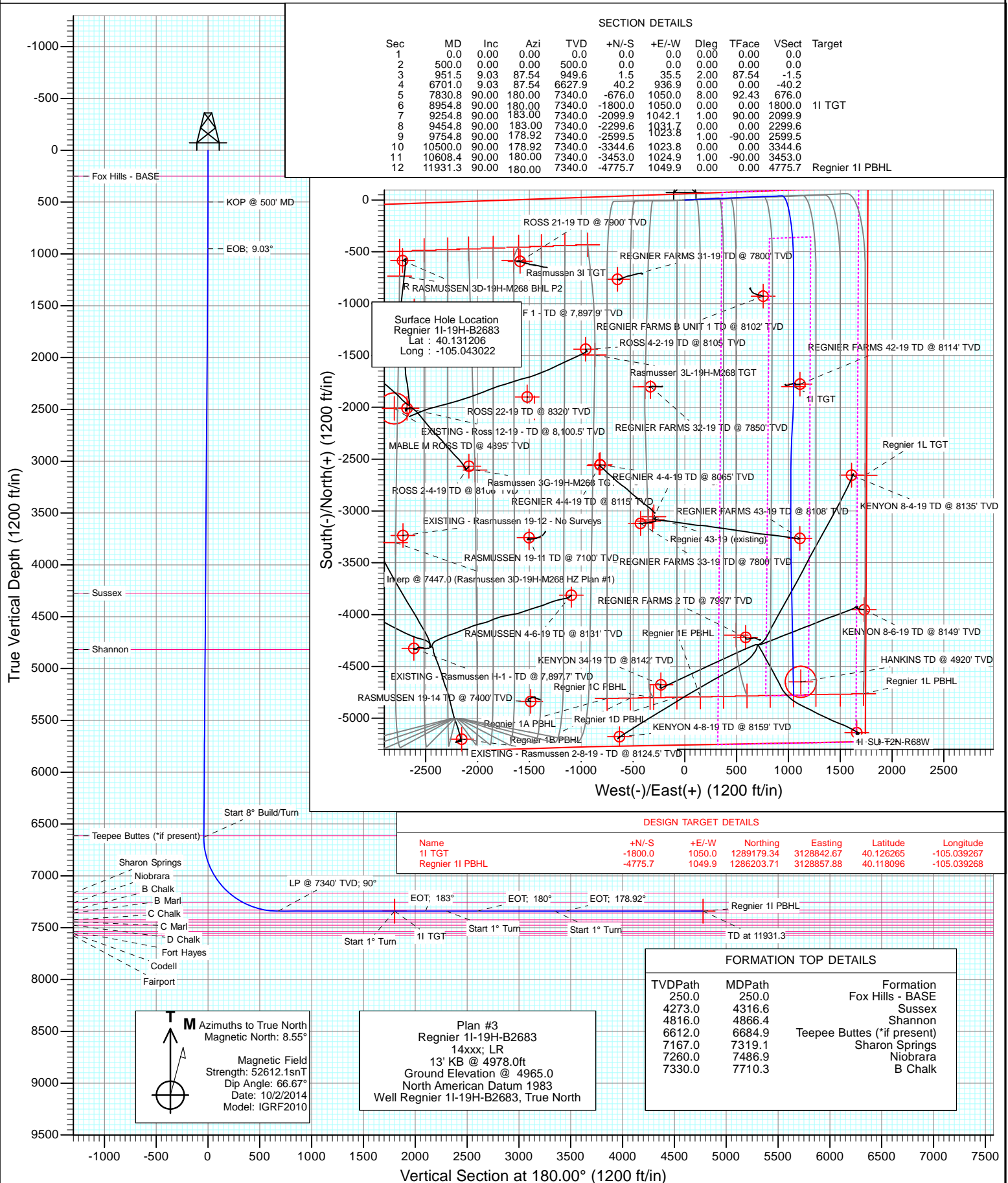




Project: DJ Wattenberg
Site: S19-T2N-R68W (Rasmussen/Regnier)
Well: Regnier 11-19H-B2683
Vellbore: Hz
Design: Plan #3



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1I-19H-B2683
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 1I-19H-B2683	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 1I-19H-B2683					
Well Position	+N/-S	0.0 ft	Northing:	1,290,973.91 ft	Latitude:	40.131206
	+E/-W	0.0 ft	Easting:	3,127,783.41 ft	Longitude:	-105.043022
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	180.00	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
951.5	9.03	87.54	949.6	1.5	35.5	2.00	2.00	0.00	87.54	
6,701.0	9.03	87.54	6,627.9	40.2	936.9	0.00	0.00	0.00	0.00	
7,830.8	90.00	180.00	7,340.0	-676.0	1,050.0	8.00	7.17	8.18	92.43	
8,954.8	90.00	180.00	7,340.0	-1,800.0	1,050.0	0.00	0.00	0.00	0.00	1I TGT
9,254.8	90.00	183.00	7,340.0	-2,099.9	1,042.1	1.00	0.00	1.00	90.00	
9,454.8	90.00	183.00	7,340.0	-2,299.6	1,031.7	0.00	0.00	0.00	0.00	
9,754.8	90.00	180.00	7,340.0	-2,599.5	1,023.8	1.00	0.00	-1.00	-90.00	
10,500.0	90.00	180.00	7,340.0	-3,344.6	1,023.8	0.00	0.00	0.00	0.00	
10,608.4	90.00	178.92	7,340.0	-3,453.0	1,024.9	1.00	0.00	-1.00	-90.00	
11,931.3	90.00	178.92	7,340.0	-4,775.7	1,049.9	0.00	0.00	0.00	0.00	Regnier 1I PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500' MD
600.0	2.00	87.54	600.0	0.1	1.7	-0.1	2.00	2.00	
700.0	4.00	87.54	699.8	0.3	7.0	-0.3	2.00	2.00	
800.0	6.00	87.54	799.5	0.7	15.7	-0.7	2.00	2.00	
900.0	8.00	87.54	898.7	1.2	27.9	-1.2	2.00	2.00	
951.5	9.03	87.54	949.6	1.5	35.5	-1.5	2.00	2.00	EOB; 9.03°
1,000.0	9.03	87.54	997.5	1.8	43.1	-1.8	0.00	0.00	
1,100.0	9.03	87.54	1,096.3	2.5	58.8	-2.5	0.00	0.00	
1,200.0	9.03	87.54	1,195.1	3.2	74.4	-3.2	0.00	0.00	
1,300.0	9.03	87.54	1,293.8	3.9	90.1	-3.9	0.00	0.00	
1,400.0	9.03	87.54	1,392.6	4.5	105.8	-4.5	0.00	0.00	
1,500.0	9.03	87.54	1,491.3	5.2	121.5	-5.2	0.00	0.00	
1,600.0	9.03	87.54	1,590.1	5.9	137.2	-5.9	0.00	0.00	
1,700.0	9.03	87.54	1,688.9	6.6	152.8	-6.6	0.00	0.00	
1,800.0	9.03	87.54	1,787.6	7.2	168.5	-7.2	0.00	0.00	
1,900.0	9.03	87.54	1,886.4	7.9	184.2	-7.9	0.00	0.00	
2,000.0	9.03	87.54	1,985.1	8.6	199.9	-8.6	0.00	0.00	
2,100.0	9.03	87.54	2,083.9	9.2	215.5	-9.2	0.00	0.00	
2,200.0	9.03	87.54	2,182.7	9.9	231.2	-9.9	0.00	0.00	
2,300.0	9.03	87.54	2,281.4	10.6	246.9	-10.6	0.00	0.00	
2,400.0	9.03	87.54	2,380.2	11.3	262.6	-11.3	0.00	0.00	
2,500.0	9.03	87.54	2,478.9	11.9	278.3	-11.9	0.00	0.00	
2,600.0	9.03	87.54	2,577.7	12.6	293.9	-12.6	0.00	0.00	
2,700.0	9.03	87.54	2,676.5	13.3	309.6	-13.3	0.00	0.00	
2,800.0	9.03	87.54	2,775.2	14.0	325.3	-14.0	0.00	0.00	
2,900.0	9.03	87.54	2,874.0	14.6	341.0	-14.6	0.00	0.00	
3,000.0	9.03	87.54	2,972.7	15.3	356.7	-15.3	0.00	0.00	
3,100.0	9.03	87.54	3,071.5	16.0	372.3	-16.0	0.00	0.00	
3,200.0	9.03	87.54	3,170.3	16.6	388.0	-16.6	0.00	0.00	
3,300.0	9.03	87.54	3,269.0	17.3	403.7	-17.3	0.00	0.00	
3,400.0	9.03	87.54	3,367.8	18.0	419.4	-18.0	0.00	0.00	
3,500.0	9.03	87.54	3,466.6	18.7	435.1	-18.7	0.00	0.00	
3,600.0	9.03	87.54	3,565.3	19.3	450.7	-19.3	0.00	0.00	
3,700.0	9.03	87.54	3,664.1	20.0	466.4	-20.0	0.00	0.00	
3,800.0	9.03	87.54	3,762.8	20.7	482.1	-20.7	0.00	0.00	
3,900.0	9.03	87.54	3,861.6	21.3	497.8	-21.3	0.00	0.00	
4,000.0	9.03	87.54	3,960.4	22.0	513.5	-22.0	0.00	0.00	
4,100.0	9.03	87.54	4,059.1	22.7	529.1	-22.7	0.00	0.00	
4,200.0	9.03	87.54	4,157.9	23.4	544.8	-23.4	0.00	0.00	
4,300.0	9.03	87.54	4,256.6	24.0	560.5	-24.0	0.00	0.00	
4,316.6	9.03	87.54	4,273.0	24.1	563.1	-24.1	0.00	0.00	Sussex
4,400.0	9.03	87.54	4,355.4	24.7	576.2	-24.7	0.00	0.00	
4,500.0	9.03	87.54	4,454.2	25.4	591.8	-25.4	0.00	0.00	
4,600.0	9.03	87.54	4,552.9	26.1	607.5	-26.1	0.00	0.00	
4,700.0	9.03	87.54	4,651.7	26.7	623.2	-26.7	0.00	0.00	
4,800.0	9.03	87.54	4,750.4	27.4	638.9	-27.4	0.00	0.00	

Cathedral Energy Services

Planning Report

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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 1I-19H-B2683	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
4,866.4	9.03	87.54	4,816.0	27.8	649.3	-27.8	0.00	0.00	Shannon
4,900.0	9.03	87.54	4,849.2	28.1	654.6	-28.1	0.00	0.00	
5,000.0	9.03	87.54	4,948.0	28.7	670.2	-28.7	0.00	0.00	
5,100.0	9.03	87.54	5,046.7	29.4	685.9	-29.4	0.00	0.00	
5,200.0	9.03	87.54	5,145.5	30.1	701.6	-30.1	0.00	0.00	
5,300.0	9.03	87.54	5,244.3	30.8	717.3	-30.8	0.00	0.00	
5,400.0	9.03	87.54	5,343.0	31.4	733.0	-31.4	0.00	0.00	
5,500.0	9.03	87.54	5,441.8	32.1	748.6	-32.1	0.00	0.00	
5,600.0	9.03	87.54	5,540.5	32.8	764.3	-32.8	0.00	0.00	
5,700.0	9.03	87.54	5,639.3	33.5	780.0	-33.5	0.00	0.00	
5,800.0	9.03	87.54	5,738.1	34.1	795.7	-34.1	0.00	0.00	
5,900.0	9.03	87.54	5,836.8	34.8	811.4	-34.8	0.00	0.00	
6,000.0	9.03	87.54	5,935.6	35.5	827.0	-35.5	0.00	0.00	
6,100.0	9.03	87.54	6,034.3	36.1	842.7	-36.1	0.00	0.00	
6,200.0	9.03	87.54	6,133.1	36.8	858.4	-36.8	0.00	0.00	
6,300.0	9.03	87.54	6,231.9	37.5	874.1	-37.5	0.00	0.00	
6,400.0	9.03	87.54	6,330.6	38.2	889.8	-38.2	0.00	0.00	
6,500.0	9.03	87.54	6,429.4	38.8	905.4	-38.8	0.00	0.00	
6,600.0	9.03	87.54	6,528.1	39.5	921.1	-39.5	0.00	0.00	
6,684.9	9.03	87.54	6,612.0	40.1	934.4	-40.1	0.00	0.00	
6,700.0	9.03	87.54	6,626.9	40.2	936.8	-40.2	0.00	0.00	
6,701.0	9.03	87.54	6,627.9	40.2	936.9	-40.2	0.00	0.00	Start 8° Build/Turn
6,800.0	11.73	130.15	6,725.4	34.0	952.4	-34.0	8.00	2.73	
6,900.0	17.91	150.57	6,822.1	14.0	967.8	-14.0	8.00	6.17	
7,000.0	25.11	160.20	6,915.1	-19.4	982.5	19.4	8.00	7.20	
7,100.0	32.67	165.67	7,002.6	-65.6	996.4	65.6	8.00	7.56	
7,200.0	40.38	169.24	7,082.9	-123.6	1,009.2	123.6	8.00	7.71	
7,300.0	48.18	171.83	7,154.4	-192.5	1,020.5	192.5	8.00	7.79	
7,319.1	49.67	172.26	7,167.0	-206.7	1,022.5	206.7	8.00	7.83	
7,400.0	56.02	173.86	7,215.8	-270.7	1,030.3	270.7	8.00	7.84	Niobrara
7,486.9	62.85	175.33	7,260.0	-345.1	1,037.3	345.1	8.00	7.87	
7,500.0	63.89	175.54	7,265.9	-356.8	1,038.2	356.8	8.00	7.88	
7,600.0	71.77	177.00	7,303.6	-449.1	1,044.2	449.1	8.00	7.88	
7,700.0	79.66	178.34	7,328.2	-545.9	1,048.1	545.9	8.00	7.89	
7,710.3	80.47	178.47	7,330.0	-556.0	1,048.4	556.0	8.00	7.90	
7,800.0	87.56	179.61	7,339.3	-645.2	1,049.9	645.2	8.00	7.90	B Chalk
7,830.8	90.00	180.00	7,340.0	-676.0	1,050.0	676.0	8.00	7.90	
7,900.0	90.00	180.00	7,340.0	-745.2	1,050.0	745.2	0.00	0.00	
8,000.0	90.00	180.00	7,340.0	-845.2	1,050.0	845.2	0.00	0.00	
8,100.0	90.00	180.00	7,340.0	-945.2	1,050.0	945.2	0.00	0.00	
8,200.0	90.00	180.00	7,340.0	-1,045.2	1,050.0	1,045.2	0.00	0.00	
8,300.0	90.00	180.00	7,340.0	-1,145.2	1,050.0	1,145.2	0.00	0.00	
8,400.0	90.00	180.00	7,340.0	-1,245.2	1,050.0	1,245.2	0.00	0.00	
8,500.0	90.00	180.00	7,340.0	-1,345.2	1,050.0	1,345.2	0.00	0.00	
8,600.0	90.00	180.00	7,340.0	-1,445.2	1,050.0	1,445.2	0.00	0.00	
8,700.0	90.00	180.00	7,340.0	-1,545.2	1,050.0	1,545.2	0.00	0.00	
8,800.0	90.00	180.00	7,340.0	-1,645.2	1,050.0	1,645.2	0.00	0.00	
8,900.0	90.00	180.00	7,340.0	-1,745.2	1,050.0	1,745.2	0.00	0.00	
8,954.8	90.00	180.00	7,340.0	-1,800.0	1,050.0	1,800.0	0.00	0.00	
9,000.0	90.00	180.45	7,340.0	-1,845.2	1,049.8	1,845.2	1.00	0.00	
9,100.0	90.00	181.45	7,340.0	-1,945.2	1,048.2	1,945.2	1.00	0.00	Start 1° Turn
9,200.0	90.00	182.45	7,340.0	-2,045.1	1,044.8	2,045.1	1.00	0.00	

Cathedral Energy Services

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1I-19H-B2683	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
9,254.8	90.00	183.00	7,340.0	-2,099.9	1,042.1	2,099.9	1.00	0.00	EOT; 183°
9,300.0	90.00	183.00	7,340.0	-2,145.0	1,039.8	2,145.0	0.00	0.00	
9,400.0	90.00	183.00	7,340.0	-2,244.8	1,034.6	2,244.8	0.00	0.00	
9,454.8	90.00	183.00	7,340.0	-2,299.6	1,031.7	2,299.6	0.00	0.00	Start 1° Turn
9,500.0	90.00	182.55	7,340.0	-2,344.7	1,029.5	2,344.7	1.00	0.00	
9,600.0	90.00	181.55	7,340.0	-2,444.6	1,025.9	2,444.6	1.00	0.00	
9,700.0	90.00	180.55	7,340.0	-2,544.6	1,024.1	2,544.6	1.00	0.00	
9,754.8	90.00	180.00	7,340.0	-2,599.5	1,023.8	2,599.5	1.00	0.00	EOT; 180°
9,800.0	90.00	180.00	7,340.0	-2,644.6	1,023.8	2,644.6	0.00	0.00	
9,900.0	90.00	180.00	7,340.0	-2,744.6	1,023.8	2,744.6	0.00	0.00	
10,000.0	90.00	180.00	7,340.0	-2,844.6	1,023.8	2,844.6	0.00	0.00	
10,100.0	90.00	180.00	7,340.0	-2,944.6	1,023.8	2,944.6	0.00	0.00	
10,200.0	90.00	180.00	7,340.0	-3,044.6	1,023.8	3,044.6	0.00	0.00	
10,300.0	90.00	180.00	7,340.0	-3,144.6	1,023.8	3,144.6	0.00	0.00	
10,400.0	90.00	180.00	7,340.0	-3,244.6	1,023.8	3,244.6	0.00	0.00	
10,500.0	90.00	180.00	7,340.0	-3,344.6	1,023.8	3,344.6	0.00	0.00	Start 1° Turn
10,600.0	90.00	179.00	7,340.0	-3,444.6	1,024.7	3,444.6	1.00	0.00	
10,608.4	90.00	178.92	7,340.0	-3,453.0	1,024.9	3,453.0	1.00	0.00	EOT; 178.92°
10,700.0	90.00	178.92	7,340.0	-3,544.6	1,026.6	3,544.6	0.00	0.00	
10,800.0	90.00	178.92	7,340.0	-3,644.6	1,028.5	3,644.6	0.00	0.00	
10,900.0	90.00	178.92	7,340.0	-3,744.6	1,030.4	3,744.6	0.00	0.00	
11,000.0	90.00	178.92	7,340.0	-3,844.5	1,032.3	3,844.5	0.00	0.00	
11,100.0	90.00	178.92	7,340.0	-3,944.5	1,034.2	3,944.5	0.00	0.00	
11,200.0	90.00	178.92	7,340.0	-4,044.5	1,036.0	4,044.5	0.00	0.00	
11,300.0	90.00	178.92	7,340.0	-4,144.5	1,037.9	4,144.5	0.00	0.00	
11,400.0	90.00	178.92	7,340.0	-4,244.5	1,039.8	4,244.5	0.00	0.00	
11,500.0	90.00	178.92	7,340.0	-4,344.5	1,041.7	4,344.5	0.00	0.00	
11,600.0	90.00	178.92	7,340.0	-4,444.4	1,043.6	4,444.4	0.00	0.00	
11,700.0	90.00	178.92	7,340.0	-4,544.4	1,045.5	4,544.4	0.00	0.00	
11,800.0	90.00	178.92	7,340.0	-4,644.4	1,047.4	4,644.4	0.00	0.00	
11,900.0	90.00	178.92	7,340.0	-4,744.4	1,049.3	4,744.4	0.00	0.00	
11,931.3	90.00	178.92	7,340.0	-4,775.7	1,049.9	4,775.7	0.00	0.00	TD at 11931.3

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
1I TGT - plan hits target center - Point	0.00	0.00	7,340.0	-1,800.0	1,050.0	1,289,179.34	3,128,842.67	40.126265	-105.039267
Regnier 1I PBHL - plan hits target center - Point	0.00	0.30	7,340.0	-4,775.7	1,049.9	1,286,203.71	3,128,857.88	40.118096	-105.039268

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1I-19H-B2683
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 1I-19H-B2683	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				
4,316.6	4,273.0	Sussex				
4,866.4	4,816.0	Shannon				
6,684.9	6,612.0	Teepee Buttes (*if present)				
7,319.1	7,167.0	Sharon Springs				
7,486.9	7,260.0	Niobrara				
7,710.3	7,330.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
500.0	500.0	0.0	0.0	KOP @ 500' MD	
951.5	949.6	1.5	35.5	EOB; 9.03°	
6,701.0	6,627.9	40.2	936.9	Start 8° Build/Turn	
7,830.8	7,340.0	-676.0	1,050.0	LP @ 7340' TVD; 90°	
8,954.8	7,340.0	-1,800.0	1,050.0	Start 1° Turn	
9,254.8	7,340.0	-2,099.9	1,042.1	EOT; 183°	
9,454.8	7,340.0	-2,299.6	1,031.7	Start 1° Turn	
9,754.8	7,340.0	-2,599.5	1,023.8	EOT; 180°	
10,500.0	7,340.0	-3,344.6	1,023.8	Start 1° Turn	
10,608.4	7,340.0	-3,453.0	1,024.9	EOT; 178.92°	
11,931.3	7,340.0	-4,775.7	1,049.9	TD at 11931.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1I-19H-B2683

