851.4	89.94	10.466	
11,500.0	7,435.0	7,400.0	7,396.6	79.8	13.0	85.85	-4,834.4	-1,406.9	882.8	791.1	91.67	9.630	
11,600.0	7,435.0	7,400.0	7,396.6	81.5	13.0	85.85	-4,834.4	-1,406.9	832.2	738.8	93.40	8.911	
11,700.0	7,435.0	7,400.0	7,396.6	83.3	13.0	85.85	-4,834.4	-1,406.9	791.1	696.0	95.13	8.317	
11,800.0	7,435.0	7,400.0	7,396.6	85.0	13.0	85.85	-4,834.4	-1,406.9	761.0	664.2	96.86	7.857	
11,900.0	7,435.0	7,400.0	7,396.6	86.7	13.0	85.85	-4,834.4	-1,406.9	743.2	644.6	98.59	7.539	
11,955.2	7,435.0	7,400.0	7,396.6	87.6	13.0	85.85	-4,834.4	-1,406.9	739.1	639.5	99.54	7.424	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 3I-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		
7,100.0	7,056.6	11,935.9	7,341.0	16.8	83.1	68.25	-451.6	-1,523.9	992.2	901.2	90.94	10.910		
7,200.0	7,140.9	11,935.9	7,341.0	17.1	83.1	74.36	-451.6	-1,523.9	948.3	855.4	92.83	10.215		
7,300.0	7,217.1	11,935.9	7,341.0	17.6	83.1	78.88	-451.6	-1,523.9	911.7	817.3	94.41	9.656		
7,400.0	7,283.7	11,935.9	7,341.0	18.1	83.1	82.08	-451.6	-1,523.9	884.2	788.4	95.75	9.234		
7,500.0	7,339.4	11,935.9	7,341.0	18.8	83.1	84.08	-451.6	-1,523.9	867.1	770.2	96.90	8.948		
7,598.4	7,382.4	11,935.9	7,341.0	19.6	83.1	84.94	-451.6	-1,523.9	861.4	763.5	97.92	8.797 CC		
7,600.0	7,383.0	11,935.9	7,341.0	19.6	83.1	84.95	-451.6	-1,523.9	861.4	763.5	97.94	8.795 ES		
7,700.0	7,413.8	11,935.9	7,341.0	20.5	83.1	84.72	-451.6	-1,523.9	867.5	768.6	98.92	8.770 SF		
7,800.0	7,431.1	11,935.9	7,341.0	21.5	83.1	83.43	-451.6	-1,523.9	884.9	785.1	99.85	8.862		
7,900.0	7,435.0	11,624.7	7,341.0	22.6	77.8	82.21	-752.2	-1,569.6	907.6	811.8	95.82	9.473		
8,000.0	7,435.0	11,524.7	7,341.0	23.8	76.1	82.21	-852.2	-1,569.4	907.5	812.0	95.46	9.506		
8,100.0	7,435.0	11,424.7	7,341.0	25.1	74.4	82.21	-952.2	-1,569.3	907.3	812.1	95.16	9.534		
8,200.0	7,435.0	11,324.7	7,341.0	26.4	72.7	82.21	-1,052.2	-1,569.1	907.1	812.2	94.91	9.558		
8,300.0	7,435.0	11,224.7	7,341.0	27.7	71.0	82.21	-1,152.2	-1,569.0	907.0	812.3	94.69	9.578		
8,400.0	7,435.0	11,124.7	7,341.0	29.1	69.3	82.20	-1,252.2	-1,568.8	906.8	812.3	94.51	9.595		
8,500.0	7,435.0	11,024.7	7,341.0	30.6	67.6	82.20	-1,352.2	-1,568.6	906.6	812.3	94.35	9.609		
8,600.0	7,435.0	10,924.7	7,341.0	32.0	65.9	82.20	-1,452.2	-1,568.5	906.5	812.3	94.21	9.622		
8,700.0	7,435.0	10,824.7	7,341.0	33.5	64.2	82.20	-1,552.2	-1,568.3	906.3	812.2	94.10	9.632		
8,800.0	7,435.0	10,724.7	7,341.0	35.1	62.5	82.20	-1,652.2	-1,568.1	906.1	812.1	94.00	9.640		
8,900.0	7,435.0	10,624.7	7,341.0	36.6	60.8	82.20	-1,752.2	-1,568.0	906.0	812.1	93.91	9.647		
9,000.0	7,435.0	10,524.7	7,341.0	38.2	59.1	82.20	-1,852.2	-1,567.8	905.8	812.0	93.84	9.653		
9,100.0	7,435.0	10,424.7	7,341.0	39.7	57.4	82.19	-1,952.2	-1,567.6	905.6	811.9	93.78	9.657		
9,200.0	7,435.0	10,324.7	7,341.0	41.3	55.7	82.19	-2,052.2	-1,567.5	905.5	811.7	93.74	9.660		
9,300.0	7,435.0	10,224.7	7,341.0	42.9	54.0	82.19	-2,152.2	-1,567.3	905.3	811.6	93.70	9.662		
9,400.0	7,435.0	10,124.7	7,341.0	44.5	52.4	82.19	-2,252.2	-1,567.1	905.2	811.5	93.67	9.663		
9,500.0	7,435.0	10,024.7	7,341.0	46.2	50.7	82.19	-2,352.2	-1,567.0	905.0	811.3	93.66	9.663		
9,600.0	7,435.0	9,924.7	7,341.0	47.8	49.0	82.19	-2,452.2	-1,566.8	904.8	811.2	93.65	9.662		
9,700.0	7,435.0	9,824.7	7,341.0	49.4	47.4	82.19	-2,552.2	-1,566.6	904.7	811.0	93.65	9.660		
9,800.0	7,435.0	9,724.7	7,341.0	51.1	45.7	82.18	-2,652.2	-1,566.5	904.5	810.8	93.66	9.657		
9,900.0	7,435.0	9,624.7	7,341.0	52.8	44.1	82.18	-2,752.2	-1,566.3	904.3	810.6	93.68	9.653		
10,000.0	7,435.0	9,524.7	7,341.0	54.4	42.4	82.18	-2,852.2	-1,566.1	904.2	810.5	93.71	9.648		
10,100.0	7,435.0	9,424.7	7,341.0	56.1	40.8	82.18	-2,952.2	-1,566.0	904.0	810.3	93.75	9.643		
10,200.0	7,435.0	9,324.7	7,341.0	57.8	39.2	82.18	-3,052.2	-1,565.8	903.8	810.0	93.80	9.636		
10,300.0	7,435.0	9,224.7	7,341.0	59.4	37.6	82.18	-3,152.2	-1,565.6	903.7	809.8	93.86	9.627		
10,400.0	7,435.0	9,124.7	7,341.0	61.1	36.0	82.18	-3,252.2	-1,565.5	903.5	809.6	93.94	9.618		
10,500.0	7,435.0	9,024.7	7,341.0	62.8	34.5	82.17	-3,352.2	-1,565.3	903.3	809.3	94.03	9.607		
10,600.0	7,435.0	8,924.7	7,341.0	64.5	32.9	82.17	-3,452.2	-1,565.1	903.2	809.0	94.13	9.595		
10,700.0	7,435.0	8,824.7	7,341.0	66.2	31.4	82.17	-3,552.2	-1,565.0	903.0	808.8	94.25	9.581		
10,800.0	7,435.0	8,724.7	7,341.0	67.9	29.9	82.17	-3,652.2	-1,564.8	902.9	808.5	94.40	9.565		
10,900.0	7,435.0	8,624.7	7,341.0	69.6	28.4	82.17	-3,752.2	-1,564.6	902.7	808.1	94.56	9.546		
11,000.0	7,435.0	8,524.7	7,341.0	71.3	27.0	82.17	-3,852.2	-1,564.5	902.5	807.8	94.75	9.525		
11,100.0	7,435.0	8,424.7	7,341.0	73.0	25.6	82.17	-3,952.2	-1,564.3	902.4	807.4	94.98	9.501		
11,200.0	7,435.0	8,324.7	7,341.0	74.7	24.2	82.16	-4,052.2	-1,564.1	902.2	807.0	95.24	9.473		
11,300.0	7,435.0	8,224.7	7,341.0	76.4	22.9	82.16	-4,152.2	-1,564.0	902.0	806.5	95.55	9.441		
11,400.0	7,435.0	8,124.7	7,341.0	78.1	21.7	82.16	-4,252.2	-1,563.8	901.9	806.0	95.91	9.403		
11,500.0	7,435.0	8,024.7	7,341.0	79.8	20.6	82.16	-4,352.2	-1,563.6	901.7	805.4	96.34	9.360		
11,600.0	7,435.0	7,924.7	7,341.0	81.5	19.5	82.16	-4,452.2	-1,563.5	901.5	804.7	96.85	9.308		
11,700.0	7,435.0	7,824.7	7,341.0	83.3	18.5	82.16	-4,552.2	-1,563.3	901.4	803.9	97.47	9.248		
11,800.0	7,435.0	7,724.7	7,341.0	85.0	17.7	82.16	-4,652.2	-1,563.1	901.2	803.0	98.20	9.177		
11,830.2	7,435.0	7,695.0	7,341.0	85.5	17.5	82.16	-4,681.9	-1,563.1	901.2	802.7	98.44	9.154		
11,900.0	7,435.0	7,642.7	7,338.6	86.7	17.1	82.01	-4,734.1	-1,563.2	901.7	802.6	99.18	9.092		
11,955.2	7,435.0	7,600.0	7,333.2	87.6	16.8	81.67	-4,776.5	-1,563.6	903.2	803.5	99.73	9.057		

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 1A-19H-B268
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 1A-19H-B268	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 1A-19H-B268
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 1A-19H-B268	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 3J-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	
6,900.0	6,870.0	12,043.7	7,447.0	16.2	83.8	41.45	-444.0	-1,303.9	973.3	891.1	82.16	11.847	
7,000.0	6,965.7	12,043.7	7,447.0	16.5	83.8	57.67	-444.0	-1,303.9	903.9	817.1	86.85	10.407	
7,100.0	7,056.6	12,043.7	7,447.0	16.8	83.8	68.65	-444.0	-1,303.9	837.5	746.7	90.80	9.224	
7,200.0	7,140.9	12,043.7	7,447.0	17.1	83.8	77.05	-444.0	-1,303.9	776.3	682.4	93.84	8.272	
7,300.0	7,217.1	12,043.7	7,447.0	17.6	83.8	83.49	-444.0	-1,303.9	722.9	626.9	96.00	7.531	
7,400.0	7,283.7	12,043.7	7,447.0	18.1	83.8	88.16	-444.0	-1,303.9	680.4	583.0	97.44	6.983	
7,500.0	7,339.4	12,043.7	7,447.0	18.8	83.8	91.16	-444.0	-1,303.9	651.8	553.4	98.42	6.623	
7,600.0	7,383.0	12,030.3	7,447.0	19.6	83.6	92.10	-457.4	-1,303.9	639.4	540.4	98.95	6.462	
7,700.0	7,413.8	11,935.3	7,447.0	20.5	82.0	90.05	-552.4	-1,303.9	635.5	537.5	98.02	6.484	
7,800.0	7,431.1	11,836.9	7,447.0	21.5	80.3	88.77	-650.8	-1,303.9	634.0	536.8	97.22	6.522	
7,898.8	7,436.3	11,738.3	7,447.0	22.6	78.6	88.35	-749.4	-1,303.9	633.7	537.0	96.64	6.557 CC	
7,900.0	7,435.0	11,737.0	7,447.0	22.6	78.6	88.46	-750.7	-1,303.9	633.8	537.1	96.64	6.558	
8,000.0	7,435.0	11,637.0	7,447.0	23.8	76.9	88.46	-850.7	-1,303.9	633.8	537.5	96.29	6.582	
8,100.0	7,435.0	11,537.0	7,447.0	25.1	75.2	88.46	-950.7	-1,303.9	633.8	537.8	95.99	6.603	
8,200.0	7,435.0	11,437.0	7,447.0	26.4	73.5	88.46	-1,050.7	-1,303.9	633.8	538.0	95.74	6.620	
8,300.0	7,435.0	11,337.0	7,447.0	27.7	71.8	88.46	-1,150.7	-1,303.9	633.8	538.3	95.52	6.635	
8,400.0	7,435.0	11,237.0	7,447.0	29.1	70.1	88.46	-1,250.7	-1,303.9	633.8	538.5	95.34	6.648	
8,500.0	7,435.0	11,137.0	7,447.0	30.6	68.4	88.46	-1,350.7	-1,303.9	633.8	538.6	95.18	6.659	
8,600.0	7,435.0	11,037.0	7,447.0	32.0	66.7	88.46	-1,450.7	-1,304.0	633.8	538.8	95.05	6.668	
8,700.0	7,435.0	10,937.0	7,447.0	33.5	65.1	88.46	-1,550.7	-1,304.0	633.8	538.9	94.94	6.676	
8,800.0	7,435.0	10,837.0	7,447.0	35.1	63.4	88.46	-1,650.7	-1,304.0	633.8	539.0	94.84	6.683	
8,900.0	7,435.0	10,737.0	7,447.0	36.6	61.7	88.46	-1,750.7	-1,304.0	633.8	539.1	94.76	6.689	
9,000.0	7,435.0	10,637.0	7,447.0	38.2	60.0	88.46	-1,850.7	-1,304.0	633.8	539.2	94.69	6.694	
9,100.0	7,435.0	10,537.0	7,447.0	39.7	58.4	88.46	-1,950.7	-1,304.0	633.9	539.2	94.63	6.698	
9,200.0	7,435.0	10,437.0	7,447.0	41.3	56.7	88.46	-2,050.7	-1,304.0	633.9	539.3	94.59	6.701	
9,300.0	7,435.0	10,337.0	7,447.0	42.9	55.1	88.46	-2,150.7	-1,304.0	633.9	539.3	94.56	6.704	
9,400.0	7,435.0	10,237.0	7,447.0	44.5	53.4	88.46	-2,250.7	-1,304.0	633.9	539.3	94.53	6.705	
9,500.0	7,435.0	10,137.0	7,447.0	46.2	51.8	88.46	-2,350.7	-1,304.0	633.9	539.4	94.52	6.707	
9,600.0	7,435.0	10,037.0	7,447.0	47.8	50.2	88.46	-2,450.7	-1,304.0	633.9	539.4	94.51	6.707	
9,700.0	7,435.0	9,937.0	7,447.0	49.4	48.5	88.46	-2,550.7	-1,304.0	633.9	539.4	94.52	6.707	
9,800.0	7,435.0	9,837.0	7,447.0	51.1	46.9	88.46	-2,650.7	-1,304.1	633.9	539.4	94.53	6.706	
9,900.0	7,435.0	9,737.0	7,447.0	52.8	45.3	88.46	-2,750.7	-1,304.1	633.9	539.4	94.56	6.704	
10,000.0	7,435.0	9,637.0	7,447.0	54.4	43.7	88.46	-2,850.7	-1,304.1	633.9	539.3	94.59	6.702	
10,100.0	7,435.0	9,537.0	7,447.0	56.1	42.2	88.46	-2,950.7	-1,304.1	633.9	539.3	94.63	6.699	
10,200.0	7,435.0	9,437.0	7,447.0	57.8	40.6	88.46	-3,050.7	-1,304.1	633.9	539.3	94.69	6.695	
10,300.0	7,435.0	9,337.0	7,447.0	59.4	39.1	88.46	-3,150.7	-1,304.1	634.0	539.2	94.76	6.690	
10,400.0	7,435.0	9,237.0	7,447.0	61.1	37.5	88.46	-3,250.7	-1,304.1	634.0	539.1	94.83	6.685	
10,500.0	7,435.0	9,137.0	7,447.0	62.8	36.0	88.46	-3,350.7	-1,304.1	634.0	539.0	94.93	6.678	
10,600.0	7,435.0	9,037.0	7,447.0	64.5	34.6	88.46	-3,450.7	-1,304.1	634.0	538.9	95.04	6.671	
10,700.0	7,435.0	8,937.0	7,447.0	66.2	33.1	88.46	-3,550.7	-1,304.1	634.0	538.8	95.17	6.662	
10,800.0	7,435.0	8,837.0	7,447.0	67.9	31.7	88.46	-3,650.7	-1,304.1	634.0	538.7	95.31	6.652	
10,900.0	7,435.0	8,737.0	7,447.0	69.6	30.3	88.46	-3,750.7	-1,304.1	634.0	538.5	95.49	6.640	
11,000.0	7,435.0	8,637.0	7,447.0	71.3	29.0	88.46	-3,850.7	-1,304.2	634.0	538.3	95.69	6.626	
11,100.0	7,435.0	8,537.0	7,447.0	73.0	27.7	88.46	-3,950.7	-1,304.2	634.0	538.1	95.92	6.610	
11,200.0	7,435.0	8,437.0	7,447.0	74.7	26.4	88.46	-4,050.7	-1,304.2	634.0	537.8	96.19	6.591	
11,300.0	7,435.0	8,337.0	7,447.0	76.4	25.2	88.46	-4,150.7	-1,304.2	634.0	537.5	96.51	6.570	
11,400.0	7,435.0	8,237.0	7,447.0	78.1	24.1	88.46	-4,250.7	-1,304.2	634.1	537.2	96.88	6.544	
11,500.0	7,435.0	8,137.0	7,447.0	79.8	23.1	88.46	-4,350.7	-1,304.2	634.1	536.7	97.33	6.515	
11,600.0	7,435.0	8,037.0	7,447.0	81.5	22.1	88.46	-4,450.7	-1,304.2	634.1	536.2	97.85	6.480	
11,700.0	7,435.0	7,937.0	7,447.0	83.3	21.3	88.46	-4,550.7	-1,304.2	634.1	535.6	98.48	6.438	
11,800.0	7,435.0	7,837.0	7,447.0	85.0	20.5	88.46	-4,650.7	-1,304.2	634.1	534.9	99.22	6.390	
11,900.0	7,435.0	7,750.0	7,442.3	86.7	20.0	88.04	-4,737.5	-1,304.8	634.9	534.7	100.19	6.337 ES	

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 1A-19H-B268
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 1A-19H-B268	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 3J-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	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	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
11,955.2	7,435.0	7,700.0	7,433.8	87.6	19.7	87.28	-4,786.8	-1,305.8	636.4	535.7	100.73	6.318 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 3K-19H-M268 - HZ - Plan #1													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		
6,900.0	6,870.0	12,199.4	7,576.0	16.2	84.7	32.87	-436.0	-1,076.8	915.6	842.0	73.57	12.445		
7,000.0	6,965.7	12,199.4	7,576.0	16.5	84.7	54.00	-436.0	-1,076.8	829.4	746.0	83.42	9.943		
7,100.0	7,056.6	12,199.4	7,576.0	16.8	84.7	70.84	-436.0	-1,076.8	743.9	652.3	91.61	8.120		
7,200.0	7,140.9	12,199.4	7,576.0	17.1	84.7	84.82	-436.0	-1,076.8	661.3	564.7	96.59	6.846		
7,300.0	7,217.1	12,199.4	7,576.0	17.6	84.7	95.64	-436.0	-1,076.8	584.8	486.4	98.37	5.945		
7,400.0	7,283.7	12,199.4	7,576.0	18.1	84.7	103.31	-436.0	-1,076.8	518.8	420.7	98.10	5.288		
7,500.0	7,339.4	12,199.4	7,576.0	18.8	84.7	108.16	-436.0	-1,076.8	469.5	372.4	97.09	4.835		
7,600.0	7,383.0	12,179.4	7,576.0	19.6	84.4	109.65	-456.0	-1,076.9	442.9	346.6	96.27	4.601		
7,700.0	7,413.8	12,084.4	7,576.0	20.5	82.8	107.30	-551.0	-1,077.2	430.0	334.4	95.64	4.496		
7,800.0	7,431.1	11,986.0	7,576.0	21.5	81.1	105.76	-649.4	-1,077.6	423.8	329.1	94.65	4.477		
7,882.6	7,436.1	11,903.6	7,576.0	22.4	79.7	105.22	-731.8	-1,077.9	422.2	328.4	93.80	4.501 CC, ES		
7,900.0	7,435.0	11,886.1	7,576.0	22.6	79.4	105.37	-749.3	-1,077.9	422.7	329.2	93.51	4.520		
8,000.0	7,435.0	11,786.1	7,576.0	23.8	77.7	105.35	-849.3	-1,078.3	423.0	329.8	93.19	4.540		
8,100.0	7,435.0	11,686.1	7,576.0	25.1	76.1	105.34	-949.3	-1,078.7	423.4	330.5	92.92	4.557		
8,200.0	7,435.0	11,586.1	7,576.0	26.4	74.4	105.33	-1,049.3	-1,079.0	423.7	331.0	92.69	4.571		
8,300.0	7,435.0	11,486.1	7,576.0	27.7	72.7	105.31	-1,149.3	-1,079.4	424.1	331.6	92.49	4.585		
8,400.0	7,435.0	11,386.1	7,576.0	29.1	71.0	105.30	-1,249.3	-1,079.7	424.4	332.1	92.33	4.597		
8,500.0	7,435.0	11,286.1	7,576.0	30.6	69.4	105.29	-1,349.3	-1,080.1	424.7	332.6	92.19	4.607		
8,600.0	7,435.0	11,186.1	7,576.0	32.0	67.7	105.28	-1,449.3	-1,080.4	425.1	333.0	92.08	4.617		
8,700.0	7,435.0	11,086.1	7,576.0	33.5	66.1	105.26	-1,549.3	-1,080.8	425.4	333.5	91.98	4.625		
8,800.0	7,435.0	10,986.1	7,576.0	35.1	64.4	105.25	-1,649.3	-1,081.2	425.8	333.9	91.90	4.633		
8,900.0	7,435.0	10,886.1	7,576.0	36.6	62.8	105.24	-1,749.3	-1,081.5	426.1	334.3	91.83	4.640		
9,000.0	7,435.0	10,786.1	7,576.0	38.2	61.1	105.23	-1,849.3	-1,081.9	426.5	334.7	91.78	4.647		
9,100.0	7,435.0	10,686.1	7,576.0	39.7	59.5	105.21	-1,949.3	-1,082.2	426.8	335.1	91.73	4.653		
9,200.0	7,435.0	10,586.1	7,576.0	41.3	57.8	105.20	-2,049.3	-1,082.6	427.2	335.5	91.70	4.658		
9,300.0	7,435.0	10,486.1	7,576.0	42.9	56.2	105.19	-2,149.3	-1,082.9	427.5	335.8	91.68	4.663		
9,400.0	7,435.0	10,386.1	7,576.0	44.5	54.6	105.18	-2,249.3	-1,083.3	427.9	336.2	91.67	4.667		
9,500.0	7,435.0	10,286.1	7,576.0	46.2	53.0	105.16	-2,349.3	-1,083.7	428.2	336.5	91.67	4.671		
9,600.0	7,435.0	10,186.1	7,576.0	47.8	51.4	105.15	-2,449.3	-1,084.0	428.5	336.9	91.68	4.674		
9,700.0	7,435.0	10,086.1	7,576.0	49.4	49.8	105.14	-2,549.3	-1,084.4	428.9	337.2	91.70	4.677		
9,800.0	7,435.0	9,986.1	7,576.0	51.1	48.3	105.13	-2,649.2	-1,084.7	429.2	337.5	91.72	4.680		
9,900.0	7,435.0	9,886.1	7,576.0	52.8	46.7	105.11	-2,749.2	-1,085.1	429.6	337.8	91.76	4.682		
10,000.0	7,435.0	9,786.1	7,576.0	54.4	45.2	105.10	-2,849.2	-1,085.4	429.9	338.1	91.81	4.683		
10,100.0	7,435.0	9,686.1	7,576.0	56.1	43.6	105.09	-2,949.2	-1,085.8	430.3	338.4	91.86	4.684		
10,200.0	7,435.0	9,586.1	7,576.0	57.8	42.1	105.08	-3,049.2	-1,086.2	430.6	338.7	91.93	4.684		
10,300.0	7,435.0	9,486.1	7,576.0	59.4	40.6	105.06	-3,149.2	-1,086.5	431.0	338.9	92.01	4.684		
10,400.0	7,435.0	9,386.1	7,576.0	61.1	39.2	105.05	-3,249.2	-1,086.9	431.3	339.2	92.10	4.683		
10,500.0	7,435.0	9,286.1	7,576.0	62.8	37.7	105.04	-3,349.2	-1,087.2	431.6	339.4	92.21	4.681		
10,600.0	7,435.0	9,186.1	7,576.0	64.5	36.3	105.03	-3,449.2	-1,087.6	432.0	339.7	92.33	4.679		
10,700.0	7,435.0	9,086.1	7,576.0	66.2	34.9	105.01	-3,549.2	-1,087.9	432.3	339.9	92.48	4.675		
10,800.0	7,435.0	8,986.1	7,576.0	67.9	33.6	105.00	-3,649.2	-1,088.3	432.7	340.0	92.64	4.671		
10,900.0	7,435.0	8,886.1	7,576.0	69.6	32.3	104.99	-3,749.2	-1,088.7	433.0	340.2	92.83	4.665		
11,000.0	7,435.0	8,786.1	7,576.0	71.3	31.0	104.98	-3,849.2	-1,089.0	433.4	340.3	93.04	4.658		
11,100.0	7,435.0	8,686.1	7,576.0	73.0	29.8	104.97	-3,949.2	-1,089.4	433.7	340.4	93.29	4.649		
11,200.0	7,435.0	8,586.1	7,576.0	74.7	28.6	104.95	-4,049.2	-1,089.7	434.1	340.5	93.58	4.638		
11,300.0	7,435.0	8,486.1	7,576.0	76.4	27.5	104.94	-4,149.2	-1,090.1	434.4	340.5	93.91	4.626		
11,400.0	7,435.0	8,386.1	7,576.0	78.1	26.5	104.93	-4,249.2	-1,090.4	434.8	340.5	94.30	4.610		
11,500.0	7,435.0	8,286.1	7,576.0	79.8	25.6	104.92	-4,349.2	-1,090.8	435.1	340.3	94.76	4.592		
11,600.0	7,435.0	8,186.1	7,576.0	81.5	24.7	104.90	-4,449.2	-1,091.2	435.4	340.1	95.30	4.569		
11,700.0	7,435.0	8,086.1	7,576.0	83.3	23.9	104.89	-4,549.2	-1,091.5	435.8	339.9	95.94	4.542		
11,800.0	7,435.0	7,986.1	7,576.0	85.0	23.3	104.88	-4,649.2	-1,091.9	436.1	339.5	96.69	4.511		
11,900.0	7,435.0	7,878.4	7,567.7	86.7	22.7	103.77	-4,756.5	-1,093.5	435.7	337.7	97.95	4.448		