Hz

Plan #3

Anticollision Report

08 January, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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	1/8/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,931.3	Plan #3 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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						Out of range
KENYON 4-8-19 - ENCANA - ENCANA						Out of range
KENYON 8-4-19 - ENCANA - SURVEYS	9,807.8	7,750.2	595.5	513.7	7.284	CC, ES
KENYON 8-4-19 - ENCANA - SURVEYS	9,900.0	7,751.4	602.6	519.3	7.233	SF
KENYON 8-6-19 - ENCANA - SURVEYS	11,099.1	7,484.9	608.9	522.3	7.031	CC
KENYON 8-6-19 - ENCANA - SURVEYS	11,100.0	7,484.9	608.9	522.3	7.030	ES
KENYON 8-6-19 - ENCANA - SURVEYS	11,200.0	7,486.8	617.2	528.8	6.986	SF
KENYON 8-8-19 - ENCANA - SURVEYS	11,931.3	7,555.0	711.3	604.2	6.645	CC, ES, SF
LABER 44-24 - ENCANA - NO SURVEYS						Out of range
MABLE M ROSS 1 - AMOCO WELL - NO SURVEYS						Out of range
RASMUSSEN 0-4-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN 0-6-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN 19-11 - ENCANA - GYRO						Out of range
RASMUSSEN 19-12 - ENCANA - NO SURVEYS						Out of range
RASMUSSEN 19-14 - ENCANA - GYRO						Out of range
RASMUSSEN 2-8-19 - ENCANA WELL - SURVEYS						Out of range
Rasmussen 3A-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3B-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3C-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3D-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3E-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3F-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3G-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3H-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3I-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3J-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3K-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3L-19H-M268 - HZ - Plan #2						Out of range
RASMUSSEN 4-6-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN H UNIT 1 - ENCANA - GYRO						Out of range
Regnier 1A-19H-B268 - Hz - Plan #3	200.0	200.0	80.0	79.4	122.615	CC, ES
Regnier 1A-19H-B268 - Hz - Plan #3	700.0	689.8	120.9	118.6	50.936	SF
Regnier 1B-19H-B268 - Hz - Plan #2	300.0	300.0	70.0	68.9	69.823	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	700.0	694.3	96.4	94.0	40.431	SF
Regnier 1C-19H-B2689 - Hz - Plan #4	400.0	400.0	60.2	58.8	44.531	CC, ES
Regnier 1C-19H-B2689 - Hz - Plan #4	700.0	696.9	76.8	74.4	32.166	SF
Regnier 1D-19H-B2688 - Hz - Plan #2	500.0	500.0	50.1	48.4	29.462	CC, ES
Regnier 1D-19H-B2688 - Hz - Plan #2	700.0	699.6	57.8	55.4	24.131	SF
Regnier 1E-19H-B2687 - Hz - Plan #2	500.0	500.0	40.0	38.3	23.537	CC, ES
Regnier 1E-19H-B2687 - Hz - Plan #2	11,931.3	12,043.1	928.2	760.0	5.520	SF
Regnier 1F-19H-B2686 - Hz - Plan #2	500.0	500.0	29.9	28.2	17.612	CC, ES
Regnier 1F-19H-B2686 - Hz - Plan #2	11,931.3	11,841.9	675.1	502.1	3.902	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	500.0	500.0	20.1	18.4	11.851	CC, ES
Regnier 1G-19H-B2685 - Hz - Plan #2	11,931.3	11,962.7	460.3	290.5	2.711	SF
Regnier 1H-19H-B2684 - Hz - Plan #2	500.0	500.0	10.1	8.4	5.925	CC, ES
Regnier 1H-19H-B2684 - Hz - Plan #2	11,931.3	12,120.1	319.0	193.7	2.545	SF
Regnier 1J-19H-B2682 - Hz - Plan #2	400.0	400.0	10.1	8.7	7.456	CC, ES
Regnier 1J-19H-B2682 - Hz - Plan #2	11,931.3	12,057.8	235.1	76.1	1.478	Level 3, SF
Regnier 1K-19H-B2681 - Hz - Plan #2	300.0	300.0	19.9	18.9	19.830	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	11,931.3	12,228.3	503.6	347.9	3.235	SF
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	29.9	29.3	45.865	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	11,931.3	12,065.8	675.2	501.9	3.895	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 11-19H-B2683
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 11-19H-B2683	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		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (ft)	Between Ellipses (ft)		
S19-T2N-R68W (Rasmussen/Regnier)						
REGNIER 4-4-19 - ENCANA - SURVEYS						Out of range
REGNIER FARMS 2 - ENCANA - GYRO	11,370.6	7,353.1	451.2	361.5	5.026	CC, ES
REGNIER FARMS 2 - ENCANA - GYRO	11,400.0	7,352.8	452.2	361.9	5.009	SF
REGNIER FARMS 31-19 - ENCANA - GYRO	0.0	0.0	817.8			
REGNIER FARMS 31-19 - ENCANA - GYRO	100.0	89.2	818.0	817.7	2,657.486	ES
REGNIER FARMS 31-19 - ENCANA - GYRO	2,200.0	2,131.6	995.5	987.0	116.028	SF
REGNIER FARMS 32-19 - ENCANA - GYRO						Out of range
REGNIER FARMS 33-19 - ENCANA - GYRO						Out of range
REGNIER FARMS 42-19 - ENCANA - GYRO	8,934.8	7,320.9	80.0	32.2	1.672	CC, ES, SF
REGNIER FARMS 43-19 - ENCANA - SURVEYS	10,423.0	7,576.9	80.3	6.4	1.086	Level 2, CC, ES, SF
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,003.2	7,328.0	415.0	381.5	12.386	CC, ES
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,100.0	7,328.3	426.1	391.2	12.214	SF
ROSS 0-2-19 - ENCANA - SURVEYS						Out of range
ROSS 11-19 - ENCANA - SURVEYS						Out of range
Ross 12-19 - ENCANA - SURVEYS						Out of range
ROSS 12-19 - ENCANA - SURVEYS						Out of range
ROSS 21-19 - ENCANA - GYRO						Out of range
ROSS 22-19 - ENCANA - NO SURVEYS						Out of range
ROSS 2-4-19 - ENCANA - SURVEYS						Out of range
ROSS 41-24 - ENCANA - NO SURVEYS						Out of range
ROSS 4-2-19 - ENCANA WELL - SURVEYS						Out of range
ROSS F 1 - ENCANA - GYRO						Out of range
STROMQUIST 43-24 - ENCANA - NO SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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 8-4-19 - ENCANA - SURVEYS													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		
9,000.0	7,340.0	7,739.1	7,361.5	40.7	35.8	-89.35	-2,652.3	1,619.4	987.9	919.7	68.18	14.489		
9,100.0	7,340.0	7,740.5	7,362.8	42.1	35.8	-89.50	-2,652.3	1,619.4	909.1	839.3	69.78	13.027		
9,200.0	7,340.0	7,741.8	7,364.2	43.6	35.8	-89.64	-2,652.3	1,619.4	836.0	764.7	71.37	11.714		
9,300.0	7,340.0	7,743.2	7,365.6	45.1	35.8	-89.77	-2,652.4	1,619.4	770.3	697.3	72.99	10.554		
9,400.0	7,340.0	7,744.6	7,367.0	46.6	35.8	-89.90	-2,652.4	1,619.3	712.8	638.1	74.66	9.547		
9,500.0	7,340.0	7,746.0	7,368.3	48.1	35.8	-90.03	-2,652.4	1,619.3	665.3	588.9	76.38	8.710		
9,600.0	7,340.0	7,747.3	7,369.7	49.6	35.8	-90.16	-2,652.4	1,619.3	628.7	550.6	78.15	8.046		
9,700.0	7,340.0	7,748.7	7,371.1	51.2	35.8	-90.29	-2,652.4	1,619.3	604.9	525.0	79.90	7.571		
9,800.0	7,340.0	7,750.1	7,372.4	52.8	35.8	-90.43	-2,652.5	1,619.3	595.5	513.9	81.62	7.297		
9,807.8	7,340.0	7,750.2	7,372.5	52.9	35.8	-90.44	-2,652.5	1,619.3	595.5	513.7	81.75	7.284 CC, ES		
9,900.0	7,340.0	7,751.4	7,373.8	54.4	35.8	-90.56	-2,652.5	1,619.3	602.6	519.3	83.31	7.233 SF		
10,000.0	7,340.0	7,752.8	7,375.1	56.0	35.8	-90.69	-2,652.5	1,619.3	625.7	540.7	85.02	7.360		
10,100.0	7,340.0	7,754.1	7,376.5	57.6	35.8	-90.82	-2,652.5	1,619.3	663.3	576.6	86.72	7.649		
10,200.0	7,340.0	7,755.5	7,377.8	59.3	35.8	-90.95	-2,652.5	1,619.3	713.0	624.6	88.43	8.063		
10,300.0	7,340.0	7,756.8	7,379.2	60.9	35.8	-91.08	-2,652.5	1,619.2	772.5	682.4	90.13	8.571		
10,400.0	7,340.0	7,758.2	7,380.6	62.5	35.8	-91.21	-2,652.6	1,619.2	839.8	747.9	91.84	9.143		
10,500.0	7,340.0	7,759.6	7,381.9	64.2	35.8	-91.34	-2,652.6	1,619.2	913.0	819.5	93.56	9.759		
10,600.0	7,340.0	7,760.9	7,383.3	65.8	35.8	-91.44	-2,652.6	1,619.2	990.4	895.1	95.31	10.392		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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 8-6-19 - ENCANA - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 91-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
10,400.0	7,340.0	7,472.5	7,338.0	62.5	22.0	-87.22	-3,931.8	1,642.3	925.0	850.7	74.33	12.444	
10,500.0	7,340.0	7,474.2	7,339.6	64.2	22.0	-87.37	-3,931.8	1,642.4	853.4	777.3	76.06	11.220	
10,600.0	7,340.0	7,475.9	7,341.3	65.8	22.0	-87.49	-3,931.9	1,642.4	787.2	709.3	77.95	10.099	
10,700.0	7,340.0	7,477.6	7,343.1	67.5	22.0	-87.65	-3,931.9	1,642.5	728.0	648.3	79.69	9.135	
10,800.0	7,340.0	7,479.4	7,344.8	69.2	22.0	-87.82	-3,931.9	1,642.5	678.3	596.9	81.42	8.332	
10,900.0	7,340.0	7,481.2	7,346.6	70.9	22.0	-87.99	-3,932.0	1,642.6	640.6	557.4	83.15	7.704	
11,000.0	7,340.0	7,483.0	7,348.5	72.5	22.0	-88.16	-3,932.0	1,642.6	616.9	532.0	84.88	7.268	
11,099.1	7,340.0	7,484.9	7,350.3	74.2	22.0	-88.33	-3,932.1	1,642.7	608.9	522.3	86.60	7.031 CC	
11,100.0	7,340.0	7,484.9	7,350.3	74.2	22.0	-88.34	-3,932.1	1,642.7	608.9	522.3	86.61	7.030 ES	
11,200.0	7,340.0	7,486.8	7,352.2	75.9	22.0	-88.51	-3,932.1	1,642.7	617.2	528.8	88.35	6.986 SF	
11,300.0	7,340.0	7,488.7	7,354.1	77.6	22.0	-88.69	-3,932.1	1,642.8	641.2	551.1	90.08	7.118	
11,400.0	7,340.0	7,490.6	7,356.0	79.3	22.0	-88.87	-3,932.2	1,642.8	679.2	587.4	91.82	7.397	
11,500.0	7,340.0	7,492.6	7,358.0	81.0	22.0	-89.06	-3,932.2	1,642.9	729.0	635.4	93.55	7.792	
11,600.0	7,340.0	7,494.6	7,360.0	82.7	22.0	-89.25	-3,932.3	1,643.0	788.4	693.1	95.29	8.274	
11,700.0	7,340.0	7,496.6	7,362.0	84.4	22.0	-89.44	-3,932.3	1,643.0	855.4	758.4	97.03	8.816	
11,800.0	7,340.0	7,498.7	7,364.1	86.1	22.0	-89.63	-3,932.4	1,643.1	928.4	829.6	98.76	9.400	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1I-19H-B2683
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 1I-19H-B2683	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 8-8-19 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 92-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
11,600.0	7,340.0	7,555.6	7,358.2	82.7	26.4	-89.06	-5,150.7	1,654.2	933.7	832.4	101.29	9.217		
11,700.0	7,340.0	7,555.4	7,358.0	84.4	26.4	-89.04	-5,150.7	1,654.2	859.2	756.1	103.03	8.339		
11,800.0	7,340.0	7,555.2	7,357.8	86.1	26.4	-89.02	-5,150.7	1,654.1	790.3	685.6	104.76	7.544		
11,900.0	7,340.0	7,555.0	7,357.6	87.8	26.4	-89.00	-5,150.7	1,654.1	728.8	622.3	106.50	6.843		
11,931.3	7,340.0	7,555.0	7,357.6	88.3	26.4	-89.00	-5,150.7	1,654.1	711.3	604.2	107.04	6.645 CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-92.35	-3.3	-80.0	80.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.35	-3.3	-80.0	80.0	79.7	0.30	263.551		
200.0	200.0	200.0	200.0	0.3	0.3	-92.35	-3.3	-80.0	80.0	79.4	0.65	122.615	CC, ES	
300.0	300.0	297.2	297.2	0.5	0.5	-92.32	-3.3	-81.6	81.7	80.7	1.00	81.685		
400.0	400.0	394.3	394.1	0.7	0.7	-92.24	-3.4	-86.6	86.8	85.5	1.36	63.649		
500.0	500.0	491.5	491.1	0.8	0.9	-92.13	-3.5	-94.7	95.2	93.4	1.75	54.413		
600.0	600.0	590.9	590.0	1.0	1.1	-179.57	-3.7	-104.0	106.3	104.3	2.03	52.344		
700.0	699.8	689.8	688.5	1.2	1.4	-179.50	-3.8	-113.3	120.9	118.6	2.37	50.936	SF	
800.0	799.5	788.2	786.4	1.4	1.6	-179.46	-4.0	-122.6	139.0	136.3	2.71	51.228		
900.0	898.7	885.9	883.6	1.7	1.8	-179.44	-4.1	-131.8	160.4	157.4	3.05	52.657		
1,000.0	997.5	982.8	980.2	1.9	2.0	-179.43	-4.3	-140.9	184.9	181.5	3.38	54.665		
1,100.0	1,096.3	1,079.7	1,076.6	2.2	2.3	-179.43	-4.4	-150.0	209.8	206.1	3.72	56.343		
1,200.0	1,195.1	1,176.5	1,173.0	2.5	2.5	-179.43	-4.6	-159.1	234.7	230.6	4.06	57.741		
1,300.0	1,293.8	1,273.4	1,269.4	2.8	2.7	-179.43	-4.7	-168.2	259.6	255.2	4.41	58.923		
1,400.0	1,392.6	1,370.2	1,365.8	3.1	3.0	-179.43	-4.8	-177.3	284.5	279.8	4.75	59.936		
1,500.0	1,491.3	1,467.1	1,462.3	3.5	3.2	-179.43	-5.0	-186.4	309.4	304.3	5.09	60.814		
1,600.0	1,590.1	1,563.9	1,558.7	3.8	3.4	-179.43	-5.1	-195.5	334.3	328.9	5.43	61.581		
1,700.0	1,688.9	1,660.8	1,655.1	4.1	3.7	-179.43	-5.3	-204.6	359.2	353.5	5.77	62.259		
1,800.0	1,787.6	1,757.6	1,751.5	4.4	3.9	-179.43	-5.4	-213.7	384.1	378.0	6.11	62.861		
1,900.0	1,886.4	1,854.5	1,847.9	4.7	4.1	-179.43	-5.6	-222.8	409.0	402.6	6.45	63.399		
2,000.0	1,985.1	1,951.3	1,944.4	5.0	4.4	-179.43	-5.7	-231.9	434.0	427.2	6.79	63.884		
2,100.0	2,083.9	2,048.2	2,040.8	5.4	4.6	-179.43	-5.9	-241.0	458.9	451.7	7.13	64.323		
2,200.0	2,182.7	2,145.0	2,137.2	5.7	4.8	-179.42	-6.0	-250.1	483.8	476.3	7.47	64.721		
2,300.0	2,281.4	2,241.9	2,233.6	6.0	5.0	-179.42	-6.2	-259.2	508.7	500.9	7.82	65.085		
2,400.0	2,380.2	2,338.7	2,330.0	6.3	5.3	-179.42	-6.3	-268.3	533.6	525.4	8.16	65.419		
2,500.0	2,478.9	2,435.6	2,426.4	6.7	5.5	-179.42	-6.5	-277.4	558.5	550.0	8.50	65.726		
2,600.0	2,577.7	2,532.4	2,522.9	7.0	5.7	-179.42	-6.6	-286.5	583.4	574.6	8.84	66.009		
2,700.0	2,676.5	2,629.3	2,619.3	7.3	6.0	-179.42	-6.8	-295.7	608.3	599.1	9.18	66.271		
2,800.0	2,775.2	2,726.1	2,715.7	7.6	6.2	-179.42	-6.9	-304.8	633.2	623.7	9.52	66.515		
2,900.0	2,874.0	2,822.9	2,812.1	8.0	6.4	-179.42	-7.0	-313.9	658.1	648.3	9.86	66.742		
3,000.0	2,972.7	2,919.8	2,908.5	8.3	6.7	-179.42	-7.2	-323.0	683.0	672.8	10.20	66.953		
3,100.0	3,071.5	3,016.6	3,005.0	8.6	6.9	-179.42	-7.3	-332.1	707.9	697.4	10.54	67.151		
3,200.0	3,170.3	3,113.5	3,101.4	8.9	7.1	-179.42	-7.5	-341.2	732.8	721.9	10.88	67.337		
3,300.0	3,269.0	3,210.3	3,197.8	9.3	7.4	-179.42	-7.6	-350.3	757.7	746.5	11.22	67.511		
3,400.0	3,367.8	3,307.2	3,294.2	9.6	7.6	-179.42	-7.8	-359.4	782.6	771.1	11.56	67.675		
3,500.0	3,466.6	3,404.0	3,390.6	9.9	7.8	-179.42	-7.9	-368.5	807.6	795.6	11.91	67.830		
3,600.0	3,565.3	3,500.9	3,487.1	10.2	8.1	-179.42	-8.1	-377.6	832.5	820.2	12.25	67.976		
3,700.0	3,664.1	3,597.7	3,583.5	10.6	8.3	-179.42	-8.2	-386.7	857.4	844.8	12.59	68.114		
3,800.0	3,762.8	3,694.6	3,679.9	10.9	8.5	-179.42	-8.4	-395.8	882.3	869.3	12.93	68.245		
3,900.0	3,861.6	3,791.4	3,776.3	11.2	8.8	-179.42	-8.5	-404.9	907.2	893.9	13.27	68.370		
4,000.0	3,960.4	3,888.3	3,872.7	11.5	9.0	-179.42	-8.7	-414.0	932.1	918.5	13.61	68.488		
4,100.0	4,059.1	3,985.1	3,969.2	11.9	9.2	-179.42	-8.8	-423.1	957.0	943.0	13.95	68.600		
4,200.0	4,157.9	4,082.0	4,065.6	12.2	9.5	-179.42	-9.0	-432.2	981.9	967.6	14.29	68.707		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-92.09	-2.5	-69.9	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.09	-2.5	-69.9	70.0	69.6	0.30	230.336		
200.0	200.0	200.0	200.0	0.3	0.3	-92.09	-2.5	-69.9	70.0	69.3	0.65	107.162		
300.0	300.0	300.0	300.0	0.5	0.5	-92.09	-2.5	-69.9	70.0	68.9	1.00	69.823 CC, ES		
400.0	400.0	397.6	397.6	0.7	0.7	-92.06	-2.6	-71.6	71.7	70.3	1.35	53.102		
500.0	500.0	495.3	495.1	0.8	0.9	-91.98	-2.6	-76.5	76.7	75.0	1.71	44.919		
600.0	600.0	595.0	594.6	1.0	1.1	-179.45	-2.7	-82.8	84.8	82.8	2.04	41.591		
700.0	699.8	694.3	693.7	1.2	1.3	-179.41	-2.8	-89.1	96.4	94.0	2.38	40.431 SF		
800.0	799.5	793.1	792.4	1.4	1.4	-179.39	-2.9	-95.4	111.4	108.6	2.72	40.886		
900.0	898.7	891.4	890.5	1.7	1.6	-179.40	-3.0	-101.6	129.8	126.7	3.06	42.423		
1,000.0	997.5	989.1	987.9	1.9	1.8	-179.41	-3.1	-107.8	151.3	147.9	3.40	44.523		
1,100.0	1,096.3	1,086.7	1,085.3	2.2	2.0	-179.43	-3.2	-114.0	173.2	169.5	3.74	46.298		
1,200.0	1,195.1	1,184.2	1,182.7	2.5	2.2	-179.44	-3.3	-120.2	195.1	191.0	4.08	47.775		
1,300.0	1,293.8	1,281.8	1,280.1	2.8	2.4	-179.45	-3.4	-126.4	217.0	212.6	4.43	49.024		
1,400.0	1,392.6	1,379.4	1,377.4	3.1	2.6	-179.46	-3.5	-132.5	239.0	234.2	4.77	50.093		
1,500.0	1,491.3	1,476.9	1,474.8	3.5	2.8	-179.46	-3.6	-138.7	260.9	255.8	5.11	51.020		
1,600.0	1,590.1	1,574.5	1,572.2	3.8	3.0	-179.47	-3.7	-144.9	282.8	277.3	5.46	51.831		
1,700.0	1,688.9	1,672.1	1,669.6	4.1	3.2	-179.47	-3.8	-151.1	304.7	298.9	5.80	52.546		
1,800.0	1,787.6	1,769.6	1,766.9	4.4	3.4	-179.48	-3.8	-157.3	326.6	320.5	6.14	53.181		
1,900.0	1,886.4	1,867.2	1,864.3	4.7	3.6	-179.48	-3.9	-163.5	348.5	342.1	6.48	53.749		
2,000.0	1,985.1	1,964.8	1,961.7	5.0	3.9	-179.49	-4.0	-169.6	370.5	363.6	6.83	54.260		
2,100.0	2,083.9	2,062.3	2,059.0	5.4	4.1	-179.49	-4.1	-175.8	392.4	385.2	7.17	54.723		
2,200.0	2,182.7	2,159.9	2,156.4	5.7	4.3	-179.49	-4.2	-182.0	414.3	406.8	7.51	55.143		
2,300.0	2,281.4	2,257.5	2,253.8	6.0	4.5	-179.49	-4.3	-188.2	436.2	428.4	7.86	55.527		
2,400.0	2,380.2	2,355.0	2,351.2	6.3	4.7	-179.50	-4.4	-194.4	458.1	449.9	8.20	55.879		
2,500.0	2,478.9	2,452.6	2,448.5	6.7	4.9	-179.50	-4.5	-200.6	480.1	471.5	8.54	56.203		
2,600.0	2,577.7	2,550.2	2,545.9	7.0	5.1	-179.50	-4.6	-206.7	502.0	493.1	8.88	56.501		
2,700.0	2,676.5	2,647.7	2,643.3	7.3	5.3	-179.50	-4.7	-212.9	523.9	514.7	9.23	56.778		
2,800.0	2,775.2	2,745.3	2,740.6	7.6	5.5	-179.50	-4.8	-219.1	545.8	536.3	9.57	57.035		
2,900.0	2,874.0	2,842.9	2,838.0	8.0	5.7	-179.50	-4.9	-225.3	567.7	557.8	9.91	57.274		
3,000.0	2,972.7	2,940.5	2,935.4	8.3	5.9	-179.50	-4.9	-231.5	589.7	579.4	10.26	57.497		
3,100.0	3,071.5	3,038.0	3,032.8	8.6	6.1	-179.51	-5.0	-237.6	611.6	601.0	10.60	57.705		
3,200.0	3,170.3	3,135.6	3,130.1	8.9	6.3	-179.51	-5.1	-243.8	633.5	622.6	10.94	57.901		
3,300.0	3,269.0	3,233.2	3,227.5	9.3	6.5	-179.51	-5.2	-250.0	655.4	644.1	11.28	58.085		
3,400.0	3,367.8	3,330.7	3,324.9	9.6	6.7	-179.51	-5.3	-256.2	677.3	665.7	11.63	58.258		
3,500.0	3,466.6	3,428.3	3,422.2	9.9	6.9	-179.51	-5.4	-262.4	699.3	687.3	11.97	58.421		
3,600.0	3,565.3	3,525.9	3,519.6	10.2	7.1	-179.51	-5.5	-268.6	721.2	708.9	12.31	58.575		
3,700.0	3,664.1	3,623.4	3,617.0	10.6	7.3	-179.51	-5.6	-274.7	743.1	730.4	12.65	58.720		
3,800.0	3,762.8	3,721.0	3,714.4	10.9	7.5	-179.51	-5.7	-280.9	765.0	752.0	13.00	58.858		
3,900.0	3,861.6	3,818.6	3,811.7	11.2	7.7	-179.51	-5.8	-287.1	786.9	773.6	13.34	58.989		
4,000.0	3,960.4	3,916.1	3,909.1	11.5	7.9	-179.51	-5.9	-293.3	808.9	795.2	13.68	59.114		
4,100.0	4,059.1	4,013.7	4,006.5	11.9	8.1	-179.51	-6.0	-299.5	830.8	816.7	14.03	59.232		
4,200.0	4,157.9	4,111.3	4,103.9	12.2	8.3	-179.51	-6.0	-305.7	852.7	838.3	14.37	59.345		
4,300.0	4,256.6	4,208.8	4,201.2	12.5	8.5	-179.51	-6.1	-311.8	874.6	859.9	14.71	59.452		
4,400.0	4,355.4	4,306.4	4,298.6	12.8	8.7	-179.52	-6.2	-318.0	896.5	881.5	15.05	59.554		
4,500.0	4,454.2	4,404.0	4,396.0	13.2	8.9	-179.52	-6.3	-324.2	918.4	903.1	15.40	59.652		
4,600.0	4,552.9	4,501.5	4,493.3	13.5	9.1	-179.52	-6.4	-330.4	940.4	924.6	15.74	59.746		
4,700.0	4,651.7	4,599.1	4,590.7	13.8	9.3	-179.52	-6.5	-336.6	962.3	946.2	16.08	59.836		
4,800.0	4,750.4	4,696.7	4,688.1	14.2	9.5	-179.52	-6.6	-342.8	984.2	967.8	16.42	59.922		

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 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-92.08	-2.2	-60.1	60.2					
100.0	100.0	100.0	100.0	0.2	0.2	-92.08	-2.2	-60.1	60.2	59.9	0.30	198.088		
200.0	200.0	200.0	200.0	0.3	0.3	-92.08	-2.2	-60.1	60.2	59.5	0.65	92.159		
300.0	300.0	300.0	300.0	0.5	0.5	-92.08	-2.2	-60.1	60.2	59.2	1.00	60.048		
400.0	400.0	400.0	400.0	0.7	0.7	-92.08	-2.2	-60.1	60.2	58.8	1.35	44.531 CC, ES		
500.0	500.0	497.9	497.9	0.8	0.8	-92.05	-2.2	-61.8	61.9	60.2	1.70	36.425		
600.0	600.0	597.4	597.3	1.0	1.0	-179.56	-2.3	-65.7	67.6	65.5	2.04	33.072		
700.0	699.8	696.9	696.7	1.2	1.2	-179.54	-2.4	-69.7	76.8	74.4	2.39	32.166 SF		
800.0	799.5	796.1	795.8	1.4	1.4	-179.55	-2.5	-73.7	89.5	86.8	2.73	32.797		
900.0	898.7	894.8	894.4	1.7	1.6	-179.57	-2.5	-77.7	105.7	102.6	3.07	34.457		
1,000.0	997.5	992.9	992.5	1.9	1.8	-179.59	-2.6	-81.7	124.9	121.5	3.41	36.660		
1,100.0	1,096.3	1,091.0	1,090.5	2.2	1.9	-179.61	-2.7	-85.6	144.6	140.8	3.75	38.533		
1,200.0	1,195.1	1,189.0	1,188.4	2.5	2.1	-179.63	-2.8	-89.6	164.2	160.1	4.10	40.091		
1,300.0	1,293.8	1,287.1	1,286.4	2.8	2.3	-179.64	-2.9	-93.5	183.9	179.4	4.44	41.408		
1,400.0	1,392.6	1,385.1	1,384.4	3.1	2.5	-179.65	-3.0	-97.4	203.5	198.8	4.79	42.536		
1,500.0	1,491.3	1,483.2	1,482.4	3.5	2.7	-179.66	-3.0	-101.4	223.2	218.1	5.13	43.513		
1,600.0	1,590.1	1,581.2	1,580.3	3.8	2.9	-179.66	-3.1	-105.3	242.9	237.4	5.47	44.368		
1,700.0	1,688.9	1,679.3	1,678.3	4.1	3.0	-179.67	-3.2	-109.3	262.5	256.7	5.82	45.121		
1,800.0	1,787.6	1,777.3	1,776.3	4.4	3.2	-179.68	-3.3	-113.2	282.2	276.0	6.16	45.791		
1,900.0	1,886.4	1,875.4	1,874.2	4.7	3.4	-179.68	-3.4	-117.2	301.8	295.3	6.51	46.390		
2,000.0	1,985.1	1,973.4	1,972.2	5.0	3.6	-179.68	-3.5	-121.1	321.5	314.6	6.85	46.928		
2,100.0	2,083.9	2,071.5	2,070.2	5.4	3.8	-179.69	-3.5	-125.1	341.1	333.9	7.19	47.416		
2,200.0	2,182.7	2,169.5	2,168.1	5.7	4.0	-179.69	-3.6	-129.0	360.8	353.3	7.54	47.859		
2,300.0	2,281.4	2,267.6	2,266.1	6.0	4.1	-179.69	-3.7	-133.0	380.4	372.6	7.88	48.263		
2,400.0	2,380.2	2,365.6	2,364.1	6.3	4.3	-179.69	-3.8	-136.9	400.1	391.9	8.23	48.633		
2,500.0	2,478.9	2,463.7	2,462.0	6.7	4.5	-179.70	-3.9	-140.9	419.8	411.2	8.57	48.974		
2,600.0	2,577.7	2,561.7	2,560.0	7.0	4.7	-179.70	-3.9	-144.8	439.4	430.5	8.92	49.289		
2,700.0	2,676.5	2,659.8	2,658.0	7.3	4.9	-179.70	-4.0	-148.7	459.1	449.8	9.26	49.580		
2,800.0	2,775.2	2,757.8	2,756.0	7.6	5.1	-179.70	-4.1	-152.7	478.7	469.1	9.60	49.850		
2,900.0	2,874.0	2,855.9	2,853.9	8.0	5.3	-179.70	-4.2	-156.6	498.4	488.4	9.95	50.102		
3,000.0	2,972.7	2,953.9	2,951.9	8.3	5.4	-179.71	-4.3	-160.6	518.0	507.7	10.29	50.337		
3,100.0	3,071.5	3,052.0	3,049.9	8.6	5.6	-179.71	-4.4	-164.5	537.7	527.1	10.64	50.557		
3,200.0	3,170.3	3,150.0	3,147.8	8.9	5.8	-179.71	-4.4	-168.5	557.3	546.4	10.98	50.763		
3,300.0	3,269.0	3,248.1	3,245.8	9.3	6.0	-179.71	-4.5	-172.4	577.0	565.7	11.32	50.956		
3,400.0	3,367.8	3,346.1	3,343.8	9.6	6.2	-179.71	-4.6	-176.4	596.7	585.0	11.67	51.138		
3,500.0	3,466.6	3,444.2	3,441.7	9.9	6.4	-179.71	-4.7	-180.3	616.3	604.3	12.01	51.310		
3,600.0	3,565.3	3,542.2	3,539.7	10.2	6.5	-179.71	-4.8	-184.3	636.0	623.6	12.36	51.472		
3,700.0	3,664.1	3,640.3	3,637.7	10.6	6.7	-179.71	-4.8	-188.2	655.6	642.9	12.70	51.625		
3,800.0	3,762.8	3,738.3	3,735.7	10.9	6.9	-179.71	-4.9	-192.2	675.3	662.2	13.04	51.770		
3,900.0	3,861.6	3,836.3	3,833.6	11.2	7.1	-179.71	-5.0	-196.1	694.9	681.6	13.39	51.908		
4,000.0	3,960.4	3,934.4	3,931.6	11.5	7.3	-179.72	-5.1	-200.0	714.6	700.9	13.73	52.039		
4,100.0	4,059.1	4,032.4	4,029.6	11.9	7.5	-179.72	-5.2	-204.0	734.3	720.2	14.08	52.164		
4,200.0	4,157.9	4,130.5	4,127.5	12.2	7.6	-179.72	-5.3	-207.9	753.9	739.5	14.42	52.282		
4,300.0	4,256.6	4,228.5	4,225.5	12.5	7.8	-179.72	-5.3	-211.9	773.6	758.8	14.76	52.395		
4,400.0	4,355.4	4,326.6	4,323.5	12.8	8.0	-179.72	-5.4	-215.8	793.2	778.1	15.11	52.503		
4,500.0	4,454.2	4,424.6	4,421.4	13.2	8.2	-179.72	-5.5	-219.8	812.9	797.4	15.45	52.606		
4,600.0	4,552.9	4,522.7	4,519.4	13.5	8.4	-179.72	-5.6	-223.7	832.5	816.7	15.80	52.705		
4,700.0	4,651.7	4,620.7	4,617.4	13.8	8.6	-179.72	-5.7	-227.7	852.2	836.0	16.14	52.799		
4,800.0	4,750.4	4,718.8	4,715.4	14.2	8.8	-179.72	-5.8	-231.6	871.8	855.4	16.48	52.890		
4,900.0	4,849.2	4,816.8	4,813.3	14.5	8.9	-179.72	-5.8	-235.6	891.5	874.7	16.83	52.976		
5,000.0	4,948.0	4,914.9	4,911.3	14.8	9.1	-179.72	-5.9	-239.5	911.2	894.0	17.17	53.060		
5,100.0	5,046.7	5,012.9	5,009.3	15.1	9.3	-179.72	-6.0	-243.5	930.8	913.3	17.52	53.140		