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 1A-19H-B268
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 1A-19H-B268	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 3K-19H-M268 - HZ - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
11,955.2	7,435.0	7,820.8	7,555.2	87.6	22.4	102.11	-4,812.7	-1,095.5	434.8	335.7	99.08	4.389 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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				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)				
6,500.0	6,472.9	12,005.2	7,341.0	15.3	85.6	-63.69	-428.4	-857.9	978.3	938.8	39.51	24.763		
6,600.0	6,572.5	12,005.2	7,341.0	15.5	85.6	-63.69	-428.4	-857.9	891.5	851.7	39.74	22.435		
6,700.0	6,672.0	12,005.2	7,341.0	15.7	85.6	-63.69	-428.4	-857.9	807.6	767.7	39.97	20.209		
6,800.0	6,771.5	12,005.2	7,341.0	16.0	85.6	-25.90	-428.4	-857.9	727.0	685.3	41.72	17.425		
6,900.0	6,870.0	12,005.2	7,341.0	16.2	85.6	9.17	-428.4	-857.9	644.8	598.1	46.72	13.802		
7,000.0	6,965.7	12,005.2	7,341.0	16.5	85.6	25.61	-428.4	-857.9	561.0	506.8	54.15	10.359		
7,100.0	7,056.6	12,005.2	7,341.0	16.8	85.6	38.59	-428.4	-857.9	476.7	413.1	63.57	7.499		
7,200.0	7,140.9	12,005.2	7,341.0	17.1	85.6	50.49	-428.4	-857.9	393.8	320.3	73.56	5.354		
7,300.0	7,217.1	12,005.2	7,341.0	17.6	85.6	60.90	-428.4	-857.9	315.8	233.5	82.30	3.837		
7,400.0	7,283.7	12,005.2	7,341.0	18.1	85.6	68.66	-428.4	-857.9	249.2	160.7	88.50	2.816		
7,500.0	7,339.4	12,005.2	7,341.0	18.8	85.6	72.93	-428.4	-857.9	207.5	115.5	92.03	2.255		
7,574.5	7,373.1	11,978.2	7,341.0	19.4	85.2	70.33	-455.2	-854.9	201.0	110.3	90.72	2.216 SF		
7,600.0	7,383.0	11,955.1	7,341.0	19.6	84.8	67.70	-478.2	-852.3	201.0	112.2	88.83	2.263		
7,700.0	7,413.8	11,860.9	7,341.0	20.5	83.3	58.90	-571.8	-841.9	202.1	120.0	82.08	2.462		
7,800.0	7,431.1	11,763.3	7,341.0	21.5	81.7	53.19	-668.8	-831.1	201.2	123.2	77.94	2.581		
7,900.0	7,435.0	11,664.4	7,341.0	22.6	80.1	50.62	-767.2	-820.2	194.6	117.9	76.69	2.537		
8,000.0	7,435.0	11,567.3	7,341.0	23.8	78.6	48.72	-863.7	-810.5	186.9	112.3	74.59	2.505		
8,100.0	7,435.0	11,470.0	7,341.0	25.1	77.0	47.01	-960.7	-802.3	180.7	108.0	72.68	2.486		
8,200.0	7,435.0	11,372.4	7,341.0	26.4	75.4	45.56	-1,058.0	-795.8	175.8	104.8	71.02	2.476		
8,300.0	7,435.0	11,274.6	7,341.0	27.7	73.9	44.43	-1,155.7	-790.9	172.3	102.6	69.70	2.472		
8,400.0	7,435.0	11,176.7	7,341.0	29.1	72.3	43.66	-1,253.6	-787.8	170.0	101.3	68.76	2.473		
8,500.0	7,435.0	11,078.7	7,341.0	30.6	70.7	43.29	-1,351.5	-786.2	169.0	100.7	68.25	2.476		
8,540.8	7,435.0	11,038.8	7,341.0	31.2	70.0	43.25	-1,391.5	-786.1	168.9	100.7	68.18	2.477 CC, ES		
8,600.0	7,435.0	10,980.7	7,341.0	32.0	69.1	43.33	-1,449.6	-786.4	169.1	100.9	68.20	2.479		
8,700.0	7,435.0	10,881.6	7,341.0	33.5	67.5	43.71	-1,548.7	-788.0	170.2	101.7	68.52	2.484		
8,800.0	7,435.0	10,781.6	7,341.0	35.1	65.9	44.14	-1,648.6	-789.7	171.4	102.5	68.88	2.489		
8,900.0	7,435.0	10,681.6	7,341.0	36.6	64.2	44.56	-1,748.6	-791.5	172.6	103.4	69.24	2.493		
9,000.0	7,435.0	10,581.6	7,341.0	38.2	62.6	44.97	-1,848.6	-793.2	173.9	104.3	69.60	2.498		
9,100.0	7,435.0	10,481.6	7,341.0	39.7	61.0	45.37	-1,948.5	-795.0	175.1	105.1	69.96	2.503		
9,200.0	7,435.0	10,381.7	7,341.0	41.3	59.4	45.77	-2,048.5	-796.7	176.4	106.0	70.32	2.508		
9,300.0	7,435.0	10,281.7	7,341.0	42.9	57.8	46.17	-2,148.5	-798.5	177.6	106.9	70.68	2.513		
9,400.0	7,435.0	10,181.7	7,341.0	44.5	56.3	46.56	-2,248.5	-800.2	178.9	107.8	71.05	2.518		
9,500.0	7,435.0	10,081.7	7,341.0	46.2	54.7	46.94	-2,348.4	-802.0	180.2	108.8	71.41	2.523		
9,600.0	7,435.0	9,981.7	7,341.0	47.8	53.2	47.32	-2,448.4	-803.7	181.5	109.7	71.77	2.528		
9,700.0	7,435.0	9,881.7	7,341.0	49.4	51.6	47.69	-2,548.4	-805.5	182.7	110.6	72.13	2.533		
9,800.0	7,435.0	9,781.8	7,341.0	51.1	50.1	48.06	-2,648.3	-807.3	184.0	111.6	72.49	2.539		
9,900.0	7,435.0	9,681.8	7,341.0	52.8	48.6	48.42	-2,748.3	-809.0	185.4	112.5	72.86	2.544		
10,000.0	7,435.0	9,581.8	7,341.0	54.4	47.1	48.78	-2,848.3	-810.8	186.7	113.5	73.22	2.549		
10,100.0	7,435.0	9,481.8	7,341.0	56.1	45.6	49.13	-2,948.2	-812.5	188.0	114.4	73.58	2.555		
10,200.0	7,435.0	9,381.8	7,341.0	57.8	44.2	49.48	-3,048.2	-814.3	189.3	115.4	73.95	2.560		
10,300.0	7,435.0	9,281.8	7,341.0	59.4	42.7	49.82	-3,148.2	-816.0	190.7	116.3	74.32	2.565		
10,400.0	7,435.0	9,181.8	7,341.0	61.1	41.3	50.16	-3,248.1	-817.8	192.0	117.3	74.69	2.571		
10,500.0	7,435.0	9,081.9	7,341.0	62.8	40.0	50.49	-3,348.1	-819.5	193.4	118.3	75.07	2.576		
10,600.0	7,435.0	8,981.9	7,341.0	64.5	38.6	50.82	-3,448.1	-821.3	194.7	119.3	75.45	2.581		
10,700.0	7,435.0	8,881.9	7,341.0	66.2	37.3	51.14	-3,548.1	-823.0	196.1	120.2	75.84	2.585		
10,800.0	7,435.0	8,781.9	7,341.0	67.9	36.0	51.46	-3,648.0	-824.8	197.4	121.2	76.24	2.590		
10,900.0	7,435.0	8,681.9	7,341.0	69.6	34.8	51.78	-3,748.0	-826.5	198.8	122.2	76.66	2.594		
11,000.0	7,435.0	8,581.9	7,341.0	71.3	33.6	52.09	-3,848.0	-828.3	200.2	123.1	77.09	2.597		
11,100.0	7,435.0	8,482.0	7,341.0	73.0	32.5	52.39	-3,947.9	-830.0	201.6	124.0	77.53	2.600		
11,200.0	7,435.0	8,382.0	7,341.0	74.7	31.4	52.70	-4,047.9	-831.8	203.0	125.0	78.01	2.602		
11,300.0	7,435.0	8,282.0	7,341.0	76.4	30.4	52.99	-4,147.9	-833.6	204.4	125.9	78.51	2.603		
11,400.0	7,435.0	8,182.0	7,341.0	78.1	29.5	53.29	-4,247.8	-835.3	205.8	126.7	79.05	2.603		

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 1A-19H-B268
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 1A-19H-B268	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	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				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
11,500.0	7,435.0	8,082.0	7,341.0	79.8	28.6	53.58	-4,347.8	-837.1	207.2	127.5	79.64	2.601				
11,600.0	7,435.0	7,982.0	7,341.0	81.5	27.8	53.86	-4,447.8	-838.8	208.6	128.3	80.29	2.598				
11,700.0	7,435.0	7,882.0	7,341.0	83.3	27.1	54.15	-4,547.7	-840.6	210.0	129.0	81.02	2.592				
11,800.0	7,435.0	7,782.1	7,341.0	85.0	26.5	54.42	-4,647.7	-842.3	211.4	129.6	81.83	2.584				
11,900.0	7,435.0	7,700.0	7,335.5	86.7	26.1	53.61	-4,729.5	-844.8	217.7	135.8	81.88	2.659				
11,955.2	7,435.0	7,660.9	7,328.8	87.6	25.9	52.52	-4,767.9	-846.7	225.4	144.0	81.36	2.771				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 4-6-19 - ENCANA - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 102-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,100.0	7,435.0	7,687.4	7,484.1	56.1	29.1	92.29	-3,814.7	-1,021.0	932.5	861.7	70.80	13.171	
10,200.0	7,435.0	7,686.4	7,483.2	57.8	29.1	92.14	-3,814.8	-1,021.0	840.7	768.2	72.51	11.594	
10,300.0	7,435.0	7,685.5	7,482.2	59.4	29.1	91.98	-3,814.8	-1,021.0	751.0	676.8	74.23	10.118	
10,400.0	7,435.0	7,684.5	7,481.2	61.1	29.1	91.82	-3,814.8	-1,021.0	664.2	588.3	75.94	8.747	
10,500.0	7,435.0	7,683.5	7,480.2	62.8	29.1	91.66	-3,814.8	-1,021.0	581.7	504.1	77.66	7.491	
10,600.0	7,435.0	7,682.5	7,479.2	64.5	29.1	91.49	-3,814.8	-1,021.0	505.6	426.2	79.38	6.369	
10,700.0	7,435.0	7,681.5	7,478.2	66.2	29.1	91.33	-3,814.8	-1,021.1	439.1	358.0	81.10	5.414	
10,800.0	7,435.0	7,680.4	7,477.2	67.9	29.1	91.16	-3,814.8	-1,021.1	387.3	304.4	82.83	4.676	
10,900.0	7,435.0	7,679.4	7,476.2	69.6	29.1	90.99	-3,814.8	-1,021.1	356.6	272.0	84.55	4.217	
10,964.1	7,435.0	7,678.7	7,475.5	70.7	29.1	90.88	-3,814.8	-1,021.1	350.8	265.1	85.66	4.095 CC, ES	
11,000.0	7,435.0	7,678.4	7,475.1	71.3	29.1	90.82	-3,814.8	-1,021.1	352.6	266.3	86.27	4.087 SF	
11,100.0	7,435.0	7,677.3	7,474.1	73.0	29.1	90.65	-3,814.9	-1,021.1	376.2	288.2	88.00	4.275	
11,200.0	7,435.0	7,676.2	7,473.0	74.7	29.1	90.47	-3,814.9	-1,021.1	422.7	333.0	89.73	4.711	
11,300.0	7,435.0	7,675.2	7,471.9	76.4	29.1	90.29	-3,814.9	-1,021.2	485.7	394.2	91.45	5.310	
11,400.0	7,435.0	7,674.1	7,470.8	78.1	29.1	90.12	-3,814.9	-1,021.2	559.5	466.3	93.18	6.004	
11,500.0	7,435.0	7,673.0	7,469.7	79.8	29.1	89.94	-3,814.9	-1,021.2	640.5	545.6	94.91	6.748	
11,600.0	7,435.0	7,671.8	7,468.6	81.5	29.1	89.75	-3,814.9	-1,021.2	726.2	629.6	96.63	7.515	
11,700.0	7,435.0	7,670.7	7,467.5	83.3	29.1	89.57	-3,814.9	-1,021.2	815.2	716.8	98.36	8.288	
11,800.0	7,435.0	7,669.6	7,466.3	85.0	29.1	89.38	-3,814.9	-1,021.2	906.5	806.4	100.09	9.057	
11,900.0	7,435.0	7,668.4	7,465.2	86.7	29.1	89.19	-3,814.9	-1,021.3	999.4	897.6	101.81	9.816	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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: 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	85.84	0.7	10.1	10.1						
100.0	100.0	100.0	100.0	0.2	0.2	85.84	0.7	10.1	10.1	9.8	0.30	33.234			
200.0	200.0	200.0	200.0	0.3	0.3	85.84	0.7	10.1	10.1	9.4	0.65	15.462 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	177.24	0.7	10.1	11.8	10.8	1.00	11.819			
400.0	399.8	400.4	400.4	0.7	0.7	177.86	0.7	8.3	15.3	14.0	1.35	11.346			
500.0	499.5	500.8	500.7	0.9	0.9	178.22	0.6	3.1	18.7	17.0	1.70	11.002			
600.0	599.0	600.8	600.4	1.1	1.1	178.45	0.5	-3.2	21.8	19.7	2.05	10.624			
700.0	698.6	700.7	700.2	1.4	1.3	178.63	0.4	-9.6	24.8	22.4	2.40	10.357			
800.0	798.1	800.7	799.9	1.6	1.5	178.76	0.3	-15.9	27.9	25.2	2.75	10.158			
900.0	897.7	900.6	899.7	1.8	1.7	178.87	0.3	-22.2	31.0	27.9	3.10	10.005			
1,000.0	997.3	1,000.6	999.4	2.1	1.9	178.96	0.2	-28.6	34.0	30.6	3.45	9.882			
1,100.0	1,096.8	1,100.5	1,099.2	2.3	2.1	179.03	0.1	-34.9	37.1	33.3	3.79	9.782			
1,200.0	1,196.4	1,200.5	1,198.9	2.6	2.3	179.09	0.0	-41.2	40.2	36.0	4.14	9.699			
1,300.0	1,295.9	1,300.4	1,298.7	2.8	2.5	179.15	-0.1	-47.6	43.3	38.8	4.49	9.629			
1,400.0	1,395.5	1,400.4	1,398.4	3.0	2.7	179.19	-0.2	-53.9	46.3	41.5	4.84	9.569			
1,500.0	1,495.0	1,500.3	1,498.2	3.3	2.9	179.23	-0.3	-60.2	49.4	44.2	5.19	9.517			
1,600.0	1,594.6	1,600.3	1,597.9	3.5	3.1	179.27	-0.4	-66.6	52.5	46.9	5.54	9.472			
1,700.0	1,694.2	1,700.2	1,697.7	3.8	3.3	179.30	-0.5	-72.9	55.6	49.7	5.89	9.432			
1,800.0	1,793.7	1,800.2	1,797.4	4.0	3.5	179.33	-0.6	-79.2	58.6	52.4	6.24	9.397			
1,900.0	1,893.3	1,900.2	1,897.2	4.2	3.7	179.36	-0.7	-85.6	61.7	55.1	6.59	9.365			
2,000.0	1,992.8	2,000.1	1,996.9	4.5	3.9	179.38	-0.8	-91.9	64.8	57.8	6.94	9.336			
2,100.0	2,092.4	2,100.1	2,096.7	4.7	4.1	179.40	-0.9	-98.2	67.8	60.6	7.29	9.311			
2,200.0	2,191.9	2,200.0	2,196.4	4.9	4.3	179.42	-1.0	-104.6	70.9	63.3	7.64	9.287			
2,300.0	2,291.5	2,300.0	2,296.2	5.2	4.5	179.44	-1.1	-110.9	74.0	66.0	7.99	9.266			
2,400.0	2,391.1	2,399.9	2,395.9	5.4	4.7	179.46	-1.2	-117.2	77.1	68.7	8.33	9.246			
2,500.0	2,490.6	2,499.9	2,495.7	5.7	5.0	179.47	-1.3	-123.6	80.1	71.5	8.68	9.228			
2,600.0	2,590.2	2,599.8	2,595.4	5.9	5.2	179.48	-1.3	-129.9	83.2	74.2	9.03	9.212			
2,700.0	2,689.7	2,699.8	2,695.2	6.1	5.4	179.50	-1.4	-136.2	86.3	76.9	9.38	9.196			
2,800.0	2,789.3	2,799.7	2,794.9	6.4	5.6	179.51	-1.5	-142.6	89.4	79.6	9.73	9.182			
2,900.0	2,888.8	2,899.7	2,894.7	6.6	5.8	179.52	-1.6	-148.9	92.4	82.4	10.08	9.169			
3,000.0	2,988.4	2,999.6	2,994.4	6.9	6.0	179.53	-1.7	-155.2	95.5	85.1	10.43	9.157			
3,100.0	3,088.0	3,099.6	3,094.2	7.1	6.2	179.54	-1.8	-161.6	98.6	87.8	10.78	9.145			
3,200.0	3,187.5	3,199.5	3,194.0	7.3	6.4	179.55	-1.9	-167.9	101.6	90.5	11.13	9.134			
3,300.0	3,287.1	3,299.5	3,293.7	7.6	6.6	179.56	-2.0	-174.2	104.7	93.2	11.48	9.124			
3,400.0	3,386.6	3,399.4	3,393.5	7.8	6.8	179.57	-2.1	-180.6	107.8	96.0	11.83	9.114			
3,500.0	3,486.2	3,499.4	3,493.2	8.1	7.0	179.58	-2.2	-186.9	110.9	98.7	12.18	9.105			
3,600.0	3,585.7	3,599.3	3,593.0	8.3	7.2	179.58	-2.3	-193.2	113.9	101.4	12.53	9.097			
3,700.0	3,685.3	3,699.3	3,692.7	8.5	7.4	179.59	-2.4	-199.6	117.0	104.1	12.87	9.089			
3,800.0	3,784.9	3,799.3	3,792.5	8.8	7.6	179.60	-2.5	-205.9	120.1	106.9	13.22	9.081			
3,900.0	3,884.4	3,899.2	3,892.2	9.0	7.8	179.60	-2.6	-212.3	123.2	109.6	13.57	9.074			
4,000.0	3,984.0	3,999.2	3,992.0	9.3	8.1	179.61	-2.7	-218.6	126.2	112.3	13.92	9.067			
4,100.0	4,083.5	4,099.1	4,091.7	9.5	8.3	179.61	-2.8	-224.9	129.3	115.0	14.27	9.060			
4,200.0	4,183.1	4,199.1	4,191.5	9.7	8.5	179.62	-2.9	-231.3	132.4	117.8	14.62	9.054			
4,300.0	4,282.6	4,299.0	4,291.2	10.0	8.7	179.63	-2.9	-237.6	135.5	120.5	14.97	9.048			
4,400.0	4,382.2	4,399.0	4,391.0	10.2	8.9	179.63	-3.0	-243.9	138.5	123.2	15.32	9.043			
4,500.0	4,481.8	4,498.9	4,490.7	10.5	9.1	179.64	-3.1	-250.3	141.6	125.9	15.67	9.037			
4,600.0	4,581.3	4,598.9	4,590.5	10.7	9.3	179.64	-3.2	-256.6	144.7	128.7	16.02	9.032			
4,700.0	4,680.9	4,698.8	4,690.2	10.9	9.5	179.64	-3.3	-262.9	147.7	131.4	16.37	9.027			
4,800.0	4,780.4	4,798.8	4,790.0	11.2	9.7	179.65	-3.4	-269.3	150.8	134.1	16.72	9.022			
4,900.0	4,880.0	4,898.7	4,889.7	11.4	9.9	179.65	-3.5	-275.6	153.9	136.8	17.07	9.018			
5,000.0	4,979.5	4,998.7	4,989.5	11.7	10.1	179.66	-3.6	-281.9	157.0	139.5	17.41	9.013			
5,100.0	5,079.1	5,098.6	5,089.2	11.9	10.3	179.66	-3.7	-288.3	160.0	142.3	17.76	9.009			

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 1A-19H-B268
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 1A-19H-B268	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	5,178.7	5,198.6	5,189.0	12.1	10.5	179.66	-3.8	-294.6	163.1	145.0	18.11	9.005		
5,300.0	5,278.2	5,298.5	5,288.7	12.4	10.7	179.67	-3.9	-300.9	166.2	147.7	18.46	9.001		
5,400.0	5,377.8	5,398.5	5,388.5	12.6	10.9	179.67	-4.0	-307.3	169.3	150.4	18.81	8.998		
5,500.0	5,477.3	5,498.5	5,488.2	12.9	11.1	179.67	-4.1	-313.6	172.3	153.2	19.16	8.994		
5,600.0	5,576.9	5,598.4	5,588.0	13.1	11.4	179.68	-4.2	-319.9	175.4	155.9	19.51	8.990		
5,700.0	5,676.4	5,698.4	5,687.7	13.3	11.6	179.68	-4.3	-326.3	178.5	158.6	19.86	8.987		
5,800.0	5,776.0	5,798.3	5,787.5	13.6	11.8	179.68	-4.4	-332.6	181.5	161.3	20.21	8.984		
5,900.0	5,875.6	5,898.3	5,887.3	13.8	12.0	179.69	-4.4	-338.9	184.6	164.1	20.56	8.981		
6,000.0	5,975.1	5,998.2	5,987.0	14.1	12.2	179.69	-4.5	-345.3	187.7	166.8	20.91	8.978		
6,100.0	6,074.7	6,098.2	6,086.8	14.3	12.4	179.69	-4.6	-351.6	190.8	169.5	21.26	8.975		
6,200.0	6,174.2	6,198.1	6,186.5	14.5	12.6	179.69	-4.7	-357.9	193.8	172.2	21.60	8.972		
6,300.0	6,273.8	6,298.1	6,286.3	14.8	12.8	179.70	-4.8	-364.3	196.9	175.0	21.95	8.969		
6,400.0	6,373.3	6,398.0	6,386.0	15.0	13.0	179.70	-4.9	-370.6	200.0	177.7	22.30	8.967		
6,500.0	6,472.9	6,498.0	6,485.8	15.3	13.2	179.70	-5.0	-376.9	203.1	180.4	22.65	8.964		
6,600.0	6,572.5	6,597.9	6,585.5	15.5	13.4	179.70	-5.1	-383.3	206.1	183.1	23.00	8.961		
6,700.0	6,672.0	6,697.9	6,685.3	15.7	13.6	179.70	-5.2	-389.6	209.2	185.9	23.35	8.959		
6,800.0	6,771.5	6,797.8	6,785.0	16.0	13.8	-145.18	-5.3	-395.9	212.3	188.6	23.70	8.959		
6,900.0	6,870.0	6,897.6	6,884.6	16.2	14.0	-119.12	-6.1	-402.2	216.1	192.1	24.05	8.985		
7,000.0	6,965.7	7,000.2	6,986.1	16.5	14.3	-113.91	-18.2	-408.7	221.0	196.7	24.39	9.062		
7,100.0	7,056.6	7,105.2	7,087.3	16.8	14.5	-113.36	-45.5	-415.1	226.8	202.1	24.67	9.194		
7,200.0	7,140.9	7,212.9	7,185.6	17.1	14.8	-114.27	-88.6	-421.4	233.0	208.1	24.89	9.360		
7,300.0	7,217.1	7,323.1	7,278.5	17.6	15.2	-115.63	-147.4	-427.3	239.3	214.2	25.15	9.516		
7,400.0	7,283.7	7,435.7	7,363.0	18.1	15.7	-117.03	-221.5	-432.6	245.4	219.8	25.59	9.591		
7,500.0	7,339.4	7,550.6	7,436.1	18.8	16.4	-118.28	-309.8	-437.3	250.8	224.4	26.38	9.508		
7,600.0	7,383.0	7,667.3	7,495.0	19.6	17.3	-119.26	-410.4	-441.0	255.2	227.5	27.71	9.212		
7,700.0	7,413.8	7,785.5	7,537.3	20.5	18.4	-119.92	-520.6	-443.7	258.4	228.7	29.65	8.713		
7,800.0	7,431.1	7,904.6	7,561.0	21.5	19.7	-120.23	-637.2	-445.2	260.0	227.8	32.23	8.069		
7,900.0	7,435.0	8,018.4	7,566.0	22.6	21.0	-120.23	-750.7	-445.5	260.2	225.1	35.09	7.417		
8,000.0	7,435.0	8,118.4	7,566.0	23.8	22.3	-120.23	-850.7	-445.5	260.2	222.8	37.43	6.953		
8,100.0	7,435.0	8,218.4	7,566.0	25.1	23.6	-120.23	-950.7	-445.5	260.2	220.4	39.87	6.528		
8,200.0	7,435.0	8,318.4	7,566.0	26.4	25.0	-120.23	-1,050.7	-445.5	260.2	217.8	42.38	6.140		
8,300.0	7,435.0	8,418.4	7,566.0	27.7	26.5	-120.23	-1,150.7	-445.5	260.2	215.3	44.96	5.788		
8,400.0	7,435.0	8,518.4	7,566.0	29.1	27.9	-120.23	-1,250.7	-445.5	260.2	212.6	47.59	5.468		
8,500.0	7,435.0	8,618.4	7,566.0	30.6	29.4	-120.23	-1,350.7	-445.5	260.2	210.0	50.27	5.176		
8,600.0	7,435.0	8,718.4	7,566.0	32.0	31.0	-120.23	-1,450.7	-445.5	260.2	207.2	52.99	4.911		
8,700.0	7,435.0	8,818.4	7,566.0	33.5	32.5	-120.23	-1,550.7	-445.5	260.2	204.5	55.74	4.668		
8,800.0	7,435.0	8,918.4	7,566.0	35.1	34.1	-120.23	-1,650.7	-445.5	260.2	201.7	58.52	4.447		
8,900.0	7,435.0	9,018.4	7,566.0	36.6	35.7	-120.23	-1,750.7	-445.5	260.2	198.9	61.33	4.243		
9,000.0	7,435.0	9,118.4	7,566.0	38.2	37.3	-120.23	-1,850.7	-445.5	260.2	196.1	64.15	4.057		
9,100.0	7,435.0	9,218.4	7,566.0	39.7	38.9	-120.23	-1,950.7	-445.5	260.2	193.2	66.99	3.884		
9,200.0	7,435.0	9,318.4	7,566.0	41.3	40.5	-120.23	-2,050.7	-445.5	260.2	190.4	69.85	3.725		
9,300.0	7,435.0	9,418.4	7,566.0	42.9	42.1	-120.23	-2,150.7	-445.5	260.2	187.5	72.73	3.578		
9,400.0	7,435.0	9,518.4	7,566.0	44.5	43.8	-120.23	-2,250.7	-445.5	260.2	184.6	75.62	3.441		
9,500.0	7,435.0	9,618.4	7,566.0	46.2	45.4	-120.23	-2,350.7	-445.5	260.2	181.7	78.51	3.314		
9,600.0	7,435.0	9,718.4	7,566.0	47.8	47.1	-120.23	-2,450.7	-445.5	260.2	178.8	81.42	3.196		
9,700.0	7,435.0	9,818.4	7,566.0	49.4	48.8	-120.23	-2,550.7	-445.5	260.2	175.9	84.34	3.085		
9,800.0	7,435.0	9,918.4	7,566.0	51.1	50.4	-120.23	-2,650.7	-445.5	260.2	173.0	87.27	2.982		
9,900.0	7,435.0	10,018.4	7,566.0	52.8	52.1	-120.23	-2,750.7	-445.5	260.2	170.0	90.20	2.885		
10,000.0	7,435.0	10,118.4	7,566.0	54.4	53.8	-120.23	-2,850.7	-445.5	260.2	167.1	93.14	2.794		
10,100.0	7,435.0	10,218.4	7,566.0	56.1	55.5	-120.23	-2,950.7	-445.5	260.2	164.1	96.09	2.708		
10,200.0	7,435.0	10,318.4	7,566.0	57.8	57.2	-120.23	-3,050.7	-445.5	260.2	161.2	99.04	2.628		
10,300.0	7,435.0	10,418.4	7,566.0	59.4	58.9	-120.23	-3,150.7	-445.5	260.2	158.2	101.99	2.551		

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 1A-19H-B268
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 1A-19H-B268	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	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	10,518.4	7,566.0	61.1	60.6	-120.23	-3,250.7	-445.5	260.2	155.3	104.96	2.479		
10,500.0	7,435.0	10,618.4	7,566.0	62.8	62.3	-120.23	-3,350.7	-445.5	260.2	152.3	107.92	2.411		
10,600.0	7,435.0	10,718.4	7,566.0	64.5	64.0	-120.23	-3,450.7	-445.5	260.2	149.3	110.89	2.347		
10,700.0	7,435.0	10,818.4	7,566.0	66.2	65.7	-120.23	-3,550.7	-445.5	260.2	146.4	113.86	2.285		
10,800.0	7,435.0	10,918.4	7,566.0	67.9	67.4	-120.23	-3,650.7	-445.5	260.2	143.4	116.84	2.227		
10,900.0	7,435.0	11,018.4	7,566.0	69.6	69.1	-120.23	-3,750.7	-445.5	260.2	140.4	119.82	2.172		
11,000.0	7,435.0	11,118.4	7,566.0	71.3	70.8	-120.23	-3,850.7	-445.5	260.2	137.4	122.80	2.119		
11,100.0	7,435.0	11,218.4	7,566.0	73.0	72.5	-120.23	-3,950.7	-445.5	260.2	134.4	125.79	2.069		
11,200.0	7,435.0	11,318.4	7,566.0	74.7	74.3	-120.23	-4,050.7	-445.5	260.2	131.5	128.77	2.021		
11,300.0	7,435.0	11,418.4	7,566.0	76.4	76.0	-120.23	-4,150.7	-445.5	260.2	128.5	131.76	1.975		
11,400.0	7,435.0	11,518.4	7,566.0	78.1	77.7	-120.23	-4,250.7	-445.5	260.2	125.5	134.75	1.931		
11,500.0	7,435.0	11,618.4	7,566.0	79.8	79.4	-120.23	-4,350.7	-445.5	260.2	122.5	137.75	1.889		
11,600.0	7,435.0	11,718.4	7,566.0	81.5	81.1	-120.23	-4,450.7	-445.5	260.2	119.5	140.74	1.849		
11,700.0	7,435.0	11,818.4	7,566.0	83.3	82.9	-120.23	-4,550.7	-445.5	260.2	116.5	143.74	1.810		
11,800.0	7,435.0	11,918.4	7,566.0	85.0	84.6	-120.23	-4,650.7	-445.5	260.2	113.5	146.74	1.773		
11,900.0	7,435.0	12,018.4	7,566.0	86.7	86.3	-120.23	-4,750.7	-445.5	260.2	110.5	149.74	1.738		
11,929.7	7,435.0	12,048.0	7,566.0	87.2	86.8	-120.23	-4,780.4	-445.5	260.2	109.6	150.63	1.728		
11,955.2	7,435.0	12,069.2	7,566.0	87.6	87.2	-120.23	-4,801.6	-445.5	260.3	108.9	151.33	1.720 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 #3													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	86.84	1.1	19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	86.84	1.1	19.9	19.9	19.6	0.30	65.472		
200.0	200.0	200.0	200.0	0.3	0.3	86.84	1.1	19.9	19.9	19.2	0.65	30.460 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	177.94	1.1	19.9	21.6	20.6	1.00	21.596		
400.0	399.8	399.8	399.8	0.7	0.7	178.34	1.1	19.9	26.9	25.5	1.35	19.911		
500.0	499.5	500.7	500.6	0.9	0.9	178.63	1.1	18.1	33.7	32.0	1.70	19.830		
600.0	599.0	601.2	601.1	1.1	1.0	178.69	1.1	13.2	38.2	36.1	2.05	18.642		
700.0	698.6	701.1	700.9	1.4	1.2	178.71	1.1	7.8	42.2	39.8	2.40	17.598		
800.0	798.1	801.1	800.6	1.6	1.4	178.72	1.1	2.4	46.2	43.5	2.75	16.820		
900.0	897.7	901.0	900.4	1.8	1.6	178.74	1.1	-3.0	50.2	47.1	3.10	16.218		
1,000.0	997.3	1,000.9	1,000.2	2.1	1.8	178.75	1.0	-8.4	54.2	50.8	3.45	15.737		
1,100.0	1,096.8	1,100.8	1,100.0	2.3	2.0	178.76	1.0	-13.8	58.2	54.4	3.79	15.346		
1,200.0	1,196.4	1,200.7	1,199.7	2.6	2.2	178.77	1.0	-19.2	62.2	58.1	4.14	15.020		
1,300.0	1,295.9	1,300.7	1,299.5	2.8	2.4	178.77	1.0	-24.6	66.2	61.8	4.49	14.745		
1,400.0	1,395.5	1,400.6	1,399.3	3.0	2.6	178.78	1.0	-30.0	70.3	65.4	4.84	14.510		
1,500.0	1,495.0	1,500.5	1,499.0	3.3	2.8	178.79	1.0	-35.4	74.3	69.1	5.19	14.306		
1,600.0	1,594.6	1,600.4	1,598.8	3.5	3.0	178.79	1.0	-40.8	78.3	72.7	5.54	14.128		
1,700.0	1,694.2	1,700.3	1,698.6	3.8	3.2	178.80	1.0	-46.2	82.3	76.4	5.89	13.972		
1,800.0	1,793.7	1,800.3	1,798.4	4.0	3.4	178.80	1.0	-51.6	86.3	80.1	6.24	13.832		
1,900.0	1,893.3	1,900.2	1,898.1	4.2	3.6	178.80	1.0	-57.0	90.3	83.7	6.59	13.708		
2,000.0	1,992.8	2,000.1	1,997.9	4.5	3.8	178.81	1.0	-62.4	94.3	87.4	6.94	13.596		
2,100.0	2,092.4	2,100.0	2,097.7	4.7	4.0	178.81	0.9	-67.8	98.3	91.0	7.29	13.495		
2,200.0	2,191.9	2,199.9	2,197.5	4.9	4.2	178.81	0.9	-73.2	102.3	94.7	7.64	13.403		
2,300.0	2,291.5	2,299.9	2,297.2	5.2	4.4	178.82	0.9	-78.6	106.3	98.4	7.98	13.319		
2,400.0	2,391.1	2,399.8	2,397.0	5.4	4.6	178.82	0.9	-84.0	110.4	102.0	8.33	13.242		
2,500.0	2,490.6	2,499.7	2,496.8	5.7	4.8	178.82	0.9	-89.4	114.4	105.7	8.68	13.171		
2,600.0	2,590.2	2,599.6	2,596.6	5.9	5.0	178.82	0.9	-94.8	118.4	109.3	9.03	13.106		
2,700.0	2,689.7	2,699.5	2,696.3	6.1	5.2	178.83	0.9	-100.2	122.4	113.0	9.38	13.046		
2,800.0	2,789.3	2,799.5	2,796.1	6.4	5.4	178.83	0.9	-105.6	126.4	116.7	9.73	12.990		
2,900.0	2,888.8	2,899.4	2,895.9	6.6	5.5	178.83	0.9	-111.0	130.4	120.3	10.08	12.937		
3,000.0	2,988.4	2,999.3	2,995.7	6.9	5.7	178.83	0.9	-116.4	134.4	124.0	10.43	12.889		
3,100.0	3,088.0	3,099.2	3,095.4	7.1	5.9	178.83	0.9	-121.8	138.4	127.6	10.78	12.843		
3,200.0	3,187.5	3,199.1	3,195.2	7.3	6.1	178.83	0.8	-127.2	142.4	131.3	11.13	12.801		
3,300.0	3,287.1	3,299.1	3,295.0	7.6	6.3	178.84	0.8	-132.6	146.4	135.0	11.48	12.760		
3,400.0	3,386.6	3,399.0	3,394.7	7.8	6.5	178.84	0.8	-138.0	150.4	138.6	11.83	12.723		
3,500.0	3,486.2	3,498.9	3,494.5	8.1	6.7	178.84	0.8	-143.4	154.5	142.3	12.17	12.687		
3,600.0	3,585.7	3,598.8	3,594.3	8.3	6.9	178.84	0.8	-148.8	158.5	145.9	12.52	12.654		
3,700.0	3,685.3	3,698.7	3,694.1	8.5	7.1	178.84	0.8	-154.2	162.5	149.6	12.87	12.622		
3,800.0	3,784.9	3,798.7	3,793.8	8.8	7.3	178.84	0.8	-159.6	166.5	153.3	13.22	12.592		
3,900.0	3,884.4	3,898.6	3,893.6	9.0	7.5	178.84	0.8	-165.0	170.5	156.9	13.57	12.563		
4,000.0	3,984.0	3,998.5	3,993.4	9.3	7.7	178.84	0.8	-170.4	174.5	160.6	13.92	12.536		
4,100.0	4,083.5	4,098.4	4,093.2	9.5	7.9	178.85	0.8	-175.8	178.5	164.2	14.27	12.511		
4,200.0	4,183.1	4,198.3	4,192.9	9.7	8.1	178.85	0.8	-181.2	182.5	167.9	14.62	12.486		
4,300.0	4,282.6	4,298.3	4,292.7	10.0	8.3	178.85	0.7	-186.6	186.5	171.6	14.97	12.463		
4,400.0	4,382.2	4,398.2	4,392.5	10.2	8.5	178.85	0.7	-192.0	190.5	175.2	15.32	12.440		
4,500.0	4,481.8	4,498.1	4,492.3	10.5	8.7	178.85	0.7	-197.4	194.6	178.9	15.67	12.419		
4,600.0	4,581.3	4,598.0	4,592.0	10.7	8.9	178.85	0.7	-202.8	198.6	182.6	16.02	12.399		
4,700.0	4,680.9	4,697.9	4,691.8	10.9	9.1	178.85	0.7	-208.2	202.6	186.2	16.36	12.379		
4,800.0	4,780.4	4,797.9	4,791.6	11.2	9.3	178.85	0.7	-213.6	206.6	189.9	16.71	12.360		
4,900.0	4,880.0	4,897.8	4,891.4	11.4	9.5	178.85	0.7	-219.0	210.6	193.5	17.06	12.343		
5,000.0	4,979.5	4,997.7	4,991.1	11.7	9.7	178.85	0.7	-224.4	214.6	197.2	17.41	12.325		
5,100.0	5,079.1	5,097.6	5,090.9	11.9	9.9	178.85	0.7	-229.8	218.6	200.9	17.76	12.309		

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 1A-19H-B268
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 1A-19H-B268	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 #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	5,178.7	5,197.5	5,190.7	12.1	10.1	178.85	0.7	-235.2	222.6	204.5	18.11	12.293		
5,300.0	5,278.2	5,297.4	5,290.4	12.4	10.3	178.85	0.7	-240.6	226.6	208.2	18.46	12.278		
5,400.0	5,377.8	5,397.4	5,390.2	12.6	10.5	178.85	0.6	-246.0	230.6	211.8	18.81	12.263		
5,500.0	5,477.3	5,497.3	5,490.0	12.9	10.7	178.86	0.6	-251.4	234.7	215.5	19.16	12.249		
5,600.0	5,576.9	5,597.2	5,589.8	13.1	10.9	178.86	0.6	-256.8	238.7	219.2	19.51	12.235		
5,700.0	5,676.4	5,697.1	5,689.5	13.3	11.1	178.86	0.6	-262.2	242.7	222.8	19.86	12.222		
5,800.0	5,776.0	5,797.0	5,789.3	13.6	11.3	178.86	0.6	-267.6	246.7	226.5	20.20	12.209		
5,900.0	5,875.6	5,897.0	5,889.1	13.8	11.5	178.86	0.6	-273.0	250.7	230.1	20.55	12.197		
6,000.0	5,975.1	5,996.9	5,988.9	14.1	11.7	178.86	0.6	-278.4	254.7	233.8	20.90	12.185		
6,100.0	6,074.7	6,096.8	6,088.6	14.3	11.9	178.86	0.6	-283.8	258.7	237.5	21.25	12.173		
6,200.0	6,174.2	6,196.7	6,188.4	14.5	12.1	178.86	0.6	-289.2	262.7	241.1	21.60	12.162		
6,300.0	6,273.8	6,296.6	6,288.2	14.8	12.3	178.86	0.6	-294.6	266.7	244.8	21.95	12.151		
6,400.0	6,373.3	6,396.6	6,388.0	15.0	12.5	178.86	0.5	-300.0	270.7	248.4	22.30	12.141		
6,500.0	6,472.9	6,496.5	6,487.7	15.3	12.7	178.86	0.5	-305.4	274.7	252.1	22.65	12.131		
6,600.0	6,572.5	6,596.4	6,587.5	15.5	12.9	178.86	0.5	-310.8	278.8	255.8	23.00	12.121		
6,700.0	6,672.0	6,696.4	6,687.3	15.7	13.1	179.43	-2.3	-316.1	282.8	259.4	23.34	12.112		
6,800.0	6,771.5	6,794.4	6,783.9	16.0	13.3	-142.21	-17.6	-320.9	287.1	263.4	23.71	12.109		
6,900.0	6,870.0	6,890.2	6,875.5	16.2	13.5	-109.73	-45.2	-325.1	292.6	268.4	24.20	12.089		
7,000.0	6,965.7	6,984.2	6,961.0	16.5	13.7	-97.66	-84.0	-328.8	299.0	274.1	24.86	12.024		
7,100.0	7,056.6	7,076.6	7,039.4	16.8	14.0	-90.81	-132.6	-331.7	305.9	280.2	25.71	11.901		
7,200.0	7,140.9	7,167.6	7,109.8	17.1	14.4	-86.09	-190.0	-334.0	313.2	286.5	26.71	11.723		
7,300.0	7,217.1	7,257.3	7,171.7	17.6	14.9	-82.55	-254.9	-335.7	320.5	292.6	27.86	11.502		
7,400.0	7,283.7	7,346.0	7,224.5	18.1	15.5	-79.83	-326.1	-336.7	327.5	298.4	29.12	11.246		
7,500.0	7,339.4	7,433.9	7,267.7	18.8	16.2	-77.74	-402.6	-337.0	334.0	303.5	30.48	10.958		
7,600.0	7,383.0	7,521.2	7,301.0	19.6	17.0	-76.19	-483.2	-336.7	339.8	307.9	31.92	10.645		
7,700.0	7,413.8	7,608.0	7,324.2	20.5	17.9	-75.11	-566.7	-335.8	344.7	311.3	33.45	10.307		
7,800.0	7,431.1	7,694.4	7,337.1	21.5	18.9	-74.48	-652.2	-334.2	348.7	313.6	35.07	9.942		
7,900.0	7,435.0	7,784.2	7,340.0	22.6	20.0	-74.32	-741.9	-332.0	351.5	314.5	37.00	9.500		
8,000.0	7,435.0	7,884.2	7,340.0	23.8	21.3	-74.43	-841.8	-329.4	354.1	314.4	39.69	8.919		
8,100.0	7,435.0	7,984.2	7,340.0	25.1	22.7	-74.54	-941.7	-326.8	356.6	314.1	42.49	8.393		
8,200.0	7,435.0	8,084.1	7,340.0	26.4	24.1	-74.65	-1,041.7	-324.2	359.1	313.7	45.36	7.916		
8,300.0	7,435.0	8,184.1	7,340.0	27.7	25.6	-74.76	-1,141.6	-321.6	361.6	313.3	48.31	7.485		
8,400.0	7,435.0	8,284.1	7,340.0	29.1	27.1	-74.87	-1,241.5	-319.0	364.1	312.8	51.32	7.096		
8,500.0	7,435.0	8,384.0	7,340.0	30.6	28.6	-74.98	-1,341.5	-316.3	366.7	312.3	54.38	6.743		
8,600.0	7,435.0	8,484.0	7,340.0	32.0	30.1	-75.08	-1,441.4	-313.7	369.2	311.7	57.48	6.424		
8,700.0	7,435.0	8,584.0	7,340.0	33.5	31.7	-75.19	-1,541.3	-311.1	371.7	311.1	60.61	6.133		
8,800.0	7,435.0	8,683.9	7,340.0	35.1	33.3	-75.29	-1,641.3	-308.5	374.3	310.5	63.78	5.868		
8,900.0	7,435.0	8,783.9	7,340.0	36.6	34.9	-75.39	-1,741.2	-305.9	376.8	309.8	66.97	5.626		
9,000.0	7,435.0	8,883.9	7,340.0	38.2	36.5	-75.49	-1,841.1	-303.2	379.3	309.1	70.19	5.405		
9,100.0	7,435.0	8,983.8	7,340.0	39.7	38.1	-75.59	-1,941.0	-300.6	381.9	308.4	73.43	5.201		
9,200.0	7,435.0	9,083.8	7,340.0	41.3	39.8	-75.69	-2,041.0	-298.0	384.4	307.7	76.68	5.013		
9,300.0	7,435.0	9,183.8	7,340.0	42.9	41.4	-75.78	-2,140.9	-295.4	386.9	307.0	79.96	4.839		
9,400.0	7,435.0	9,283.7	7,340.0	44.5	43.1	-75.88	-2,240.8	-292.8	389.5	306.2	83.24	4.679		
9,500.0	7,435.0	9,383.7	7,340.0	46.2	44.8	-75.97	-2,340.8	-290.2	392.0	305.5	86.54	4.530		
9,600.0	7,435.0	9,483.7	7,340.0	47.8	46.4	-76.06	-2,440.7	-287.5	394.6	304.7	89.86	4.391		
9,700.0	7,435.0	9,583.6	7,340.0	49.4	48.1	-76.15	-2,540.6	-284.9	397.1	303.9	93.18	4.262		
9,800.0	7,435.0	9,683.6	7,340.0	51.1	49.8	-76.24	-2,640.6	-282.3	399.6	303.1	96.51	4.141		
9,900.0	7,435.0	9,783.6	7,340.0	52.8	51.5	-76.33	-2,740.5	-279.7	402.2	302.3	99.86	4.028		
10,000.0	7,435.0	9,883.5	7,340.0	54.4	53.2	-76.42	-2,840.4	-277.1	404.7	301.5	103.21	3.921		
10,100.0	7,435.0	9,983.5	7,340.0	56.1	54.9	-76.51	-2,940.4	-274.5	407.3	300.7	106.57	3.822		
10,200.0	7,435.0	10,083.5	7,340.0	57.8	56.6	-76.59	-3,040.3	-271.8	409.8	299.9	109.93	3.728		
10,300.0	7,435.0	10,186.8	7,340.0	59.4	58.3	-76.67	-3,143.6	-269.3	412.2	298.8	113.36	3.636		