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 1I-19H-B2683
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 1I-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design													S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference				Offset		Semi Major Axis			Distance						Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
5,200.0	5,145.5	5,111.0	5,107.2	15.5	9.5	-179.72	-6.1	-247.4	950.5	932.6	17.86	53.217					
5,300.0	5,244.3	5,209.0	5,205.2	15.8	9.7	-179.72	-6.2	-251.4	970.1	951.9	18.20	53.291					
5,400.0	5,343.0	5,307.1	5,303.2	16.1	9.9	-179.72	-6.2	-255.3	989.8	971.2	18.55	53.362					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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 (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	-92.08	-1.8	-50.1	50.1						
100.0	100.0	100.0	100.0	0.2	0.2	-92.08	-1.8	-50.1	50.1	49.8	0.30	164.920			
200.0	200.0	200.0	200.0	0.3	0.3	-92.08	-1.8	-50.1	50.1	49.4	0.65	76.728			
300.0	300.0	300.0	300.0	0.5	0.5	-92.08	-1.8	-50.1	50.1	49.1	1.00	49.993			
400.0	400.0	400.0	400.0	0.7	0.7	-92.08	-1.8	-50.1	50.1	48.7	1.35	37.075			
500.0	500.0	500.0	500.0	0.8	0.8	-92.08	-1.8	-50.1	50.1	48.4	1.70	29.462	CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	-179.60	-1.8	-50.4	52.2	50.1	2.05	25.477			
700.0	699.8	699.6	699.6	1.2	1.2	-179.60	-1.8	-50.8	57.8	55.4	2.39	24.131	SF		
800.0	799.5	799.2	799.2	1.4	1.4	-179.62	-1.7	-51.1	66.8	64.1	2.74	24.420			
900.0	898.7	898.4	898.4	1.7	1.5	-179.65	-1.7	-51.5	79.4	76.3	3.08	25.801			
1,000.0	997.5	997.2	997.2	1.9	1.7	-179.68	-1.7	-51.8	95.0	91.6	3.42	27.785			
1,100.0	1,096.3	1,095.9	1,095.9	2.2	1.9	-179.70	-1.7	-52.2	111.0	107.3	3.76	29.492			
1,200.0	1,195.1	1,194.6	1,194.6	2.5	2.1	-179.72	-1.6	-52.6	127.1	123.0	4.11	30.913			
1,300.0	1,293.8	1,293.3	1,293.3	2.8	2.2	-179.74	-1.6	-52.9	143.1	138.7	4.46	32.113			
1,400.0	1,392.6	1,392.0	1,392.0	3.1	2.4	-179.75	-1.6	-53.3	159.2	154.4	4.80	33.140			
1,500.0	1,491.3	1,490.7	1,490.7	3.5	2.6	-179.76	-1.6	-53.6	175.2	170.1	5.15	34.030			
1,600.0	1,590.1	1,589.4	1,589.4	3.8	2.8	-179.77	-1.6	-54.0	191.3	185.8	5.50	34.807			
1,700.0	1,688.9	1,688.1	1,688.1	4.1	2.9	-179.77	-1.5	-54.3	207.3	201.5	5.84	35.493			
1,800.0	1,787.6	1,786.8	1,786.8	4.4	3.1	-179.78	-1.5	-54.7	223.4	217.2	6.19	36.102			
1,900.0	1,886.4	1,885.5	1,885.5	4.7	3.3	-179.79	-1.5	-55.1	239.4	232.9	6.53	36.647			
2,000.0	1,985.1	1,984.2	1,984.2	5.0	3.4	-179.79	-1.5	-55.4	255.5	248.6	6.88	37.137			
2,100.0	2,083.9	2,082.9	2,082.9	5.4	3.6	-179.79	-1.4	-55.8	271.5	264.3	7.23	37.580			
2,200.0	2,182.7	2,181.6	2,181.6	5.7	3.8	-179.80	-1.4	-56.1	287.6	280.0	7.57	37.983			
2,300.0	2,281.4	2,280.3	2,280.3	6.0	4.0	-179.80	-1.4	-56.5	303.6	295.7	7.92	38.350			
2,400.0	2,380.2	2,379.0	2,379.0	6.3	4.1	-179.80	-1.4	-56.9	319.7	311.4	8.26	38.687			
2,500.0	2,478.9	2,477.7	2,477.7	6.7	4.3	-179.81	-1.3	-57.2	335.7	327.1	8.61	38.997			
2,600.0	2,577.7	2,576.4	2,576.4	7.0	4.5	-179.81	-1.3	-57.6	351.8	342.8	8.96	39.283			
2,700.0	2,676.5	2,675.2	2,675.1	7.3	4.6	-179.81	-1.3	-57.9	367.8	358.5	9.30	39.548			
2,800.0	2,775.2	2,773.9	2,773.8	7.6	4.8	-179.81	-1.3	-58.3	383.9	374.2	9.65	39.793			
2,900.0	2,874.0	2,872.6	2,872.5	8.0	5.0	-179.81	-1.2	-58.6	399.9	390.0	9.99	40.022			
3,000.0	2,972.7	2,971.3	2,971.2	8.3	5.2	-179.82	-1.2	-59.0	416.0	405.7	10.34	40.236			
3,100.0	3,071.5	3,070.0	3,069.9	8.6	5.3	-179.82	-1.2	-59.4	432.0	421.4	10.68	40.435			
3,200.0	3,170.3	3,168.7	3,168.6	8.9	5.5	-179.82	-1.2	-59.7	448.1	437.1	11.03	40.622			
3,300.0	3,269.0	3,267.4	3,267.4	9.3	5.7	-179.82	-1.1	-60.1	464.2	452.8	11.38	40.798			
3,400.0	3,367.8	3,366.1	3,366.1	9.6	5.9	-179.82	-1.1	-60.4	480.2	468.5	11.72	40.964			
3,500.0	3,466.6	3,464.8	3,464.8	9.9	6.0	-179.82	-1.1	-60.8	496.3	484.2	12.07	41.120			
3,600.0	3,565.3	3,563.5	3,563.5	10.2	6.2	-179.82	-1.1	-61.2	512.3	499.9	12.41	41.267			
3,700.0	3,664.1	3,662.2	3,662.2	10.6	6.4	-179.82	-1.0	-61.5	528.4	515.6	12.76	41.406			
3,800.0	3,762.8	3,760.9	3,760.9	10.9	6.5	-179.82	-1.0	-61.9	544.4	531.3	13.11	41.538			
3,900.0	3,861.6	3,859.6	3,859.6	11.2	6.7	-179.83	-1.0	-62.2	560.5	547.0	13.45	41.663			
4,000.0	3,960.4	3,958.3	3,958.3	11.5	6.9	-179.83	-1.0	-62.6	576.5	562.7	13.80	41.782			
4,100.0	4,059.1	4,057.0	4,057.0	11.9	7.1	-179.83	-0.9	-63.0	592.6	578.4	14.14	41.895			
4,200.0	4,157.9	4,155.7	4,155.7	12.2	7.2	-179.83	-0.9	-63.3	608.6	594.1	14.49	42.003			
4,300.0	4,256.6	4,254.4	4,254.4	12.5	7.4	-179.83	-0.9	-63.7	624.7	609.8	14.84	42.105			
4,400.0	4,355.4	4,353.1	4,353.1	12.8	7.6	-179.83	-0.9	-64.0	640.7	625.5	15.18	42.203			
4,500.0	4,454.2	4,451.8	4,451.8	13.2	7.8	-179.83	-0.8	-64.4	656.8	641.2	15.53	42.297			
4,600.0	4,552.9	4,550.5	4,550.5	13.5	7.9	-179.83	-0.8	-64.7	672.8	656.9	15.87	42.387			
4,700.0	4,651.7	4,649.2	4,649.2	13.8	8.1	-179.83	-0.8	-65.1	688.9	672.6	16.22	42.472			
4,800.0	4,750.4	4,747.9	4,747.9	14.2	8.3	-179.83	-0.8	-65.5	704.9	688.3	16.56	42.555			
4,900.0	4,849.2	4,846.6	4,846.6	14.5	8.4	-179.83	-0.7	-65.8	721.0	704.1	16.91	42.633			
5,000.0	4,948.0	4,945.3	4,945.3	14.8	8.6	-179.83	-0.7	-66.2	737.0	719.8	17.26	42.709			
5,100.0	5,046.7	5,044.0	5,044.0	15.1	8.8	-179.83	-0.7	-66.5	753.1	735.5	17.60	42.782			

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 11-19H-B2683
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 11-19H-B2683	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)				
5,200.0	5,145.5	5,142.7	5,142.7	15.5	9.0	-179.83	-0.7	-66.9	769.1	751.2	17.95	42.852		
5,300.0	5,244.3	5,241.4	5,241.4	15.8	9.1	-179.83	-0.6	-67.3	785.2	766.9	18.29	42.919		
5,400.0	5,343.0	5,340.1	5,340.1	16.1	9.3	-179.83	-0.6	-67.6	801.2	782.6	18.64	42.983		
5,500.0	5,441.8	5,438.8	5,438.8	16.4	9.5	-179.83	-0.6	-68.0	817.3	798.3	18.99	43.046		
5,600.0	5,540.5	5,537.6	5,537.5	16.8	9.6	-179.84	-0.6	-68.3	833.3	814.0	19.33	43.106		
5,700.0	5,639.3	5,636.3	5,636.2	17.1	9.8	-179.84	-0.5	-68.7	849.4	829.7	19.68	43.164		
5,800.0	5,738.1	5,735.0	5,734.9	17.4	10.0	-179.84	-0.5	-69.0	865.4	845.4	20.02	43.220		
5,900.0	5,836.8	5,833.7	5,833.6	17.7	10.2	-179.84	-0.5	-69.4	881.5	861.1	20.37	43.274		
6,000.0	5,935.6	5,932.4	5,932.3	18.1	10.3	-179.84	-0.5	-69.8	897.5	876.8	20.72	43.327		
6,100.0	6,034.3	6,031.1	6,031.0	18.4	10.5	-179.84	-0.4	-70.1	913.6	892.5	21.06	43.377		
6,200.0	6,133.1	6,129.8	6,129.7	18.7	10.7	-179.84	-0.4	-70.5	929.6	908.2	21.41	43.426		
6,300.0	6,231.9	6,228.5	6,228.4	19.1	10.9	-179.84	-0.4	-70.8	945.7	923.9	21.75	43.474		
6,400.0	6,330.6	6,327.2	6,327.1	19.4	11.0	-179.84	-0.4	-71.2	961.7	939.6	22.10	43.520		
6,500.0	6,429.4	6,425.9	6,425.8	19.7	11.2	-179.84	-0.3	-71.6	977.8	955.3	22.44	43.564		
6,600.0	6,528.1	6,524.6	6,524.5	20.0	11.4	-179.84	-0.3	-71.9	993.8	971.0	22.79	43.607		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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			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)	Between Centres (ft)		Between Ellipses (ft)	+N/-S (ft)				+E/-W (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-92.09	-1.5	-40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.09	-1.5	-40.0	40.0	39.7	0.30	131.752		
200.0	200.0	200.0	200.0	0.3	0.3	-92.09	-1.5	-40.0	40.0	39.4	0.65	61.297		
300.0	300.0	300.0	300.0	0.5	0.5	-92.09	-1.5	-40.0	40.0	39.0	1.00	39.939		
400.0	400.0	400.0	400.0	0.7	0.7	-92.09	-1.5	-40.0	40.0	38.7	1.35	29.619		
500.0	500.0	500.0	500.0	0.8	0.8	-92.09	-1.5	-40.0	40.0	38.3	1.70	23.537 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	-179.65	-1.5	-40.0	41.8	39.7	2.05	20.387		
700.0	699.8	699.8	699.8	1.2	1.2	-179.69	-1.5	-40.0	47.0	44.6	2.39	19.625		
800.0	799.5	799.5	799.5	1.4	1.4	-179.73	-1.5	-40.0	55.7	53.0	2.74	20.347		
900.0	898.7	898.7	898.7	1.7	1.5	-179.78	-1.5	-40.0	67.9	64.8	3.08	22.059		
1,000.0	997.5	997.5	997.5	1.9	1.7	-179.82	-1.5	-40.0	83.1	79.7	3.42	24.311		
1,100.0	1,096.3	1,096.3	1,096.3	2.2	1.9	-179.85	-1.5	-40.0	98.8	95.1	3.77	26.241		
1,200.0	1,195.1	1,195.1	1,195.1	2.5	2.1	-179.87	-1.5	-40.0	114.5	110.4	4.11	27.847		
1,300.0	1,293.8	1,293.8	1,293.8	2.8	2.2	-179.89	-1.5	-40.0	130.2	125.7	4.46	29.203		
1,400.0	1,392.6	1,392.6	1,392.6	3.1	2.4	-179.90	-1.5	-40.0	145.9	141.1	4.80	30.365		
1,500.0	1,491.3	1,491.3	1,491.3	3.5	2.6	-179.91	-1.5	-40.0	161.6	156.4	5.15	31.370		
1,600.0	1,590.1	1,590.1	1,590.1	3.8	2.8	-179.92	-1.5	-40.0	177.3	171.8	5.50	32.249		
1,700.0	1,688.9	1,688.9	1,688.9	4.1	2.9	-179.92	-1.5	-40.0	193.0	187.1	5.84	33.024		
1,800.0	1,787.6	1,787.6	1,787.6	4.4	3.1	-179.93	-1.5	-40.0	208.7	202.5	6.19	33.712		
1,900.0	1,886.4	1,886.4	1,886.4	4.7	3.3	-179.93	-1.5	-40.0	224.4	217.8	6.54	34.328		
2,000.0	1,985.1	1,985.1	1,985.1	5.0	3.4	-179.94	-1.5	-40.0	240.1	233.2	6.88	34.882		
2,100.0	2,083.9	2,083.9	2,083.9	5.4	3.6	-179.94	-1.5	-40.0	255.8	248.5	7.23	35.382		
2,200.0	2,182.7	2,182.7	2,182.7	5.7	3.8	-179.94	-1.5	-40.0	271.5	263.9	7.57	35.838		
2,300.0	2,281.4	2,281.4	2,281.4	6.0	4.0	-179.95	-1.5	-40.0	287.1	279.2	7.92	36.253		
2,400.0	2,380.2	2,380.2	2,380.2	6.3	4.1	-179.95	-1.5	-40.0	302.8	294.6	8.27	36.633		
2,500.0	2,478.9	2,478.9	2,478.9	6.7	4.3	-179.95	-1.5	-40.0	318.5	309.9	8.61	36.983		
2,600.0	2,577.7	2,577.7	2,577.7	7.0	4.5	-179.96	-1.5	-40.0	334.2	325.3	8.96	37.306		
2,700.0	2,676.5	2,676.5	2,676.5	7.3	4.6	-179.96	-1.5	-40.0	349.9	340.6	9.30	37.605		
2,800.0	2,775.2	2,775.2	2,775.2	7.6	4.8	-179.96	-1.5	-40.0	365.6	356.0	9.65	37.883		
2,900.0	2,874.0	2,874.0	2,874.0	8.0	5.0	-179.96	-1.5	-40.0	381.3	371.3	10.00	38.141		
3,000.0	2,972.7	2,972.7	2,972.7	8.3	5.2	-179.96	-1.5	-40.0	397.0	386.7	10.34	38.383		
3,100.0	3,071.5	3,071.5	3,071.5	8.6	5.3	-179.96	-1.5	-40.0	412.7	402.0	10.69	38.608		
3,200.0	3,170.3	3,170.3	3,170.3	8.9	5.5	-179.97	-1.5	-40.0	428.4	417.4	11.04	38.819		
3,300.0	3,269.0	3,269.0	3,269.0	9.3	5.7	-179.97	-1.5	-40.0	444.1	432.7	11.38	39.018		
3,400.0	3,367.8	3,367.8	3,367.8	9.6	5.9	-179.97	-1.5	-40.0	459.8	448.0	11.73	39.205		
3,500.0	3,466.6	3,466.6	3,466.6	9.9	6.0	-179.97	-1.5	-40.0	475.5	463.4	12.07	39.381		
3,600.0	3,565.3	3,565.3	3,565.3	10.2	6.2	-179.97	-1.5	-40.0	491.2	478.7	12.42	39.547		
3,700.0	3,664.1	3,664.1	3,664.1	10.6	6.4	-179.97	-1.5	-40.0	506.9	494.1	12.77	39.705		
3,800.0	3,762.8	3,762.8	3,762.8	10.9	6.5	-179.97	-1.5	-40.0	522.5	509.4	13.11	39.854		
3,900.0	3,861.6	3,861.6	3,861.6	11.2	6.7	-179.97	-1.5	-40.0	538.2	524.8	13.46	39.995		
4,000.0	3,960.4	3,960.4	3,960.4	11.5	6.9	-179.97	-1.5	-40.0	553.9	540.1	13.80	40.129		
4,100.0	4,059.1	4,073.8	4,073.8	11.9	7.1	-179.97	-1.4	-39.0	568.9	554.7	14.18	40.131		
4,200.0	4,157.9	4,189.5	4,189.4	12.2	7.3	-179.98	-1.2	-33.9	580.1	565.6	14.55	39.866		
4,300.0	4,256.6	4,289.0	4,288.7	12.5	7.5	-179.98	-1.1	-28.5	590.4	575.5	14.90	39.626		
4,400.0	4,355.4	4,388.4	4,388.0	12.8	7.6	-179.99	-0.9	-23.1	600.7	585.5	15.25	39.397		
4,500.0	4,454.2	4,487.9	4,487.3	13.2	7.8	-179.99	-0.7	-17.7	611.0	595.4	15.60	39.178		
4,600.0	4,552.9	4,587.4	4,586.7	13.5	8.0	-180.00	-0.5	-12.3	621.3	605.4	15.94	38.969		
4,700.0	4,651.7	4,686.9	4,686.0	13.8	8.2	180.00	-0.3	-6.9	631.6	615.4	16.29	38.769		
4,800.0	4,750.4	4,786.3	4,785.3	14.2	8.4	179.99	-0.1	-1.5	642.0	625.3	16.64	38.577		
4,900.0	4,849.2	4,885.8	4,884.6	14.5	8.5	179.99	0.1	3.9	652.3	635.3	16.99	38.393		
5,000.0	4,948.0	4,985.3	4,984.0	14.8	8.7	179.99	0.2	9.3	662.6	645.2	17.34	38.216		
5,100.0	5,046.7	5,084.7	5,083.3	15.1	8.9	179.98	0.4	14.7	672.9	655.2	17.69	38.046		

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 11-19H-B2683
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 11-19H-B2683	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		
5,200.0	5,145.5	5,184.2	5,182.6	15.5	9.1	179.98	0.6	20.1	683.2	665.1	18.03	37.883		
5,300.0	5,244.3	5,283.7	5,281.9	15.8	9.3	179.98	0.8	25.5	693.5	675.1	18.38	37.726		
5,400.0	5,343.0	5,383.1	5,381.2	16.1	9.5	179.97	1.0	30.9	703.8	685.1	18.73	37.575		
5,500.0	5,441.8	5,482.6	5,480.6	16.4	9.6	179.97	1.2	36.3	714.1	695.0	19.08	37.430		
5,600.0	5,540.5	5,582.1	5,579.9	16.8	9.8	179.97	1.4	41.7	724.4	705.0	19.43	37.289		
5,700.0	5,639.3	5,681.5	5,679.2	17.1	10.0	179.96	1.5	47.1	734.7	714.9	19.77	37.154		
5,800.0	5,738.1	5,781.0	5,778.5	17.4	10.2	179.96	1.7	52.5	745.0	724.9	20.12	37.023		
5,900.0	5,836.8	5,880.5	5,877.8	17.7	10.4	179.96	1.9	57.9	755.3	734.9	20.47	36.897		
6,000.0	5,935.6	5,979.9	5,977.2	18.1	10.6	179.95	2.1	63.3	765.6	744.8	20.82	36.775		
6,100.0	6,034.3	6,079.4	6,076.5	18.4	10.8	179.95	2.3	68.7	775.9	754.8	21.17	36.657		
6,200.0	6,133.1	6,178.9	6,175.8	18.7	11.0	179.95	2.5	74.1	786.2	764.7	21.52	36.543		
6,300.0	6,231.9	6,278.3	6,275.1	19.1	11.1	179.95	2.7	79.5	796.6	774.7	21.86	36.432		
6,400.0	6,330.6	6,377.8	6,374.4	19.4	11.3	179.94	2.8	84.9	806.9	784.6	22.21	36.325		
6,500.0	6,429.4	6,477.3	6,473.8	19.7	11.5	179.94	3.0	90.3	817.2	794.6	22.56	36.222		
6,600.0	6,528.1	6,576.7	6,573.1	20.0	11.7	179.94	3.2	95.7	827.5	804.6	22.91	36.121		
6,700.0	6,626.9	6,676.2	6,672.4	20.4	11.9	179.94	3.4	101.1	837.8	814.5	23.26	36.023		
6,800.0	6,725.4	6,775.4	6,771.4	20.7	12.1	137.62	3.6	106.4	847.8	824.2	23.62	35.899		
6,900.0	6,822.1	6,872.5	6,868.4	21.0	12.3	118.39	3.5	111.7	857.4	833.4	23.97	35.766		
7,000.0	6,915.1	6,969.1	6,964.4	21.3	12.5	110.23	-5.3	116.9	867.1	842.8	24.34	35.627		
7,100.0	7,002.6	7,069.3	7,061.7	21.7	12.7	106.28	-28.1	122.2	877.0	852.3	24.76	35.425		
7,200.0	7,082.9	7,173.3	7,158.4	22.0	12.9	104.26	-65.9	127.5	886.8	861.5	25.28	35.078		
7,300.0	7,154.4	7,281.6	7,252.1	22.5	13.3	103.28	-119.6	132.6	896.3	870.3	25.99	34.488		
7,400.0	7,215.8	7,394.5	7,340.1	23.0	13.7	102.89	-190.1	137.3	905.1	878.2	26.97	33.560		
7,500.0	7,265.9	7,512.1	7,418.8	23.5	14.4	102.88	-277.2	141.6	913.0	884.7	28.33	32.230		
7,600.0	7,303.6	7,634.4	7,484.4	24.2	15.4	103.09	-380.2	145.2	919.6	889.5	30.13	30.522		
7,700.0	7,328.2	7,760.9	7,532.8	25.0	16.6	103.44	-496.8	147.8	924.6	892.2	32.40	28.536		
7,800.0	7,339.3	7,890.9	7,560.5	25.8	18.1	103.86	-623.7	149.3	927.6	892.5	35.11	26.420		
7,900.0	7,340.0	8,012.6	7,566.0	26.8	19.6	104.09	-745.2	149.6	928.3	890.4	37.91	24.487		
8,000.0	7,340.0	8,112.6	7,566.0	27.8	21.0	104.09	-845.2	149.6	928.3	887.7	40.55	22.891		
8,100.0	7,340.0	8,212.6	7,566.0	28.8	22.4	104.09	-945.2	149.6	928.3	885.0	43.30	21.438		
8,200.0	7,340.0	8,312.6	7,566.0	30.0	23.8	104.09	-1,045.2	149.6	928.3	882.2	46.14	20.120		
8,300.0	7,340.0	8,412.6	7,566.0	31.2	25.3	104.09	-1,145.2	149.6	928.3	879.3	49.05	18.927		
8,400.0	7,340.0	8,512.6	7,566.0	32.4	26.9	104.09	-1,245.2	149.6	928.3	876.3	52.01	17.847		
8,500.0	7,340.0	8,612.6	7,566.0	33.7	28.4	104.09	-1,345.2	149.6	928.3	873.3	55.03	16.868		
8,600.0	7,340.0	8,712.6	7,566.0	35.0	30.0	104.09	-1,445.2	149.6	928.3	870.2	58.10	15.979		
8,700.0	7,340.0	8,812.6	7,566.0	36.4	31.6	104.09	-1,545.2	149.6	928.3	867.1	61.19	15.170		
8,800.0	7,340.0	8,912.6	7,566.0	37.8	33.2	104.09	-1,645.2	149.6	928.3	864.0	64.32	14.432		
8,900.0	7,340.0	9,012.6	7,566.0	39.2	34.8	104.09	-1,745.2	149.6	928.3	860.8	67.48	13.757		
9,000.0	7,340.0	9,112.6	7,566.0	40.7	36.4	104.09	-1,845.2	149.6	928.1	857.6	70.51	13.164		
9,100.0	7,340.0	9,212.6	7,566.0	42.1	38.1	104.12	-1,945.2	149.6	926.5	853.2	73.35	12.631		
9,200.0	7,340.0	9,312.6	7,566.0	43.6	39.7	104.18	-2,045.1	149.6	923.2	847.0	76.18	12.119		
9,300.0	7,340.0	9,412.4	7,566.0	45.1	41.4	104.26	-2,145.0	149.6	918.4	839.2	79.17	11.600		
9,400.0	7,340.0	9,512.3	7,566.0	46.6	43.0	104.35	-2,244.8	149.6	913.3	830.9	82.38	11.087		
9,500.0	7,340.0	9,612.2	7,566.0	48.1	44.7	104.42	-2,344.7	149.6	908.4	822.7	85.77	10.591		
9,600.0	7,340.0	9,712.1	7,566.0	49.6	46.4	104.47	-2,444.6	149.6	905.0	815.6	89.39	10.124		
9,700.0	7,340.0	9,812.1	7,566.0	51.2	48.1	104.49	-2,544.6	149.6	903.2	810.2	93.01	9.711		
9,778.8	7,340.0	9,890.9	7,566.0	52.5	49.4	104.50	-2,623.4	149.6	902.8	807.0	95.74	9.430		
9,800.0	7,340.0	9,912.1	7,566.0	52.8	49.8	104.49	-2,644.6	149.6	902.9	806.5	96.47	9.360		
9,900.0	7,340.0	10,012.1	7,566.0	54.4	51.5	104.49	-2,744.6	149.6	902.9	803.2	99.76	9.051		
10,000.0	7,340.0	10,112.1	7,566.0	56.0	53.2	104.49	-2,844.6	149.6	902.9	799.9	103.06	8.762		
10,100.0	7,340.0	10,212.1	7,566.0	57.6	54.9	104.49	-2,944.6	149.6	902.9	796.6	106.36	8.490		
10,200.0	7,340.0	10,312.1	7,566.0	59.3	56.6	104.49	-3,044.6	149.6	902.9	793.3	109.67	8.234		