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 1A-19H-B268
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 1A-19H-B268	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 #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		
10,400.0	7,435.0	10,290.6	7,340.0	61.1	60.1	-76.71	-3,247.4	-268.2	413.2	296.4	116.78	3.538		
10,500.0	7,435.0	10,390.6	7,340.0	62.8	61.8	-76.73	-3,347.4	-267.4	414.0	293.9	120.14	3.446		
10,600.0	7,435.0	10,490.6	7,340.0	64.5	63.5	-76.76	-3,447.4	-266.6	414.8	291.3	123.50	3.359		
10,700.0	7,435.0	10,590.6	7,340.0	66.2	65.2	-76.79	-3,547.4	-265.7	415.7	288.8	126.87	3.276		
10,800.0	7,435.0	10,690.6	7,340.0	67.9	67.0	-76.81	-3,647.4	-264.9	416.5	286.2	130.24	3.198		
10,900.0	7,435.0	10,790.6	7,340.0	69.6	68.7	-76.84	-3,747.4	-264.1	417.3	283.7	133.61	3.123		
11,000.0	7,435.0	10,890.6	7,340.0	71.3	70.4	-76.87	-3,847.3	-263.2	418.1	281.1	136.99	3.052		
11,100.0	7,435.0	10,990.6	7,340.0	73.0	72.1	-76.89	-3,947.3	-262.4	418.9	278.5	140.37	2.984		
11,200.0	7,435.0	11,090.6	7,340.0	74.7	73.8	-76.92	-4,047.3	-261.6	419.7	275.9	143.76	2.920		
11,300.0	7,435.0	11,190.6	7,340.0	76.4	75.6	-76.94	-4,147.3	-260.7	420.5	273.4	147.14	2.858		
11,400.0	7,435.0	11,290.6	7,340.0	78.1	77.3	-76.97	-4,247.3	-259.9	421.3	270.8	150.53	2.799		
11,500.0	7,435.0	11,390.6	7,340.0	79.8	79.0	-76.99	-4,347.3	-259.1	422.1	268.2	153.92	2.742		
11,600.0	7,435.0	11,490.5	7,340.0	81.5	80.8	-77.02	-4,447.3	-258.3	422.9	265.6	157.32	2.688		
11,700.0	7,435.0	11,590.5	7,340.0	83.3	82.5	-77.04	-4,547.3	-257.4	423.7	263.0	160.72	2.637		
11,800.0	7,435.0	11,690.5	7,340.0	85.0	84.2	-77.07	-4,647.3	-256.6	424.6	260.4	164.11	2.587		
11,900.0	7,435.0	11,790.5	7,340.0	86.7	85.9	-77.09	-4,747.3	-255.8	425.4	257.9	167.51	2.539		
11,955.2	7,435.0	11,840.8	7,340.0	87.6	86.8	-77.11	-4,797.5	-255.3	425.8	256.5	169.31	2.515 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 1D-19H-B2688 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	87.21	1.5	29.9	30.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.21	1.5	29.9	30.0	29.7	0.30	98.635		
200.0	200.0	200.0	200.0	0.3	0.3	87.21	1.5	29.9	30.0	29.3	0.65	45.889	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.24	1.5	29.9	31.7	30.7	1.00	31.653		
400.0	399.8	399.8	399.8	0.7	0.7	178.48	1.5	29.9	36.9	35.6	1.35	27.378		
500.0	499.5	499.5	499.5	0.9	0.8	178.77	1.5	29.9	45.5	43.8	1.70	26.826		
600.0	599.0	599.2	599.2	1.1	1.0	178.94	1.5	29.6	54.5	52.5	2.04	26.684		
700.0	698.6	698.8	698.8	1.4	1.2	179.06	1.5	29.2	63.6	61.2	2.39	26.579		
800.0	798.1	798.4	798.4	1.6	1.4	179.16	1.5	28.9	72.6	69.9	2.74	26.501		
900.0	897.7	898.0	898.0	1.8	1.5	179.23	1.6	28.5	81.7	78.6	3.09	26.440		
1,000.0	997.3	997.6	997.6	2.1	1.7	179.29	1.6	28.1	90.7	87.3	3.44	26.392		
1,100.0	1,096.8	1,097.2	1,097.2	2.3	1.9	179.33	1.6	27.8	99.7	96.0	3.78	26.353		
1,200.0	1,196.4	1,196.8	1,196.8	2.6	2.1	179.37	1.6	27.4	108.8	104.6	4.13	26.321		
1,300.0	1,295.9	1,296.4	1,296.4	2.8	2.2	179.40	1.7	27.0	117.8	113.3	4.48	26.294		
1,400.0	1,395.5	1,395.9	1,395.9	3.0	2.4	179.43	1.7	26.7	126.9	122.0	4.83	26.270		
1,500.0	1,495.0	1,495.5	1,495.5	3.3	2.6	179.46	1.7	26.3	135.9	130.7	5.18	26.250		
1,600.0	1,594.6	1,595.1	1,595.1	3.5	2.8	179.48	1.7	26.0	144.9	139.4	5.53	26.232		
1,700.0	1,694.2	1,694.7	1,694.7	3.8	2.9	179.50	1.8	25.6	154.0	148.1	5.87	26.217		
1,800.0	1,793.7	1,794.3	1,794.3	4.0	3.1	179.52	1.8	25.2	163.0	156.8	6.22	26.203		
1,900.0	1,893.3	1,893.9	1,893.9	4.2	3.3	179.53	1.8	24.9	172.1	165.5	6.57	26.191		
2,000.0	1,992.8	1,993.5	1,993.5	4.5	3.5	179.54	1.8	24.5	181.1	174.2	6.92	26.180		
2,100.0	2,092.4	2,093.1	2,093.1	4.7	3.6	179.56	1.9	24.2	190.1	182.9	7.27	26.170		
2,200.0	2,191.9	2,192.7	2,192.7	4.9	3.8	179.57	1.9	23.8	199.2	191.6	7.61	26.161		
2,300.0	2,291.5	2,292.3	2,292.3	5.2	4.0	179.58	1.9	23.4	208.2	200.3	7.96	26.152		
2,400.0	2,391.1	2,391.9	2,391.8	5.4	4.2	179.59	1.9	23.1	217.3	208.9	8.31	26.145		
2,500.0	2,490.6	2,491.4	2,491.4	5.7	4.3	179.60	2.0	22.7	226.3	217.6	8.66	26.138		
2,600.0	2,590.2	2,591.0	2,591.0	5.9	4.5	179.60	2.0	22.3	235.3	226.3	9.01	26.131		
2,700.0	2,689.7	2,690.6	2,690.6	6.1	4.7	179.61	2.0	22.0	244.4	235.0	9.35	26.125		
2,800.0	2,789.3	2,790.2	2,790.2	6.4	4.8	179.62	2.0	21.6	253.4	243.7	9.70	26.120		
2,900.0	2,888.8	2,889.8	2,889.8	6.6	5.0	179.63	2.1	21.3	262.5	252.4	10.05	26.115		
3,000.0	2,988.4	2,989.4	2,989.4	6.9	5.2	179.63	2.1	20.9	271.5	261.1	10.40	26.110		
3,100.0	3,088.0	3,089.0	3,089.0	7.1	5.4	179.64	2.1	20.5	280.5	269.8	10.75	26.105		
3,200.0	3,187.5	3,188.6	3,188.6	7.3	5.5	179.64	2.1	20.2	289.6	278.5	11.09	26.101		
3,300.0	3,287.1	3,288.2	3,288.1	7.6	5.7	179.65	2.2	19.8	298.6	287.2	11.44	26.097		
3,400.0	3,386.6	3,387.8	3,387.7	7.8	5.9	179.65	2.2	19.4	307.7	295.9	11.79	26.093		
3,500.0	3,486.2	3,487.3	3,487.3	8.1	6.1	179.66	2.2	19.1	316.7	304.6	12.14	26.090		
3,600.0	3,585.7	3,586.9	3,586.9	8.3	6.2	179.66	2.2	18.7	325.7	313.3	12.49	26.087		
3,700.0	3,685.3	3,686.5	3,686.5	8.5	6.4	179.66	2.3	18.4	334.8	321.9	12.83	26.084		
3,800.0	3,784.9	3,786.1	3,786.1	8.8	6.6	179.67	2.3	18.0	343.8	330.6	13.18	26.081		
3,900.0	3,884.4	3,885.7	3,885.7	9.0	6.8	179.67	2.3	17.6	352.9	339.3	13.53	26.078		
4,000.0	3,984.0	3,985.3	3,985.3	9.3	6.9	179.67	2.3	17.3	361.9	348.0	13.88	26.075		
4,100.0	4,083.5	4,084.9	4,084.9	9.5	7.1	179.68	2.4	16.9	370.9	356.7	14.23	26.073		
4,200.0	4,183.1	4,184.5	4,184.5	9.7	7.3	179.68	2.4	16.6	380.0	365.4	14.58	26.070		
4,300.0	4,282.6	4,284.1	4,284.0	10.0	7.5	179.68	2.4	16.2	389.0	374.1	14.92	26.068		
4,400.0	4,382.2	4,383.7	4,383.6	10.2	7.6	179.69	2.4	15.8	398.1	382.8	15.27	26.066		
4,500.0	4,481.8	4,483.3	4,483.2	10.5	7.8	179.69	2.5	15.5	407.1	391.5	15.62	26.064		
4,600.0	4,581.3	4,582.8	4,582.8	10.7	8.0	179.69	2.5	15.1	416.1	400.2	15.97	26.062		
4,700.0	4,680.9	4,682.4	4,682.4	10.9	8.2	179.69	2.5	14.7	425.2	408.9	16.32	26.060		
4,800.0	4,780.4	4,782.0	4,782.0	11.2	8.3	179.70	2.5	14.4	434.2	417.6	16.66	26.058		
4,900.0	4,880.0	4,881.6	4,881.6	11.4	8.5	179.70	2.6	14.0	443.3	426.2	17.01	26.056		
5,000.0	4,979.5	4,981.2	4,981.2	11.7	8.7	179.70	2.6	13.7	452.3	434.9	17.36	26.054		
5,100.0	5,079.1	5,080.8	5,080.8	11.9	8.8	179.70	2.6	13.3	461.3	443.6	17.71	26.053		

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 1A-19H-B268
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 1A-19H-B268	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 1D-19H-B2688 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,178.7	5,180.4	5,180.4	12.1	9.0	179.70	2.6	12.9	470.4	452.3	18.06	26.051		
5,300.0	5,278.2	5,280.0	5,279.9	12.4	9.2	179.71	2.7	12.6	479.4	461.0	18.40	26.050		
5,400.0	5,377.8	5,379.6	5,379.5	12.6	9.4	179.71	2.7	12.2	488.5	469.7	18.75	26.048		
5,500.0	5,477.3	5,479.2	5,479.1	12.9	9.5	179.71	2.7	11.9	497.5	478.4	19.10	26.047		
5,600.0	5,576.9	5,578.8	5,578.7	13.1	9.7	179.71	2.7	11.5	506.5	487.1	19.45	26.046		
5,700.0	5,676.4	5,678.3	5,678.3	13.3	9.9	179.71	2.8	11.1	515.6	495.8	19.80	26.044		
5,800.0	5,776.0	5,777.9	5,777.9	13.6	10.1	179.71	2.8	10.8	524.6	504.5	20.14	26.043		
5,900.0	5,875.6	5,877.5	5,877.5	13.8	10.2	179.72	2.8	10.4	533.7	513.2	20.49	26.042		
6,000.0	5,975.1	5,977.1	5,977.1	14.1	10.4	179.72	2.8	10.0	542.7	521.9	20.84	26.041		
6,100.0	6,074.7	6,076.7	6,076.7	14.3	10.6	179.72	2.9	9.7	551.7	530.5	21.19	26.039		
6,200.0	6,174.2	6,176.3	6,176.3	14.5	10.8	179.72	2.9	9.3	560.8	539.2	21.54	26.038		
6,300.0	6,273.8	6,275.9	6,275.8	14.8	10.9	179.72	2.9	9.0	569.8	547.9	21.88	26.037		
6,400.0	6,373.3	6,375.5	6,375.4	15.0	11.1	179.72	2.9	8.6	578.9	556.6	22.23	26.036		
6,500.0	6,472.9	6,475.1	6,475.0	15.3	11.3	179.72	3.0	8.2	587.9	565.3	22.58	26.035		
6,600.0	6,572.5	6,574.7	6,574.6	15.5	11.5	179.73	3.0	7.9	596.9	574.0	22.93	26.034		
6,700.0	6,672.0	6,674.2	6,674.2	15.7	11.6	179.73	3.0	7.5	606.0	582.7	23.28	26.033		
6,800.0	6,771.5	6,774.8	6,774.7	16.0	11.8	-144.44	0.8	7.1	615.0	591.4	23.63	26.030		
6,900.0	6,870.0	6,876.1	6,874.8	16.2	12.0	-114.42	-14.2	6.8	623.9	599.9	24.00	26.002		
7,000.0	6,965.7	6,977.3	6,971.6	16.5	12.2	-104.61	-43.1	6.4	632.6	608.2	24.43	25.894		
7,100.0	7,056.6	7,078.3	7,063.4	16.8	12.5	-99.77	-85.3	6.1	640.8	615.8	24.99	25.644		
7,200.0	7,140.9	7,179.2	7,148.1	17.1	12.8	-96.79	-139.9	5.8	648.5	622.7	25.74	25.194		
7,300.0	7,217.1	7,280.0	7,224.3	17.6	13.3	-94.73	-205.8	5.5	655.4	628.6	26.74	24.510		
7,400.0	7,283.7	7,380.7	7,290.4	18.1	13.9	-93.21	-281.6	5.3	661.4	633.4	28.03	23.596		
7,500.0	7,339.4	7,481.2	7,345.1	18.8	14.7	-92.06	-365.8	5.1	666.4	636.8	29.63	22.493		
7,600.0	7,383.0	7,581.5	7,387.5	19.6	15.7	-91.19	-456.7	4.9	670.4	638.9	31.52	21.267		
7,700.0	7,413.8	7,681.6	7,416.7	20.5	16.8	-90.57	-552.4	4.8	673.2	639.5	33.68	19.988		
7,800.0	7,431.1	7,781.6	7,432.3	21.5	18.0	-90.16	-651.0	4.8	674.8	638.7	36.05	18.719		
7,900.0	7,435.0	7,881.4	7,435.0	22.6	19.3	-90.00	-750.7	4.7	675.1	636.5	38.59	17.493		
8,000.0	7,435.0	7,981.4	7,435.0	23.8	20.7	-90.00	-850.7	4.7	675.1	633.8	41.36	16.325		
8,100.0	7,435.0	8,081.4	7,435.0	25.1	22.1	-90.00	-950.7	4.7	675.1	630.9	44.22	15.267		
8,200.0	7,435.0	8,181.4	7,435.0	26.4	23.6	-90.00	-1,050.7	4.7	675.1	627.9	47.17	14.312		
8,300.0	7,435.0	8,281.4	7,435.0	27.7	25.1	-90.00	-1,150.7	4.7	675.1	624.9	50.20	13.450		
8,400.0	7,435.0	8,381.4	7,435.0	29.1	26.6	-90.00	-1,250.7	4.8	675.1	621.8	53.28	12.671		
8,500.0	7,435.0	8,481.4	7,435.0	30.6	28.2	-90.00	-1,350.7	4.8	675.1	618.7	56.41	11.968		
8,600.0	7,435.0	8,581.4	7,435.0	32.0	29.8	-90.00	-1,450.7	4.8	675.1	615.5	59.59	11.330		
8,700.0	7,435.0	8,681.4	7,435.0	33.5	31.4	-90.00	-1,550.7	4.8	675.1	612.3	62.80	10.751		
8,800.0	7,435.0	8,781.4	7,435.0	35.1	33.0	-90.00	-1,650.7	4.8	675.1	609.1	66.04	10.223		
8,900.0	7,435.0	8,881.4	7,435.0	36.6	34.7	-90.00	-1,750.7	4.8	675.1	605.8	69.30	9.741		
9,000.0	7,435.0	8,981.4	7,435.0	38.2	36.3	-90.00	-1,850.7	4.8	675.1	602.5	72.59	9.300		
9,100.0	7,435.0	9,081.4	7,435.0	39.7	38.0	-90.00	-1,950.7	4.8	675.1	599.2	75.90	8.895		
9,200.0	7,435.0	9,181.4	7,435.0	41.3	39.6	-90.00	-2,050.7	4.8	675.1	595.9	79.23	8.521		
9,300.0	7,435.0	9,281.4	7,435.0	42.9	41.3	-90.00	-2,150.7	4.8	675.1	592.5	82.57	8.176		
9,400.0	7,435.0	9,381.4	7,435.0	44.5	43.0	-90.00	-2,250.7	4.8	675.1	589.2	85.92	7.857		
9,500.0	7,435.0	9,481.4	7,435.0	46.2	44.7	-90.00	-2,350.7	4.8	675.1	585.8	89.29	7.561		
9,600.0	7,435.0	9,581.4	7,435.0	47.8	46.3	-90.00	-2,450.7	4.8	675.1	582.5	92.67	7.285		
9,700.0	7,435.0	9,681.4	7,435.0	49.4	48.0	-90.00	-2,550.7	4.8	675.1	579.1	96.05	7.029		
9,800.0	7,435.0	9,781.4	7,435.0	51.1	49.7	-90.00	-2,650.7	4.8	675.1	575.7	99.45	6.789		
9,900.0	7,435.0	9,881.4	7,435.0	52.8	51.4	-90.00	-2,750.7	4.8	675.1	572.3	102.85	6.564		
10,000.0	7,435.0	9,981.4	7,435.0	54.4	53.1	-90.00	-2,850.7	4.8	675.1	568.9	106.26	6.354		
10,100.0	7,435.0	10,081.4	7,435.0	56.1	54.8	-90.00	-2,950.7	4.8	675.1	565.4	109.67	6.156		
10,200.0	7,435.0	10,181.4	7,435.0	57.8	56.6	-90.00	-3,050.7	4.8	675.1	562.0	113.09	5.970		
10,300.0	7,435.0	10,281.4	7,435.0	59.4	58.3	-90.00	-3,150.7	4.8	675.1	558.6	116.52	5.794		

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 1A-19H-B268
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 1A-19H-B268	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 1D-19H-B2688 - Hz - Plan #2										Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
10,400.0	7,435.0	10,381.4	7,435.0	61.1	60.0	-90.00	-3,250.7	4.8	675.1	555.2	119.95	5.628	
10,500.0	7,435.0	10,481.4	7,435.0	62.8	61.7	-90.00	-3,350.7	4.8	675.1	551.7	123.39	5.472	
10,600.0	7,435.0	10,581.4	7,435.0	64.5	63.4	-90.00	-3,450.7	4.8	675.1	548.3	126.83	5.323	
10,700.0	7,435.0	10,681.4	7,435.0	66.2	65.1	-90.00	-3,550.7	4.8	675.1	544.9	130.27	5.183	
10,800.0	7,435.0	10,781.4	7,435.0	67.9	66.9	-90.00	-3,650.7	4.8	675.1	541.4	133.72	5.049	
10,900.0	7,435.0	10,881.4	7,435.0	69.6	68.6	-90.00	-3,750.7	4.8	675.1	538.0	137.16	4.922	
11,000.0	7,435.0	10,981.4	7,435.0	71.3	70.3	-90.00	-3,850.7	4.8	675.1	534.5	140.62	4.801	
11,100.0	7,435.0	11,081.4	7,435.0	73.0	72.0	-90.00	-3,950.7	4.8	675.1	531.0	144.07	4.686	
11,200.0	7,435.0	11,181.4	7,435.0	74.7	73.8	-90.00	-4,050.7	4.8	675.1	527.6	147.53	4.576	
11,300.0	7,435.0	11,281.4	7,435.0	76.4	75.5	-90.00	-4,150.7	4.8	675.1	524.1	150.99	4.471	
11,400.0	7,435.0	11,381.4	7,435.0	78.1	77.2	-90.00	-4,250.7	4.8	675.1	520.7	154.45	4.371	
11,500.0	7,435.0	11,481.4	7,435.0	79.8	79.0	-90.00	-4,350.7	4.8	675.1	517.2	157.92	4.275	
11,600.0	7,435.0	11,581.4	7,435.0	81.5	80.7	-90.00	-4,450.7	4.8	675.1	513.7	161.38	4.183	
11,700.0	7,435.0	11,681.4	7,435.0	83.3	82.4	-90.00	-4,550.7	4.8	675.1	510.3	164.85	4.095	
11,800.0	7,435.0	11,781.4	7,435.0	85.0	84.2	-90.00	-4,650.7	4.8	675.1	506.8	168.32	4.011	
11,900.0	7,435.0	11,881.4	7,435.0	86.7	85.9	-90.00	-4,750.7	4.8	675.1	503.3	171.79	3.930	
11,926.2	7,435.0	11,907.6	7,435.0	87.1	86.4	-90.00	-4,777.0	4.8	675.1	502.4	172.70	3.909	
11,955.2	7,435.0	11,924.8	7,435.0	87.6	86.7	-90.00	-4,794.1	4.8	675.2	501.7	173.50	3.892 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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			
0.0	0.0	0.0	0.0	0.0	0.0	87.39	1.8	40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.39	1.8	40.0	40.0	39.7	0.30	131.801		
200.0	200.0	200.0	200.0	0.3	0.3	87.39	1.8	40.0	40.0	39.4	0.65	61.319 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.38	1.8	40.0	41.8	40.8	1.00	41.711		
400.0	399.8	399.8	399.8	0.7	0.7	178.56	1.8	40.0	47.0	45.7	1.35	34.846		
500.0	499.5	499.5	499.5	0.9	0.8	178.78	1.8	40.0	55.6	53.9	1.70	32.767		
600.0	599.0	599.0	599.0	1.1	1.0	178.96	1.8	40.0	65.0	62.9	2.04	31.785		
700.0	698.6	698.6	698.6	1.4	1.2	179.09	1.8	40.0	74.4	72.0	2.39	31.089		
800.0	798.1	798.1	798.1	1.6	1.4	179.19	1.8	40.0	83.8	81.0	2.74	30.570		
900.0	897.7	897.7	897.7	1.8	1.5	179.27	1.8	40.0	93.2	90.1	3.09	30.169		
1,000.0	997.3	997.3	997.3	2.1	1.7	179.34	1.8	40.0	102.6	99.1	3.44	29.849		
1,100.0	1,096.8	1,096.8	1,096.8	2.3	1.9	179.40	1.8	40.0	112.0	108.2	3.78	29.588		
1,200.0	1,196.4	1,196.4	1,196.4	2.6	2.1	179.44	1.8	40.0	121.4	117.2	4.13	29.371		
1,300.0	1,295.9	1,295.9	1,295.9	2.8	2.2	179.48	1.8	40.0	130.8	126.3	4.48	29.188		
1,400.0	1,395.5	1,395.5	1,395.5	3.0	2.4	179.52	1.8	40.0	140.2	135.3	4.83	29.032		
1,500.0	1,495.0	1,495.0	1,495.0	3.3	2.6	179.55	1.8	40.0	149.6	144.4	5.18	28.896		
1,600.0	1,594.6	1,594.6	1,594.6	3.5	2.8	179.57	1.8	40.0	159.0	153.4	5.52	28.777		
1,700.0	1,694.2	1,694.2	1,694.2	3.8	2.9	179.60	1.8	40.0	168.4	162.5	5.87	28.673		
1,800.0	1,793.7	1,793.7	1,793.7	4.0	3.1	179.62	1.8	40.0	177.8	171.5	6.22	28.580		
1,900.0	1,893.3	1,893.3	1,893.3	4.2	3.3	179.64	1.8	40.0	187.2	180.6	6.57	28.497		
2,000.0	1,992.8	1,992.8	1,992.8	4.5	3.5	179.66	1.8	40.0	196.6	189.6	6.92	28.423		
2,100.0	2,092.4	2,092.4	2,092.4	4.7	3.6	179.67	1.8	40.0	206.0	198.7	7.26	28.355		
2,200.0	2,191.9	2,191.9	2,191.9	4.9	3.8	179.69	1.8	40.0	215.4	207.8	7.61	28.294		
2,300.0	2,291.5	2,291.5	2,291.5	5.2	4.0	179.70	1.8	40.0	224.8	216.8	7.96	28.238		
2,400.0	2,391.1	2,391.1	2,391.1	5.4	4.2	179.71	1.8	40.0	234.2	225.9	8.31	28.187		
2,500.0	2,490.6	2,490.6	2,490.6	5.7	4.3	179.72	1.8	40.0	243.6	234.9	8.66	28.140		
2,600.0	2,590.2	2,590.2	2,590.2	5.9	4.5	179.73	1.8	40.0	253.0	244.0	9.00	28.097		
2,700.0	2,689.7	2,689.7	2,689.7	6.1	4.7	179.74	1.8	40.0	262.4	253.0	9.35	28.056		
2,800.0	2,789.3	2,789.3	2,789.3	6.4	4.8	179.75	1.8	40.0	271.8	262.1	9.70	28.019		
2,900.0	2,888.8	2,888.8	2,888.8	6.6	5.0	179.76	1.8	40.0	281.2	271.1	10.05	27.984		
3,000.0	2,988.4	2,988.4	2,988.4	6.9	5.2	179.77	1.8	40.0	290.6	280.2	10.40	27.952		
3,100.0	3,088.0	3,088.0	3,088.0	7.1	5.4	179.77	1.8	40.0	300.0	289.2	10.74	27.922		
3,200.0	3,187.5	3,187.5	3,187.5	7.3	5.5	179.78	1.8	40.0	309.4	298.3	11.09	27.893		
3,300.0	3,287.1	3,287.1	3,287.1	7.6	5.7	179.79	1.8	40.0	318.8	307.3	11.44	27.867		
3,400.0	3,386.6	3,386.6	3,386.6	7.8	5.9	179.79	1.8	40.0	328.2	316.4	11.79	27.842		
3,500.0	3,486.2	3,486.2	3,486.2	8.1	6.1	179.80	1.8	40.0	337.6	325.4	12.14	27.818		
3,600.0	3,585.7	3,585.7	3,585.7	8.3	6.2	179.80	1.8	40.0	347.0	334.5	12.48	27.796		
3,700.0	3,685.3	3,685.3	3,685.3	8.5	6.4	179.81	1.8	40.0	356.4	343.6	12.83	27.774		
3,800.0	3,784.9	3,784.9	3,784.9	8.8	6.6	179.81	1.8	40.0	365.8	352.6	13.18	27.754		
3,900.0	3,884.4	3,884.4	3,884.4	9.0	6.8	179.82	1.8	40.0	375.2	361.7	13.53	27.735		
4,000.0	3,984.0	3,984.0	3,984.0	9.3	6.9	179.82	1.8	40.0	384.6	370.7	13.88	27.717		
4,100.0	4,083.5	4,073.4	4,073.4	9.5	7.1	179.83	1.9	40.9	395.1	380.9	14.21	27.810		
4,200.0	4,183.1	4,161.0	4,160.9	9.7	7.2	179.82	2.0	44.5	408.5	394.0	14.53	28.110		
4,300.0	4,282.6	4,259.9	4,259.7	10.0	7.4	179.81	2.2	49.9	423.3	408.4	14.88	28.450		
4,400.0	4,382.2	4,358.8	4,358.4	10.2	7.6	179.81	2.3	55.2	438.1	422.9	15.22	28.775		
4,500.0	4,481.8	4,457.7	4,457.2	10.5	7.8	179.80	2.5	60.6	452.9	437.3	15.57	29.085		
4,600.0	4,581.3	4,556.6	4,555.9	10.7	7.9	179.80	2.7	66.0	467.7	451.8	15.92	29.382		
4,700.0	4,680.9	4,655.5	4,654.7	10.9	8.1	179.79	2.9	71.3	482.5	466.2	16.26	29.666		
4,800.0	4,780.4	4,754.4	4,753.4	11.2	8.3	179.78	3.1	76.7	497.3	480.7	16.61	29.939		
4,900.0	4,880.0	4,853.3	4,852.2	11.4	8.5	179.78	3.3	82.1	512.1	495.1	16.96	30.200		
5,000.0	4,979.5	4,952.2	4,950.9	11.7	8.7	179.77	3.5	87.4	526.9	509.6	17.30	30.450		
5,100.0	5,079.1	5,051.1	5,049.7	11.9	8.8	179.77	3.6	92.8	541.7	524.0	17.65	30.691		

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 1A-19H-B268
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 1A-19H-B268	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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,178.7	5,150.0	5,148.4	12.1	9.0	179.77	3.8	98.2	556.4	538.5	17.99	30.923		
5,300.0	5,278.2	5,248.9	5,247.2	12.4	9.2	179.76	4.0	103.5	571.2	552.9	18.34	31.146		
5,400.0	5,377.8	5,347.8	5,345.9	12.6	9.4	179.76	4.2	108.9	586.0	567.3	18.69	31.361		
5,500.0	5,477.3	5,446.7	5,444.7	12.9	9.6	179.75	4.4	114.3	600.8	581.8	19.03	31.567		
5,600.0	5,576.9	5,545.6	5,543.4	13.1	9.8	179.75	4.6	119.7	615.6	596.2	19.38	31.767		
5,700.0	5,676.4	5,644.5	5,642.2	13.3	9.9	179.75	4.8	125.0	630.4	610.7	19.73	31.959		
5,800.0	5,776.0	5,743.4	5,741.0	13.6	10.1	179.75	4.9	130.4	645.2	625.1	20.07	32.145		
5,900.0	5,875.6	5,842.3	5,839.7	13.8	10.3	179.74	5.1	135.8	660.0	639.6	20.42	32.325		
6,000.0	5,975.1	5,941.2	5,938.5	14.1	10.5	179.74	5.3	141.1	674.8	654.0	20.76	32.498		
6,100.0	6,074.7	6,040.1	6,037.2	14.3	10.7	179.74	5.5	146.5	689.6	668.5	21.11	32.666		
6,200.0	6,174.2	6,139.0	6,136.0	14.5	10.9	179.73	5.7	151.9	704.4	682.9	21.46	32.828		
6,300.0	6,273.8	6,237.9	6,234.7	14.8	11.1	179.73	5.9	157.2	719.2	697.4	21.80	32.986		
6,400.0	6,373.3	6,336.8	6,333.5	15.0	11.3	179.73	6.1	162.6	734.0	711.8	22.15	33.138		
6,500.0	6,472.9	6,435.7	6,432.2	15.3	11.4	179.73	6.2	168.0	748.8	726.3	22.49	33.286		
6,600.0	6,572.5	6,534.6	6,531.0	15.5	11.6	179.72	6.4	173.3	763.6	740.7	22.84	33.429		
6,700.0	6,672.0	6,633.5	6,629.7	15.7	11.8	179.72	6.6	178.7	778.4	755.2	23.19	33.568		
6,800.0	6,771.5	6,732.3	6,728.4	16.0	12.0	-144.38	6.8	184.1	793.2	769.6	23.53	33.705		
6,900.0	6,870.0	6,830.2	6,826.1	16.2	12.2	-114.94	7.0	189.4	808.2	784.4	23.88	33.840		
7,000.0	6,965.7	6,931.3	6,927.0	16.5	12.4	-106.35	2.9	194.9	823.7	799.5	24.26	33.959		
7,100.0	7,056.6	7,037.6	7,031.3	16.8	12.6	-102.73	-16.2	200.5	839.1	814.4	24.69	33.990		
7,200.0	7,140.9	7,148.4	7,135.7	17.1	12.8	-100.91	-52.3	206.2	854.0	828.8	25.24	33.838		
7,300.0	7,217.1	7,263.7	7,237.2	17.6	13.2	-99.91	-106.5	211.7	868.0	842.0	26.00	33.384		
7,400.0	7,283.7	7,383.8	7,332.3	18.1	13.7	-99.34	-179.5	216.9	880.6	853.6	27.07	32.532		
7,500.0	7,339.4	7,508.4	7,416.5	18.8	14.4	-99.00	-271.0	221.5	891.4	862.9	28.54	31.237		
7,600.0	7,383.0	7,637.0	7,485.6	19.6	15.4	-98.78	-379.2	225.2	900.0	869.5	30.47	29.538		
7,700.0	7,413.8	7,768.5	7,535.1	20.5	16.7	-98.59	-500.9	227.9	905.9	873.1	32.86	27.569		
7,800.0	7,431.1	7,901.8	7,561.8	21.5	18.2	-98.41	-631.2	229.4	909.0	873.4	35.65	25.502		
7,900.0	7,435.0	8,021.5	7,566.0	22.6	19.8	-98.28	-750.7	229.6	909.5	870.9	38.52	23.612		
8,000.0	7,435.0	8,121.5	7,566.0	23.8	21.1	-98.28	-850.7	229.6	909.5	868.2	41.23	22.056		
8,100.0	7,435.0	8,221.5	7,566.0	25.1	22.5	-98.28	-950.7	229.6	909.5	865.4	44.06	20.643		
8,200.0	7,435.0	8,321.5	7,566.0	26.4	24.0	-98.28	-1,050.7	229.6	909.5	862.5	46.97	19.364		
8,300.0	7,435.0	8,421.5	7,566.0	27.7	25.5	-98.28	-1,150.7	229.6	909.5	859.5	49.95	18.208		
8,400.0	7,435.0	8,521.5	7,566.0	29.1	27.0	-98.28	-1,250.7	229.6	909.5	856.5	52.99	17.163		
8,500.0	7,435.0	8,621.5	7,566.0	30.6	28.5	-98.28	-1,350.7	229.6	909.5	853.4	56.08	16.217		
8,600.0	7,435.0	8,721.5	7,566.0	32.0	30.1	-98.28	-1,450.7	229.6	909.5	850.2	59.22	15.358		
8,700.0	7,435.0	8,821.5	7,566.0	33.5	31.7	-98.28	-1,550.7	229.6	909.5	847.1	62.39	14.578		
8,800.0	7,435.0	8,921.5	7,566.0	35.1	33.3	-98.28	-1,650.7	229.6	909.5	843.9	65.59	13.867		
8,900.0	7,435.0	9,021.5	7,566.0	36.6	34.9	-98.28	-1,750.7	229.6	909.5	840.6	68.81	13.216		
9,000.0	7,435.0	9,121.5	7,566.0	38.2	36.6	-98.28	-1,850.7	229.6	909.5	837.4	72.06	12.620		
9,100.0	7,435.0	9,221.5	7,566.0	39.7	38.2	-98.28	-1,950.7	229.6	909.5	834.1	75.33	12.073		
9,200.0	7,435.0	9,321.5	7,566.0	41.3	39.9	-98.28	-2,050.7	229.6	909.5	830.8	78.62	11.568		
9,300.0	7,435.0	9,421.5	7,566.0	42.9	41.5	-98.28	-2,150.7	229.6	909.5	827.5	81.92	11.102		
9,400.0	7,435.0	9,521.5	7,566.0	44.5	43.2	-98.28	-2,250.7	229.6	909.5	824.2	85.24	10.670		
9,500.0	7,435.0	9,621.5	7,566.0	46.2	44.9	-98.28	-2,350.7	229.6	909.5	820.9	88.56	10.269		
9,600.0	7,435.0	9,721.5	7,566.0	47.8	46.6	-98.28	-2,450.7	229.6	909.5	817.6	91.90	9.896		
9,700.0	7,435.0	9,821.5	7,566.0	49.4	48.2	-98.28	-2,550.7	229.6	909.5	814.2	95.25	9.548		
9,800.0	7,435.0	9,921.5	7,566.0	51.1	49.9	-98.28	-2,650.7	229.6	909.5	810.9	98.61	9.223		
9,900.0	7,435.0	10,021.5	7,566.0	52.8	51.6	-98.28	-2,750.7	229.6	909.5	807.5	101.97	8.919		
10,000.0	7,435.0	10,121.5	7,566.0	54.4	53.3	-98.28	-2,850.7	229.6	909.5	804.1	105.34	8.633		
10,100.0	7,435.0	10,221.5	7,566.0	56.1	55.0	-98.28	-2,950.7	229.6	909.5	800.7	108.72	8.365		
10,200.0	7,435.0	10,321.5	7,566.0	57.8	56.7	-98.28	-3,050.7	229.6	909.5	797.4	112.10	8.113		
10,300.0	7,435.0	10,421.5	7,566.0	59.4	58.4	-98.28	-3,150.7	229.6	909.5	794.0	115.49	7.875		

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 1A-19H-B268
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 1A-19H-B268	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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,435.0	10,521.5	7,566.0	61.1	60.2	-98.28	-3,250.7	229.6	909.5	790.6	118.88	7.650		
10,500.0	7,435.0	10,621.5	7,566.0	62.8	61.9	-98.28	-3,350.7	229.6	909.5	787.2	122.28	7.437		
10,600.0	7,435.0	10,721.5	7,566.0	64.5	63.6	-98.28	-3,450.7	229.6	909.5	783.8	125.68	7.236		
10,700.0	7,435.0	10,821.5	7,566.0	66.2	65.3	-98.28	-3,550.7	229.6	909.5	780.4	129.09	7.045		
10,800.0	7,435.0	10,921.5	7,566.0	67.9	67.0	-98.28	-3,650.7	229.6	909.5	777.0	132.50	6.864		
10,900.0	7,435.0	11,021.5	7,566.0	69.6	68.7	-98.28	-3,750.7	229.6	909.5	773.5	135.91	6.692		
11,000.0	7,435.0	11,121.5	7,566.0	71.3	70.5	-98.28	-3,850.7	229.6	909.5	770.1	139.32	6.528		
11,100.0	7,435.0	11,221.5	7,566.0	73.0	72.2	-98.28	-3,950.7	229.6	909.5	766.7	142.74	6.371		
11,200.0	7,435.0	11,321.5	7,566.0	74.7	73.9	-98.28	-4,050.7	229.6	909.5	763.3	146.16	6.222		
11,300.0	7,435.0	11,421.5	7,566.0	76.4	75.6	-98.28	-4,150.7	229.6	909.5	759.9	149.59	6.080		
11,400.0	7,435.0	11,521.5	7,566.0	78.1	77.4	-98.28	-4,250.7	229.6	909.5	756.4	153.01	5.944		
11,500.0	7,435.0	11,621.5	7,566.0	79.8	79.1	-98.28	-4,350.7	229.6	909.5	753.0	156.44	5.814		
11,600.0	7,435.0	11,721.5	7,566.0	81.5	80.8	-98.28	-4,450.7	229.6	909.5	749.6	159.87	5.689		
11,700.0	7,435.0	11,821.5	7,566.0	83.3	82.6	-98.28	-4,550.7	229.6	909.5	746.2	163.30	5.569		
11,800.0	7,435.0	11,921.5	7,566.0	85.0	84.3	-98.28	-4,650.7	229.6	909.5	742.7	166.73	5.455		
11,900.0	7,435.0	12,021.5	7,566.0	86.7	86.0	-98.28	-4,750.7	229.6	909.5	739.3	170.16	5.345		
11,923.2	7,435.0	12,044.7	7,566.0	87.1	86.4	-98.28	-4,774.0	229.6	909.5	738.5	170.96	5.320		
11,955.2	7,435.0	12,059.9	7,566.0	87.6	86.7	-98.28	-4,789.2	229.6	909.6	737.8	171.77	5.295 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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: 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	87.50	2.2	50.1	50.1						
100.0	100.0	100.0	100.0	0.2	0.2	87.50	2.2	50.1	50.1	49.8	0.30	164.968			
200.0	200.0	200.0	200.0	0.3	0.3	87.50	2.2	50.1	50.1	49.4	0.65	76.750 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	178.48	2.2	50.1	51.8	50.8	1.00	51.769			
400.0	399.8	399.8	399.8	0.7	0.7	178.62	2.2	50.1	57.1	55.7	1.35	42.313			
500.0	499.5	499.5	499.5	0.9	0.8	178.79	2.2	50.1	65.6	63.9	1.70	38.708			
600.0	599.0	599.0	599.0	1.1	1.0	178.95	2.2	50.1	75.0	73.0	2.04	36.714			
700.0	698.6	698.6	698.6	1.4	1.2	179.06	2.2	50.1	84.4	82.0	2.39	35.300			
800.0	798.1	798.1	798.1	1.6	1.4	179.16	2.2	50.1	93.8	91.1	2.74	34.247			
900.0	897.7	897.7	897.7	1.8	1.5	179.23	2.2	50.1	103.2	100.1	3.09	33.431			
1,000.0	997.3	993.5	993.5	2.1	1.7	179.27	2.3	51.6	114.2	110.8	3.43	33.306 SF			
1,100.0	1,096.8	1,088.8	1,088.8	2.3	1.9	179.25	2.6	56.2	128.5	124.7	3.77	34.090			
1,200.0	1,196.4	1,187.5	1,187.2	2.6	2.1	179.22	2.9	62.5	144.2	140.1	4.12	35.045			
1,300.0	1,295.9	1,286.3	1,285.7	2.8	2.3	179.20	3.3	68.8	159.9	155.5	4.46	35.852			
1,400.0	1,395.5	1,385.0	1,384.3	3.0	2.4	179.18	3.7	75.1	175.7	170.9	4.81	36.543			
1,500.0	1,495.0	1,483.8	1,482.8	3.3	2.6	179.16	4.1	81.4	191.4	186.2	5.15	37.142			
1,600.0	1,594.6	1,582.5	1,581.4	3.5	2.8	179.14	4.5	87.7	207.1	201.6	5.50	37.665			
1,700.0	1,694.2	1,681.3	1,680.0	3.8	3.0	179.13	4.9	93.9	222.8	217.0	5.84	38.126			
1,800.0	1,793.7	1,780.1	1,778.5	4.0	3.2	179.12	5.2	100.2	238.6	232.4	6.19	38.536			
1,900.0	1,893.3	1,878.8	1,877.1	4.2	3.4	179.11	5.6	106.5	254.3	247.7	6.54	38.903			
2,000.0	1,992.8	1,977.6	1,975.6	4.5	3.6	179.10	6.0	112.8	270.0	263.1	6.88	39.232			
2,100.0	2,092.4	2,076.3	2,074.2	4.7	3.8	179.09	6.4	119.1	285.7	278.5	7.23	39.531			
2,200.0	2,191.9	2,175.1	2,172.7	4.9	4.0	179.09	6.8	125.4	301.5	293.9	7.57	39.802			
2,300.0	2,291.5	2,273.8	2,271.3	5.2	4.2	179.08	7.1	131.6	317.2	309.3	7.92	40.049			
2,400.0	2,391.1	2,372.6	2,369.8	5.4	4.4	179.08	7.5	137.9	332.9	324.6	8.27	40.276			
2,500.0	2,490.6	2,471.3	2,468.4	5.7	4.6	179.07	7.9	144.2	348.6	340.0	8.61	40.484			
2,600.0	2,590.2	2,570.1	2,567.0	5.9	4.8	179.07	8.3	150.5	364.3	355.4	8.96	40.676			
2,700.0	2,689.7	2,668.9	2,665.5	6.1	5.0	179.06	8.7	156.8	380.1	370.8	9.30	40.854			
2,800.0	2,789.3	2,767.6	2,764.1	6.4	5.2	179.06	9.1	163.0	395.8	386.1	9.65	41.020			
2,900.0	2,888.8	2,866.4	2,862.6	6.6	5.4	179.05	9.4	169.3	411.5	401.5	9.99	41.174			
3,000.0	2,988.4	2,965.1	2,961.2	6.9	5.6	179.05	9.8	175.6	427.2	416.9	10.34	41.317			
3,100.0	3,088.0	3,063.9	3,059.7	7.1	5.8	179.05	10.2	181.9	443.0	432.3	10.69	41.452			
3,200.0	3,187.5	3,162.6	3,158.3	7.3	6.0	179.04	10.6	188.2	458.7	447.7	11.03	41.577			
3,300.0	3,287.1	3,261.4	3,256.8	7.6	6.2	179.04	11.0	194.5	474.4	463.0	11.38	41.696			
3,400.0	3,386.6	3,360.2	3,355.4	7.8	6.4	179.04	11.4	200.7	490.1	478.4	11.72	41.807			
3,500.0	3,486.2	3,458.9	3,454.0	8.1	6.6	179.04	11.7	207.0	505.9	493.8	12.07	41.912			
3,600.0	3,585.7	3,557.7	3,552.5	8.3	6.8	179.03	12.1	213.3	521.6	509.2	12.42	42.011			
3,700.0	3,685.3	3,656.4	3,651.1	8.5	7.0	179.03	12.5	219.6	537.3	524.5	12.76	42.105			
3,800.0	3,784.9	3,755.2	3,749.6	8.8	7.2	179.03	12.9	225.9	553.0	539.9	13.11	42.193			
3,900.0	3,884.4	3,853.9	3,848.2	9.0	7.4	179.03	13.3	232.2	568.7	555.3	13.45	42.278			
4,000.0	3,984.0	3,952.7	3,946.7	9.3	7.6	179.03	13.6	238.4	584.5	570.7	13.80	42.358			
4,100.0	4,083.5	4,051.4	4,045.3	9.5	7.9	179.03	14.0	244.7	600.2	586.0	14.14	42.434			
4,200.0	4,183.1	4,150.2	4,143.8	9.7	8.1	179.02	14.4	251.0	615.9	601.4	14.49	42.506			
4,300.0	4,282.6	4,249.0	4,242.4	10.0	8.3	179.02	14.8	257.3	631.6	616.8	14.84	42.575			
4,400.0	4,382.2	4,347.7	4,341.0	10.2	8.5	179.02	15.2	263.6	647.4	632.2	15.18	42.641			
4,500.0	4,481.8	4,446.5	4,439.5	10.5	8.7	179.02	15.6	269.8	663.1	647.6	15.53	42.704			
4,600.0	4,581.3	4,545.2	4,538.1	10.7	8.9	179.02	15.9	276.1	678.8	662.9	15.87	42.764			
4,700.0	4,680.9	4,644.0	4,636.6	10.9	9.1	179.02	16.3	282.4	694.5	678.3	16.22	42.822			
4,800.0	4,780.4	4,742.7	4,735.2	11.2	9.3	179.02	16.7	288.7	710.3	693.7	16.56	42.877			
4,900.0	4,880.0	4,841.5	4,833.7	11.4	9.5	179.01	17.1	295.0	726.0	709.1	16.91	42.930			
5,000.0	4,979.5	4,940.3	4,932.3	11.7	9.7	179.01	17.5	301.3	741.7	724.4	17.26	42.981			
5,100.0	5,079.1	5,039.0	5,030.8	11.9	9.9	179.01	17.9	307.5	757.4	739.8	17.60	43.030			