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 1I-19H-B2683
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 1I-19H-B2683	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	
10,300.0	7,340.0	10,412.1	7,566.0	60.9	58.3	104.49	-3,144.6	149.6	902.9	790.0	112.98	7.992	
10,400.0	7,340.0	10,512.1	7,566.0	62.5	60.0	104.49	-3,244.6	149.6	902.9	786.6	116.30	7.764	
10,500.0	7,340.0	10,612.1	7,566.0	64.2	61.7	104.49	-3,344.6	149.6	902.9	783.3	119.62	7.548	
10,600.0	7,340.0	10,712.1	7,566.0	65.8	63.4	104.48	-3,444.6	149.6	903.8	780.5	123.27	7.332	
10,700.0	7,340.0	10,812.1	7,566.0	67.5	65.1	104.45	-3,544.6	149.6	905.6	779.0	126.65	7.151	
10,800.0	7,340.0	10,912.0	7,566.0	69.2	66.9	104.42	-3,644.6	149.6	907.4	777.4	130.00	6.981	
10,900.0	7,340.0	11,012.0	7,566.0	70.9	68.6	104.39	-3,744.6	149.6	909.3	775.9	133.35	6.819	
11,000.0	7,340.0	11,112.0	7,566.0	72.5	70.3	104.36	-3,844.5	149.6	911.1	774.4	136.71	6.664	
11,100.0	7,340.0	11,212.0	7,566.0	74.2	72.0	104.34	-3,944.5	149.6	912.9	772.9	140.07	6.518	
11,200.0	7,340.0	11,312.0	7,566.0	75.9	73.8	104.31	-4,044.5	149.6	914.8	771.3	143.44	6.377	
11,300.0	7,340.0	11,412.0	7,566.0	77.6	75.5	104.28	-4,144.5	149.6	916.6	769.8	146.81	6.244	
11,400.0	7,340.0	11,511.9	7,566.0	79.3	77.2	104.25	-4,244.5	149.6	918.4	768.3	150.18	6.116	
11,500.0	7,340.0	11,611.9	7,566.0	81.0	78.9	104.22	-4,344.5	149.6	920.3	766.7	153.56	5.993	
11,600.0	7,340.0	11,711.9	7,566.0	82.7	80.7	104.19	-4,444.4	149.6	922.1	765.2	156.93	5.876	
11,700.0	7,340.0	11,811.9	7,566.0	84.4	82.4	104.16	-4,544.4	149.6	923.9	763.6	160.31	5.763	
11,800.0	7,340.0	11,911.9	7,566.0	86.1	84.1	104.13	-4,644.4	149.6	925.8	762.1	163.70	5.655	
11,900.0	7,340.0	12,011.8	7,566.0	87.8	85.9	104.10	-4,744.4	149.6	927.6	760.5	167.08	5.552	
11,931.3	7,340.0	12,043.1	7,566.0	88.3	86.4	104.09	-4,775.7	149.6	928.2	760.0	168.14	5.520 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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			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)				
0.0	0.0	0.0	0.0	0.0	0.0	-92.10	-1.1	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-92.10	-1.1	-29.9	29.9	29.6	0.30	98.585		
200.0	200.0	200.0	200.0	0.3	0.3	-92.10	-1.1	-29.9	29.9	29.3	0.65	45.866		
300.0	300.0	300.0	300.0	0.5	0.5	-92.10	-1.1	-29.9	29.9	28.9	1.00	29.885		
400.0	400.0	400.0	400.0	0.7	0.7	-92.10	-1.1	-29.9	29.9	28.6	1.35	22.162		
500.0	500.0	500.0	500.0	0.8	0.8	-92.10	-1.1	-29.9	29.9	28.2	1.70	17.612	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	-179.66	-1.1	-29.9	31.7	29.6	2.05	15.469		
700.0	699.8	699.8	699.8	1.2	1.2	-179.71	-1.1	-29.9	36.9	34.5	2.39	15.419		
800.0	799.5	799.5	799.5	1.4	1.4	-179.77	-1.1	-29.9	45.6	42.9	2.74	16.668		
900.0	898.7	898.7	898.7	1.7	1.5	-179.81	-1.1	-29.9	57.8	54.7	3.08	18.786		
1,000.0	997.5	1,000.0	1,000.0	1.9	1.7	-179.82	-1.0	-28.2	71.4	67.9	3.42	20.840		
1,100.0	1,096.3	1,101.7	1,101.5	2.2	1.9	-179.78	-0.7	-22.9	81.9	78.1	3.78	21.684		
1,200.0	1,195.1	1,201.2	1,200.9	2.5	2.1	-179.73	-0.3	-16.6	91.3	87.1	4.13	22.121		
1,300.0	1,293.8	1,300.8	1,300.2	2.8	2.3	-179.69	0.1	-10.2	100.6	96.1	4.47	22.490		
1,400.0	1,392.6	1,400.4	1,399.6	3.1	2.5	-179.66	0.5	-3.9	110.0	105.2	4.82	22.806		
1,500.0	1,491.3	1,499.9	1,498.9	3.5	2.7	-179.63	0.9	2.4	119.4	114.2	5.17	23.079		
1,600.0	1,590.1	1,599.5	1,598.3	3.8	2.9	-179.61	1.3	8.8	128.7	123.2	5.52	23.319		
1,700.0	1,688.9	1,699.0	1,697.7	4.1	3.1	-179.59	1.6	15.1	138.1	132.2	5.87	23.530		
1,800.0	1,787.6	1,798.6	1,797.0	4.4	3.3	-179.57	2.0	21.4	147.5	141.2	6.22	23.717		
1,900.0	1,886.4	1,898.2	1,896.4	4.7	3.5	-179.55	2.4	27.8	156.8	150.3	6.57	23.884		
2,000.0	1,985.1	1,997.7	1,995.7	5.0	3.7	-179.54	2.8	34.1	166.2	159.3	6.92	24.035		
2,100.0	2,083.9	2,097.3	2,095.1	5.4	3.9	-179.52	3.2	40.4	175.6	168.3	7.26	24.171		
2,200.0	2,182.7	2,196.8	2,194.4	5.7	4.1	-179.51	3.6	46.8	184.9	177.3	7.61	24.295		
2,300.0	2,281.4	2,296.4	2,293.8	6.0	4.3	-179.50	4.0	53.1	194.3	186.4	7.96	24.408		
2,400.0	2,380.2	2,396.0	2,393.2	6.3	4.5	-179.49	4.3	59.4	203.7	195.4	8.31	24.512		
2,500.0	2,478.9	2,495.5	2,492.5	6.7	4.7	-179.49	4.7	65.8	213.1	204.4	8.66	24.607		
2,600.0	2,577.7	2,595.1	2,591.9	7.0	4.9	-179.48	5.1	72.1	222.4	213.4	9.01	24.695		
2,700.0	2,676.5	2,694.6	2,691.2	7.3	5.1	-179.47	5.5	78.4	231.8	222.4	9.36	24.777		
2,800.0	2,775.2	2,794.2	2,790.6	7.6	5.3	-179.46	5.9	84.8	241.2	231.5	9.70	24.852		
2,900.0	2,874.0	2,893.8	2,889.9	8.0	5.5	-179.46	6.3	91.1	250.5	240.5	10.05	24.922		
3,000.0	2,972.7	2,993.3	2,989.3	8.3	5.7	-179.45	6.7	97.4	259.9	249.5	10.40	24.988		
3,100.0	3,071.5	3,092.9	3,088.7	8.6	5.9	-179.45	7.0	103.8	269.3	258.5	10.75	25.049		
3,200.0	3,170.3	3,192.4	3,188.0	8.9	6.1	-179.44	7.4	110.1	278.6	267.5	11.10	25.107		
3,300.0	3,269.0	3,292.0	3,287.4	9.3	6.3	-179.44	7.8	116.4	288.0	276.6	11.45	25.161		
3,400.0	3,367.8	3,391.6	3,386.7	9.6	6.5	-179.43	8.2	122.8	297.4	285.6	11.79	25.212		
3,500.0	3,466.6	3,491.1	3,486.1	9.9	6.7	-179.43	8.6	129.1	306.7	294.6	12.14	25.260		
3,600.0	3,565.3	3,590.7	3,585.5	10.2	6.9	-179.43	9.0	135.4	316.1	303.6	12.49	25.305		
3,700.0	3,664.1	3,690.2	3,684.8	10.6	7.1	-179.42	9.4	141.8	325.5	312.6	12.84	25.348		
3,800.0	3,762.8	3,789.8	3,784.2	10.9	7.3	-179.42	9.7	148.1	334.9	321.7	13.19	25.388		
3,900.0	3,861.6	3,889.4	3,883.5	11.2	7.5	-179.42	10.1	154.4	344.2	330.7	13.54	25.427		
4,000.0	3,960.4	3,988.9	3,982.9	11.5	7.7	-179.41	10.5	160.8	353.6	339.7	13.89	25.464		
4,100.0	4,059.1	4,088.5	4,082.2	11.9	7.9	-179.41	10.9	167.1	363.0	348.7	14.23	25.498		
4,200.0	4,157.9	4,188.0	4,181.6	12.2	8.1	-179.41	11.3	173.4	372.3	357.7	14.58	25.531		
4,300.0	4,256.6	4,287.6	4,281.0	12.5	8.3	-179.40	11.7	179.8	381.7	366.8	14.93	25.563		
4,400.0	4,355.4	4,387.2	4,380.3	12.8	8.5	-179.40	12.1	186.1	391.1	375.8	15.28	25.593		
4,500.0	4,454.2	4,486.7	4,479.7	13.2	8.7	-179.40	12.4	192.4	400.4	384.8	15.63	25.622		
4,600.0	4,552.9	4,586.3	4,579.0	13.5	9.0	-179.40	12.8	198.8	409.8	393.8	15.98	25.649		
4,700.0	4,651.7	4,685.8	4,678.4	13.8	9.2	-179.40	13.2	205.1	419.2	402.8	16.33	25.676		
4,800.0	4,750.4	4,785.4	4,777.7	14.2	9.4	-179.39	13.6	211.4	428.5	411.9	16.67	25.701		
4,900.0	4,849.2	4,885.0	4,877.1	14.5	9.6	-179.39	14.0	217.8	437.9	420.9	17.02	25.725		
5,000.0	4,948.0	4,984.5	4,976.5	14.8	9.8	-179.39	14.4	224.1	447.3	429.9	17.37	25.749		
5,100.0	5,046.7	5,084.1	5,075.8	15.1	10.0	-179.39	14.7	230.4	456.7	438.9	17.72	25.771		

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 11-19H-B2683
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 11-19H-B2683	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		
5,200.0	5,145.5	5,183.6	5,175.2	15.5	10.2	-179.39	15.1	236.8	466.0	448.0	18.07	25.792			
5,300.0	5,244.3	5,283.2	5,274.5	15.8	10.4	-179.38	15.5	243.1	475.4	457.0	18.42	25.813			
5,400.0	5,343.0	5,382.8	5,373.9	16.1	10.6	-179.38	15.9	249.4	484.8	466.0	18.77	25.833			
5,500.0	5,441.8	5,482.3	5,473.3	16.4	10.8	-179.38	16.3	255.8	494.1	475.0	19.11	25.852			
5,600.0	5,540.5	5,581.9	5,572.6	16.8	11.0	-179.38	16.7	262.1	503.5	484.0	19.46	25.871			
5,700.0	5,639.3	5,681.4	5,672.0	17.1	11.2	-179.38	17.1	268.4	512.9	493.1	19.81	25.888			
5,800.0	5,738.1	5,781.0	5,771.3	17.4	11.4	-179.38	17.4	274.8	522.2	502.1	20.16	25.906			
5,900.0	5,836.8	5,880.6	5,870.7	17.7	11.6	-179.38	17.8	281.1	531.6	511.1	20.51	25.922			
6,000.0	5,935.6	5,980.1	5,970.0	18.1	11.8	-179.37	18.2	287.4	541.0	520.1	20.86	25.938			
6,100.0	6,034.3	6,079.7	6,069.4	18.4	12.0	-179.37	18.6	293.8	550.3	529.1	21.20	25.954			
6,200.0	6,133.1	6,179.2	6,168.8	18.7	12.2	-179.37	19.0	300.1	559.7	538.2	21.55	25.969			
6,300.0	6,231.9	6,278.8	6,268.1	19.1	12.4	-179.37	19.4	306.4	569.1	547.2	21.90	25.984			
6,400.0	6,330.6	6,378.4	6,367.5	19.4	12.7	-179.37	19.8	312.8	578.4	556.2	22.25	25.998			
6,500.0	6,429.4	6,477.9	6,466.8	19.7	12.9	-179.37	20.1	319.1	587.8	565.2	22.60	26.011			
6,600.0	6,528.1	6,577.5	6,566.2	20.0	13.1	-179.37	20.5	325.4	597.2	574.2	22.95	26.025			
6,700.0	6,626.9	6,675.9	6,664.3	20.4	13.3	-179.48	19.7	331.7	606.6	583.3	23.29	26.043			
6,800.0	6,725.4	6,772.1	6,759.6	20.7	13.5	137.27	8.0	337.8	616.2	592.5	23.65	26.051			
6,900.0	6,822.1	6,867.6	6,851.8	21.0	13.7	116.29	-16.2	343.6	625.6	601.5	24.08	25.983			
7,000.0	6,915.1	6,962.6	6,939.4	21.3	13.9	106.23	-52.1	349.2	634.6	610.0	24.62	25.777			
7,100.0	7,002.6	7,057.1	7,021.1	21.7	14.2	100.46	-99.1	354.4	643.1	617.8	25.32	25.398			
7,200.0	7,082.9	7,150.0	7,094.8	22.0	14.5	96.75	-155.5	359.1	650.9	624.7	26.21	24.837			
7,300.0	7,154.4	7,245.1	7,162.0	22.5	15.0	94.20	-222.5	363.4	657.9	630.5	27.32	24.078			
7,400.0	7,215.8	7,338.9	7,219.0	23.0	15.6	92.41	-296.8	367.1	663.8	635.1	28.64	23.173			
7,500.0	7,265.9	7,432.6	7,265.9	23.5	16.3	91.17	-377.8	370.0	668.5	638.3	30.18	22.154			
7,600.0	7,303.6	7,526.3	7,301.8	24.2	17.1	90.39	-464.3	372.3	672.1	640.2	31.90	21.066			
7,700.0	7,328.2	7,620.2	7,326.1	25.0	18.1	89.98	-554.9	373.9	674.3	640.5	33.80	19.949			
7,800.0	7,339.3	7,714.3	7,338.4	25.8	19.2	89.93	-648.1	374.7	675.2	639.4	35.85	18.836			
7,900.0	7,341.5	7,811.3	7,340.0	26.8	20.4	89.88	-745.1	374.8	675.5	637.2	38.32	17.627			
7,900.0	7,340.0	7,811.4	7,340.0	26.8	20.4	90.00	-745.2	374.8	675.2	636.9	38.32	17.619			
8,000.0	7,340.0	7,911.4	7,340.0	27.8	21.7	90.00	-845.2	374.8	675.2	634.2	41.08	16.437			
8,100.0	7,340.0	8,011.4	7,340.0	28.8	23.0	90.00	-945.2	374.8	675.2	631.3	43.94	15.367			
8,200.0	7,340.0	8,111.4	7,340.0	30.0	24.5	90.00	-1,045.2	374.8	675.2	628.3	46.89	14.400			
8,300.0	7,340.0	8,211.4	7,340.0	31.2	25.9	90.00	-1,145.2	374.8	675.2	625.3	49.92	13.528			
8,400.0	7,340.0	8,311.4	7,340.0	32.4	27.4	90.00	-1,245.2	374.8	675.2	622.2	53.00	12.741			
8,500.0	7,340.0	8,411.4	7,340.0	33.7	28.9	90.00	-1,345.2	374.8	675.2	619.1	56.13	12.030			
8,600.0	7,340.0	8,511.4	7,340.0	35.0	30.5	90.00	-1,445.2	374.8	675.2	615.9	59.31	11.386			
8,700.0	7,340.0	8,611.4	7,340.0	36.4	32.0	90.00	-1,545.2	374.8	675.2	612.7	62.52	10.801			
8,800.0	7,340.0	8,711.4	7,340.0	37.8	33.6	90.00	-1,645.2	374.8	675.2	609.5	65.76	10.269			
8,900.0	7,340.0	8,811.4	7,340.0	39.2	35.2	90.00	-1,745.2	374.8	675.2	606.2	69.02	9.783			
9,000.0	7,340.0	8,911.4	7,340.0	40.7	36.8	90.00	-1,845.2	374.8	675.1	602.9	72.13	9.359			
9,100.0	7,340.0	9,011.4	7,340.0	42.1	38.4	90.00	-1,945.2	374.8	673.4	598.4	75.01	8.977			
9,200.0	7,340.0	9,111.3	7,340.0	43.6	40.1	90.00	-2,045.1	374.8	670.0	592.1	77.89	8.602			
9,300.0	7,340.0	9,211.2	7,340.0	45.1	41.7	90.00	-2,145.0	374.8	665.0	584.1	80.97	8.213			
9,400.0	7,340.0	9,311.1	7,340.0	46.6	43.4	90.00	-2,244.8	374.8	659.8	575.5	84.31	7.825			
9,500.0	7,340.0	9,410.9	7,340.0	48.1	45.0	90.00	-2,344.7	374.8	654.7	566.8	87.89	7.450			
9,600.0	7,340.0	9,510.9	7,340.0	49.6	46.7	90.00	-2,444.6	374.8	651.2	559.4	91.72	7.100			
9,700.0	7,340.0	9,610.8	7,340.0	51.2	48.4	90.00	-2,544.6	374.8	649.3	553.8	95.54	6.796			
9,778.8	7,340.0	9,689.6	7,340.0	52.5	49.7	90.00	-2,623.4	374.8	648.9	550.5	98.40	6.595			
9,800.0	7,340.0	9,710.8	7,340.0	52.8	50.0	90.00	-2,644.6	374.8	649.1	549.9	99.16	6.545			
9,900.0	7,340.0	9,810.8	7,340.0	54.4	51.7	90.00	-2,744.6	374.8	649.1	546.5	102.57	6.328			
10,000.0	7,340.0	9,910.8	7,340.0	56.0	53.4	90.00	-2,844.6	374.8	649.1	543.1	105.98	6.125			
10,100.0	7,340.0	10,010.8	7,340.0	57.6	55.1	90.00	-2,944.6	374.8	649.1	539.7	109.39	5.933			

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 11-19H-B2683
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 11-19H-B2683	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		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)			
10,200.0	7,340.0	10,110.8	7,340.0	59.3	56.8	90.00	-3,044.6	374.8	649.1	536.3	112.81	5.754	
10,300.0	7,340.0	10,210.8	7,340.0	60.9	58.5	90.00	-3,144.6	374.8	649.1	532.8	116.24	5.584	
10,400.0	7,340.0	10,310.8	7,340.0	62.5	60.2	90.00	-3,244.6	374.8	649.1	529.4	119.67	5.424	
10,500.0	7,340.0	10,410.8	7,340.0	64.2	61.9	90.00	-3,344.6	374.8	649.1	526.0	123.10	5.273	
10,600.0	7,340.0	10,510.8	7,340.0	65.8	63.6	90.00	-3,444.6	374.8	649.9	523.0	126.95	5.120	
10,700.0	7,340.0	10,610.8	7,340.0	67.5	65.3	90.00	-3,544.6	374.8	651.8	521.4	130.42	4.998	
10,800.0	7,340.0	10,710.8	7,340.0	69.2	67.1	90.00	-3,644.6	374.8	653.7	519.8	133.87	4.883	
10,900.0	7,340.0	10,810.8	7,340.0	70.9	68.8	90.00	-3,744.6	374.8	655.6	518.3	137.32	4.774	
11,000.0	7,340.0	10,910.8	7,340.0	72.5	70.5	90.00	-3,844.5	374.8	657.5	516.7	140.77	4.671	
11,100.0	7,340.0	11,010.7	7,340.0	74.2	72.2	90.00	-3,944.5	374.8	659.4	515.2	144.23	4.572	
11,200.0	7,340.0	11,110.7	7,340.0	75.9	73.9	90.00	-4,044.5	374.8	661.3	513.6	147.69	4.478	
11,300.0	7,340.0	11,210.7	7,340.0	77.6	75.7	90.00	-4,144.5	374.8	663.2	512.0	151.15	4.388	
11,400.0	7,340.0	11,310.7	7,340.0	79.3	77.4	90.00	-4,244.5	374.8	665.1	510.5	154.61	4.302	
11,500.0	7,340.0	11,410.7	7,340.0	81.0	79.1	90.00	-4,344.5	374.8	667.0	508.9	158.08	4.219	
11,600.0	7,340.0	11,510.7	7,340.0	82.7	80.8	90.00	-4,444.4	374.8	668.9	507.3	161.54	4.140	
11,700.0	7,340.0	11,610.6	7,340.0	84.4	82.6	90.00	-4,544.4	374.8	670.7	505.7	165.01	4.065	
11,800.0	7,340.0	11,710.6	7,340.0	86.1	84.3	90.00	-4,644.4	374.8	672.6	504.2	168.48	3.992	
11,900.0	7,340.0	11,810.6	7,340.0	87.8	86.0	90.00	-4,744.4	374.8	674.5	502.6	171.95	3.923	
11,931.3	7,340.0	11,841.9	7,340.0	88.3	86.6	90.00	-4,775.7	374.8	675.1	502.1	173.04	3.902 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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							
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	-92.07	-0.7	-20.1	20.1					
100.0	100.0	100.0	100.0	0.2	0.2	-92.07	-0.7	-20.1	20.1	19.8	0.30	66.336		
200.0	200.0	200.0	200.0	0.3	0.3	-92.07	-0.7	-20.1	20.1	19.5	0.65	30.862		
300.0	300.0	300.0	300.0	0.5	0.5	-92.07	-0.7	-20.1	20.1	19.1	1.00	20.109		
400.0	400.0	400.0	400.0	0.7	0.7	-92.07	-0.7	-20.1	20.1	18.8	1.35	14.913		
500.0	500.0	500.0	500.0	0.8	0.8	-92.07	-0.7	-20.1	20.1	18.4	1.70	11.851	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	-179.65	-0.7	-20.1	21.9	19.8	2.05	10.688		
700.0	699.8	699.8	699.8	1.2	1.2	-179.71	-0.7	-20.1	27.1	24.7	2.39	11.328		
800.0	799.5	800.7	800.6	1.4	1.4	-179.77	-0.7	-18.4	34.1	31.4	2.74	12.442		
900.0	898.7	901.8	901.6	1.7	1.6	-179.82	-0.4	-13.0	41.0	37.9	3.08	13.303		
1,000.0	997.5	1,001.8	1,001.3	1.9	1.8	-179.85	-0.1	-5.4	48.6	45.2	3.43	14.179		
1,100.0	1,096.3	1,101.4	1,100.7	2.2	2.0	-179.87	0.2	2.4	56.6	52.8	3.78	14.981		
1,200.0	1,195.1	1,201.1	1,200.1	2.5	2.2	-179.89	0.6	10.1	64.6	60.5	4.13	15.647		
1,300.0	1,293.8	1,300.8	1,299.4	2.8	2.4	-179.91	0.9	17.8	72.6	68.1	4.48	16.209		
1,400.0	1,392.6	1,400.5	1,398.8	3.1	2.6	-179.92	1.2	25.6	80.6	75.7	4.83	16.690		
1,500.0	1,491.3	1,500.2	1,498.2	3.5	2.8	-179.93	1.5	33.3	88.5	83.4	5.18	17.107		
1,600.0	1,590.1	1,599.9	1,597.6	3.8	3.0	-179.94	1.9	41.0	96.5	91.0	5.52	17.471		
1,700.0	1,688.9	1,699.5	1,697.0	4.1	3.2	-179.94	2.2	48.7	104.5	98.6	5.87	17.792		
1,800.0	1,787.6	1,799.2	1,796.3	4.4	3.4	-179.95	2.5	56.5	112.5	106.3	6.22	18.077		
1,900.0	1,886.4	1,898.9	1,895.7	4.7	3.6	-179.96	2.8	64.2	120.5	113.9	6.57	18.331		
2,000.0	1,985.1	1,998.6	1,995.1	5.0	3.8	-179.96	3.2	71.9	128.5	121.5	6.92	18.560		
2,100.0	2,083.9	2,098.3	2,094.5	5.4	4.1	-179.96	3.5	79.6	136.4	129.2	7.27	18.768		
2,200.0	2,182.7	2,197.9	2,193.9	5.7	4.3	-179.97	3.8	87.4	144.4	136.8	7.62	18.956		
2,300.0	2,281.4	2,297.6	2,293.2	6.0	4.5	-179.97	4.2	95.1	152.4	144.4	7.97	19.128		
2,400.0	2,380.2	2,397.3	2,392.6	6.3	4.7	-179.97	4.5	102.8	160.4	152.1	8.32	19.285		
2,500.0	2,478.9	2,497.0	2,492.0	6.7	4.9	-179.98	4.8	110.6	168.4	159.7	8.67	19.430		
2,600.0	2,577.7	2,596.7	2,591.4	7.0	5.1	-179.98	5.1	118.3	176.3	167.3	9.01	19.563		
2,700.0	2,676.5	2,696.3	2,690.8	7.3	5.4	-179.98	5.5	126.0	184.3	175.0	9.36	19.687		
2,800.0	2,775.2	2,796.0	2,790.2	7.6	5.6	-179.98	5.8	133.7	192.3	182.6	9.71	19.802		
2,900.0	2,874.0	2,895.7	2,889.5	8.0	5.8	-179.98	6.1	141.5	200.3	190.2	10.06	19.908		
3,000.0	2,972.7	2,995.4	2,988.9	8.3	6.0	-179.99	6.5	149.2	208.3	197.9	10.41	20.008		
3,100.0	3,071.5	3,095.1	3,088.3	8.6	6.2	-179.99	6.8	156.9	216.3	205.5	10.76	20.101		
3,200.0	3,170.3	3,194.7	3,187.7	8.9	6.5	-179.99	7.1	164.7	224.2	213.1	11.11	20.188		
3,300.0	3,269.0	3,294.4	3,287.1	9.3	6.7	-179.99	7.4	172.4	232.2	220.8	11.46	20.271		
3,400.0	3,367.8	3,394.1	3,386.4	9.6	6.9	-179.99	7.8	180.1	240.2	228.4	11.81	20.348		
3,500.0	3,466.6	3,493.8	3,485.8	9.9	7.1	-179.99	8.1	187.8	248.2	236.0	12.15	20.420		
3,600.0	3,565.3	3,593.5	3,585.2	10.2	7.3	-179.99	8.4	195.6	256.2	243.7	12.50	20.489		
3,700.0	3,664.1	3,693.2	3,684.6	10.6	7.6	-179.99	8.7	203.3	264.2	251.3	12.85	20.554		
3,800.0	3,762.8	3,792.8	3,784.0	10.9	7.8	-180.00	9.1	211.0	272.1	258.9	13.20	20.616		
3,900.0	3,861.6	3,892.5	3,883.3	11.2	8.0	-180.00	9.4	218.7	280.1	266.6	13.55	20.674		
4,000.0	3,960.4	3,992.2	3,982.7	11.5	8.2	-180.00	9.7	226.5	288.1	274.2	13.90	20.730		
4,100.0	4,059.1	4,091.9	4,082.1	11.9	8.4	-180.00	10.1	234.2	296.1	281.8	14.25	20.782		
4,200.0	4,157.9	4,191.6	4,181.5	12.2	8.7	-180.00	10.4	241.9	304.1	289.5	14.60	20.833		
4,300.0	4,256.6	4,291.2	4,280.9	12.5	8.9	-180.00	10.7	249.7	312.1	297.1	14.95	20.880		
4,400.0	4,355.4	4,390.9	4,380.2	12.8	9.1	-180.00	11.0	257.4	320.0	304.7	15.29	20.926		
4,500.0	4,454.2	4,490.6	4,479.6	13.2	9.3	180.00	11.4	265.1	328.0	312.4	15.64	20.970		
4,600.0	4,552.9	4,590.3	4,579.0	13.5	9.5	180.00	11.7	272.8	336.0	320.0	15.99	21.012		
4,700.0	4,651.7	4,690.0	4,678.4	13.8	9.7	180.00	12.0	280.6	344.0	327.7	16.34	21.052		
4,800.0	4,750.4	4,789.6	4,777.8	14.2	10.0	180.00	12.3	288.3	352.0	335.3	16.69	21.090		
4,900.0	4,849.2	4,889.3	4,877.1	14.5	10.2	180.00	12.7	296.0	360.0	342.9	17.04	21.127		
5,000.0	4,948.0	4,989.0	4,976.5	14.8	10.4	180.00	13.0	303.7	367.9	350.6	17.39	21.162		
5,100.0	5,046.7	5,088.7	5,075.9	15.1	10.6	180.00	13.3	311.5	375.9	358.2	17.74	21.196		