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 1A-19H-B268
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 1A-19H-B268	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 Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
5,200.0	5,178.7	5,137.8	5,129.4	12.1	10.1	179.01	18.2	313.8	773.1	755.2	17.95	43.077		
5,300.0	5,278.2	5,236.5	5,228.0	12.4	10.3	179.01	18.6	320.1	788.9	770.6	18.29	43.122		
5,400.0	5,377.8	5,335.3	5,326.5	12.6	10.5	179.01	19.0	326.4	804.6	786.0	18.64	43.166		
5,500.0	5,477.3	5,434.0	5,425.1	12.9	10.7	179.01	19.4	332.7	820.3	801.3	18.99	43.208		
5,600.0	5,576.9	5,532.8	5,523.6	13.1	10.9	179.01	19.8	339.0	836.0	816.7	19.33	43.248		
5,700.0	5,676.4	5,631.5	5,622.2	13.3	11.1	179.01	20.1	345.2	851.8	832.1	19.68	43.287		
5,800.0	5,776.0	5,730.3	5,720.7	13.6	11.3	179.01	20.5	351.5	867.5	847.5	20.02	43.325		
5,900.0	5,875.6	5,829.1	5,819.3	13.8	11.5	179.01	20.9	357.8	883.2	862.8	20.37	43.361		
6,000.0	5,975.1	5,927.8	5,917.8	14.1	11.7	179.00	21.3	364.1	898.9	878.2	20.71	43.397		
6,100.0	6,074.7	6,026.6	6,016.4	14.3	11.9	179.00	21.7	370.4	914.7	893.6	21.06	43.431		
6,200.0	6,174.2	6,125.3	6,115.0	14.5	12.1	179.00	22.1	376.6	930.4	909.0	21.41	43.464		
6,300.0	6,273.8	6,224.1	6,213.5	14.8	12.3	179.00	22.4	382.9	946.1	924.3	21.75	43.496		
6,400.0	6,373.3	6,322.8	6,312.1	15.0	12.5	179.00	22.8	389.2	961.8	939.7	22.10	43.526		
6,500.0	6,472.9	6,421.6	6,410.6	15.3	12.7	179.00	23.2	395.5	977.5	955.1	22.44	43.556		
6,600.0	6,572.5	6,520.4	6,509.2	15.5	12.9	179.00	23.6	401.8	993.3	970.5	22.79	43.585		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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	87.56	2.6	59.8	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.56	2.6	59.8	59.9	59.6	0.30	197.216	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	87.56	2.6	59.8	59.9	59.2	0.65	91.753		
300.0	300.0	300.0	300.0	0.5	0.5	178.53	2.6	59.8	61.6	60.6	1.00	61.549		
400.0	399.8	399.8	399.8	0.7	0.7	178.64	2.6	59.8	66.9	65.5	1.35	49.573		
500.0	499.5	499.5	499.5	0.9	0.8	178.79	2.6	59.8	75.4	73.7	1.70	44.485		
600.0	599.0	599.0	599.0	1.1	1.0	178.92	2.6	59.8	84.8	82.8	2.04	41.506	SF	
700.0	698.6	698.6	698.6	1.4	1.2	179.03	2.6	59.8	94.2	91.8	2.39	39.395		
800.0	798.1	794.7	794.7	1.6	1.4	179.11	2.6	61.4	105.2	102.5	2.73	38.499		
900.0	897.7	889.9	889.8	1.8	1.5	179.15	2.8	66.1	119.6	116.5	3.07	38.902		
1,000.0	997.3	987.1	986.7	2.1	1.7	179.17	3.1	73.5	136.5	133.1	3.42	39.943		
1,100.0	1,096.8	1,085.6	1,084.9	2.3	1.9	179.19	3.5	81.1	153.6	149.8	3.76	40.821		
1,200.0	1,196.4	1,184.1	1,183.1	2.6	2.1	179.20	3.8	88.7	170.7	166.6	4.11	41.552		
1,300.0	1,295.9	1,282.7	1,281.4	2.8	2.3	179.21	4.1	96.4	187.8	183.3	4.45	42.169		
1,400.0	1,395.5	1,381.2	1,379.6	3.0	2.5	179.22	4.4	104.0	204.9	200.1	4.80	42.698		
1,500.0	1,495.0	1,479.7	1,477.8	3.3	2.7	179.23	4.7	111.7	222.0	216.8	5.14	43.156		
1,600.0	1,594.6	1,578.2	1,576.0	3.5	2.9	179.23	5.1	119.3	239.1	233.6	5.49	43.556		
1,700.0	1,694.2	1,676.8	1,674.3	3.8	3.2	179.24	5.4	126.9	256.2	250.3	5.83	43.910		
1,800.0	1,793.7	1,775.3	1,772.5	4.0	3.4	179.24	5.7	134.6	273.3	267.1	6.18	44.223		
1,900.0	1,893.3	1,873.8	1,870.7	4.2	3.6	179.25	6.0	142.2	290.3	283.8	6.52	44.504		
2,000.0	1,992.8	1,972.4	1,969.0	4.5	3.8	179.25	6.4	149.9	307.4	300.6	6.87	44.756		
2,100.0	2,092.4	2,070.9	2,067.2	4.7	4.0	179.26	6.7	157.5	324.5	317.3	7.21	44.985		
2,200.0	2,191.9	2,169.4	2,165.4	4.9	4.2	179.26	7.0	165.1	341.6	334.1	7.56	45.192		
2,300.0	2,291.5	2,267.9	2,263.7	5.2	4.4	179.26	7.3	172.8	358.7	350.8	7.90	45.381		
2,400.0	2,391.1	2,366.5	2,361.9	5.4	4.6	179.26	7.7	180.4	375.8	367.6	8.25	45.555		
2,500.0	2,490.6	2,465.0	2,460.1	5.7	4.9	179.27	8.0	188.0	392.9	384.3	8.60	45.715		
2,600.0	2,590.2	2,563.5	2,558.4	5.9	5.1	179.27	8.3	195.7	410.0	401.1	8.94	45.862		
2,700.0	2,689.7	2,662.1	2,656.6	6.1	5.3	179.27	8.6	203.3	427.1	417.8	9.29	45.998		
2,800.0	2,789.3	2,760.6	2,754.8	6.4	5.5	179.27	9.0	211.0	444.2	434.6	9.63	46.125		
2,900.0	2,888.8	2,859.1	2,853.0	6.6	5.7	179.27	9.3	218.6	461.3	451.3	9.98	46.243		
3,000.0	2,988.4	2,957.6	2,951.3	6.9	5.9	179.28	9.6	226.2	478.4	468.1	10.32	46.353		
3,100.0	3,088.0	3,056.2	3,049.5	7.1	6.2	179.28	9.9	233.9	495.5	484.8	10.67	46.456		
3,200.0	3,187.5	3,154.7	3,147.7	7.3	6.4	179.28	10.3	241.5	512.6	501.6	11.01	46.552		
3,300.0	3,287.1	3,253.2	3,246.0	7.6	6.6	179.28	10.6	249.2	529.7	518.3	11.36	46.642		
3,400.0	3,386.6	3,351.7	3,344.2	7.8	6.8	179.28	10.9	256.8	546.8	535.1	11.70	46.728		
3,500.0	3,486.2	3,450.3	3,442.4	8.1	7.0	179.28	11.2	264.4	563.9	551.8	12.05	46.808		
3,600.0	3,585.7	3,548.8	3,540.7	8.3	7.2	179.28	11.5	272.1	581.0	568.6	12.39	46.884		
3,700.0	3,685.3	3,647.3	3,638.9	8.5	7.5	179.28	11.9	279.7	598.1	585.3	12.74	46.956		
3,800.0	3,784.9	3,745.9	3,737.1	8.8	7.7	179.28	12.2	287.3	615.2	602.1	13.08	47.024		
3,900.0	3,884.4	3,844.4	3,835.4	9.0	7.9	179.29	12.5	295.0	632.3	618.8	13.43	47.088		
4,000.0	3,984.0	3,942.9	3,933.6	9.3	8.1	179.29	12.8	302.6	649.4	635.6	13.77	47.149		
4,100.0	4,083.5	4,041.4	4,031.8	9.5	8.3	179.29	13.2	310.3	666.5	652.3	14.12	47.208		
4,200.0	4,183.1	4,140.0	4,130.0	9.7	8.5	179.29	13.5	317.9	683.6	669.1	14.46	47.263		
4,300.0	4,282.6	4,238.5	4,228.3	10.0	8.8	179.29	13.8	325.5	700.7	685.9	14.81	47.316		
4,400.0	4,382.2	4,337.0	4,326.5	10.2	9.0	179.29	14.1	333.2	717.8	702.6	15.15	47.367		
4,500.0	4,481.8	4,435.6	4,424.7	10.5	9.2	179.29	14.5	340.8	734.9	719.4	15.50	47.415		
4,600.0	4,581.3	4,534.1	4,523.0	10.7	9.4	179.29	14.8	348.5	751.9	736.1	15.84	47.461		
4,700.0	4,680.9	4,632.6	4,621.2	10.9	9.6	179.29	15.1	356.1	769.0	752.9	16.19	47.505		
4,800.0	4,780.4	4,731.1	4,719.4	11.2	9.8	179.29	15.4	363.7	786.1	769.6	16.53	47.548		
4,900.0	4,880.0	4,829.7	4,817.7	11.4	10.1	179.29	15.8	371.4	803.2	786.4	16.88	47.588		
5,000.0	4,979.5	4,928.2	4,915.9	11.7	10.3	179.29	16.1	379.0	820.3	803.1	17.22	47.627		
5,100.0	5,079.1	5,026.7	5,014.1	11.9	10.5	179.29	16.4	386.6	837.4	819.9	17.57	47.665		

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 1A-19H-B268
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 1A-19H-B268	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					
5,200.0	5,178.7	5,125.2	5,112.4	12.1	10.7	179.29	16.7	394.3	854.5	836.6	17.91	47.701					
5,300.0	5,278.2	5,223.8	5,210.6	12.4	10.9	179.29	17.1	401.9	871.6	853.4	18.26	47.735					
5,400.0	5,377.8	5,322.3	5,308.8	12.6	11.1	179.29	17.4	409.6	888.7	870.1	18.60	47.769					
5,500.0	5,477.3	5,420.8	5,407.0	12.9	11.4	179.30	17.7	417.2	905.8	886.9	18.95	47.801					
5,600.0	5,576.9	5,519.4	5,505.3	13.1	11.6	179.30	18.0	424.8	922.9	903.6	19.30	47.832					
5,700.0	5,676.4	5,617.9	5,603.5	13.3	11.8	179.30	18.4	432.5	940.0	920.4	19.64	47.862					
5,800.0	5,776.0	5,716.4	5,701.7	13.6	12.0	179.30	18.7	440.1	957.1	937.1	19.99	47.891					
5,900.0	5,875.6	5,814.9	5,800.0	13.8	12.2	179.30	19.0	447.8	974.2	953.9	20.33	47.918					
6,000.0	5,975.1	5,913.5	5,898.2	14.1	12.4	179.30	19.3	455.4	991.3	970.6	20.68	47.945					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	87.61	2.9	69.9	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.61	2.9	69.9	70.0	69.7	0.30	230.384		
200.0	200.0	200.0	200.0	0.3	0.3	87.61	2.9	69.9	70.0	69.3	0.65	107.184 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.57	2.9	69.9	71.7	70.7	1.00	71.607		
400.0	399.8	399.8	399.8	0.7	0.7	178.66	2.9	69.9	76.9	75.6	1.35	57.041		
500.0	499.5	499.5	499.5	0.9	0.8	178.79	2.9	69.9	85.5	83.8	1.70	50.426		
600.0	599.0	599.0	599.0	1.1	1.0	178.91	2.9	69.9	94.9	92.9	2.04	46.435		
700.0	698.6	695.1	695.1	1.4	1.2	179.00	3.0	71.5	105.9	103.5	2.39	44.405		
800.0	798.1	790.3	790.2	1.6	1.4	179.05	3.2	76.2	120.3	117.6	2.73	44.128 SF		
900.0	897.7	884.5	884.0	1.8	1.6	179.07	3.5	84.0	137.9	134.8	3.06	45.008		
1,000.0	997.3	978.4	977.3	2.1	1.8	179.08	4.0	94.8	158.7	155.3	3.40	46.656		
1,100.0	1,096.8	1,076.0	1,074.1	2.3	2.0	179.08	4.6	107.0	180.5	176.8	3.74	48.216		
1,200.0	1,196.4	1,173.6	1,170.9	2.6	2.2	179.08	5.1	119.3	202.4	198.3	4.09	49.516		
1,300.0	1,295.9	1,271.1	1,267.7	2.8	2.5	179.08	5.6	131.6	224.2	219.8	4.43	50.615		
1,400.0	1,395.5	1,368.7	1,364.5	3.0	2.8	179.08	6.2	143.8	246.1	241.3	4.77	51.557		
1,500.0	1,495.0	1,466.3	1,461.3	3.3	3.0	179.08	6.7	156.1	267.9	262.8	5.12	52.373		
1,600.0	1,594.6	1,563.9	1,558.1	3.5	3.3	179.08	7.3	168.4	289.8	284.3	5.46	53.086		
1,700.0	1,694.2	1,661.5	1,655.0	3.8	3.5	179.08	7.8	180.6	311.6	305.8	5.80	53.716		
1,800.0	1,793.7	1,759.1	1,751.8	4.0	3.8	179.08	8.3	192.9	333.5	327.3	6.14	54.275		
1,900.0	1,893.3	1,856.6	1,848.6	4.2	4.1	179.08	8.9	205.2	355.3	348.8	6.49	54.775		
2,000.0	1,992.8	1,954.2	1,945.4	4.5	4.3	179.08	9.4	217.4	377.2	370.3	6.83	55.225		
2,100.0	2,092.4	2,051.8	2,042.2	4.7	4.6	179.08	10.0	229.7	399.0	391.8	7.17	55.633		
2,200.0	2,191.9	2,149.4	2,139.0	4.9	4.9	179.08	10.5	242.0	420.9	413.3	7.51	56.003		
2,300.0	2,291.5	2,247.0	2,235.8	5.2	5.1	179.08	11.0	254.2	442.7	434.8	7.86	56.341		
2,400.0	2,391.1	2,344.6	2,332.6	5.4	5.4	179.08	11.6	266.5	464.6	456.4	8.20	56.650		
2,500.0	2,490.6	2,442.1	2,429.4	5.7	5.7	179.08	12.1	278.8	486.4	477.9	8.54	56.935		
2,600.0	2,590.2	2,539.7	2,526.2	5.9	6.0	179.08	12.7	291.0	508.3	499.4	8.89	57.198		
2,700.0	2,689.7	2,637.3	2,623.0	6.1	6.2	179.08	13.2	303.3	530.1	520.9	9.23	57.442		
2,800.0	2,789.3	2,734.9	2,719.8	6.4	6.5	179.08	13.7	315.6	552.0	542.4	9.57	57.668		
2,900.0	2,888.8	2,832.5	2,816.7	6.6	6.8	179.08	14.3	327.8	573.8	563.9	9.91	57.878		
3,000.0	2,988.4	2,930.1	2,913.5	6.9	7.0	179.08	14.8	340.1	595.7	585.4	10.26	58.075		
3,100.0	3,088.0	3,027.6	3,010.3	7.1	7.3	179.08	15.4	352.4	617.5	606.9	10.60	58.259		
3,200.0	3,187.5	3,125.2	3,107.1	7.3	7.6	179.08	15.9	364.6	639.4	628.4	10.94	58.431		
3,300.0	3,287.1	3,222.8	3,203.9	7.6	7.9	179.08	16.4	376.9	661.2	649.9	11.28	58.593		
3,400.0	3,386.6	3,320.4	3,300.7	7.8	8.1	179.08	17.0	389.2	683.1	671.4	11.63	58.745		
3,500.0	3,486.2	3,418.0	3,397.5	8.1	8.4	179.08	17.5	401.4	704.9	692.9	11.97	58.889		
3,600.0	3,585.7	3,515.6	3,494.3	8.3	8.7	179.08	18.1	413.7	726.8	714.4	12.31	59.024		
3,700.0	3,685.3	3,613.1	3,591.1	8.5	8.9	179.08	18.6	425.9	748.6	735.9	12.66	59.152		
3,800.0	3,784.9	3,710.7	3,687.9	8.8	9.2	179.08	19.2	438.2	770.5	757.5	13.00	59.274		
3,900.0	3,884.4	3,808.3	3,784.7	9.0	9.5	179.08	19.7	450.5	792.3	779.0	13.34	59.389		
4,000.0	3,984.0	3,905.9	3,881.5	9.3	9.8	179.08	20.2	462.7	814.2	800.5	13.68	59.499		
4,100.0	4,083.5	4,003.5	3,978.4	9.5	10.0	179.08	20.8	475.0	836.0	822.0	14.03	59.603		
4,200.0	4,183.1	4,101.1	4,075.2	9.7	10.3	179.08	21.3	487.3	857.9	843.5	14.37	59.702		
4,300.0	4,282.6	4,198.6	4,172.0	10.0	10.6	179.08	21.9	499.5	879.7	865.0	14.71	59.797		
4,400.0	4,382.2	4,296.2	4,268.8	10.2	10.9	179.08	22.4	511.8	901.6	886.5	15.05	59.887		
4,500.0	4,481.8	4,393.8	4,365.6	10.5	11.1	179.08	22.9	524.1	923.4	908.0	15.40	59.973		
4,600.0	4,581.3	4,491.4	4,462.4	10.7	11.4	179.08	23.5	536.3	945.3	929.5	15.74	60.056		
4,700.0	4,680.9	4,589.0	4,559.2	10.9	11.7	179.08	24.0	548.6	967.1	951.0	16.08	60.135		
4,800.0	4,780.4	4,686.6	4,656.0	11.2	12.0	179.08	24.6	560.9	989.0	972.5	16.42	60.210		