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 11-19H-B2683
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 11-19H-B2683	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	5,145.5	5,188.4	5,175.3	15.5	10.8	180.00	13.7	319.2	383.9	365.8	18.08	21.228		
5,300.0	5,244.3	5,288.0	5,274.7	15.8	11.1	180.00	14.0	326.9	391.9	373.5	18.43	21.260		
5,400.0	5,343.0	5,387.7	5,374.0	16.1	11.3	179.99	14.3	334.7	399.9	381.1	18.78	21.290		
5,500.0	5,441.8	5,487.4	5,473.4	16.4	11.5	179.99	14.6	342.4	407.9	388.7	19.13	21.319		
5,600.0	5,540.5	5,587.1	5,572.8	16.8	11.7	179.99	15.0	350.1	415.8	396.4	19.48	21.347		
5,700.0	5,639.3	5,686.8	5,672.2	17.1	11.9	179.99	15.3	357.8	423.8	404.0	19.83	21.374		
5,800.0	5,738.1	5,786.4	5,771.6	17.4	12.2	179.99	15.6	365.6	431.8	411.6	20.18	21.400		
5,900.0	5,836.8	5,886.1	5,870.9	17.7	12.4	179.99	16.0	373.3	439.8	419.3	20.53	21.426		
6,000.0	5,935.6	5,985.8	5,970.3	18.1	12.6	179.99	16.3	381.0	447.8	426.9	20.88	21.450		
6,100.0	6,034.3	6,085.5	6,069.7	18.4	12.8	179.99	16.6	388.8	455.8	434.5	21.22	21.473		
6,200.0	6,133.1	6,185.2	6,169.1	18.7	13.0	179.99	16.9	396.5	463.7	442.2	21.57	21.496		
6,300.0	6,231.9	6,284.9	6,268.5	19.1	13.3	179.99	17.3	404.2	471.7	449.8	21.92	21.518		
6,400.0	6,330.6	6,384.5	6,367.8	19.4	13.5	179.99	17.6	411.9	479.7	457.4	22.27	21.540		
6,500.0	6,429.4	6,484.2	6,467.2	19.7	13.7	179.99	17.9	419.7	487.7	465.1	22.62	21.561		
6,600.0	6,528.1	6,583.9	6,566.6	20.0	13.9	179.99	18.2	427.4	495.7	472.7	22.97	21.581		
6,700.0	6,626.9	6,683.6	6,666.0	20.4	14.1	179.99	18.6	435.1	503.7	480.3	23.32	21.600		
6,800.0	6,725.4	6,781.9	6,764.0	20.7	14.4	137.99	17.4	442.7	511.4	487.7	23.67	21.606		
6,900.0	6,822.1	6,879.6	6,860.5	21.0	14.6	118.41	4.9	450.2	519.0	495.0	24.03	21.597		
7,000.0	6,915.1	6,978.3	6,955.4	21.3	14.8	109.67	-20.9	457.6	526.5	502.0	24.44	21.543		
7,100.0	7,002.6	7,078.0	7,046.7	21.7	15.1	105.14	-60.1	464.7	533.6	508.6	24.94	21.397		
7,200.0	7,082.9	7,178.9	7,132.7	22.0	15.4	102.56	-112.3	471.4	540.2	514.6	25.59	21.108		
7,300.0	7,154.4	7,281.0	7,211.4	22.5	15.8	101.01	-176.9	477.5	546.2	519.7	26.47	20.633		
7,400.0	7,215.8	7,384.2	7,280.9	23.0	16.3	100.09	-253.0	482.9	551.5	523.8	27.64	19.952		
7,500.0	7,265.9	7,488.6	7,339.3	23.5	17.0	99.58	-339.2	487.5	555.9	526.8	29.14	19.077		
7,600.0	7,303.6	7,594.0	7,384.9	24.2	17.9	99.37	-434.0	491.0	559.3	528.4	30.98	18.053		
7,700.0	7,328.2	7,700.3	7,416.5	25.0	18.9	99.39	-535.4	493.5	561.7	528.6	33.16	16.941		
7,800.0	7,339.3	7,807.4	7,432.8	25.8	20.0	99.58	-641.2	494.7	563.0	527.4	35.62	15.806		
7,900.0	7,340.0	7,911.4	7,435.0	26.8	21.3	99.71	-745.2	494.9	563.2	524.9	38.23	14.730		
8,000.0	7,340.0	8,011.4	7,435.0	27.8	22.5	99.71	-845.2	494.9	563.2	522.2	40.93	13.760		
8,100.0	7,340.0	8,111.4	7,435.0	28.8	23.8	99.71	-945.2	494.9	563.2	519.4	43.73	12.878		
8,200.0	7,340.0	8,211.4	7,435.0	30.0	25.2	99.71	-1,045.2	494.9	563.2	516.5	46.62	12.079		
8,300.0	7,340.0	8,311.4	7,435.0	31.2	26.6	99.71	-1,145.2	494.9	563.2	513.6	49.59	11.357		
8,400.0	7,340.0	8,411.4	7,435.0	32.4	28.1	99.71	-1,245.2	494.9	563.2	510.5	52.61	10.704		
8,500.0	7,340.0	8,511.4	7,435.0	33.7	29.5	99.71	-1,345.2	494.9	563.2	507.5	55.68	10.113		
8,600.0	7,340.0	8,611.4	7,435.0	35.0	31.1	99.71	-1,445.2	494.9	563.2	504.4	58.80	9.577		
8,700.0	7,340.0	8,711.4	7,435.0	36.4	32.6	99.71	-1,545.2	494.9	563.2	501.2	61.96	9.090		
8,800.0	7,340.0	8,811.4	7,435.0	37.8	34.1	99.71	-1,645.2	494.9	563.2	498.0	65.14	8.645		
8,900.0	7,340.0	8,911.4	7,435.0	39.2	35.7	99.71	-1,745.2	494.9	563.2	494.8	68.35	8.239		
9,000.0	7,340.0	9,011.4	7,435.0	40.7	37.3	99.72	-1,845.2	494.9	563.0	491.6	71.39	7.886		
9,100.0	7,340.0	9,111.4	7,435.0	42.1	38.9	99.75	-1,945.2	494.9	561.3	487.1	74.20	7.565		
9,200.0	7,340.0	9,211.4	7,435.0	43.6	40.5	99.81	-2,045.1	494.9	558.0	481.0	76.99	7.248		
9,300.0	7,340.0	9,311.2	7,435.0	45.1	42.2	99.90	-2,145.0	494.9	553.1	473.1	79.98	6.915		
9,400.0	7,340.0	9,411.1	7,435.0	46.6	43.8	100.00	-2,244.8	494.9	547.9	464.7	83.25	6.582		
9,500.0	7,340.0	9,511.0	7,435.0	48.1	45.4	100.09	-2,344.7	494.9	543.0	456.2	86.75	6.259		
9,600.0	7,340.0	9,610.9	7,435.0	49.6	47.1	100.15	-2,444.6	494.9	539.4	448.9	90.53	5.959		
9,700.0	7,340.0	9,710.9	7,435.0	51.2	48.8	100.18	-2,544.6	494.9	537.6	443.3	94.30	5.701		
9,778.8	7,340.0	9,789.7	7,435.0	52.5	50.1	100.19	-2,623.4	494.9	537.2	440.1	97.12	5.531		
9,800.0	7,340.0	9,810.9	7,435.0	52.8	50.4	100.18	-2,644.6	494.9	537.4	439.5	97.88	5.490		
9,900.0	7,340.0	9,910.9	7,435.0	54.4	52.1	100.18	-2,744.6	494.9	537.4	436.2	101.22	5.309		
10,000.0	7,340.0	10,010.9	7,435.0	56.0	53.8	100.18	-2,844.6	494.9	537.4	432.8	104.58	5.139		
10,100.0	7,340.0	10,110.9	7,435.0	57.6	55.5	100.18	-2,944.6	494.9	537.4	429.4	107.93	4.979		
10,200.0	7,340.0	10,210.9	7,435.0	59.3	57.2	100.18	-3,044.6	494.9	537.4	426.1	111.30	4.828		

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 11-19H-B2683
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 11-19H-B2683	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										
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Total	Separation					
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis		Warning				
10,300.0	7,340.0	10,310.9	7,435.0	60.9	58.8	100.18	-3,144.6	494.9	537.4	422.7	114.67	4.686					
10,400.0	7,340.0	10,410.9	7,435.0	62.5	60.5	100.18	-3,244.6	494.9	537.4	419.3	118.04	4.552					
10,500.0	7,340.0	10,510.9	7,435.0	64.2	62.2	100.18	-3,344.6	494.9	537.4	416.0	121.42	4.426					
10,600.0	7,340.0	10,610.9	7,435.0	65.8	63.9	100.17	-3,444.6	494.9	538.2	413.0	125.23	4.298					
10,700.0	7,340.0	10,710.9	7,435.0	67.5	65.6	100.13	-3,544.6	494.9	540.1	411.4	128.67	4.198					
10,800.0	7,340.0	10,810.9	7,435.0	69.2	67.3	100.10	-3,644.6	494.9	542.0	409.9	132.07	4.103					
10,900.0	7,340.0	10,910.8	7,435.0	70.9	69.1	100.06	-3,744.6	494.9	543.8	408.3	135.48	4.014					
11,000.0	7,340.0	11,010.8	7,435.0	72.5	70.8	100.03	-3,844.5	494.9	545.7	406.8	138.89	3.929					
11,100.0	7,340.0	11,110.8	7,435.0	74.2	72.5	99.99	-3,944.5	494.9	547.5	405.2	142.31	3.848					
11,200.0	7,340.0	11,210.8	7,435.0	75.9	74.2	99.96	-4,044.5	494.9	549.4	403.7	145.73	3.770					
11,300.0	7,340.0	11,310.8	7,435.0	77.6	75.9	99.93	-4,144.5	494.9	551.3	402.1	149.15	3.696					
11,400.0	7,340.0	11,433.0	7,435.0	79.3	78.0	99.91	-4,266.7	496.3	552.2	399.2	152.94	3.610					
11,500.0	7,340.0	11,579.5	7,435.0	81.0	80.6	100.08	-4,412.7	508.6	545.8	388.7	157.06	3.475					
11,600.0	7,340.0	11,723.4	7,435.0	82.7	83.1	100.50	-4,554.4	532.9	531.0	370.0	160.99	3.298					
11,700.0	7,340.0	11,862.6	7,435.0	84.4	85.4	101.19	-4,689.2	567.8	508.1	343.5	164.64	3.086					
11,800.0	7,340.0	11,962.7	7,435.0	86.1	87.2	101.91	-4,784.1	599.6	478.6	311.0	167.57	2.856					
11,900.0	7,340.0	11,962.7	7,435.0	87.8	87.2	101.91	-4,784.1	599.6	461.3	292.0	169.27	2.725					
11,931.2	7,340.0	11,962.7	7,435.0	88.3	87.2	101.91	-4,784.1	599.6	460.3	290.5	169.80	2.711					
11,931.3	7,340.0	11,962.7	7,435.0	88.3	87.2	101.91	-4,784.1	599.6	460.3	290.5	169.80	2.711 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	-92.05	-0.4	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-92.05	-0.4	-10.1	10.1	9.8	0.30	33.168		
200.0	200.0	200.0	200.0	0.3	0.3	-92.05	-0.4	-10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	-92.05	-0.4	-10.1	10.1	9.1	1.00	10.054		
400.0	400.0	400.0	400.0	0.7	0.7	-92.05	-0.4	-10.1	10.1	8.7	1.35	7.456		
500.0	500.0	500.0	500.0	0.8	0.8	-92.05	-0.4	-10.1	10.1	8.4	1.70	5.925	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	-179.65	-0.4	-10.1	11.8	9.8	2.05	5.770		
700.0	699.8	700.4	700.4	1.2	1.2	-179.72	-0.3	-8.3	15.3	12.9	2.40	6.388		
800.0	799.5	800.9	800.8	1.4	1.4	-179.76	0.0	-3.0	18.8	16.0	2.74	6.847		
900.0	898.7	901.6	901.0	1.7	1.6	-179.77	0.3	5.8	22.2	19.1	3.08	7.201		
1,000.0	997.5	1,002.0	1,000.7	1.9	1.8	-179.77	0.9	17.8	25.5	22.1	3.43	7.435		
1,100.0	1,096.3	1,102.0	1,099.9	2.2	2.1	-179.76	1.4	30.3	28.7	24.9	3.78	7.577		
1,200.0	1,195.1	1,201.9	1,199.1	2.5	2.3	-179.76	2.0	42.9	31.8	27.7	4.13	7.695		
1,300.0	1,293.8	1,301.9	1,298.2	2.8	2.6	-179.76	2.5	55.5	34.9	30.5	4.48	7.795		
1,400.0	1,392.6	1,401.8	1,397.4	3.1	2.8	-179.75	3.1	68.0	38.1	33.3	4.83	7.880		
1,500.0	1,491.3	1,501.8	1,496.5	3.5	3.1	-179.75	3.6	80.6	41.2	36.0	5.18	7.954		
1,600.0	1,590.1	1,601.7	1,595.7	3.8	3.4	-179.75	4.2	93.2	44.4	38.8	5.53	8.019		
1,700.0	1,688.9	1,701.7	1,694.8	4.1	3.6	-179.75	4.7	105.7	47.5	41.6	5.88	8.076		
1,800.0	1,787.6	1,801.6	1,794.0	4.4	3.9	-179.75	5.3	118.3	50.7	44.4	6.23	8.126		
1,900.0	1,886.4	1,901.6	1,893.1	4.7	4.2	-179.75	5.8	130.8	53.8	47.2	6.58	8.172		
2,000.0	1,985.1	2,001.5	1,992.3	5.0	4.5	-179.75	6.4	143.4	57.0	50.0	6.93	8.213		
2,100.0	2,083.9	2,101.5	2,091.5	5.4	4.7	-179.74	7.0	156.0	60.1	52.8	7.28	8.249		
2,200.0	2,182.7	2,201.4	2,190.6	5.7	5.0	-179.74	7.5	168.5	63.2	55.6	7.63	8.283		
2,300.0	2,281.4	2,301.4	2,289.8	6.0	5.3	-179.74	8.1	181.1	66.4	58.4	7.98	8.314		
2,400.0	2,380.2	2,401.3	2,388.9	6.3	5.6	-179.74	8.6	193.7	69.5	61.2	8.33	8.342		
2,500.0	2,478.9	2,501.3	2,488.1	6.7	5.8	-179.74	9.2	206.2	72.7	64.0	8.68	8.367		
2,600.0	2,577.7	2,601.2	2,587.2	7.0	6.1	-179.74	9.7	218.8	75.8	66.8	9.03	8.391		
2,700.0	2,676.5	2,701.2	2,686.4	7.3	6.4	-179.74	10.3	231.4	79.0	69.6	9.38	8.413		
2,800.0	2,775.2	2,801.1	2,785.6	7.6	6.7	-179.74	10.8	243.9	82.1	72.4	9.73	8.434		
2,900.0	2,874.0	2,901.1	2,884.7	8.0	7.0	-179.74	11.4	256.5	85.2	75.2	10.08	8.453		
3,000.0	2,972.7	3,001.0	2,983.9	8.3	7.2	-179.74	11.9	269.0	88.4	78.0	10.43	8.471		
3,100.0	3,071.5	3,101.0	3,083.0	8.6	7.5	-179.74	12.5	281.6	91.5	80.7	10.78	8.487		
3,200.0	3,170.3	3,200.9	3,182.2	8.9	7.8	-179.74	13.0	294.2	94.7	83.5	11.13	8.503		
3,300.0	3,269.0	3,300.9	3,281.3	9.3	8.1	-179.74	13.6	306.7	97.8	86.3	11.48	8.518		
3,400.0	3,367.8	3,400.8	3,380.5	9.6	8.4	-179.74	14.2	319.3	101.0	89.1	11.83	8.531		
3,500.0	3,466.6	3,500.8	3,479.7	9.9	8.6	-179.74	14.7	331.9	104.1	91.9	12.18	8.544		
3,600.0	3,565.3	3,600.7	3,578.8	10.2	8.9	-179.74	15.3	344.4	107.2	94.7	12.53	8.557		
3,700.0	3,664.1	3,700.7	3,678.0	10.6	9.2	-179.74	15.8	357.0	110.4	97.5	12.88	8.568		
3,800.0	3,762.8	3,800.6	3,777.1	10.9	9.5	-179.74	16.4	369.5	113.5	100.3	13.23	8.579		
3,900.0	3,861.6	3,900.6	3,876.3	11.2	9.8	-179.74	16.9	382.1	116.7	103.1	13.58	8.590		
4,000.0	3,960.4	4,000.5	3,975.4	11.5	10.0	-179.74	17.5	394.7	119.8	105.9	13.93	8.600		
4,100.0	4,059.1	4,100.5	4,074.6	11.9	10.3	-179.74	18.0	407.2	123.0	108.7	14.28	8.609		
4,200.0	4,157.9	4,200.4	4,173.7	12.2	10.6	-179.74	18.6	419.8	126.1	111.5	14.63	8.618		
4,300.0	4,256.6	4,300.4	4,272.9	12.5	10.9	-179.74	19.1	432.4	129.3	114.3	14.98	8.627		
4,400.0	4,355.4	4,400.3	4,372.1	12.8	11.2	-179.74	19.7	444.9	132.4	117.1	15.33	8.635		
4,500.0	4,454.2	4,500.3	4,471.2	13.2	11.4	-179.74	20.2	457.5	135.5	119.9	15.68	8.643		
4,600.0	4,552.9	4,600.2	4,570.4	13.5	11.7	-179.74	20.8	470.0	138.7	122.6	16.03	8.650		
4,700.0	4,651.7	4,700.2	4,669.5	13.8	12.0	-179.74	21.4	482.6	141.8	125.4	16.38	8.657		
4,800.0	4,750.4	4,800.1	4,768.7	14.2	12.3	-179.74	21.9	495.2	145.0	128.2	16.73	8.664		
4,900.0	4,849.2	4,900.1	4,867.8	14.5	12.6	-179.74	22.5	507.7	148.1	131.0	17.08	8.671		
5,000.0	4,948.0	5,000.0	4,967.0	14.8	12.8	-179.74	23.0	520.3	151.3	133.8	17.43	8.677		
5,100.0	5,046.7	5,100.0	5,066.2	15.1	13.1	-179.74	23.6	532.9	154.4	136.6	17.78	8.683		

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 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			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	5,145.5	5,199.9	5,165.3	15.5	13.4	-179.73	24.1	545.4	157.5	139.4	18.13	8.689		
5,300.0	5,244.3	5,299.9	5,264.5	15.8	13.7	-179.73	24.7	558.0	160.7	142.2	18.48	8.694		
5,400.0	5,343.0	5,399.8	5,363.6	16.1	14.0	-179.73	25.2	570.6	163.8	145.0	18.83	8.700		
5,500.0	5,441.8	5,499.8	5,462.8	16.4	14.2	-179.73	25.8	583.1	167.0	147.8	19.18	8.705		
5,600.0	5,540.5	5,599.7	5,561.9	16.8	14.5	-179.73	26.3	595.7	170.1	150.6	19.53	8.710		
5,700.0	5,639.3	5,699.7	5,661.1	17.1	14.8	-179.73	26.9	608.2	173.3	153.4	19.88	8.715		
5,800.0	5,738.1	5,799.7	5,760.2	17.4	15.1	-179.73	27.4	620.8	176.4	156.2	20.23	8.720		
5,900.0	5,836.8	5,899.6	5,859.4	17.7	15.4	-179.73	28.0	633.4	179.5	159.0	20.58	8.724		
6,000.0	5,935.6	5,999.6	5,958.6	18.1	15.7	-179.73	28.5	645.9	182.7	161.8	20.93	8.729		
6,100.0	6,034.3	6,099.5	6,057.7	18.4	15.9	-179.73	29.1	658.5	185.8	164.6	21.28	8.733		
6,200.0	6,133.1	6,199.5	6,156.9	18.7	16.2	-179.73	29.7	671.1	189.0	167.3	21.63	8.737		
6,300.0	6,231.9	6,299.4	6,256.0	19.1	16.5	-179.73	30.2	683.6	192.1	170.1	21.98	8.741		
6,400.0	6,330.6	6,399.4	6,355.2	19.4	16.8	-179.73	30.8	696.2	195.3	172.9	22.33	8.745		
6,500.0	6,429.4	6,499.3	6,454.3	19.7	17.1	-179.73	31.3	708.7	198.4	175.7	22.68	8.748		
6,600.0	6,528.1	6,599.3	6,553.5	20.0	17.3	-179.73	31.9	721.3	201.6	178.5	23.03	8.752		
6,700.0	6,626.9	6,699.2	6,652.7	20.4	17.6	-179.73	32.4	733.9	204.7	181.3	23.38	8.755		
6,800.0	6,725.4	6,798.9	6,751.5	20.7	17.9	139.93	33.0	746.4	207.7	183.9	23.74	8.747		
6,900.0	6,822.1	6,896.6	6,848.5	21.0	18.2	125.27	33.5	758.7	211.7	187.4	24.26	8.725		
7,000.0	6,915.1	6,997.1	6,947.9	21.3	18.5	122.95	27.4	771.2	218.9	193.9	24.96	8.771		
7,100.0	7,002.6	7,102.0	7,049.8	21.7	18.7	124.28	6.1	784.0	229.1	203.6	25.44	9.004		
7,200.0	7,082.9	7,211.7	7,151.8	22.0	19.0	126.83	-31.9	796.8	241.4	215.9	25.47	9.477		
7,300.0	7,154.4	7,326.6	7,251.1	22.5	19.4	129.62	-88.0	809.1	254.9	229.9	25.05	10.174		
7,400.0	7,215.8	7,446.9	7,344.2	23.0	19.9	132.21	-163.1	820.5	268.5	244.1	24.40	11.004		
7,500.0	7,265.9	7,572.5	7,426.7	23.5	20.5	134.40	-257.1	830.4	281.1	257.1	23.91	11.754		
7,600.0	7,303.6	7,703.0	7,493.8	24.2	21.2	136.10	-368.5	838.3	291.7	267.6	24.09	12.108		
7,700.0	7,328.2	7,837.5	7,540.8	25.0	22.3	137.25	-494.2	843.7	299.5	274.1	25.37	11.804		
7,800.0	7,339.3	7,974.8	7,564.0	25.8	23.5	137.84	-629.3	845.9	303.9	275.9	27.93	10.879		
7,900.0	7,340.0	8,089.7	7,566.0	26.8	24.6	137.87	-744.1	845.6	304.8	274.6	30.17	10.100		
8,000.0	7,340.0	8,189.7	7,566.0	27.8	25.7	137.80	-844.1	845.0	305.1	273.1	31.97	9.543		
8,100.0	7,340.0	8,289.7	7,566.0	28.8	26.9	137.72	-944.1	844.5	305.4	271.6	33.85	9.024		
8,200.0	7,340.0	8,389.7	7,566.0	30.0	28.1	137.65	-1,044.1	844.0	305.8	270.0	35.79	8.544		
8,300.0	7,340.0	8,489.7	7,566.0	31.2	29.3	137.58	-1,144.1	843.5	306.1	268.3	37.79	8.100		
8,400.0	7,340.0	8,589.7	7,566.0	32.4	30.7	137.51	-1,244.1	843.0	306.5	266.6	39.85	7.692		
8,500.0	7,340.0	8,689.7	7,566.0	33.7	32.0	137.44	-1,344.1	842.5	306.8	264.9	41.94	7.315		
8,600.0	7,340.0	8,789.7	7,566.0	35.0	33.4	137.37	-1,444.1	841.9	307.2	263.1	44.08	6.969		
8,700.0	7,340.0	8,889.7	7,566.0	36.4	34.8	137.30	-1,544.1	841.4	307.5	261.3	46.25	6.649		
8,800.0	7,340.0	8,989.7	7,566.0	37.8	36.3	137.23	-1,644.1	840.9	307.9	259.4	48.45	6.354		
8,900.0	7,340.0	9,089.6	7,566.0	39.2	37.8	137.16	-1,744.1	840.4	308.2	257.6	50.68	6.082		
9,000.0	7,340.0	9,189.6	7,566.0	40.7	39.3	137.11	-1,844.1	839.9	308.5	255.7	52.78	5.845		
9,100.0	7,340.0	9,289.6	7,566.0	42.1	40.8	137.27	-1,944.1	839.4	307.7	253.2	54.53	5.642		
9,200.0	7,340.0	9,389.6	7,566.0	43.6	42.4	137.68	-2,044.0	838.9	305.7	249.7	56.06	5.453		
9,300.0	7,340.0	9,489.5	7,566.0	45.1	43.9	138.32	-2,143.9	838.3	302.7	245.2	57.52	5.263		
9,400.0	7,340.0	9,589.4	7,566.0	46.6	45.5	138.99	-2,243.8	837.8	299.6	240.5	59.09	5.071		
9,500.0	7,340.0	9,689.3	7,566.0	48.1	47.1	139.64	-2,343.7	837.3	296.7	235.9	60.77	4.882		
9,600.0	7,340.0	9,789.2	7,566.0	49.6	48.7	140.08	-2,443.7	836.8	294.7	231.9	62.81	4.692		
9,700.0	7,340.0	9,889.2	7,566.0	51.2	50.3	140.27	-2,543.7	836.3	293.9	228.8	65.07	4.516		
9,727.5	7,340.0	9,916.8	7,566.0	51.7	50.7	140.28	-2,571.2	836.1	293.8	228.1	65.70	4.472		
9,800.0	7,340.0	9,989.2	7,566.0	52.8	51.9	140.23	-2,643.7	835.8	294.0	226.6	67.44	4.360		
9,900.0	7,340.0	10,089.2	7,566.0	54.4	53.5	140.16	-2,743.6	835.2	294.3	224.7	69.69	4.223		
10,000.0	7,340.0	10,189.2	7,566.0	56.0	55.2	140.08	-2,843.6	834.7	294.7	222.7	71.96	4.095		
10,100.0	7,340.0	10,289.2	7,566.0	57.6	56.8	140.00	-2,943.6	834.2	295.0	220.8	74.25	3.973		
10,200.0	7,340.0	10,389.2	7,566.0	59.3	58.4	139.93	-3,043.6	833.7	295.3	218.8	76.54	3.859		