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 1A-19H-B268
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 1A-19H-B268	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				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	87.65	3.3	80.0	80.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.65	3.3	80.0	80.0	79.7	0.30	263.551		
200.0	200.0	200.0	200.0	0.3	0.3	87.65	3.3	80.0	80.0	79.4	0.65	122.615	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.61	3.3	80.0	81.8	80.8	1.00	81.665		
400.0	399.8	399.8	399.8	0.7	0.7	178.69	3.3	80.0	87.0	85.7	1.35	64.508		
500.0	499.5	499.5	499.5	0.9	0.8	178.80	3.3	80.0	95.6	93.9	1.70	56.367		
600.0	599.0	595.5	595.5	1.1	1.0	178.90	3.3	81.6	106.6	104.6	2.04	52.331		
700.0	698.6	690.7	690.5	1.4	1.2	178.96	3.6	86.3	121.0	118.6	2.38	50.885	SF	
800.0	798.1	784.9	784.4	1.6	1.4	179.00	3.9	94.1	138.6	135.9	2.72	51.043		
900.0	897.7	877.8	876.7	1.8	1.6	179.02	4.3	104.8	159.4	156.4	3.05	52.258		
1,000.0	997.3	970.6	968.5	2.1	1.9	179.03	4.9	118.4	183.3	180.0	3.39	54.155		
1,100.0	1,096.8	1,067.4	1,064.1	2.3	2.1	179.03	5.6	133.6	208.2	204.5	3.73	55.878		
1,200.0	1,196.4	1,164.3	1,159.8	2.6	2.4	179.03	6.2	148.8	233.1	229.1	4.07	57.314		
1,300.0	1,295.9	1,261.1	1,255.4	2.8	2.7	179.03	6.9	164.0	258.1	253.6	4.41	58.529		
1,400.0	1,395.5	1,358.0	1,351.1	3.0	3.0	179.03	7.5	179.2	283.0	278.2	4.75	59.569		
1,500.0	1,495.0	1,454.8	1,446.7	3.3	3.3	179.03	8.2	194.4	307.9	302.8	5.09	60.471		
1,600.0	1,594.6	1,551.7	1,542.4	3.5	3.6	179.03	8.8	209.5	332.8	327.3	5.43	61.260		
1,700.0	1,694.2	1,648.5	1,638.0	3.8	3.9	179.03	9.5	224.7	357.7	351.9	5.77	61.956		
1,800.0	1,793.7	1,745.4	1,733.7	4.0	4.2	179.03	10.1	239.9	382.6	376.5	6.11	62.575		
1,900.0	1,893.3	1,842.2	1,829.3	4.2	4.5	179.03	10.8	255.1	407.5	401.0	6.46	63.129		
2,000.0	1,992.8	1,939.1	1,925.0	4.5	4.8	179.03	11.4	270.3	432.4	425.6	6.80	63.627		
2,100.0	2,092.4	2,035.9	2,020.6	4.7	5.2	179.03	12.1	285.5	457.3	450.2	7.14	64.078		
2,200.0	2,191.9	2,132.8	2,116.3	4.9	5.5	179.03	12.7	300.7	482.2	474.7	7.48	64.488		
2,300.0	2,291.5	2,229.6	2,211.9	5.2	5.8	179.03	13.4	315.8	507.1	499.3	7.82	64.862		
2,400.0	2,391.1	2,326.5	2,307.6	5.4	6.1	179.03	14.0	331.0	532.0	523.9	8.16	65.205		
2,500.0	2,490.6	2,423.3	2,403.2	5.7	6.4	179.03	14.7	346.2	556.9	548.4	8.50	65.520		
2,600.0	2,590.2	2,520.2	2,498.9	5.9	6.7	179.03	15.3	361.4	581.8	573.0	8.84	65.811		
2,700.0	2,689.7	2,617.0	2,594.5	6.1	7.0	179.03	16.0	376.6	606.7	597.6	9.18	66.081		
2,800.0	2,789.3	2,713.9	2,690.2	6.4	7.4	179.03	16.7	391.8	631.7	622.1	9.52	66.332		
2,900.0	2,888.8	2,810.7	2,785.8	6.6	7.7	179.03	17.3	407.0	656.6	646.7	9.86	66.565		
3,000.0	2,988.4	2,907.6	2,881.5	6.9	8.0	179.03	18.0	422.1	681.5	671.3	10.20	66.782		
3,100.0	3,088.0	3,004.4	2,977.1	7.1	8.3	179.03	18.6	437.3	706.4	695.8	10.55	66.986		
3,200.0	3,187.5	3,101.3	3,072.8	7.3	8.6	179.03	19.3	452.5	731.3	720.4	10.89	67.177		
3,300.0	3,287.1	3,198.1	3,168.4	7.6	8.9	179.03	19.9	467.7	756.2	745.0	11.23	67.356		
3,400.0	3,386.6	3,295.0	3,264.0	7.8	9.2	179.03	20.6	482.9	781.1	769.5	11.57	67.525		
3,500.0	3,486.2	3,391.8	3,359.7	8.1	9.6	179.03	21.2	498.1	806.0	794.1	11.91	67.684		
3,600.0	3,585.7	3,488.7	3,455.3	8.3	9.9	179.03	21.9	513.2	830.9	818.7	12.25	67.834		
3,700.0	3,685.3	3,585.5	3,551.0	8.5	10.2	179.03	22.5	528.4	855.8	843.2	12.59	67.976		
3,800.0	3,784.9	3,682.3	3,646.6	8.8	10.5	179.03	23.2	543.6	880.7	867.8	12.93	68.111		
3,900.0	3,884.4	3,779.2	3,742.3	9.0	10.8	179.03	23.8	558.8	905.6	892.4	13.27	68.239		
4,000.0	3,984.0	3,876.0	3,837.9	9.3	11.1	179.03	24.5	574.0	930.5	916.9	13.61	68.360		
4,100.0	4,083.5	3,972.9	3,933.6	9.5	11.5	179.03	25.1	589.2	955.4	941.5	13.95	68.476		
4,200.0	4,183.1	4,069.7	4,029.2	9.7	11.8	179.03	25.8	604.4	980.3	966.1	14.29	68.586		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 #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	87.68	3.6	90.0	90.1					
100.0	100.0	100.0	100.0	0.2	0.2	87.68	3.6	90.0	90.1	89.8	0.30	296.719		
200.0	200.0	200.0	200.0	0.3	0.3	87.68	3.6	90.0	90.1	89.5	0.65	138.046 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.63	3.6	90.0	91.9	90.9	1.00	91.724		
400.0	399.8	399.8	399.8	0.7	0.7	178.70	3.6	90.0	97.1	95.7	1.35	71.976		
500.0	499.5	495.9	495.9	0.9	0.8	178.80	3.7	91.6	107.3	105.6	1.69	63.526		
600.0	599.0	591.1	590.9	1.1	1.0	178.88	3.9	96.4	121.7	119.6	2.03	59.963		
700.0	698.6	685.2	684.7	1.4	1.2	178.94	4.2	104.2	139.3	136.9	2.37	58.853 SF		
800.0	798.1	778.2	777.1	1.6	1.4	178.98	4.6	114.9	160.2	157.5	2.70	59.260		
900.0	897.7	869.7	867.6	1.8	1.7	179.01	5.2	128.4	184.1	181.1	3.04	60.667		
1,000.0	997.3	962.3	958.8	2.1	2.0	179.02	5.8	144.8	211.0	207.6	3.37	62.617		
1,100.0	1,096.8	1,058.5	1,053.3	2.3	2.3	179.03	6.5	162.3	238.4	234.6	3.71	64.269		
1,200.0	1,196.4	1,154.7	1,147.9	2.6	2.6	179.04	7.2	179.8	265.7	261.7	4.05	65.647		
1,300.0	1,295.9	1,250.9	1,242.5	2.8	3.0	179.05	7.9	197.3	293.1	288.8	4.39	66.812		
1,400.0	1,395.5	1,347.0	1,337.0	3.0	3.3	179.05	8.5	214.9	320.5	315.8	4.73	67.810		
1,500.0	1,495.0	1,443.2	1,431.6	3.3	3.7	179.06	9.2	232.4	347.9	342.9	5.07	68.676		
1,600.0	1,594.6	1,539.4	1,526.2	3.5	4.0	179.06	9.9	249.9	375.3	369.9	5.41	69.434		
1,700.0	1,694.2	1,635.6	1,620.7	3.8	4.3	179.07	10.6	267.4	402.7	397.0	5.74	70.102		
1,800.0	1,793.7	1,731.7	1,715.3	4.0	4.7	179.07	11.3	285.0	430.1	424.0	6.08	70.696		
1,900.0	1,893.3	1,827.9	1,809.8	4.2	5.0	179.07	12.0	302.5	457.5	451.1	6.42	71.228		
2,000.0	1,992.8	1,924.1	1,904.4	4.5	5.4	179.08	12.7	320.0	484.9	478.2	6.76	71.707		
2,100.0	2,092.4	2,020.3	1,999.0	4.7	5.7	179.08	13.4	337.5	512.3	505.2	7.10	72.140		
2,200.0	2,191.9	2,116.4	2,093.5	4.9	6.1	179.08	14.1	355.1	539.7	532.3	7.44	72.534		
2,300.0	2,291.5	2,212.6	2,188.1	5.2	6.4	179.08	14.7	372.6	567.1	559.3	7.78	72.893		
2,400.0	2,391.1	2,308.8	2,282.6	5.4	6.8	179.08	15.4	390.1	594.5	586.4	8.12	73.223		
2,500.0	2,490.6	2,405.0	2,377.2	5.7	7.1	179.08	16.1	407.6	621.9	613.4	8.46	73.526		
2,600.0	2,590.2	2,501.1	2,471.8	5.9	7.5	179.09	16.8	425.2	649.3	640.5	8.80	73.806		
2,700.0	2,689.7	2,597.3	2,566.3	6.1	7.8	179.09	17.5	442.7	676.7	667.6	9.14	74.065		
2,800.0	2,789.3	2,693.5	2,660.9	6.4	8.2	179.09	18.2	460.2	704.1	694.6	9.48	74.306		
2,900.0	2,888.8	2,789.7	2,755.5	6.6	8.5	179.09	18.9	477.7	731.5	721.7	9.81	74.530		
3,000.0	2,988.4	2,885.8	2,850.0	6.9	8.9	179.09	19.6	495.2	758.9	748.7	10.15	74.740		
3,100.0	3,088.0	2,982.0	2,944.6	7.1	9.2	179.09	20.3	512.8	786.3	775.8	10.49	74.935		
3,200.0	3,187.5	3,078.2	3,039.1	7.3	9.6	179.09	20.9	530.3	813.7	802.8	10.83	75.119		
3,300.0	3,287.1	3,174.4	3,133.7	7.6	9.9	179.09	21.6	547.8	841.1	829.9	11.17	75.291		
3,400.0	3,386.6	3,270.5	3,228.3	7.8	10.3	179.09	22.3	565.3	868.5	856.9	11.51	75.454		
3,500.0	3,486.2	3,366.7	3,322.8	8.1	10.6	179.09	23.0	582.9	895.9	884.0	11.85	75.607		
3,600.0	3,585.7	3,462.9	3,417.4	8.3	11.0	179.09	23.7	600.4	923.3	911.1	12.19	75.751		
3,700.0	3,685.3	3,559.0	3,512.0	8.5	11.4	179.10	24.4	617.9	950.6	938.1	12.53	75.888		
3,800.0	3,784.9	3,655.2	3,606.5	8.8	11.7	179.10	25.1	635.4	978.0	965.2	12.87	76.018		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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: 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	87.70	4.0	99.8	99.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.70	4.0	99.8	99.9	99.6	0.30	328.966		
200.0	200.0	200.0	200.0	0.3	0.3	87.70	4.0	99.8	99.9	99.3	0.65	153.049 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.65	4.0	99.8	101.6	100.6	1.00	101.503		
400.0	399.8	396.2	396.2	0.7	0.7	178.71	4.1	101.4	108.6	107.2	1.34	80.862		
500.0	499.5	491.5	491.3	0.9	0.9	178.80	4.2	106.2	122.1	120.4	1.68	72.635		
600.0	599.0	585.6	585.1	1.1	1.1	178.88	4.5	114.0	139.7	137.7	2.02	69.220		
700.0	698.6	678.5	677.4	1.4	1.3	178.94	4.9	124.8	160.6	158.2	2.35	68.216 SF		
800.0	798.1	770.1	768.0	1.6	1.6	178.99	5.4	138.3	184.6	181.9	2.69	68.702		
900.0	897.7	860.1	856.6	1.8	1.9	179.02	6.0	154.4	211.7	208.6	3.02	70.168		
1,000.0	997.3	952.6	947.1	2.1	2.2	179.04	6.6	173.3	241.3	237.9	3.35	72.028		
1,100.0	1,096.8	1,048.0	1,040.4	2.3	2.6	179.06	7.4	193.2	271.2	267.5	3.69	73.539		
1,200.0	1,196.4	1,143.5	1,133.8	2.6	2.9	179.07	8.1	213.0	301.1	297.0	4.02	74.799		
1,300.0	1,295.9	1,238.9	1,227.1	2.8	3.3	179.09	8.8	232.8	331.0	326.6	4.36	75.865		
1,400.0	1,395.5	1,334.3	1,320.4	3.0	3.7	179.10	9.5	252.7	360.9	356.2	4.70	76.779		
1,500.0	1,495.0	1,429.7	1,413.8	3.3	4.1	179.11	10.2	272.5	390.8	385.7	5.04	77.571		
1,600.0	1,594.6	1,525.2	1,507.1	3.5	4.5	179.11	10.9	292.3	420.7	415.3	5.37	78.265		
1,700.0	1,694.2	1,620.6	1,600.4	3.8	4.9	179.12	11.6	312.2	450.6	444.8	5.71	78.877		
1,800.0	1,793.7	1,716.0	1,693.8	4.0	5.2	179.12	12.4	332.0	480.5	474.4	6.05	79.422		
1,900.0	1,893.3	1,811.4	1,787.1	4.2	5.6	179.13	13.1	351.8	510.4	504.0	6.39	79.909		
2,000.0	1,992.8	1,906.9	1,880.5	4.5	6.0	179.13	13.8	371.7	540.3	533.5	6.72	80.348		
2,100.0	2,092.4	2,002.3	1,973.8	4.7	6.4	179.14	14.5	391.5	570.2	563.1	7.06	80.745		
2,200.0	2,191.9	2,097.7	2,067.1	4.9	6.8	179.14	15.2	411.3	600.1	592.7	7.40	81.106		
2,300.0	2,291.5	2,193.1	2,160.5	5.2	7.2	179.15	15.9	431.2	630.0	622.2	7.74	81.435		
2,400.0	2,391.1	2,288.6	2,253.8	5.4	7.6	179.15	16.6	451.0	659.9	651.8	8.07	81.738		
2,500.0	2,490.6	2,384.0	2,347.2	5.7	8.0	179.15	17.3	470.8	689.8	681.4	8.41	82.016		
2,600.0	2,590.2	2,479.4	2,440.5	5.9	8.3	179.15	18.1	490.7	719.7	710.9	8.75	82.272		
2,700.0	2,689.7	2,574.8	2,533.8	6.1	8.7	179.16	18.8	510.5	749.6	740.5	9.08	82.510		
2,800.0	2,789.3	2,670.3	2,627.2	6.4	9.1	179.16	19.5	530.3	779.5	770.0	9.42	82.731		
2,900.0	2,888.8	2,765.7	2,720.5	6.6	9.5	179.16	20.2	550.2	809.4	799.6	9.76	82.937		
3,000.0	2,988.4	2,861.1	2,813.8	6.9	9.9	179.16	20.9	570.0	839.3	829.2	10.10	83.129		
3,100.0	3,088.0	2,956.5	2,907.2	7.1	10.3	179.16	21.6	589.8	869.2	858.7	10.43	83.308		
3,200.0	3,187.5	3,052.0	3,000.5	7.3	10.7	179.16	22.3	609.7	899.1	888.3	10.77	83.477		
3,300.0	3,287.1	3,147.4	3,093.9	7.6	11.1	179.17	23.0	629.5	929.0	917.9	11.11	83.635		
3,400.0	3,386.6	3,242.8	3,187.2	7.8	11.5	179.17	23.8	649.3	958.9	947.4	11.44	83.784		
3,500.0	3,486.2	3,338.2	3,280.5	8.1	11.8	179.17	24.5	669.2	988.8	977.0	11.78	83.924		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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			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	87.72	4.4	109.9	110.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.72	4.4	109.9	110.0	109.7	0.30	362.134		
200.0	200.0	200.0	200.0	0.3	0.3	87.72	4.4	109.9	110.0	109.3	0.65	168.480	CC, ES	
300.0	300.0	296.2	296.2	0.5	0.5	178.66	4.4	111.5	113.4	112.4	0.99	113.993		
400.0	399.8	391.7	391.6	0.7	0.7	178.72	4.6	116.3	123.6	122.3	1.33	92.660		
500.0	499.5	485.9	485.5	0.9	0.9	178.78	4.9	124.1	140.5	138.8	1.67	84.078		
600.0	599.0	578.9	577.8	1.1	1.1	178.84	5.3	134.9	161.3	159.3	2.01	80.422		
700.0	698.6	670.4	668.3	1.4	1.4	178.89	5.9	148.4	185.3	183.0	2.34	79.251	SF	
800.0	798.1	760.4	756.9	1.6	1.7	178.92	6.5	164.5	212.4	209.7	2.67	79.611		
900.0	897.7	848.8	843.3	1.8	2.1	178.94	7.2	183.0	242.4	239.5	2.99	80.979		
1,000.0	997.3	938.0	929.9	2.1	2.5	178.95	8.1	204.2	275.3	271.9	3.32	82.885		
1,100.0	1,096.8	1,032.3	1,021.3	2.3	2.9	178.96	8.9	227.2	308.7	305.1	3.66	84.445		
1,200.0	1,196.4	1,126.5	1,112.7	2.6	3.3	178.97	9.8	250.3	342.2	338.2	3.99	85.746		
1,300.0	1,295.9	1,220.7	1,204.0	2.8	3.8	178.97	10.7	273.3	375.6	371.3	4.33	86.848		
1,400.0	1,395.5	1,315.0	1,295.4	3.0	4.2	178.98	11.6	296.3	409.1	404.4	4.66	87.794		
1,500.0	1,495.0	1,409.2	1,386.8	3.3	4.7	178.98	12.5	319.4	442.6	437.6	4.99	88.614		
1,600.0	1,594.6	1,503.4	1,478.2	3.5	5.1	178.99	13.4	342.4	476.0	470.7	5.33	89.332		
1,700.0	1,694.2	1,597.7	1,569.5	3.8	5.5	178.99	14.3	365.4	509.5	503.8	5.66	89.966		
1,800.0	1,793.7	1,691.9	1,660.9	4.0	6.0	178.99	15.2	388.5	543.0	537.0	6.00	90.530		
1,900.0	1,893.3	1,786.1	1,752.3	4.2	6.4	179.00	16.1	411.5	576.4	570.1	6.33	91.035		
2,000.0	1,992.8	1,880.4	1,843.7	4.5	6.9	179.00	17.0	434.5	609.9	603.2	6.67	91.489		
2,100.0	2,092.4	1,974.6	1,935.0	4.7	7.3	179.00	17.9	457.5	643.4	636.4	7.00	91.901		
2,200.0	2,191.9	2,068.8	2,026.4	4.9	7.7	179.00	18.8	480.6	676.8	669.5	7.33	92.275		
2,300.0	2,291.5	2,163.1	2,117.8	5.2	8.2	179.01	19.7	503.6	710.3	702.6	7.67	92.617		
2,400.0	2,391.1	2,257.3	2,209.1	5.4	8.6	179.01	20.6	526.6	743.8	735.8	8.00	92.930		
2,500.0	2,490.6	2,351.5	2,300.5	5.7	9.1	179.01	21.5	549.7	777.2	768.9	8.34	93.219		
2,600.0	2,590.2	2,445.8	2,391.9	5.9	9.5	179.01	22.4	572.7	810.7	802.0	8.67	93.485		
2,700.0	2,689.7	2,540.0	2,483.3	6.1	10.0	179.01	23.3	595.7	844.1	835.1	9.01	93.732		
2,800.0	2,789.3	2,634.2	2,574.6	6.4	10.4	179.01	24.2	618.8	877.6	868.3	9.34	93.961		
2,900.0	2,888.8	2,728.5	2,666.0	6.6	10.8	179.01	25.1	641.8	911.1	901.4	9.67	94.175		
3,000.0	2,988.4	2,822.7	2,757.4	6.9	11.3	179.01	26.0	664.8	944.5	934.5	10.01	94.374		
3,100.0	3,088.0	2,916.9	2,848.7	7.1	11.7	179.02	26.9	687.9	978.0	967.7	10.34	94.560		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,800.0	7,435.0	7,494.5	7,446.2	35.1	18.0	92.04	-2,552.3	-737.2	904.0	855.7	48.31	18.713		
8,900.0	7,435.0	7,494.2	7,445.9	36.6	18.0	91.80	-2,552.3	-737.2	804.3	754.4	49.95	16.103		
9,000.0	7,435.0	7,493.9	7,445.6	38.2	18.0	91.56	-2,552.3	-737.2	704.7	653.1	51.60	13.657		
9,100.0	7,435.0	7,493.6	7,445.3	39.7	18.0	91.32	-2,552.3	-737.2	605.2	552.0	53.26	11.363		
9,200.0	7,435.0	7,493.4	7,445.1	41.3	18.0	91.08	-2,552.3	-737.2	506.0	451.0	54.93	9.211		
9,300.0	7,435.0	7,493.1	7,444.8	42.9	18.0	90.84	-2,552.3	-737.2	407.1	350.5	56.61	7.191		
9,400.0	7,435.0	7,492.8	7,444.5	44.5	18.0	90.60	-2,552.3	-737.2	308.9	250.6	58.29	5.298		
9,500.0	7,435.0	7,492.5	7,444.2	46.2	18.0	90.36	-2,552.3	-737.2	212.3	152.3	59.98	3.540		
9,600.0	7,435.0	7,492.3	7,443.9	47.8	18.0	90.12	-2,552.3	-737.2	121.5	59.9	61.67	1.971		
9,700.0	7,435.0	7,492.0	7,443.7	49.4	18.0	89.88	-2,552.3	-737.2	66.8	3.4	63.37	1.054 Level 2		
9,701.6	7,435.0	7,492.0	7,443.7	49.5	18.0	89.88	-2,552.3	-737.2	66.8	3.4	63.39	1.054 Level 2, CC, ES, SF		
9,800.0	7,435.0	7,491.7	7,443.4	51.1	18.0	89.65	-2,552.3	-737.2	119.0	53.9	65.07	1.828		
9,900.0	7,435.0	7,491.4	7,443.1	52.8	18.0	89.41	-2,552.3	-737.2	209.4	142.6	66.77	3.136		
10,000.0	7,435.0	7,491.1	7,442.8	54.4	18.0	89.17	-2,552.3	-737.2	305.8	237.4	68.47	4.466		
10,100.0	7,435.0	7,490.9	7,442.6	56.1	18.0	88.93	-2,552.3	-737.2	404.0	333.8	70.18	5.757		
10,200.0	7,435.0	7,490.6	7,442.3	57.8	18.0	88.70	-2,552.3	-737.2	502.9	431.0	71.89	6.996		
10,300.0	7,435.0	7,490.3	7,442.0	59.4	18.0	88.46	-2,552.3	-737.2	602.2	528.6	73.59	8.182		
10,400.0	7,435.0	7,490.0	7,441.7	61.1	18.0	88.22	-2,552.3	-737.2	701.6	626.3	75.30	9.318		
10,500.0	7,435.0	7,489.8	7,441.5	62.8	18.0	87.99	-2,552.3	-737.2	801.2	724.2	77.01	10.404		
10,600.0	7,435.0	7,489.5	7,441.2	64.5	18.0	87.75	-2,552.3	-737.2	900.9	822.2	78.72	11.444		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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							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	-155.09	-705.6	-327.7	778.0					
100.0	100.0	88.8	88.8	0.2	0.2	-155.12	-706.0	-327.5	778.3	778.0	0.31	2,532.343		
200.0	200.0	186.7	186.7	0.3	0.3	-155.18	-707.1	-327.0	779.1	778.5	0.65	1,192.551		
300.0	300.0	287.0	286.9	0.5	0.5	-64.43	-708.3	-326.7	779.3	778.3	1.01	774.388		
400.0	399.8	390.9	390.9	0.7	0.7	-64.84	-709.1	-326.7	777.7	776.4	1.38	564.085		
500.0	499.5	490.6	490.6	0.9	0.9	-65.46	-709.4	-326.8	774.5	772.7	1.76	439.103		
600.0	599.0	592.5	592.5	1.1	1.0	-66.10	-709.6	-326.9	770.9	768.7	2.16	356.729		
700.0	698.6	689.3	689.2	1.4	1.2	-66.69	-709.7	-327.4	767.3	764.8	2.55	300.484		
800.0	798.1	789.3	789.3	1.6	1.4	-67.28	-709.8	-328.4	764.0	761.1	2.96	258.552		
900.0	897.7	889.2	889.2	1.8	1.6	-67.85	-709.7	-329.5	760.8	757.4	3.36	226.498		
1,000.0	997.3	987.6	987.5	2.1	1.7	-68.38	-709.5	-331.1	757.7	753.9	3.76	201.404		
1,100.0	1,096.8	1,087.2	1,087.1	2.3	1.9	-68.89	-709.3	-333.1	754.7	750.6	4.17	181.027		
1,200.0	1,196.4	1,186.3	1,186.2	2.6	2.1	-69.38	-708.9	-335.5	751.9	747.3	4.58	164.260		
1,300.0	1,295.9	1,288.0	1,287.8	2.8	2.3	-69.85	-708.4	-338.2	749.0	744.1	4.99	150.049		
1,400.0	1,395.5	1,387.1	1,386.9	3.0	2.4	-70.30	-707.8	-341.0	746.1	740.7	5.40	138.078		
1,500.0	1,495.0	1,492.0	1,491.7	3.3	2.6	-70.78	-706.8	-344.0	743.0	737.2	5.83	127.517		
1,600.0	1,594.6	1,584.5	1,584.2	3.5	2.8	-71.18	-705.9	-346.9	740.0	733.8	6.23	118.783		
1,700.0	1,694.2	1,678.8	1,678.5	3.8	3.0	-71.55	-705.7	-350.6	738.0	731.3	6.64	111.166		
1,800.0	1,793.7	1,778.9	1,778.4	4.0	3.1	-71.90	-705.7	-355.3	736.4	729.3	7.06	104.304		
1,900.0	1,893.3	1,873.2	1,872.7	4.2	3.3	-72.21	-705.7	-360.0	735.0	727.5	7.47	98.363		
2,000.0	1,992.8	1,972.1	1,971.4	4.5	3.5	-72.53	-706.4	-365.2	734.3	726.4	7.89	93.017		
2,100.0	2,092.4	2,069.5	2,068.6	4.7	3.7	-72.83	-707.1	-370.4	733.7	725.4	8.32	88.238		
2,188.7	2,180.7	2,155.6	2,154.6	4.9	3.9	-73.11	-708.1	-375.1	733.6	724.9	8.69	84.429		
2,200.0	2,191.9	2,166.7	2,165.7	4.9	3.9	-73.15	-708.2	-375.7	733.6	724.8	8.74	83.968		
2,300.0	2,291.5	2,265.6	2,264.4	5.2	4.1	-73.45	-709.6	-381.3	733.7	724.5	9.16	80.071		
2,400.0	2,391.1	2,361.1	2,359.8	5.4	4.3	-73.73	-711.0	-386.9	734.1	724.5	9.58	76.600		
2,500.0	2,490.6	2,462.4	2,460.9	5.7	4.5	-74.04	-713.1	-392.9	735.1	725.1	10.02	73.377		
2,600.0	2,590.2	2,565.7	2,563.9	5.9	4.7	-74.31	-714.5	-399.3	735.4	725.0	10.46	70.320		
2,700.0	2,689.7	2,664.1	2,662.1	6.1	4.9	-74.55	-715.7	-405.7	735.7	724.8	10.89	67.551		
2,800.0	2,789.3	2,758.6	2,756.4	6.4	5.1	-74.78	-717.3	-412.0	736.4	725.1	11.31	65.087		
2,900.0	2,888.8	2,858.7	2,856.3	6.6	5.3	-75.03	-719.6	-418.5	737.8	726.1	11.75	62.777		
3,000.0	2,988.4	2,958.0	2,955.3	6.9	5.5	-75.24	-721.4	-425.5	738.9	726.7	12.19	60.609		
3,100.0	3,088.0	3,058.0	3,055.0	7.1	5.7	-75.45	-723.6	-432.6	740.3	727.7	12.63	58.606		
3,200.0	3,187.5	3,161.2	3,157.9	7.3	5.9	-75.63	-725.3	-440.3	741.4	728.3	13.08	56.664		
3,300.0	3,287.1	3,259.5	3,255.9	7.6	6.1	-75.76	-726.7	-448.1	742.2	728.7	13.53	54.871		
3,400.0	3,386.6	3,360.3	3,356.3	7.8	6.3	-75.89	-728.4	-456.3	743.4	729.4	13.98	53.186		
3,500.0	3,486.2	3,457.3	3,453.0	8.1	6.5	-75.99	-729.7	-464.3	744.4	729.9	14.42	51.625		
3,600.0	3,585.7	3,554.8	3,550.2	8.3	6.7	-76.14	-731.9	-471.9	746.1	731.2	14.86	50.211		
3,700.0	3,685.3	3,658.4	3,653.5	8.5	7.0	-76.36	-734.3	-479.3	747.6	732.3	15.31	48.837		
3,800.0	3,784.9	3,761.6	3,756.5	8.8	7.2	-76.64	-736.2	-485.6	748.6	732.8	15.75	47.520		
3,900.0	3,884.4	3,862.8	3,857.5	9.0	7.4	-76.97	-738.0	-491.1	749.3	733.1	16.19	46.275		
4,000.0	3,984.0	3,960.4	3,955.0	9.3	7.6	-77.31	-739.8	-496.1	750.1	733.4	16.62	45.119		
4,100.0	4,083.5	4,059.0	4,053.5	9.5	7.7	-77.67	-742.0	-501.0	751.2	734.2	17.06	44.041		
4,200.0	4,183.1	4,159.7	4,154.0	9.7	7.9	-78.03	-744.3	-506.0	752.4	734.9	17.50	43.003		
4,300.0	4,282.6	4,260.7	4,254.9	10.0	8.1	-78.39	-746.4	-511.0	753.5	735.5	17.93	42.011		
4,400.0	4,382.2	4,365.9	4,359.9	10.2	8.4	-78.79	-748.2	-516.0	754.2	735.9	18.38	41.031		
4,500.0	4,481.8	4,463.4	4,457.3	10.5	8.5	-79.15	-749.5	-520.4	754.5	735.7	18.81	40.110		
4,600.0	4,581.3	4,561.6	4,555.4	10.7	8.7	-79.58	-751.5	-524.4	755.5	736.2	19.24	39.265		
4,700.0	4,680.9	4,661.7	4,655.4	10.9	8.9	-80.01	-753.5	-528.2	756.4	736.7	19.67	38.445		
4,800.0	4,780.4	4,757.8	4,751.4	11.2	9.1	-80.43	-755.6	-532.0	757.5	737.4	20.10	37.687		
4,900.0	4,880.0	4,857.6	4,851.1	11.4	9.3	-80.87	-758.2	-535.9	759.2	738.7	20.53	36.975		
5,000.0	4,979.5	4,959.0	4,952.4	11.7	9.5	-81.33	-760.6	-539.5	760.6	739.6	20.96	36.278		