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 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	7,340.0	10,489.2	7,566.0	60.9	60.1	139.85	-3,143.6	833.2	295.7	216.8	78.85	3.750	
10,400.0	7,340.0	10,589.2	7,566.0	62.5	61.8	139.77	-3,243.6	832.7	296.0	214.8	81.16	3.647	
10,500.0	7,340.0	10,689.2	7,566.0	64.2	63.4	139.70	-3,343.6	832.2	296.3	212.9	83.49	3.549	
10,600.0	7,340.0	10,789.2	7,566.0	65.8	65.1	139.50	-3,443.6	831.6	297.2	210.9	86.32	3.443	
10,700.0	7,340.0	10,889.2	7,566.0	67.5	66.8	139.15	-3,543.6	831.1	298.8	209.7	89.13	3.353	
10,800.0	7,340.0	10,989.1	7,566.0	69.2	68.4	138.80	-3,643.6	830.6	300.4	208.4	91.94	3.267	
10,900.0	7,340.0	11,089.1	7,566.0	70.9	70.1	138.46	-3,743.5	830.1	302.0	207.2	94.77	3.186	
11,000.0	7,340.0	11,189.1	7,566.0	72.5	71.8	138.12	-3,843.5	829.6	303.6	205.9	97.63	3.109	
11,100.0	7,340.0	11,289.1	7,566.0	74.2	73.5	137.78	-3,943.5	829.1	305.2	204.7	100.52	3.036	
11,200.0	7,340.0	11,389.0	7,566.0	75.9	75.2	137.45	-4,043.4	828.5	306.8	203.4	103.42	2.967	
11,300.0	7,340.0	11,489.0	7,566.0	77.6	76.9	137.12	-4,143.4	828.0	308.4	202.1	106.35	2.900	
11,400.0	7,340.0	11,589.0	7,566.0	79.3	78.6	136.80	-4,243.4	827.5	310.1	200.8	109.31	2.837	
11,500.0	7,340.0	11,688.9	7,566.0	81.0	80.3	136.47	-4,343.3	827.0	311.7	199.5	112.28	2.777	
11,600.0	7,340.0	11,788.9	7,566.0	82.7	82.0	136.15	-4,443.3	826.5	313.4	198.1	115.27	2.719	
11,700.0	7,340.0	11,888.9	7,566.0	84.4	83.7	135.84	-4,543.3	826.0	315.1	196.8	118.29	2.664	
11,800.0	7,340.0	11,988.9	7,566.0	86.1	85.4	135.53	-4,643.3	825.4	316.8	195.4	121.32	2.611	
11,900.0	7,340.0	12,088.8	7,566.0	87.8	87.1	135.22	-4,743.2	824.9	318.5	194.1	124.37	2.561	
11,931.3	7,340.0	12,120.1	7,566.0	88.3	87.6	135.12	-4,774.5	824.8	319.0	193.7	125.33	2.545 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.93	0.4	10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	87.93	0.4	10.1	10.1	9.8	0.30	33.168		
200.0	200.0	200.0	200.0	0.3	0.3	87.93	0.4	10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	87.93	0.4	10.1	10.1	9.1	1.00	10.054		
400.0	400.0	400.0	400.0	0.7	0.7	87.93	0.4	10.1	10.1	8.7	1.35	7.456 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.9	87.90	0.4	11.8	11.8	10.1	1.70	6.942		
600.0	600.0	599.1	598.9	1.0	1.0	0.35	0.6	17.0	15.3	13.2	2.05	7.465		
700.0	699.8	698.4	697.9	1.2	1.3	0.38	1.0	25.6	18.7	16.3	2.39	7.825		
800.0	799.5	797.7	796.4	1.4	1.5	0.43	1.4	37.6	22.1	19.4	2.74	8.091		
900.0	898.7	896.8	894.3	1.7	1.8	0.50	2.1	53.0	25.5	22.5	3.08	8.292		
1,000.0	997.5	996.5	992.3	1.9	2.1	0.58	2.8	71.0	28.4	25.0	3.43	8.298		
1,100.0	1,096.3	1,096.4	1,090.6	2.2	2.4	0.65	3.5	89.2	31.0	27.2	3.78	8.209		
1,200.0	1,195.1	1,196.4	1,188.9	2.5	2.8	0.71	4.2	107.5	33.6	29.5	4.13	8.135		
1,300.0	1,293.8	1,296.4	1,287.2	2.8	3.1	0.76	4.9	125.7	36.2	31.7	4.48	8.073		
1,400.0	1,392.6	1,396.3	1,385.5	3.1	3.5	0.81	5.6	143.9	38.8	33.9	4.83	8.021		
1,500.0	1,491.3	1,496.3	1,483.8	3.5	3.8	0.85	6.3	162.1	41.3	36.2	5.18	7.975		
1,600.0	1,590.1	1,596.3	1,582.1	3.8	4.2	0.88	7.1	180.3	43.9	38.4	5.53	7.936		
1,700.0	1,688.9	1,696.2	1,680.4	4.1	4.6	0.91	7.8	198.5	46.5	40.6	5.88	7.901		
1,800.0	1,787.6	1,796.2	1,778.7	4.4	4.9	0.94	8.5	216.7	49.1	42.8	6.24	7.870		
1,900.0	1,886.4	1,896.2	1,877.0	4.7	5.3	0.97	9.2	235.0	51.6	45.1	6.59	7.842		
2,000.0	1,985.1	1,996.1	1,975.3	5.0	5.6	0.99	9.9	253.2	54.2	47.3	6.94	7.818		
2,100.0	2,083.9	2,096.1	2,073.5	5.4	6.0	1.01	10.6	271.4	56.8	49.5	7.29	7.795		
2,200.0	2,182.7	2,196.1	2,171.8	5.7	6.4	1.03	11.4	289.6	59.4	51.7	7.64	7.775		
2,300.0	2,281.4	2,296.0	2,270.1	6.0	6.7	1.05	12.1	307.8	62.0	54.0	7.99	7.757		
2,400.0	2,380.2	2,396.0	2,368.4	6.3	7.1	1.06	12.8	326.0	64.5	56.2	8.34	7.740		
2,500.0	2,478.9	2,496.0	2,466.7	6.7	7.5	1.08	13.5	344.2	67.1	58.4	8.69	7.724		
2,600.0	2,577.7	2,595.9	2,565.0	7.0	7.8	1.09	14.2	362.5	69.7	60.7	9.04	7.710		
2,700.0	2,676.5	2,695.9	2,663.3	7.3	8.2	1.10	14.9	380.7	72.3	62.9	9.39	7.697		
2,800.0	2,775.2	2,795.9	2,761.6	7.6	8.6	1.12	15.6	398.9	74.9	65.1	9.74	7.685		
2,900.0	2,874.0	2,895.8	2,859.9	8.0	8.9	1.13	16.4	417.1	77.4	67.3	10.09	7.673		
3,000.0	2,972.7	2,995.8	2,958.2	8.3	9.3	1.14	17.1	435.3	80.0	69.6	10.44	7.663		
3,100.0	3,071.5	3,095.8	3,056.5	8.6	9.7	1.15	17.8	453.5	82.6	71.8	10.79	7.653		
3,200.0	3,170.3	3,195.7	3,154.7	8.9	10.0	1.16	18.5	471.7	85.2	74.0	11.14	7.643		
3,300.0	3,269.0	3,295.7	3,253.0	9.3	10.4	1.16	19.2	490.0	87.8	76.3	11.49	7.635		
3,400.0	3,367.8	3,395.7	3,351.3	9.6	10.8	1.17	19.9	508.2	90.3	78.5	11.85	7.626		
3,500.0	3,466.6	3,495.6	3,449.6	9.9	11.1	1.18	20.7	526.4	92.9	80.7	12.20	7.619		
3,600.0	3,565.3	3,595.6	3,547.9	10.2	11.5	1.19	21.4	544.6	95.5	82.9	12.55	7.611		
3,700.0	3,664.1	3,695.6	3,646.2	10.6	11.9	1.19	22.1	562.8	98.1	85.2	12.90	7.604		
3,800.0	3,762.8	3,795.5	3,744.5	10.9	12.2	1.20	22.8	581.0	100.7	87.4	13.25	7.598		
3,900.0	3,861.6	3,895.5	3,842.8	11.2	12.6	1.21	23.5	599.3	103.2	89.6	13.60	7.592		
4,000.0	3,960.4	3,995.5	3,941.1	11.5	13.0	1.21	24.2	617.5	105.8	91.9	13.95	7.586		
4,100.0	4,059.1	4,095.4	4,039.4	11.9	13.3	1.22	25.0	635.7	108.4	94.1	14.30	7.580		
4,200.0	4,157.9	4,195.4	4,137.6	12.2	13.7	1.22	25.7	653.9	111.0	96.3	14.65	7.575		
4,300.0	4,256.6	4,295.4	4,235.9	12.5	14.1	1.23	26.4	672.1	113.5	98.5	15.00	7.570		
4,400.0	4,355.4	4,395.3	4,334.2	12.8	14.4	1.23	27.1	690.3	116.1	100.8	15.35	7.565		
4,500.0	4,454.2	4,495.3	4,432.5	13.2	14.8	1.24	27.8	708.5	118.7	103.0	15.70	7.560		
4,600.0	4,552.9	4,595.3	4,530.8	13.5	15.2	1.24	28.5	726.8	121.3	105.2	16.05	7.556		
4,700.0	4,651.7	4,695.2	4,629.1	13.8	15.5	1.25	29.2	745.0	123.9	107.5	16.40	7.552		
4,800.0	4,750.4	4,795.2	4,727.4	14.2	15.9	1.25	30.0	763.2	126.4	109.7	16.75	7.548		
4,900.0	4,849.2	4,895.2	4,825.7	14.5	16.3	1.26	30.7	781.4	129.0	111.9	17.10	7.544		
5,000.0	4,948.0	4,995.1	4,924.0	14.8	16.6	1.26	31.4	799.6	131.6	114.1	17.45	7.540		
5,100.0	5,046.7	5,095.1	5,022.3	15.1	17.0	1.26	32.1	817.8	134.2	116.4	17.80	7.536		

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 11-19H-B2683
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 11-19H-B2683	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			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	5,145.5	5,195.1	5,120.6	15.5	17.4	1.27	32.8	836.0	136.8	118.6	18.15	7.533		
5,300.0	5,244.3	5,295.0	5,218.8	15.8	17.7	1.27	33.5	854.3	139.3	120.8	18.51	7.530		
5,400.0	5,343.0	5,395.0	5,317.1	16.1	18.1	1.27	34.3	872.5	141.9	123.1	18.86	7.526		
5,500.0	5,441.8	5,495.0	5,415.4	16.4	18.5	1.28	35.0	890.7	144.5	125.3	19.21	7.523		
5,600.0	5,540.5	5,594.9	5,513.7	16.8	18.8	1.28	35.7	908.9	147.1	127.5	19.56	7.520		
5,700.0	5,639.3	5,694.9	5,612.0	17.1	19.2	1.28	36.4	927.1	149.7	129.7	19.91	7.518		
5,800.0	5,738.1	5,794.9	5,710.3	17.4	19.6	1.28	37.1	945.3	152.2	132.0	20.26	7.515		
5,900.0	5,836.8	5,894.8	5,808.6	17.7	19.9	1.29	37.8	963.5	154.8	134.2	20.61	7.512		
6,000.0	5,935.6	5,994.8	5,906.9	18.1	20.3	1.29	38.6	981.8	157.4	136.4	20.96	7.510		
6,100.0	6,034.3	6,094.8	6,005.2	18.4	20.7	1.29	39.3	1,000.0	160.0	138.7	21.31	7.507		
6,200.0	6,133.1	6,194.7	6,103.5	18.7	21.0	1.30	40.0	1,018.2	162.5	140.9	21.66	7.505		
6,300.0	6,231.9	6,294.7	6,201.8	19.1	21.4	1.30	40.7	1,036.4	165.1	143.1	22.01	7.502		
6,400.0	6,330.6	6,394.7	6,300.0	19.4	21.8	1.30	41.4	1,054.6	167.7	145.3	22.36	7.500		
6,500.0	6,429.4	6,494.6	6,398.3	19.7	22.1	1.30	42.1	1,072.8	170.3	147.6	22.71	7.498		
6,600.0	6,528.1	6,594.6	6,496.6	20.0	22.5	1.30	42.9	1,091.0	172.9	149.8	23.06	7.496		
6,700.0	6,626.9	6,694.6	6,594.9	20.4	22.9	1.31	43.6	1,109.3	175.4	152.0	23.41	7.494		
6,800.0	6,725.4	6,794.2	6,692.9	20.7	23.2	-42.63	44.3	1,127.4	178.3	154.5	23.76	7.504		
6,900.0	6,822.1	6,894.7	6,791.6	21.0	23.6	-67.60	41.9	1,145.7	182.7	158.2	24.48	7.460		
7,000.0	6,915.1	6,998.3	6,892.1	21.3	24.0	-81.67	25.5	1,164.3	188.7	162.9	25.74	7.329		
7,100.0	7,002.6	7,105.0	6,992.0	21.7	24.3	-91.04	-6.6	1,182.9	195.8	168.5	27.27	7.182		
7,200.0	7,082.9	7,214.6	7,088.7	22.0	24.7	-97.92	-54.8	1,200.8	203.6	174.8	28.79	7.072		
7,300.0	7,154.4	7,327.2	7,179.3	22.5	25.2	-103.16	-119.5	1,217.5	211.6	181.4	30.12	7.023		
7,400.0	7,215.8	7,442.7	7,260.6	23.0	25.7	-107.14	-199.9	1,232.6	219.0	187.8	31.16	7.028		
7,500.0	7,265.9	7,560.8	7,329.6	23.5	26.2	-110.10	-294.7	1,245.4	225.5	193.5	31.92	7.064		
7,600.0	7,303.6	7,681.0	7,383.1	24.2	26.9	-112.16	-401.7	1,255.3	230.5	198.0	32.47	7.098		
7,700.0	7,328.2	7,802.7	7,418.6	25.0	27.8	-113.39	-517.8	1,261.9	233.8	200.8	32.93	7.098		
7,800.0	7,339.3	7,925.3	7,434.3	25.8	28.7	-113.85	-639.2	1,264.8	235.0	201.6	33.43	7.031		
7,900.0	7,341.5	8,031.3	7,435.0	26.8	29.6	-113.54	-745.1	1,264.9	234.2	198.8	35.37	6.622		
7,900.0	7,340.0	8,031.3	7,435.0	26.8	29.6	-113.84	-745.2	1,264.9	235.0	199.7	35.29	6.658		
8,000.0	7,340.0	8,131.3	7,435.0	27.8	30.5	-113.84	-845.2	1,264.9	235.0	197.2	37.84	6.210		
8,100.0	7,340.0	8,231.3	7,435.0	28.8	31.4	-113.84	-945.2	1,264.9	235.0	194.5	40.49	5.804		
8,200.0	7,340.0	8,331.3	7,435.0	30.0	32.5	-113.84	-1,045.2	1,264.9	235.0	191.8	43.21	5.439		
8,300.0	7,340.0	8,431.3	7,435.0	31.2	33.6	-113.84	-1,145.2	1,264.9	235.0	189.0	45.99	5.110		
8,400.0	7,340.0	8,531.3	7,435.0	32.4	34.7	-113.84	-1,245.2	1,264.9	235.0	186.2	48.83	4.813		
8,500.0	7,340.0	8,631.3	7,435.0	33.7	35.9	-113.84	-1,345.2	1,264.9	235.0	183.3	51.71	4.545		
8,600.0	7,340.0	8,731.3	7,435.0	35.0	37.2	-113.84	-1,445.2	1,264.9	235.0	180.4	54.63	4.302		
8,700.0	7,340.0	8,831.3	7,435.0	36.4	38.5	-113.84	-1,545.2	1,264.9	235.0	177.4	57.58	4.082		
8,800.0	7,340.0	8,931.3	7,435.0	37.8	39.8	-113.84	-1,645.2	1,264.9	235.0	174.4	60.55	3.881		
8,900.0	7,340.0	9,031.3	7,435.0	39.2	41.2	-113.84	-1,745.2	1,264.9	235.0	171.4	63.55	3.698		
8,933.6	7,340.0	9,064.9	7,435.0	39.7	41.6	-113.84	-1,778.8	1,264.9	235.0	170.6	64.48	3.645		
9,000.0	7,340.0	9,131.3	7,435.0	40.7	42.5	-113.83	-1,845.2	1,264.9	235.2	168.9	66.31	3.547		
9,100.0	7,340.0	9,231.3	7,435.0	42.1	44.0	-113.67	-1,945.2	1,264.9	236.7	167.9	68.80	3.440		
9,200.0	7,340.0	9,331.2	7,435.0	43.6	45.4	-113.36	-2,045.1	1,264.9	239.8	168.4	71.37	3.360		
9,300.0	7,340.0	9,431.1	7,435.0	45.1	46.9	-112.90	-2,145.0	1,264.9	244.4	170.1	74.31	3.289		
9,400.0	7,340.0	9,531.0	7,435.0	46.6	48.3	-112.44	-2,244.8	1,264.9	249.2	171.6	77.64	3.210		
9,500.0	7,340.0	9,630.8	7,435.0	48.1	49.8	-111.99	-2,344.7	1,264.9	253.9	172.6	81.29	3.123		
9,600.0	7,340.0	9,730.8	7,435.0	49.6	51.3	-111.68	-2,444.6	1,264.9	257.2	172.0	85.25	3.017		
9,700.0	7,340.0	9,830.7	7,435.0	51.2	52.9	-111.53	-2,544.6	1,264.9	258.9	169.8	89.14	2.905		
9,800.0	7,340.0	9,930.7	7,435.0	52.8	54.4	-111.50	-2,644.6	1,264.9	259.2	166.5	92.66	2.797		
9,900.0	7,340.0	10,030.7	7,435.0	54.4	56.0	-111.50	-2,744.6	1,264.9	259.2	163.3	95.83	2.704		
10,000.0	7,340.0	10,130.7	7,435.0	56.0	57.5	-111.50	-2,844.6	1,264.9	259.2	160.1	99.01	2.618		
10,100.0	7,340.0	10,230.7	7,435.0	57.6	59.1	-111.50	-2,944.6	1,264.9	259.2	157.0	102.19	2.536		

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 11-19H-B2683
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 11-19H-B2683	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 (°)	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)				
10,200.0	7,340.0	10,330.7	7,435.0	59.3	60.7	-111.50	-3,044.6	1,264.9	259.2	153.8	105.38	2.459		
10,300.0	7,340.0	10,430.7	7,435.0	60.9	62.3	-111.50	-3,144.6	1,264.9	259.2	150.6	108.57	2.387		
10,400.0	7,340.0	10,530.7	7,435.0	62.5	63.9	-111.50	-3,244.6	1,264.9	259.2	147.4	111.77	2.319		
10,500.0	7,340.0	10,630.7	7,435.0	64.2	65.5	-111.50	-3,344.6	1,264.9	259.2	144.2	114.97	2.254		
10,600.0	7,340.0	10,730.7	7,435.0	65.8	67.1	-111.58	-3,444.6	1,264.9	258.3	139.6	118.74	2.176		
10,700.0	7,340.0	10,830.7	7,435.0	67.5	68.7	-111.73	-3,544.6	1,264.9	256.6	134.7	121.87	2.105		
10,800.0	7,340.0	10,930.7	7,435.0	69.2	70.4	-111.89	-3,644.6	1,264.9	254.8	129.9	124.95	2.040		
10,900.0	7,340.0	11,030.7	7,435.0	70.9	72.0	-112.05	-3,744.6	1,264.9	253.1	125.1	128.02	1.977		
11,000.0	7,340.0	11,130.7	7,435.0	72.5	73.7	-112.21	-3,844.5	1,264.9	251.3	120.3	131.08	1.917		
11,100.0	7,340.0	11,230.6	7,435.0	74.2	75.3	-112.38	-3,944.5	1,264.9	249.6	115.4	134.13	1.861		
11,200.0	7,340.0	11,330.6	7,435.0	75.9	77.0	-112.54	-4,044.5	1,264.9	247.8	110.7	137.18	1.807		
11,300.0	7,340.0	11,430.6	7,435.0	77.6	78.6	-112.71	-4,144.5	1,264.9	246.1	105.9	140.21	1.755		
11,400.0	7,340.0	11,530.6	7,435.0	79.3	80.3	-112.88	-4,244.5	1,264.9	244.3	101.1	143.24	1.706		
11,500.0	7,340.0	11,630.6	7,435.0	81.0	81.9	-113.06	-4,344.5	1,264.9	242.6	96.3	146.26	1.659		
11,600.0	7,340.0	11,730.6	7,435.0	82.7	83.6	-113.23	-4,444.4	1,264.9	240.9	91.6	149.27	1.614		
11,700.0	7,340.0	11,830.5	7,435.0	84.4	85.3	-113.41	-4,544.4	1,264.9	239.1	86.9	152.26	1.570		
11,800.0	7,340.0	11,930.5	7,435.0	86.1	87.0	-113.59	-4,644.4	1,264.9	237.4	82.1	155.25	1.529		
11,900.0	7,340.0	12,030.5	7,435.0	87.8	88.6	-113.78	-4,744.4	1,264.9	235.7	77.4	158.22	1.489 Level 3		
11,931.3	7,340.0	12,057.8	7,435.0	88.3	89.1	-113.83	-4,771.7	1,264.9	235.1	76.1	159.09	1.478 Level 3, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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	87.90	0.7	19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.90	0.7	19.9	19.9	19.6	0.30	65.416		
200.0	200.0	200.0	200.0	0.3	0.3	87.90	0.7	19.9	19.9	19.2	0.65	30.434		
300.0	300.0	300.0	300.0	0.5	0.5	87.90	0.7	19.9	19.9	18.9	1.00	19.830 CC, ES		
400.0	400.0	399.3	399.3	0.7	0.7	87.90	0.8	21.6	20.2	13.5	1.35	15.972		
500.0	500.0	498.3	498.1	0.8	0.9	87.91	1.0	26.7	26.8	25.1	1.72	15.611		
600.0	600.0	597.0	596.5	1.0	1.1	0.39	1.3	35.2	33.7	31.6	2.04	16.484		
700.0	699.8	695.5	694.3	1.2	1.3	0.44	1.7	47.1	40.5	38.1	2.39	16.969		
800.0	799.5	793.8	791.3	1.4	1.6	0.51	2.3	62.3	47.3	44.6	2.73	17.320		
900.0	898.7	891.8	887.6	1.7	2.0	0.58	2.9	80.7	54.0	51.0	3.07	17.582		
1,000.0	997.5	991.5	985.1	1.9	2.4	0.66	3.7	101.4	59.7	56.3	3.42	17.445		
1,100.0	1,096.3	1,091.4	1,082.8	2.2	2.7	0.74	4.4	122.2	64.9	61.1	3.77	17.197		
1,200.0	1,195.1	1,191.2	1,180.5	2.5	3.1	0.80	5.2	142.9	70.1	65.9	4.12	16.991		
1,300.0	1,293.8	1,291.1	1,278.2	2.8	3.5	0.85	5.9	163.7	75.3	70.8	4.48	16.818		
1,400.0	1,392.6	1,391.0	1,375.8	3.1	3.9	0.90	6.6	184.5	80.5	75.6	4.83	16.671		
1,500.0	1,491.3	1,490.8	1,473.5	3.5	4.3	0.94	7.4	205.2	85.6	80.5	5.18	16.544		
1,600.0	1,590.1	1,590.7	1,571.2	3.8	4.7	0.98	8.1	226.0	90.8	85.3	5.53	16.433		
1,700.0	1,688.9	1,690.6	1,668.9	4.1	5.1	1.01	8.9	246.7	96.0	90.2	5.88	16.336		
1,800.0	1,787.6	1,790.4	1,766.6	4.4	5.5	1.04	9.6	267.5	101.2	95.0	6.23	16.249		
1,900.0	1,886.4	1,890.3	1,864.2	4.7	5.9	1.07	10.4	288.2	106.4	99.8	6.58	16.172		
2,000.0	1,985.1	1,990.1	1,961.9	5.0	6.3	1.09	11.1	309.0	111.6	104.7	6.93	16.103		
2,100.0	2,083.9	2,090.0	2,059.6	5.4	6.8	1.12	11.9	329.8	116.8	109.5	7.28	16.041		
2,200.0	2,182.7	2,189.9	2,157.3	5.7	7.2	1.14	12.6	350.5	122.0	114.4	7.63	15.984		
2,300.0	2,281.4	2,289.7	2,255.0	6.0	7.6	1.15	13.4	371.3	127.2	119.2	7.98	15.933		
2,400.0	2,380.2	2,389.6	2,352.7	6.3	8.0	1.17	14.1	392.0	132.4	124.0	8.33	15.885		
2,500.0	2,478.9	2,489.5	2,450.3	6.7	8.4	1.19	14.9	412.8	137.6	128.9	8.68	15.842		
2,600.0	2,577.7	2,589.3	2,548.0	7.0	8.8	1.20	15.6	433.5	142.8	133.7	9.03	15.802		
2,700.0	2,676.5	2,689.2	2,645.7	7.3	9.2	1.22	16.3	454.3	147.9	138.6	9.38	15.765		
2,800.0	2,775.2	2,789.1	2,743.4	7.6	9.6	1.23	17.1	475.1	153.1	143.4	9.74	15.730		
2,900.0	2,874.0	2,888.9	2,841.1	8.0	10.0	1.24	17.8	495.8	158.3	148.2	10.09	15.698		
3,000.0	2,972.7	2,988.8	2,938.7	8.3	10.4	1.25	18.6	516.6	163.5	153.1	10.44	15.669		
3,100.0	3,071.5	3,088.7	3,036.4	8.6	10.8	1.26	19.3	537.3	168.7	157.9	10.79	15.641		
3,200.0	3,170.3	3,188.5	3,134.1	8.9	11.2	1.27	20.1	558.1	173.9	162.8	11.14	15.615		
3,300.0	3,269.0	3,288.4	3,231.8	9.3	11.6	1.28	20.8	578.8	179.1	167.6	11.49	15.590		
3,400.0	3,367.8	3,388.3	3,329.5	9.6	12.1	1.29	21.6	599.6	184.3	172.5	11.84	15.567		
3,500.0	3,466.6	3,488.1	3,427.1	9.9	12.5	1.30	22.3	620.4	189.5	177.3	12.19	15.545		
3,600.0	3,565.3	3,588.0	3,524.8	10.2	12.9	1.31	23.1	641.1	194.7	182.1	12.54	15.525		
3,700.0	3,664.1	3,687.9	3,622.5	10.6	13.3	1.31	23.8	661.9	199.9	187.0	12.89	15.505		
3,800.0	3,762.8	3,787.7	3,720.2	10.9	13.7	1.32	24.6	682.6	205.1	191.8	13.24	15.487		
3,900.0	3,861.6	3,887.6	3,817.9	11.2	14.1	1.33	25.3	703.4	210.3	196.7	13.59	15.470		
4,000.0	3,960.4	3,987.4	3,915.6	11.5	14.5	1.33	26.0	724.1	215.4	201.5	13.94	15.453		
4,100.0	4,059.1	4,087.3	4,013.2	11.9	14.9	1.34	26.8	744.9	220.6	206.3	14.29	15.437		
4,200.0	4,157.9	4,187.2	4,110.9	12.2	15.3	1.34	27.5	765.7	225.8	211.2	14.64	15.422		
4,300.0	4,256.6	4,287.0	4,208.6	12.5	15.7	1.35	28.3	786.4	231.0	216.0	14.99	15.408		
4,400.0	4,355.4	4,386.9	4,306.3	12.8	16.1	1.36	29.0	807.2	236.2	220.9	15.34	15.395		
4,500.0	4,454.2	4,486.8	4,404.0	13.2	16.5	1.36	29.8	827.9	241.4	225.7	15.69	15.382		
4,600.0	4,552.9	4,586.6	4,501.6	13.5	17.0	1.37	30.5	848.7	246.6	230.5	16.04	15.369		
4,700.0	4,651.7	4,686.5	4,599.3	13.8	17.4	1.37	31.3	869.4	251.8	235.4	16.40	15.357		
4,800.0	4,750.4	4,786.4	4,697.0	14.2	17.8	1.37	32.0	890.2	257.0	240.2	16.75	15.346		
4,900.0	4,849.2	4,886.2	4,794.7	14.5	18.2	1.38	32.8	911.0	262.2	245.1	17.10	15.335		
5,000.0	4,948.0	4,986.1	4,892.4	14.8	18.6	1.38	33.5	931.7	267.4	249.9	17.45	15.324		
5,100.0	5,046.7	5,086.0	4,990.0	15.1	19.0	1.39	34.3	952.5	272.6	254.8	17.80	15.314		

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 11-19H-B2683
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 11-19H-B2683	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			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	5,145.5	5,185.8	5,087.7	15.5	19.4	1.39	35.0	973.2	277.7	259.6	18.15	15.305		
5,300.0	5,244.3	5,285.7	5,185.4	15.8	19.8	1.39	35.7	994.0	282.9	264.4	18.50	15.295		
5,400.0	5,343.0	5,385.6	5,283.1	16.1	20.2	1.40	36.5	1,014.7	288.1	269.3	18.85	15.286		
5,500.0	5,441.8	5,485.4	5,380.8	16.4	20.6	1.40	37.2	1,035.5	293.3	274.1	19.20	15.278		
5,600.0	5,540.5	5,585.3	5,478.5	16.8	21.0	1.40	38.0	1,056.3	298.5	279.0	19.55	15.269		
5,700.0	5,639.3	5,685.2	5,576.1	17.1	21.4	1.41	38.7	1,077.0	303.7	283.8	19.90	15.261		
5,800.0	5,738.1	5,785.0	5,673.8	17.4	21.9	1.41	39.5	1,097.8	308.9	288.6	20.25	15.254		
5,900.0	5,836.8	5,884.9	5,771.5	17.7	22.3	1.41	40.2	1,118.5	314.1	293.5	20.60	15.246		
6,000.0	5,935.6	5,984.8	5,869.2	18.1	22.7	1.42	41.0	1,139.3	319.3	298.3	20.95	15.239		
6,100.0	6,034.3	6,084.6	5,966.9	18.4	23.1	1.42	41.7	1,160.0	324.5	303.2	21.30	15.232		
6,200.0	6,133.1	6,184.5	6,064.5	18.7	23.5	1.42	42.5	1,180.8	329.7	308.0	21.65	15.225		
6,300.0	6,231.9	6,284.3	6,162.2	19.1	23.9	1.42	43.2	1,201.6	334.9	312.9	22.00	15.219		
6,400.0	6,330.6	6,384.2	6,259.9	19.4	24.3	1.43	44.0	1,222.3	340.0	317.7	22.35	15.212		
6,500.0	6,429.4	6,484.1	6,357.6	19.7	24.7	1.43	44.7	1,243.1	345.2	322.5	22.70	15.206		
6,600.0	6,528.1	6,583.9	6,455.3	20.0	25.1	1.43	45.4	1,263.8	350.4	327.4	23.05	15.200		
6,700.0	6,626.9	6,683.8	6,552.9	20.4	25.5	1.43	46.2	1,284.6	355.6	332.2	23.41	15.194		
6,800.0	6,725.4	6,783.4	6,650.3	20.7	25.9	-41.19	46.9	1,305.3	361.0	337.2	23.74	15.205		
6,900.0	6,822.1	6,881.0	6,745.8	21.0	26.3	-63.60	47.7	1,325.6	367.4	343.2	24.16	15.206		
7,000.0	6,915.1	6,974.8	6,837.5	21.3	26.7	-76.65	48.4	1,345.1	376.9	351.9	24.93	15.117		
7,100.0	7,002.6	7,075.0	6,935.4	21.7	27.1	-86.57	45.0	1,365.9	391.4	365.2	26.21	14.933		
7,200.0	7,082.9	7,185.7	7,042.0	22.0	27.6	-94.44	25.4	1,388.5	409.6	381.9	27.73	14.770		
7,300.0	7,154.4	7,306.3	7,153.1	22.5	28.0	-100.87	-14.6	1,412.1	430.1	400.9	29.16	14.749		
7,400.0	7,215.8	7,438.5	7,265.4	23.0	28.6	-106.19	-79.7	1,436.0	451.2	420.8	30.33	14.875		
7,500.0	7,265.9	7,583.6	7,373.0	23.5	29.2	-110.49	-173.9	1,458.8	471.0	439.8	31.18	15.104		
7,600.0	7,303.6	7,741.8	7,466.4	24.2	29.9	-113.74	-299.6	1,478.7	487.5	455.7	31.78	15.342		
7,700.0	7,328.2	7,911.4	7,534.1	25.0	30.9	-115.84	-454.1	1,493.1	498.8	466.5	32.28	15.454		
7,800.0	7,339.3	8,088.2	7,564.9	25.8	32.1	-116.67	-627.6	1,499.6	503.4	470.5	32.89	15.305		
7,900.0	7,340.0	8,205.8	7,566.0	26.8	32.9	-116.67	-745.2	1,499.9	503.4	468.7	34.72	14.501		
8,000.0	7,340.0	8,305.8	7,566.0	27.8	33.7	-116.67	-845.2	1,499.9	503.4	466.2	37.21	13.531		
8,100.0	7,340.0	8,405.8	7,566.0	28.8	34.6	-116.67	-945.2	1,499.9	503.4	463.7	39.79	12.653		
8,200.0	7,340.0	8,505.8	7,566.0	30.0	35.6	-116.67	-1,045.2	1,499.9	503.4	461.0	42.45	11.861		
8,300.0	7,340.0	8,605.8	7,566.0	31.2	36.6	-116.67	-1,145.2	1,499.9	503.4	458.3	45.17	11.147		
8,400.0	7,340.0	8,705.8	7,566.0	32.4	37.6	-116.67	-1,245.2	1,499.9	503.4	455.5	47.94	10.502		
8,500.0	7,340.0	8,805.8	7,566.0	33.7	38.7	-116.67	-1,345.2	1,499.9	503.4	452.7	50.75	9.920		
8,600.0	7,340.0	8,905.8	7,566.0	35.0	39.9	-116.67	-1,445.2	1,499.9	503.4	449.8	53.60	9.393		
8,700.0	7,340.0	9,005.8	7,566.0	36.4	41.1	-116.67	-1,545.2	1,499.9	503.4	447.0	56.48	8.914		
8,800.0	7,340.0	9,105.8	7,566.0	37.8	42.3	-116.67	-1,645.2	1,499.9	503.4	444.1	59.39	8.477		
8,900.0	7,340.0	9,205.8	7,566.0	39.2	43.6	-116.67	-1,745.2	1,499.9	503.4	441.1	62.32	8.079		
8,933.6	7,340.0	9,239.5	7,566.0	39.7	44.1	-116.67	-1,778.8	1,499.9	503.5	440.3	63.21	7.965		
9,000.0	7,340.0	9,305.8	7,566.0	40.7	44.9	-116.67	-1,845.2	1,499.9	503.6	438.6	64.98	7.750		
9,100.0	7,340.0	9,405.8	7,566.0	42.1	46.3	-116.59	-1,945.2	1,499.9	505.1	437.8	67.33	7.501		
9,200.0	7,340.0	9,505.7	7,566.0	43.6	47.6	-116.43	-2,045.1	1,499.9	508.1	438.4	69.72	7.288		
9,300.0	7,340.0	9,605.6	7,566.0	45.1	49.0	-116.19	-2,145.0	1,499.9	512.6	440.1	72.46	7.074		
9,400.0	7,340.0	9,705.5	7,566.0	46.6	50.4	-115.94	-2,244.8	1,499.9	517.3	441.7	75.62	6.841		
9,500.0	7,340.0	9,805.4	7,566.0	48.1	51.9	-115.69	-2,344.7	1,499.9	521.8	442.7	79.12	6.596		
9,600.0	7,340.0	9,905.3	7,566.0	49.6	53.3	-115.50	-2,444.6	1,499.9	525.1	442.1	82.98	6.328		
9,700.0	7,340.0	10,005.3	7,566.0	51.2	54.8	-115.41	-2,544.6	1,499.9	526.7	439.9	86.78	6.070		
9,800.0	7,340.0	10,105.3	7,566.0	52.8	56.3	-115.40	-2,644.6	1,499.9	527.0	436.7	90.23	5.840		
9,900.0	7,340.0	10,205.3	7,566.0	54.4	57.8	-115.40	-2,744.6	1,499.9	527.0	433.6	93.31	5.647		
10,000.0	7,340.0	10,305.3	7,566.0	56.0	59.3	-115.40	-2,844.6	1,499.9	527.0	430.6	96.39	5.467		
10,100.0	7,340.0	10,405.3	7,566.0	57.6	60.8	-115.40	-2,944.6	1,499.9	527.0	427.5	99.49	5.297		
10,200.0	7,340.0	10,505.3	7,566.0	59.3	62.4	-115.40	-3,044.6	1,499.9	527.0	424.4	102.58	5.137		

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 11-19H-B2683
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 11-19H-B2683	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			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)				
10,300.0	7,340.0	10,605.3	7,566.0	60.9	63.9	-115.40	-3,144.6	1,499.9	527.0	421.3	105.68	4.986		
10,400.0	7,340.0	10,705.3	7,566.0	62.5	65.5	-115.40	-3,244.6	1,499.9	527.0	418.2	108.79	4.844		
10,500.0	7,340.0	10,805.3	7,566.0	64.2	67.1	-115.40	-3,344.6	1,499.9	527.0	415.1	111.90	4.709		
10,600.0	7,340.0	10,905.3	7,566.0	65.8	68.6	-115.44	-3,444.6	1,499.9	526.2	410.5	115.63	4.550		
10,700.0	7,340.0	11,005.3	7,566.0	67.5	70.2	-115.53	-3,544.6	1,499.9	524.5	405.8	118.72	4.418		
10,800.0	7,340.0	11,105.2	7,566.0	69.2	71.8	-115.62	-3,644.6	1,499.9	522.8	401.0	121.75	4.294		
10,900.0	7,340.0	11,205.2	7,566.0	70.9	73.4	-115.71	-3,744.6	1,499.9	521.1	396.3	124.77	4.176		
11,000.0	7,340.0	11,305.2	7,566.0	72.5	75.0	-115.80	-3,844.5	1,499.9	519.4	391.6	127.80	4.064		
11,100.0	7,340.0	11,405.2	7,566.0	74.2	76.7	-115.89	-3,944.5	1,499.9	517.7	386.8	130.82	3.957		
11,200.0	7,340.0	11,505.2	7,566.0	75.9	78.3	-115.98	-4,044.5	1,499.9	516.0	382.1	133.84	3.855		
11,300.0	7,340.0	11,605.1	7,566.0	77.6	79.9	-116.07	-4,144.5	1,499.9	514.3	377.4	136.85	3.758		
11,400.0	7,340.0	11,705.1	7,566.0	79.3	81.6	-116.17	-4,244.5	1,499.9	512.6	372.7	139.86	3.665		
11,500.0	7,340.0	11,805.1	7,566.0	81.0	83.2	-116.26	-4,344.5	1,499.9	510.9	368.0	142.87	3.576		
11,600.0	7,340.0	11,905.1	7,566.0	82.7	84.8	-116.36	-4,444.4	1,499.9	509.2	363.3	145.87	3.490		
11,700.0	7,340.0	12,005.1	7,566.0	84.4	86.5	-116.45	-4,544.4	1,499.9	507.5	358.6	148.87	3.409		
11,800.0	7,340.0	12,105.1	7,566.0	86.1	88.1	-116.55	-4,644.4	1,499.9	505.8	353.9	151.86	3.331		
11,900.0	7,340.0	12,205.0	7,566.0	87.8	89.8	-116.64	-4,744.4	1,499.9	504.1	349.2	154.85	3.255		
11,931.3	7,340.0	12,228.3	7,566.0	88.3	90.2	-116.66	-4,767.6	1,499.9	503.6	347.9	155.67	3.235 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	87.91	1.1	29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.91	1.1	29.9	29.9	29.6	0.30	98.584		
200.0	200.0	200.0	200.0	0.3	0.3	87.91	1.1	29.9	29.9	29.3	0.65	45.865 CC, ES		
300.0	300.0	298.9	298.9	0.5	0.5	87.90	1.2	31.6	31.7	30.7	1.00	31.552		
400.0	400.0	397.6	397.5	0.7	0.7	87.88	1.4	36.7	36.8	35.5	1.37	26.880		
500.0	500.0	495.8	495.3	0.8	0.9	87.86	1.7	45.2	45.4	43.7	1.77	25.732		
600.0	600.0	593.6	592.3	1.0	1.2	0.30	2.1	56.9	55.7	53.7	2.04	27.338		
700.0	699.8	691.0	688.6	1.2	1.5	0.31	2.7	71.9	65.9	63.5	2.38	27.670		
800.0	799.5	788.1	784.0	1.4	1.8	0.32	3.4	90.0	76.0	73.3	2.72	27.898		
900.0	898.7	884.8	878.3	1.7	2.3	0.34	4.3	111.3	86.0	82.9	3.06	28.055		
1,000.0	997.5	983.7	974.2	1.9	2.7	0.36	5.2	135.4	95.3	91.9	3.41	27.933		
1,100.0	1,096.3	1,083.3	1,070.8	2.2	3.1	0.38	6.2	159.7	104.2	100.5	3.76	27.702		
1,200.0	1,195.1	1,182.9	1,167.4	2.5	3.6	0.40	7.1	184.1	113.2	109.0	4.11	27.513		
1,300.0	1,293.8	1,282.5	1,264.0	2.8	4.1	0.42	8.1	208.4	122.1	117.6	4.46	27.354		
1,400.0	1,392.6	1,382.1	1,360.5	3.1	4.5	0.43	9.0	232.8	131.0	126.2	4.81	27.219		
1,500.0	1,491.3	1,481.7	1,457.1	3.5	5.0	0.44	10.0	257.1	140.0	134.8	5.16	27.103		
1,600.0	1,590.1	1,581.3	1,553.7	3.8	5.5	0.45	10.9	281.5	148.9	143.4	5.51	27.003		
1,700.0	1,688.9	1,680.9	1,650.2	4.1	5.9	0.46	11.9	305.8	157.9	152.0	5.87	26.914		
1,800.0	1,787.6	1,780.5	1,746.8	4.4	6.4	0.47	12.8	330.1	166.8	160.6	6.22	26.836		
1,900.0	1,886.4	1,880.1	1,843.4	4.7	6.9	0.47	13.8	354.5	175.7	169.2	6.57	26.766		
2,000.0	1,985.1	1,979.7	1,940.0	5.0	7.3	0.48	14.7	378.8	184.7	177.8	6.92	26.704		
2,100.0	2,083.9	2,079.3	2,036.5	5.4	7.8	0.49	15.7	403.2	193.6	186.3	7.27	26.647		
2,200.0	2,182.7	2,178.9	2,133.1	5.7	8.3	0.49	16.6	427.5	202.6	194.9	7.62	26.596		
2,300.0	2,281.4	2,278.5	2,229.7	6.0	8.7	0.50	17.6	451.9	211.5	203.5	7.97	26.550		
2,400.0	2,380.2	2,378.1	2,326.3	6.3	9.2	0.50	18.5	476.2	220.4	212.1	8.32	26.507		
2,500.0	2,478.9	2,477.7	2,422.8	6.7	9.7	0.50	19.5	500.5	229.4	220.7	8.67	26.468		
2,600.0	2,577.7	2,577.3	2,519.4	7.0	10.1	0.51	20.4	524.9	238.3	229.3	9.02	26.432		
2,700.0	2,676.5	2,676.9	2,616.0	7.3	10.6	0.51	21.4	549.2	247.2	237.9	9.37	26.399		
2,800.0	2,775.2	2,776.5	2,712.6	7.6	11.1	0.52	22.3	573.6	256.2	246.5	9.72	26.368		
2,900.0	2,874.0	2,876.1	2,809.1	8.0	11.5	0.52	23.3	597.9	265.1	255.1	10.07	26.340		
3,000.0	2,972.7	2,975.7	2,905.7	8.3	12.0	0.52	24.2	622.3	274.1	263.7	10.42	26.313		
3,100.0	3,071.5	3,075.3	3,002.3	8.6	12.5	0.52	25.1	646.6	283.0	272.2	10.77	26.288		
3,200.0	3,170.3	3,174.9	3,098.9	8.9	13.0	0.53	26.1	670.9	291.9	280.8	11.12	26.265		
3,300.0	3,269.0	3,274.5	3,195.4	9.3	13.4	0.53	27.0	695.3	300.9	289.4	11.47	26.243		
3,400.0	3,367.8	3,374.1	3,292.0	9.6	13.9	0.53	28.0	719.6	309.8	298.0	11.82	26.223		
3,500.0	3,466.6	3,473.7	3,388.6	9.9	14.4	0.53	28.9	744.0	318.8	306.6	12.17	26.203		
3,600.0	3,565.3	3,573.3	3,485.2	10.2	14.8	0.54	29.9	768.3	327.7	315.2	12.51	26.185		
3,700.0	3,664.1	3,672.9	3,581.7	10.6	15.3	0.54	30.8	792.7	336.6	323.8	12.86	26.168		
3,800.0	3,762.8	3,772.5	3,678.3	10.9	15.8	0.54	31.8	817.0	345.6	332.4	13.21	26.151		
3,900.0	3,861.6	3,872.1	3,774.9	11.2	16.2	0.54	32.7	841.3	354.5	341.0	13.56	26.136		
4,000.0	3,960.4	3,971.7	3,871.5	11.5	16.7	0.54	33.7	865.7	363.5	349.5	13.91	26.121		
4,100.0	4,059.1	4,071.3	3,968.0	11.9	17.2	0.54	34.6	890.0	372.4	358.1	14.26	26.107		
4,200.0	4,157.9	4,170.9	4,064.6	12.2	17.7	0.55	35.6	914.4	381.3	366.7	14.61	26.094		
4,300.0	4,256.6	4,270.5	4,161.2	12.5	18.1	0.55	36.5	938.7	390.3	375.3	14.96	26.081		
4,400.0	4,355.4	4,370.1	4,257.8	12.8	18.6	0.55	37.5	963.1	399.2	383.9	15.31	26.069		
4,500.0	4,454.2	4,469.7	4,354.3	13.2	19.1	0.55	38.4	987.4	408.2	392.5	15.66	26.058		
4,600.0	4,552.9	4,569.3	4,450.9	13.5	19.5	0.55	39.4	1,011.7	417.1	401.1	16.01	26.047		
4,700.0	4,651.7	4,668.9	4,547.5	13.8	20.0	0.55	40.3	1,036.1	426.0	409.7	16.36	26.036		
4,800.0	4,750.4	4,768.5	4,644.1	14.2	20.5	0.55	41.3	1,060.4	435.0	418.3	16.71	26.026		
4,900.0	4,849.2	4,868.1	4,740.6	14.5	21.0	0.55	42.2	1,084.8	443.9	426.9	17.06	26.016		
5,000.0	4,948.0	4,967.7	4,837.2	14.8	21.4	0.55	43.2	1,109.1	452.9	435.4	17.41	26.007		
5,100.0	5,046.7	5,067.3	4,933.8	15.1	21.9	0.56	44.1	1,133.4	461.8	444.0	17.76	25.998		

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 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		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)						
5,200.0	5,145.5	5,166.9	5,030.4	15.5	22.4	0.56	45.1	1,157.8	470.7	452.6	18.11	25.990		
5,300.0	5,244.3	5,266.5	5,126.9	15.8	22.8	0.56	46.0	1,182.1	479.7	461.2	18.46	25.981		
5,400.0	5,343.0	5,366.1	5,223.5	16.1	23.3	0.56	47.0	1,206.5	488.6	469.8	18.81	25.973		
5,500.0	5,441.8	5,465.7	5,320.1	16.4	23.8	0.56	47.9	1,230.8	497.6	478.4	19.16	25.966		
5,600.0	5,540.5	5,565.3	5,416.7	16.8	24.2	0.56	48.9	1,255.2	506.5	487.0	19.51	25.958		
5,700.0	5,639.3	5,664.9	5,513.2	17.1	24.7	0.56	49.8	1,279.5	515.4	495.6	19.86	25.951		
5,800.0	5,738.1	5,764.5	5,609.8	17.4	25.2	0.56	50.8	1,303.8	524.4	504.2	20.21	25.944		
5,900.0	5,836.8	5,864.1	5,706.4	17.7	25.7	0.56	51.7	1,328.2	533.3	512.7	20.56	25.938		
6,000.0	5,935.6	5,963.7	5,802.9	18.1	26.1	0.56	52.7	1,352.5	542.2	521.3	20.91	25.931		
6,100.0	6,034.3	6,063.3	5,899.5	18.4	26.6	0.56	53.6	1,376.9	551.2	529.9	21.26	25.925		
6,200.0	6,133.1	6,162.9	5,996.1	18.7	27.1	0.56	54.6	1,401.2	560.1	538.5	21.61	25.919		
6,300.0	6,231.9	6,262.5	6,092.7	19.1	27.5	0.57	55.5	1,425.6	569.1	547.1	21.96	25.913		
6,400.0	6,330.6	6,362.1	6,189.2	19.4	28.0	0.57	56.5	1,449.9	578.0	555.7	22.31	25.908		
6,500.0	6,429.4	6,461.7	6,285.8	19.7	28.5	0.57	57.4	1,474.2	586.9	564.3	22.66	25.902		
6,600.0	6,528.1	6,561.3	6,382.4	20.0	29.0	0.57	58.4	1,498.6	595.9	572.9	23.01	25.897		
6,700.0	6,626.9	6,660.9	6,479.0	20.4	29.4	0.57	59.3	1,522.9	604.8	581.5	23.36	25.892		
6,800.0	6,725.4	6,760.2	6,575.2	20.7	29.9	-41.32	60.3	1,547.2	614.0	590.3	23.71	25.900		
6,900.0	6,822.1	6,859.7	6,671.7	21.0	30.4	-62.14	60.4	1,571.5	623.9	599.8	24.07	25.920		
7,000.0	6,915.1	6,965.2	6,773.3	21.3	30.8	-72.41	48.7	1,597.1	634.4	609.8	24.56	25.834		
7,100.0	7,002.6	7,074.8	6,875.8	21.7	31.3	-78.41	20.4	1,623.0	645.0	619.8	25.22	25.569		
7,200.0	7,082.9	7,188.5	6,976.6	22.0	31.8	-82.38	-25.7	1,648.4	655.3	629.2	26.09	25.116		
7,300.0	7,154.4	7,306.6	7,072.2	22.5	32.3	-85.19	-90.2	1,672.5	665.0	637.8	27.21	24.439		
7,400.0	7,215.8	7,428.7	7,159.0	23.0	32.9	-87.22	-173.1	1,694.3	673.6	645.0	28.58	23.572		
7,500.0	7,265.9	7,554.4	7,232.8	23.5	33.5	-88.65	-273.0	1,712.9	680.7	650.5	30.17	22.562		
7,600.0	7,303.6	7,683.0	7,289.6	24.2	34.2	-89.57	-387.3	1,727.2	686.0	654.0	31.99	21.446		
7,700.0	7,328.2	7,813.4	7,326.0	25.0	34.9	-90.02	-512.0	1,736.4	689.1	655.1	33.99	20.276		
7,800.0	7,339.3	7,944.5	7,339.9	25.8	35.7	-90.04	-642.1	1,739.9	690.0	653.9	36.15	19.089		
7,900.0	7,341.5	8,047.5	7,340.0	26.8	36.4	-89.88	-745.1	1,740.0	689.7	651.1	38.59	17.871		
7,900.0	7,340.0	8,047.6	7,340.0	26.8	36.4	-90.00	-745.2	1,740.0	690.0	651.4	38.59	17.879		
8,000.0	7,340.0	8,147.6	7,340.0	27.8	37.1	-90.00	-845.2	1,740.0	690.0	648.6	41.33	16.692		
8,100.0	7,340.0	8,247.6	7,340.0	28.8	37.9	-90.00	-945.2	1,740.0	690.0	645.8	44.19	15.615		
8,200.0	7,340.0	8,347.6	7,340.0	30.0	38.8	-90.00	-1,045.2	1,740.0	690.0	642.8	47.13	14.641		
8,300.0	7,340.0	8,447.6	7,340.0	31.2	39.7	-90.00	-1,145.2	1,740.0	690.0	639.8	50.14	13.761		
8,400.0	7,340.0	8,547.6	7,340.0	32.4	40.6	-90.00	-1,245.2	1,740.0	690.0	636.8	53.21	12.966		
8,500.0	7,340.0	8,647.6	7,340.0	33.7	41.7	-90.00	-1,345.2	1,740.0	690.0	633.6	56.34	12.246		
8,600.0	7,340.0	8,747.6	7,340.0	35.0	42.7	-90.00	-1,445.2	1,740.0	690.0	630.5	59.51	11.595		
8,700.0	7,340.0	8,847.6	7,340.0	36.4	43.9	-90.00	-1,545.2	1,740.0	690.0	627.3	62.71	11.002		
8,800.0	7,340.0	8,947.6	7,340.0	37.8	45.0	-90.00	-1,645.2	1,740.0	690.0	624.0	65.95	10.462		
8,900.0	7,340.0	9,047.6	7,340.0	39.2	46.2	-90.00	-1,745.2	1,740.0	690.0	620.8	69.21	9.969		
8,933.6	7,340.0	9,081.2	7,340.0	39.7	46.6	-90.00	-1,778.8	1,740.0	690.0	619.8	70.20	9.830		
9,000.0	7,340.0	9,147.6	7,340.0	40.7	47.4	-90.00	-1,845.2	1,740.0	690.1	618.0	72.14	9.566		
9,100.0	7,340.0	9,247.6	7,340.0	42.1	48.7	-90.00	-1,945.2	1,740.0	691.8	617.1	74.66	9.266		
9,200.0	7,340.0	9,347.5	7,340.0	43.6	50.0	-90.00	-2,045.1	1,740.0	695.2	618.1	77.16	9.010		
9,300.0	7,340.0	9,447.4	7,340.0	45.1	51.3	-90.00	-2,145.0	1,740.0	700.2	620.2	80.03	8.749		
9,400.0	7,340.0	9,547.2	7,340.0	46.6	52.7	-90.00	-2,244.8	1,740.0	705.4	622.1	83.36	8.462		
9,500.0	7,340.0	9,647.1	7,340.0	48.1	54.0	-90.00	-2,344.7	1,740.0	710.5	623.4	87.09	8.158		
9,600.0	7,340.0	9,747.0	7,340.0	49.6	55.4	-90.00	-2,444.6	1,740.0	714.0	622.8	91.29	7.821		
9,700.0	7,340.0	9,847.0	7,340.0	51.2	56.8	-90.00	-2,544.6	1,740.0	715.9	620.4	95.49	7.497		
9,800.0	7,340.0	9,947.0	7,340.0	52.8	58.3	-90.00	-2,644.6	1,740.0	716.1	616.8	99.32	7.211		
9,900.0	7,340.0	10,047.0	7,340.0	54.4	59.7	-90.00	-2,744.6	1,740.0	716.1	613.4	102.72	6.972		
10,000.0	7,340.0	10,147.0	7,340.0	56.0	61.2	-90.00	-2,844.6	1,740.0	716.1	610.0	106.12	6.748		
10,100.0	7,340.0	10,247.0	7,340.0	57.6	62.7	-90.00	-2,944.6	1,740.0	716.1	606.6	109.54	6.538		