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 1A-19H-B268
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 1A-19H-B268	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		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			
5,100.0	5,079.1	5,063.6	5,057.0	11.9	9.7	-81.86	-762.9	-542.6	761.8	740.4	21.40	35.593		
5,200.0	5,178.7	5,172.6	5,165.8	12.1	9.9	-82.42	-764.2	-545.5	762.0	740.2	21.85	34.883		
5,300.0	5,278.2	5,276.3	5,269.5	12.4	10.0	-83.02	-764.6	-547.2	761.4	739.1	22.27	34.182		
5,400.0	5,377.8	5,378.0	5,371.3	12.6	10.2	-83.66	-764.7	-548.3	760.5	737.8	22.70	33.507		
5,500.0	5,477.3	5,476.1	5,469.3	12.9	10.4	-84.29	-764.8	-549.0	759.6	736.5	23.11	32.867		
5,600.0	5,576.9	5,574.7	5,567.9	13.1	10.5	-84.93	-765.0	-549.8	759.1	735.5	23.53	32.262		
5,674.9	5,651.5	5,646.5	5,639.7	13.3	10.7	-85.39	-765.4	-550.5	758.9	735.0	23.84	31.837		
5,700.0	5,676.4	5,670.1	5,663.4	13.3	10.7	-85.54	-765.6	-550.7	758.9	734.9	23.94	31.701		
5,800.0	5,776.0	5,769.4	5,762.6	13.6	10.9	-86.18	-766.6	-551.6	759.3	734.9	24.35	31.175		
5,900.0	5,875.6	5,869.2	5,862.4	13.8	11.0	-86.86	-767.5	-552.0	759.6	734.8	24.76	30.674		
6,000.0	5,975.1	5,975.0	5,968.2	14.1	11.2	-87.67	-768.2	-551.3	759.8	734.6	25.18	30.172		
6,100.0	6,074.7	6,076.7	6,070.0	14.3	11.4	-88.41	-768.0	-550.9	759.4	733.8	25.60	29.668		
6,200.0	6,174.2	6,176.4	6,169.6	14.5	11.5	-89.15	-767.9	-550.6	759.0	733.0	26.00	29.188		
6,300.0	6,273.8	6,274.8	6,268.0	14.8	11.7	-89.86	-767.8	-550.3	758.8	732.4	26.41	28.731		
6,400.0	6,373.3	6,377.7	6,370.9	15.0	11.8	-90.60	-767.6	-550.2	758.7	731.8	26.82	28.285		
6,475.7	6,448.7	6,450.9	6,444.1	15.2	12.0	-91.14	-767.2	-550.0	758.4	731.3	27.13	27.960		
6,500.0	6,472.9	6,473.6	6,466.9	15.3	12.0	-91.30	-767.2	-550.0	758.5	731.2	27.22	27.862		
6,600.0	6,572.5	6,575.3	6,568.6	15.5	12.2	-92.03	-767.2	-550.0	758.7	731.1	27.63	27.461		
6,700.0	6,672.0	6,670.4	6,663.7	15.7	12.3	-92.69	-767.1	-550.1	759.0	731.0	28.03	27.078		
6,800.0	6,771.5	6,771.8	6,765.0	16.0	12.5	-57.93	-767.5	-551.0	758.2	729.8	28.40	26.695		
6,900.0	6,870.0	6,876.6	6,869.8	16.2	12.7	-29.57	-767.3	-552.3	744.8	716.4	28.44	26.187		
7,000.0	6,965.7	6,972.1	6,965.3	16.5	12.8	-21.61	-766.6	-553.7	717.4	689.3	28.07	25.554		
7,100.0	7,066.6	7,065.5	7,058.7	16.8	13.0	-19.02	-765.9	-555.4	677.2	649.8	27.36	24.754		
7,200.0	7,140.9	7,153.3	7,146.4	17.1	13.2	-18.98	-764.8	-556.8	624.4	598.0	26.36	23.686		
7,300.0	7,217.1	7,229.6	7,222.8	17.6	13.3	-20.88	-763.4	-558.1	560.4	535.2	25.24	22.207		
7,400.0	7,283.7	7,293.6	7,286.8	18.1	13.4	-25.10	-762.3	-559.4	487.3	463.0	24.27	20.076		
7,500.0	7,339.4	7,347.2	7,340.3	18.8	13.5	-33.10	-761.6	-560.5	406.7	382.6	24.08	16.892		
7,600.0	7,383.0	7,389.0	7,382.1	19.6	13.6	-47.22	-761.1	-561.2	321.1	295.5	25.63	12.528		
7,700.0	7,413.8	7,418.2	7,411.3	20.5	13.6	-67.50	-760.8	-561.7	234.1	205.3	28.76	8.138		
7,800.0	7,431.1	7,434.5	7,427.6	21.5	13.6	-85.36	-760.7	-562.0	154.1	123.1	31.00	4.970		
7,900.0	7,435.0	7,437.7	7,430.8	22.6	13.6	-90.94	-760.7	-562.0	108.8	76.5	32.32	3.367		
7,909.9	7,435.0	7,437.6	7,430.7	22.7	13.6	-90.90	-760.7	-562.0	108.4	75.9	32.46	3.339 CC, ES, SF		
8,000.0	7,435.0	7,437.0	7,430.1	23.8	13.6	-90.57	-760.7	-562.0	140.9	107.2	33.70	4.182		
8,100.0	7,435.0	7,436.3	7,429.4	25.1	13.6	-90.20	-760.7	-562.0	218.8	183.7	35.12	6.229		
8,200.0	7,435.0	7,435.6	7,428.6	26.4	13.6	-89.81	-760.7	-562.0	309.7	273.1	36.59	8.462		
8,300.0	7,435.0	7,434.8	7,427.9	27.7	13.6	-89.42	-760.7	-562.0	404.8	366.7	38.10	10.627		
8,400.0	7,435.0	7,434.1	7,427.1	29.1	13.6	-89.02	-760.7	-562.0	501.9	462.3	39.63	12.665		
8,500.0	7,435.0	7,433.3	7,426.4	30.6	13.6	-88.61	-760.7	-561.9	599.9	558.7	41.18	14.567		
8,600.0	7,435.0	7,432.5	7,425.6	32.0	13.6	-88.19	-760.7	-561.9	698.5	655.8	42.76	16.336		
8,700.0	7,435.0	7,431.7	7,424.8	33.5	13.6	-87.76	-760.7	-561.9	797.5	753.1	44.35	17.982		
8,800.0	7,435.0	7,430.8	7,423.9	35.1	13.6	-87.32	-760.7	-561.9	896.6	850.7	45.95	19.514		
8,900.0	7,435.0	7,430.0	7,423.1	36.6	13.6	-86.87	-760.7	-561.9	996.0	948.4	47.56	20.942		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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							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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,100.0	7,435.0	7,423.6	7,421.7	25.1	13.1	-89.96	-1,797.6	-250.9	945.1	910.0	35.07	26.953		
8,200.0	7,435.0	7,423.6	7,421.7	26.4	13.1	-89.96	-1,797.6	-250.9	856.6	820.1	36.54	23.444		
8,300.0	7,435.0	7,423.5	7,421.6	27.7	13.1	-89.95	-1,797.6	-250.9	771.0	733.0	38.05	20.262		
8,400.0	7,435.0	7,423.5	7,421.6	29.1	13.1	-89.94	-1,797.6	-250.9	689.3	649.7	39.59	17.408		
8,500.0	7,435.0	7,423.4	7,421.5	30.6	13.1	-89.93	-1,797.6	-250.9	612.9	571.8	41.16	14.892		
8,600.0	7,435.0	7,423.4	7,421.4	32.0	13.1	-89.92	-1,797.6	-250.9	544.3	501.6	42.75	12.734		
8,700.0	7,435.0	7,423.3	7,421.4	33.5	13.1	-89.92	-1,797.6	-250.9	486.7	442.4	44.35	10.975		
8,800.0	7,435.0	7,423.2	7,421.3	35.1	13.1	-89.91	-1,797.6	-250.9	444.5	398.5	45.97	9.668		
8,900.0	7,435.0	7,423.2	7,421.3	36.6	13.1	-89.90	-1,797.6	-250.9	422.1	374.5	47.60	8.867		
8,946.9	7,435.0	7,423.2	7,421.2	37.3	13.1	-89.90	-1,797.6	-250.9	419.5	371.1	48.37	8.671 CC, ES		
9,000.0	7,435.0	7,423.1	7,421.2	38.2	13.1	-89.89	-1,797.6	-250.9	422.8	373.6	49.25	8.585 SF		
9,100.0	7,435.0	7,423.1	7,421.2	39.7	13.1	-89.88	-1,797.6	-250.9	446.5	395.6	50.90	8.772		
9,200.0	7,435.0	7,423.0	7,421.1	41.3	13.1	-89.88	-1,797.6	-250.9	489.9	437.3	52.56	9.320		
9,300.0	7,435.0	7,423.0	7,421.0	42.9	13.1	-89.87	-1,797.6	-250.9	548.3	494.1	54.23	10.110		
9,400.0	7,435.0	7,422.9	7,421.0	44.5	13.1	-89.86	-1,797.6	-250.9	617.4	561.5	55.91	11.043		
9,500.0	7,435.0	7,422.8	7,420.9	46.2	13.1	-89.85	-1,797.6	-250.9	694.2	636.6	57.59	12.053		
9,600.0	7,435.0	7,422.8	7,420.9	47.8	13.1	-89.84	-1,797.6	-250.9	776.2	716.9	59.28	13.093		
9,700.0	7,435.0	7,422.7	7,420.8	49.4	13.1	-89.84	-1,797.6	-250.9	862.0	801.0	60.98	14.137		
9,800.0	7,435.0	7,422.7	7,420.7	51.1	13.1	-89.83	-1,797.6	-250.9	950.6	888.0	62.67	15.168		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,400.0	7,435.0	7,435.7	7,433.0	44.5	13.2	-90.35	-3,117.4	-347.4	924.9	868.9	55.94	16.532	
9,500.0	7,435.0	7,435.5	7,432.8	46.2	13.2	-90.32	-3,117.4	-347.4	831.9	774.3	57.63	14.436	
9,600.0	7,435.0	7,435.3	7,432.6	47.8	13.2	-90.28	-3,117.4	-347.4	740.8	681.4	59.31	12.489	
9,700.0	7,435.0	7,435.1	7,432.4	49.4	13.2	-90.25	-3,117.4	-347.4	652.2	591.2	61.01	10.691	
9,800.0	7,435.0	7,434.9	7,432.2	51.1	13.2	-90.21	-3,117.4	-347.4	567.5	504.8	62.70	9.051	
9,900.0	7,435.0	7,434.7	7,432.0	52.8	13.2	-90.18	-3,117.4	-347.4	488.6	424.2	64.40	7.587	
10,000.0	7,435.0	7,434.5	7,431.8	54.4	13.2	-90.14	-3,117.4	-347.4	418.8	352.7	66.11	6.335	
10,100.0	7,435.0	7,434.3	7,431.6	56.1	13.2	-90.11	-3,117.4	-347.4	363.4	295.6	67.81	5.359	
10,200.0	7,435.0	7,434.1	7,431.4	57.8	13.2	-90.07	-3,117.4	-347.4	329.8	260.3	69.52	4.743	
10,266.6	7,435.0	7,434.0	7,431.3	58.9	13.2	-90.05	-3,117.4	-347.4	323.0	252.3	70.66	4.571 CC, ES	
10,300.0	7,435.0	7,433.9	7,431.2	59.4	13.2	-90.04	-3,117.4	-347.4	324.7	253.5	71.24	4.558 SF	
10,400.0	7,435.0	7,433.7	7,431.0	61.1	13.2	-90.00	-3,117.4	-347.4	349.4	276.5	72.95	4.790	
10,500.0	7,435.0	7,433.5	7,430.8	62.8	13.2	-89.97	-3,117.4	-347.4	398.5	323.8	74.67	5.337	
10,600.0	7,435.0	7,433.3	7,430.6	64.5	13.2	-89.93	-3,117.4	-347.4	464.2	387.8	76.39	6.077	
10,700.0	7,435.0	7,433.1	7,430.4	66.2	13.2	-89.89	-3,117.4	-347.4	540.5	462.4	78.11	6.920	
10,800.0	7,435.0	7,432.9	7,430.2	67.9	13.2	-89.85	-3,117.4	-347.4	623.5	543.7	79.83	7.811	
10,900.0	7,435.0	7,432.7	7,430.0	69.6	13.2	-89.82	-3,117.4	-347.4	711.0	629.4	81.55	8.718	
11,000.0	7,435.0	7,432.5	7,429.8	71.3	13.2	-89.78	-3,117.4	-347.4	801.3	718.1	83.28	9.622	
11,100.0	7,435.0	7,432.2	7,429.5	73.0	13.2	-89.74	-3,117.4	-347.4	893.8	808.8	85.01	10.514	
11,200.0	7,435.0	7,432.0	7,429.3	74.7	13.2	-89.70	-3,117.4	-347.4	987.7	900.9	86.73	11.387	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 21-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
7,200.0	7,140.9	7,147.1	7,137.1	17.1	13.4	61.39	-585.6	-1,515.8	977.4	952.6	24.83	39.368		
7,300.0	7,217.1	7,223.3	7,213.3	17.6	13.5	68.30	-586.1	-1,515.7	943.8	918.5	25.28	37.337		
7,400.0	7,283.7	7,293.6	7,283.6	18.1	13.6	75.19	-586.5	-1,515.5	910.8	884.6	26.23	34.728		
7,500.0	7,339.4	7,350.3	7,340.3	18.8	13.7	81.30	-586.8	-1,515.1	881.5	854.0	27.45	32.117		
7,600.0	7,383.0	7,394.9	7,384.9	19.6	13.8	86.21	-587.1	-1,514.8	859.2	830.5	28.71	29.926		
7,700.0	7,413.8	7,426.9	7,416.9	20.5	13.8	89.51	-587.3	-1,514.6	847.0	817.1	29.92	28.311		
7,751.2	7,424.3	7,438.2	7,428.2	21.0	13.8	90.47	-587.4	-1,514.5	845.3	814.8	30.53	27.689 CC, ES		
7,800.0	7,431.1	7,445.5	7,435.5	21.5	13.8	90.89	-587.5	-1,514.5	846.9	815.8	31.09	27.240		
7,900.0	7,435.0	7,450.5	7,440.5	22.6	13.9	90.58	-587.6	-1,514.4	859.7	827.4	32.33	26.590		
8,000.0	7,435.0	7,451.5	7,441.5	23.8	13.9	90.64	-587.6	-1,514.4	884.2	850.5	33.71	26.227		
8,100.0	7,435.0	7,452.4	7,442.4	25.1	13.9	90.71	-587.6	-1,514.4	918.9	883.8	35.15	26.146 SF		
8,200.0	7,435.0	7,453.4	7,443.4	26.4	13.9	90.77	-587.6	-1,514.4	962.8	926.2	36.62	26.291		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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 22-19 - ENCANA - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8320-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,500.0	7,435.0	7,428.0	7,428.0	30.6	13.0	90.00	-1,896.8	-1,440.7	944.2	903.1	41.17	22.936		
8,600.0	7,435.0	7,428.0	7,428.0	32.0	13.0	90.00	-1,896.8	-1,440.7	890.1	847.4	42.76	20.819		
8,700.0	7,435.0	7,428.0	7,428.0	33.5	13.0	90.00	-1,896.8	-1,440.7	844.5	800.1	44.36	19.037		
8,800.0	7,435.0	7,428.0	7,428.0	35.1	13.0	90.00	-1,896.8	-1,440.7	808.7	762.7	45.98	17.587		
8,900.0	7,435.0	7,428.0	7,428.0	36.6	13.0	90.00	-1,896.8	-1,440.7	784.0	736.4	47.61	16.467		
9,000.0	7,435.0	7,428.0	7,428.0	38.2	13.0	90.00	-1,896.8	-1,440.7	771.7	722.4	49.26	15.666		
9,046.0	7,435.0	7,428.0	7,428.0	38.9	13.0	90.00	-1,896.8	-1,440.7	770.3	720.3	50.02	15.400 CC, ES		
9,100.0	7,435.0	7,428.0	7,428.0	39.7	13.0	90.00	-1,896.8	-1,440.7	772.2	721.3	50.91	15.168		
9,200.0	7,435.0	7,428.0	7,428.0	41.3	13.0	90.00	-1,896.8	-1,440.7	785.6	733.0	52.57	14.942 SF		
9,300.0	7,435.0	7,428.0	7,428.0	42.9	13.0	90.00	-1,896.8	-1,440.7	811.1	756.9	54.25	14.953		
9,400.0	7,435.0	7,428.0	7,428.0	44.5	13.0	90.00	-1,896.8	-1,440.7	847.8	791.8	55.92	15.160		
9,500.0	7,435.0	7,428.0	7,428.0	46.2	13.0	90.00	-1,896.8	-1,440.7	894.1	836.5	57.61	15.522		
9,600.0	7,435.0	7,428.0	7,428.0	47.8	13.0	90.00	-1,896.8	-1,440.7	948.8	889.5	59.29	16.002		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	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)					
7,700.0	7,413.8	7,781.5	7,445.5	20.5	36.1	41.84	-1,440.4	-873.5	911.4	888.8	22.62	40.293	
7,800.0	7,431.1	7,796.7	7,460.7	21.5	36.1	69.04	-1,440.2	-873.6	815.2	782.3	32.94	24.748	
7,900.0	7,435.0	7,799.3	7,463.3	22.6	36.1	91.77	-1,440.2	-873.7	718.8	681.6	37.21	19.319	
8,000.0	7,435.0	7,798.2	7,462.2	23.8	36.1	91.46	-1,440.2	-873.7	623.6	585.0	38.59	16.160	
8,100.0	7,435.0	7,797.1	7,461.0	25.1	36.1	91.14	-1,440.2	-873.7	530.0	490.0	40.02	13.246	
8,200.0	7,435.0	7,795.9	7,459.9	26.4	36.1	90.81	-1,440.2	-873.6	439.4	397.9	41.49	10.590	
8,300.0	7,435.0	7,794.8	7,458.7	27.7	36.1	90.48	-1,440.2	-873.6	353.7	310.7	42.99	8.228	
8,400.0	7,435.0	7,793.6	7,457.5	29.1	36.1	90.15	-1,440.3	-873.6	277.9	233.4	44.53	6.241	
8,500.0	7,435.0	7,792.4	7,456.3	30.6	36.1	89.80	-1,440.3	-873.6	222.1	176.0	46.09	4.819	
8,589.5	7,435.0	7,791.2	7,455.2	31.9	36.1	89.49	-1,440.3	-873.6	203.2	155.7	47.50	4.279 CC, ES	
8,600.0	7,435.0	7,791.1	7,455.1	32.0	36.1	89.45	-1,440.3	-873.6	203.5	155.8	47.66	4.270 SF	
8,700.0	7,435.0	7,789.8	7,453.8	33.5	36.1	89.09	-1,440.3	-873.6	231.3	182.1	49.25	4.696	
8,800.0	7,435.0	7,788.6	7,452.5	35.1	36.1	88.73	-1,440.3	-873.6	292.6	241.7	50.86	5.752	
8,900.0	7,435.0	7,787.2	7,451.2	36.6	36.1	88.36	-1,440.3	-873.6	371.0	318.6	52.48	7.071	
9,000.0	7,435.0	7,785.9	7,449.8	38.2	36.1	87.98	-1,440.3	-873.6	458.0	403.9	54.10	8.466	
9,100.0	7,435.0	7,784.5	7,448.5	39.7	36.1	87.60	-1,440.4	-873.5	549.4	493.7	55.73	9.858	
9,200.0	7,435.0	7,783.1	7,447.1	41.3	36.1	87.20	-1,440.4	-873.5	643.3	586.0	57.36	11.215	
9,300.0	7,435.0	7,781.7	7,445.6	42.9	36.1	86.80	-1,440.4	-873.5	738.9	679.9	59.00	12.523	
9,400.0	7,435.0	7,780.2	7,444.2	44.5	36.1	86.39	-1,440.4	-873.5	835.5	774.8	60.64	13.777	
9,500.0	7,435.0	7,778.8	7,442.7	46.2	36.1	85.98	-1,440.4	-873.5	932.8	870.5	62.28	14.976	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1A-19H-B268
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 1A-19H-B268	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

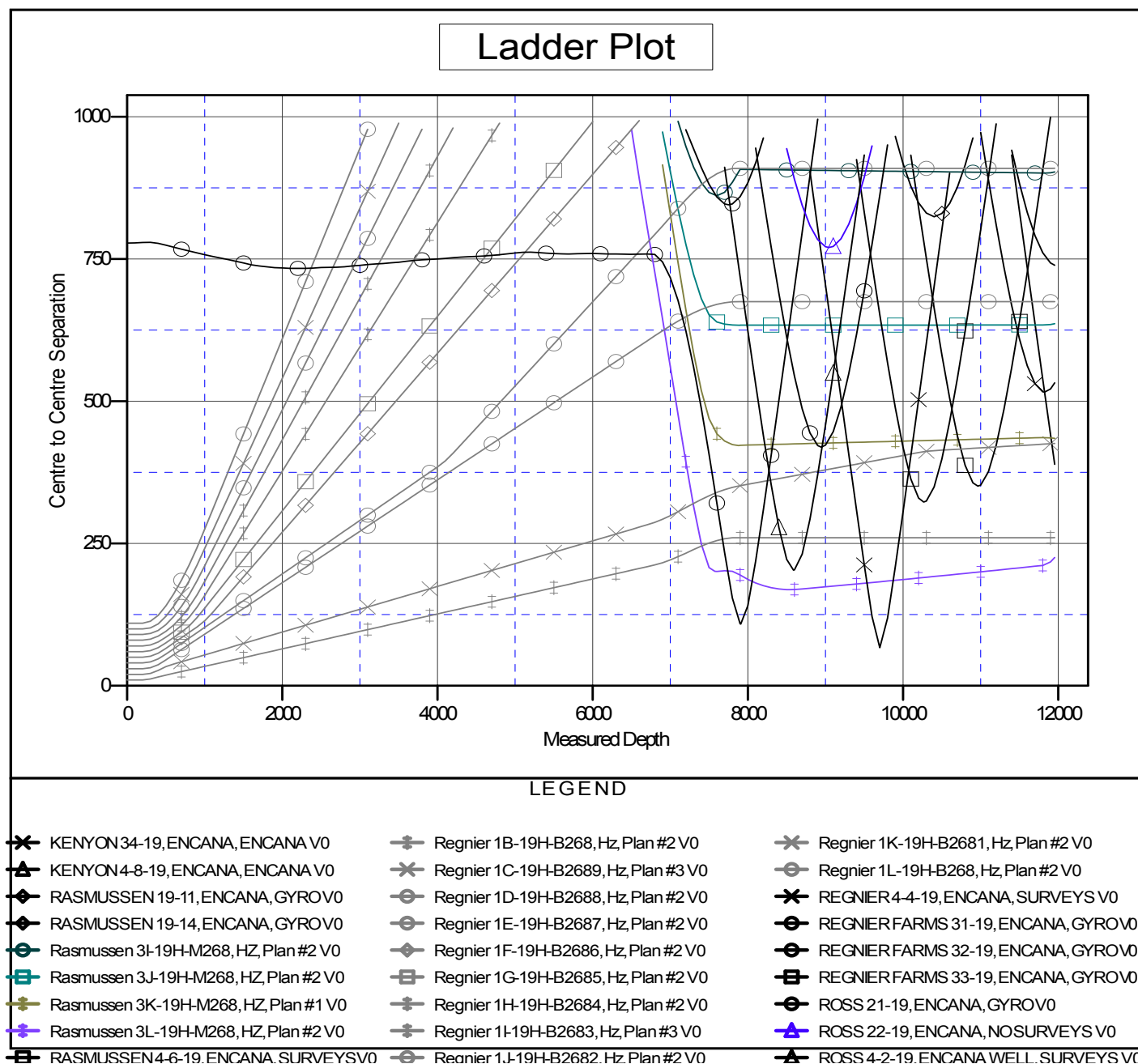
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Regnier 1A-19H-B268

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