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 1L-19H-B2683
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 1L-19H-B2683	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		
10,200.0	7,340.0	10,347.0	7,340.0	59.3	64.1	-90.00	-3,044.6	1,740.0	716.1	603.2	112.96	6.340		
10,300.0	7,340.0	10,447.0	7,340.0	60.9	65.7	-90.00	-3,144.6	1,740.0	716.1	599.8	116.38	6.153		
10,400.0	7,340.0	10,547.0	7,340.0	62.5	67.2	-90.00	-3,244.6	1,740.0	716.1	596.3	119.81	5.977		
10,500.0	7,340.0	10,647.0	7,340.0	64.2	68.7	-90.00	-3,344.6	1,740.0	716.1	592.9	123.24	5.811		
10,600.0	7,340.0	10,747.0	7,340.0	65.8	70.3	-90.00	-3,444.6	1,740.0	715.3	587.8	127.47	5.611		
10,700.0	7,340.0	10,847.0	7,340.0	67.5	71.8	-90.00	-3,544.6	1,740.0	713.4	582.4	130.98	5.447		
10,800.0	7,340.0	10,947.0	7,340.0	69.2	73.4	-90.00	-3,644.6	1,740.0	711.5	577.1	134.42	5.293		
10,900.0	7,340.0	11,047.0	7,340.0	70.9	74.9	-90.00	-3,744.6	1,740.0	709.6	571.7	137.87	5.147		
11,000.0	7,340.0	11,152.5	7,340.0	72.5	76.6	-90.00	-3,850.1	1,739.8	707.6	566.1	141.42	5.003		
11,100.0	7,340.0	11,258.5	7,340.0	74.2	78.3	-90.00	-3,956.1	1,738.3	704.2	559.2	144.98	4.857		
11,200.0	7,340.0	11,358.5	7,340.0	75.9	79.8	-90.00	-4,056.0	1,736.6	700.7	552.2	148.44	4.720		
11,300.0	7,340.0	11,458.4	7,340.0	77.6	81.4	-90.00	-4,155.9	1,735.0	697.1	545.2	151.90	4.590		
11,400.0	7,340.0	11,558.3	7,340.0	79.3	83.0	-90.00	-4,255.9	1,733.3	693.6	538.2	155.36	4.465		
11,500.0	7,340.0	11,658.3	7,340.0	81.0	84.6	-90.00	-4,355.8	1,731.7	690.1	531.2	158.82	4.345		
11,600.0	7,340.0	11,758.2	7,340.0	82.7	86.2	-90.00	-4,455.7	1,730.1	686.5	524.3	162.28	4.230		
11,700.0	7,340.0	11,858.1	7,340.0	84.4	87.9	-90.00	-4,555.6	1,728.4	683.0	517.2	165.75	4.121		
11,800.0	7,340.0	11,958.1	7,340.0	86.1	89.5	-90.00	-4,655.6	1,726.8	679.5	510.2	169.22	4.015		
11,900.0	7,340.0	12,058.0	7,340.0	87.8	91.1	-90.00	-4,755.5	1,725.1	675.9	503.2	172.69	3.914		
11,931.3	7,340.0	12,065.8	7,340.0	88.3	91.2	-90.00	-4,763.3	1,725.0	675.2	501.9	173.37	3.895 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 2 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,500.0	7,340.0	7,363.0	7,360.4	64.2	13.1	91.24	-4,223.5	588.1	981.0	906.6	74.43	13.180		
10,600.0	7,340.0	7,361.8	7,359.3	65.8	13.1	91.06	-4,223.5	588.1	892.9	816.5	76.45	11.681		
10,700.0	7,340.0	7,360.7	7,358.2	67.5	13.1	90.91	-4,223.5	588.1	808.2	730.0	78.19	10.337		
10,800.0	7,340.0	7,359.6	7,357.0	69.2	13.1	90.77	-4,223.5	588.1	727.4	647.5	79.92	9.102		
10,900.0	7,340.0	7,358.4	7,355.9	70.9	13.1	90.62	-4,223.5	588.1	652.0	570.3	81.64	7.986		
11,000.0	7,340.0	7,357.3	7,354.8	72.5	13.1	90.48	-4,223.6	588.1	583.9	500.5	83.37	7.004		
11,100.0	7,340.0	7,356.2	7,353.6	74.2	13.1	90.33	-4,223.6	588.1	526.1	441.0	85.10	6.183		
11,200.0	7,340.0	7,355.0	7,352.5	75.9	13.1	90.19	-4,223.6	588.1	482.4	395.6	86.82	5.556		
11,300.0	7,340.0	7,353.9	7,351.4	77.6	13.1	90.05	-4,223.6	588.1	456.7	368.2	88.55	5.158		
11,370.6	7,340.0	7,353.1	7,350.6	78.8	13.1	89.94	-4,223.6	588.1	451.2	361.5	89.77	5.026 CC, ES		
11,400.0	7,340.0	7,352.8	7,350.2	79.3	13.1	89.90	-4,223.6	588.1	452.2	361.9	90.28	5.009 SF		
11,500.0	7,340.0	7,351.6	7,349.1	81.0	13.1	89.76	-4,223.6	588.1	469.4	377.4	92.01	5.102		
11,600.0	7,340.0	7,350.5	7,347.9	82.7	13.0	89.61	-4,223.6	588.1	506.2	412.5	93.74	5.400		
11,700.0	7,340.0	7,349.3	7,346.8	84.4	13.0	89.47	-4,223.7	588.1	558.7	463.2	95.47	5.852		
11,800.0	7,340.0	7,348.2	7,345.7	86.1	13.0	89.32	-4,223.7	588.1	622.9	525.7	97.20	6.408		
11,900.0	7,340.0	7,347.1	7,344.5	87.8	13.0	89.18	-4,223.7	588.1	695.6	596.7	98.93	7.031		
11,931.3	7,340.0	7,346.7	7,344.2	88.3	13.0	89.13	-4,223.7	588.1	719.7	620.2	99.47	7.235		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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							
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	-150.10	-708.9	-407.7	817.8					
100.0	100.0	89.2	89.2	0.2	0.2	-150.12	-709.3	-407.5	818.0	817.7	0.31	2,657.486 ES		
200.0	200.0	186.9	186.9	0.3	0.3	-150.19	-710.4	-407.0	818.8	818.1	0.65	1,252.900		
300.0	300.0	287.1	287.1	0.5	0.5	-150.25	-711.6	-406.7	819.7	818.6	1.00	816.815		
400.0	400.0	391.0	390.9	0.7	0.7	-150.28	-712.4	-406.7	820.3	818.9	1.36	603.466		
500.0	500.0	491.1	491.1	0.8	0.9	-150.28	-712.7	-406.8	820.6	818.9	1.71	480.279		
600.0	600.0	593.2	593.2	1.0	1.0	122.26	-712.9	-406.9	821.8	819.7	2.06	398.570		
700.0	699.8	689.5	689.4	1.2	1.2	122.53	-712.9	-407.4	824.9	822.5	2.41	342.050		
800.0	799.5	789.3	789.3	1.4	1.4	123.00	-713.0	-408.3	830.2	827.4	2.78	298.355		
900.0	898.7	888.0	888.0	1.7	1.6	123.64	-713.0	-409.5	837.4	834.2	3.17	263.815		
1,000.0	997.5	984.6	984.5	1.9	1.7	124.49	-712.8	-411.0	846.7	843.1	3.58	236.300		
1,100.0	1,096.3	1,082.1	1,082.0	2.2	1.9	125.46	-712.6	-412.9	856.7	852.7	4.00	213.996		
1,200.0	1,195.1	1,179.0	1,178.9	2.5	2.1	126.42	-712.3	-415.2	867.0	862.6	4.43	195.872		
1,300.0	1,293.8	1,278.5	1,278.4	2.8	2.2	127.40	-711.8	-417.9	877.7	872.8	4.86	180.748		
1,400.0	1,392.6	1,376.0	1,375.8	3.1	2.4	128.36	-711.1	-420.7	888.5	883.2	5.28	168.217		
1,500.0	1,491.3	1,479.2	1,479.0	3.5	2.6	129.36	-710.2	-423.7	899.5	893.8	5.72	157.347		
1,600.0	1,590.1	1,570.0	1,569.7	3.8	2.8	130.23	-709.3	-426.3	910.6	904.5	6.13	148.564		
1,700.0	1,688.9	1,659.2	1,658.9	4.1	2.9	131.08	-709.0	-429.7	923.0	916.5	6.54	141.182		
1,800.0	1,787.6	1,754.0	1,753.6	4.4	3.1	131.98	-709.0	-434.1	936.4	929.4	6.95	134.675		
1,900.0	1,886.4	1,847.5	1,847.0	4.7	3.3	132.86	-708.9	-438.7	950.2	942.8	7.36	129.041		
2,000.0	1,985.1	1,940.7	1,940.1	5.0	3.5	133.70	-709.5	-443.5	964.9	957.2	7.77	124.187		
2,100.0	2,083.9	2,037.5	2,036.7	5.4	3.6	134.55	-710.1	-448.7	980.0	971.8	8.18	119.817		
2,200.0	2,182.7	2,131.6	2,130.6	5.7	3.8	135.34	-711.0	-453.8	995.5	987.0	8.58	116.028 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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 42-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,000.0	7,340.0	7,326.5	7,324.2	27.8	13.0	93.73	-1,779.7	969.9	938.0	904.6	33.37	28.111		
8,100.0	7,340.0	7,326.0	7,323.7	28.8	13.0	93.33	-1,779.7	969.9	838.4	803.6	34.80	24.094		
8,200.0	7,340.0	7,325.4	7,323.1	30.0	13.0	92.92	-1,779.7	969.9	738.9	702.6	36.27	20.371		
8,300.0	7,340.0	7,324.8	7,322.5	31.2	13.0	92.51	-1,779.7	969.9	639.6	601.8	37.78	16.928		
8,400.0	7,340.0	7,324.2	7,321.9	32.4	13.0	92.08	-1,779.7	969.9	540.5	501.2	39.32	13.745		
8,500.0	7,340.0	7,323.6	7,321.3	33.7	13.0	91.65	-1,779.7	969.9	441.9	401.0	40.89	10.806		
8,600.0	7,340.0	7,323.0	7,320.7	35.0	13.0	91.22	-1,779.7	969.9	344.0	301.5	42.48	8.098		
8,700.0	7,340.0	7,322.4	7,320.1	36.4	13.0	90.77	-1,779.7	969.9	247.8	203.7	44.08	5.622		
8,800.0	7,340.0	7,321.8	7,319.4	37.8	13.0	90.32	-1,779.7	969.9	156.6	110.9	45.70	3.426		
8,900.0	7,340.0	7,321.1	7,318.8	39.2	13.0	89.86	-1,779.7	969.9	87.2	39.9	47.33	1.842		
8,934.8	7,340.0	7,320.9	7,318.6	39.7	13.0	89.70	-1,779.7	969.9	80.0	32.2	47.85	1.672 CC, ES, SF		
9,000.0	7,340.0	7,320.5	7,318.2	40.7	13.0	89.40	-1,779.7	969.9	103.3	54.4	48.83	2.115		
9,100.0	7,340.0	7,319.8	7,317.5	42.1	13.0	88.95	-1,779.7	969.9	183.0	132.8	50.18	3.647		
9,200.0	7,340.0	7,319.1	7,316.8	43.6	13.0	88.56	-1,779.7	969.9	275.7	224.2	51.52	5.352		
9,300.0	7,340.0	7,318.5	7,316.2	45.1	13.0	88.18	-1,779.7	969.9	371.9	318.9	53.00	7.017		
9,400.0	7,340.0	7,317.8	7,315.5	46.6	13.0	87.75	-1,779.7	970.0	469.6	414.9	54.65	8.592		
9,500.0	7,340.0	7,317.1	7,314.8	48.1	13.0	87.17	-1,779.7	970.0	568.1	511.7	56.46	10.063		
9,600.0	7,340.0	7,316.4	7,314.1	49.6	13.0	86.22	-1,779.7	970.0	667.3	608.9	58.41	11.425		
9,700.0	7,340.0	7,315.7	7,313.4	51.2	13.0	84.78	-1,779.8	970.0	766.8	706.5	60.29	12.718		
9,800.0	7,340.0	7,314.9	7,312.6	52.8	13.0	83.26	-1,779.8	970.0	866.6	804.6	61.99	13.979		
9,900.0	7,340.0	7,314.2	7,311.9	54.4	13.0	82.46	-1,779.8	970.0	966.4	902.8	63.58	15.200		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	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 43-19 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)						
9,500.0	7,340.0	7,579.8	7,335.5	48.1	28.8	-91.24	-3,267.6	1,104.2	925.9	868.8	57.09	16.218		
9,600.0	7,340.0	7,579.5	7,335.2	49.6	28.8	-91.24	-3,267.6	1,104.2	826.7	767.5	59.19	13.966		
9,700.0	7,340.0	7,579.2	7,334.9	51.2	28.8	-91.23	-3,267.6	1,104.2	727.4	666.1	61.30	11.866		
9,800.0	7,340.0	7,578.8	7,334.6	52.8	28.8	-91.11	-3,267.6	1,104.2	628.2	564.9	63.23	9.934		
9,900.0	7,340.0	7,578.5	7,334.2	54.4	28.8	-90.89	-3,267.6	1,104.1	529.1	464.2	64.95	8.147		
10,000.0	7,340.0	7,578.2	7,333.9	56.0	28.8	-90.66	-3,267.6	1,104.1	430.6	363.9	66.66	6.459		
10,100.0	7,340.0	7,577.9	7,333.6	57.6	28.8	-90.44	-3,267.6	1,104.1	332.8	264.5	68.38	4.868		
10,200.0	7,340.0	7,577.6	7,333.3	59.3	28.8	-90.22	-3,267.6	1,104.1	237.0	166.9	70.09	3.382		
10,300.0	7,340.0	7,577.3	7,333.0	60.9	28.8	-90.00	-3,267.6	1,104.1	146.9	75.1	71.81	2.046		
10,400.0	7,340.0	7,577.0	7,332.7	62.5	28.8	-89.77	-3,267.6	1,104.1	83.5	10.0	73.53	1.136 Level 2		
10,423.0	7,340.0	7,576.9	7,332.6	62.9	28.8	-89.72	-3,267.6	1,104.1	80.3	6.4	73.93	1.086 Level 2, CC, ES, SF		
10,500.0	7,340.0	7,576.7	7,332.4	64.2	28.8	-89.55	-3,267.6	1,104.1	111.3	36.0	75.26	1.478 Level 3		
10,600.0	7,340.0	7,576.4	7,332.1	65.8	28.8	-89.35	-3,267.6	1,104.1	194.0	116.6	77.40	2.506		
10,700.0	7,340.0	7,576.1	7,331.8	67.5	28.8	-89.14	-3,267.6	1,104.1	287.6	208.5	79.16	3.633		
10,800.0	7,340.0	7,575.8	7,331.5	69.2	28.8	-88.93	-3,267.6	1,104.1	384.5	303.6	80.89	4.753		
10,900.0	7,340.0	7,575.5	7,331.2	70.9	28.8	-88.72	-3,267.6	1,104.1	482.6	400.0	82.61	5.842		
11,000.0	7,340.0	7,575.1	7,330.9	72.5	28.8	-88.51	-3,267.6	1,104.1	581.4	497.0	84.34	6.893		
11,100.0	7,340.0	7,574.8	7,330.5	74.2	28.8	-88.30	-3,267.6	1,104.1	680.5	594.4	86.06	7.907		
11,200.0	7,340.0	7,574.5	7,330.2	75.9	28.8	-88.09	-3,267.6	1,104.1	779.9	692.1	87.79	8.883		
11,300.0	7,340.0	7,574.2	7,329.9	77.6	28.8	-87.88	-3,267.6	1,104.1	879.4	789.8	89.51	9.824		
11,400.0	7,340.0	7,573.9	7,329.6	79.3	28.8	-87.67	-3,267.6	1,104.1	979.0	887.7	91.24	10.730		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 11-19H-B2683
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 11-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS B UNIT 1 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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)				
3,000.0	2,972.7	2,978.2	2,977.6	8.3	5.3	72.04	-916.0	710.4	996.5	983.2	13.28	75.042		
3,100.0	3,071.5	3,080.2	3,079.5	8.6	5.5	73.13	-915.2	706.3	989.6	975.7	13.81	71.661		
3,200.0	3,170.3	3,181.8	3,181.1	8.9	5.6	74.25	-914.2	701.7	982.6	968.2	14.34	68.509		
3,300.0	3,269.0	3,284.9	3,284.0	9.3	5.8	75.42	-912.8	696.6	975.6	960.7	14.88	65.557		
3,400.0	3,367.8	3,391.3	3,390.2	9.6	6.0	76.64	-910.6	691.3	968.3	952.8	15.43	62.761		
3,500.0	3,466.6	3,488.9	3,487.7	9.9	6.2	77.76	-908.0	686.5	960.8	944.9	15.96	60.216		
3,600.0	3,565.3	3,586.9	3,585.5	10.2	6.4	78.92	-905.6	681.4	953.9	937.4	16.49	57.850		
3,700.0	3,664.1	3,676.3	3,674.8	10.6	6.6	80.01	-903.7	676.4	947.7	930.7	17.01	55.725		
3,800.0	3,762.8	3,782.4	3,780.7	10.9	6.8	81.34	-902.0	670.4	942.2	924.7	17.56	53.661		
3,900.0	3,861.6	3,886.1	3,884.2	11.2	7.0	82.63	-899.0	664.7	936.1	918.0	18.10	51.710		
4,000.0	3,960.4	3,982.3	3,980.2	11.5	7.2	83.82	-896.0	659.7	930.3	911.7	18.63	49.932		
4,100.0	4,059.1	4,079.3	4,077.1	11.9	7.4	85.02	-893.2	654.9	925.1	905.9	19.16	48.290		
4,200.0	4,157.9	4,183.4	4,181.0	12.2	7.6	86.26	-889.8	650.8	920.0	900.3	19.69	46.731		
4,300.0	4,256.6	4,283.4	4,280.9	12.5	7.8	87.38	-885.8	648.0	914.8	894.6	20.21	45.278		
4,400.0	4,355.4	4,378.0	4,375.4	12.8	7.9	88.43	-882.0	645.9	910.1	889.4	20.71	43.946		
4,500.0	4,454.2	4,472.9	4,470.2	13.2	8.1	89.49	-878.7	643.7	906.1	884.9	21.21	42.719		
4,600.0	4,552.9	4,566.1	4,563.4	13.5	8.3	90.52	-875.9	641.9	903.0	881.2	21.71	41.599		
4,700.0	4,651.7	4,660.9	4,658.1	13.8	8.4	91.54	-873.5	640.8	900.7	878.5	22.20	40.571		
4,800.0	4,750.4	4,758.8	4,756.0	14.2	8.6	92.58	-871.3	639.6	898.9	876.2	22.69	39.609		
4,900.0	4,849.2	4,855.6	4,852.8	14.5	8.8	93.61	-869.1	638.7	897.5	874.3	23.18	38.711		
5,000.0	4,948.0	4,951.1	4,948.3	14.8	8.9	94.63	-867.3	637.8	896.7	873.1	23.67	37.888		
5,074.5	5,021.6	5,022.7	5,019.8	15.0	9.1	95.39	-866.1	637.1	896.6	872.6	24.03	37.315		
5,100.0	5,046.7	5,047.2	5,044.3	15.1	9.1	95.65	-865.8	636.9	896.6	872.4	24.15	37.127		
5,200.0	5,145.5	5,143.6	5,140.7	15.5	9.3	96.66	-864.5	636.1	897.0	872.4	24.63	36.424		
5,300.0	5,244.3	5,239.6	5,236.7	15.8	9.5	97.67	-863.4	635.3	898.0	872.9	25.10	35.777		
5,400.0	5,343.0	5,336.8	5,333.9	16.1	9.6	98.70	-862.7	634.4	899.6	874.0	25.57	35.179		
5,500.0	5,441.8	5,434.5	5,431.6	16.4	9.8	99.73	-861.9	633.4	901.4	875.4	26.04	34.620		
5,600.0	5,540.5	5,529.5	5,526.6	16.8	10.0	100.72	-861.5	632.5	903.9	877.4	26.49	34.118		
5,700.0	5,639.3	5,627.4	5,624.5	17.1	10.1	101.74	-861.3	631.5	907.0	880.0	26.95	33.653		
5,800.0	5,738.1	5,727.3	5,724.3	17.4	10.3	102.74	-861.1	630.9	910.3	882.9	27.40	33.216		
5,900.0	5,836.8	5,826.3	5,823.4	17.7	10.5	103.70	-860.9	630.8	913.7	885.9	27.85	32.807		
6,000.0	5,935.6	5,925.8	5,922.9	18.1	10.6	104.66	-860.7	630.6	917.5	889.2	28.30	32.424		
6,100.0	6,034.3	6,026.8	6,023.9	18.4	10.8	105.62	-860.3	630.7	921.2	892.4	28.74	32.056		
6,200.0	6,133.1	6,126.3	6,123.4	18.7	11.0	106.57	-859.8	630.5	925.1	895.9	29.17	31.714		
6,300.0	6,231.9	6,231.7	6,228.7	19.1	11.2	107.57	-858.7	630.3	928.8	899.2	29.61	31.374		
6,400.0	6,330.6	6,332.2	6,329.2	19.4	11.3	108.51	-857.2	630.6	932.2	902.2	30.03	31.043		
6,500.0	6,429.4	6,426.7	6,423.7	19.7	11.5	109.36	-856.2	631.1	936.2	905.8	30.44	30.753		
6,600.0	6,528.1	6,527.4	6,524.5	20.0	11.7	110.25	-855.2	631.6	940.4	909.6	30.86	30.474		
6,700.0	6,626.9	6,622.8	6,619.8	20.4	11.8	111.11	-854.2	631.9	944.9	913.7	31.27	30.222		
6,800.0	6,725.4	6,715.3	6,712.3	20.7	12.0	70.12	-853.8	631.9	943.9	912.4	31.54	29.930		
6,900.0	6,822.1	6,819.2	6,816.2	21.0	12.2	52.11	-853.2	632.1	930.0	898.6	31.39	29.631		
7,000.0	6,915.1	6,917.9	6,914.9	21.3	12.3	45.73	-852.0	632.8	903.2	872.4	30.86	29.272		
7,100.0	7,002.6	7,001.5	6,998.5	21.7	12.5	44.33	-851.0	633.5	865.3	835.3	30.05	28.797		
7,200.0	7,082.9	7,083.3	7,080.3	22.0	12.6	46.27	-850.0	634.1	817.6	788.5	29.15	28.052		
7,300.0	7,154.4	7,152.0	7,149.0	22.5	12.7	50.65	-849.1	634.5	761.8	733.4	28.39	26.832		
7,400.0	7,215.8	7,209.9	7,206.9	23.0	12.8	57.27	-848.6	634.8	700.3	672.2	28.06	24.960		
7,500.0	7,265.9	7,256.2	7,253.1	23.5	12.9	65.59	-848.3	634.9	635.8	607.5	28.28	22.479		
7,600.0	7,303.6	7,291.6	7,288.6	24.2	13.0	74.64	-848.3	635.0	571.7	542.7	28.97	19.735		
7,700.0	7,328.2	7,315.6	7,312.6	25.0	13.0	82.87	-848.4	635.0	512.0	482.1	29.86	17.148		
7,800.0	7,339.3	7,326.7	7,323.7	25.8	13.0	88.74	-848.4	635.0	462.0	431.1	30.84	14.979		
7,900.0	7,340.0	7,327.7	7,324.6	26.8	13.0	89.95	-848.4	635.0	427.6	395.5	32.08	13.330		
8,000.0	7,340.0	7,328.0	7,324.9	27.8	13.0	89.99	-848.4	635.0	415.0	381.5	33.45	12.404		

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 1I-19H-B2683
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 1I-19H-B2683	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS B UNIT 1 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,003.2	7,340.0	7,328.0	7,324.9	27.8	13.0	89.99	-848.4	635.0	415.0	381.5	33.50	12.386 CC, ES		
8,100.0	7,340.0	7,328.3	7,325.2	28.8	13.0	90.03	-848.4	635.0	426.1	391.2	34.89	12.214 SF		
8,200.0	7,340.0	7,328.6	7,325.6	30.0	13.0	90.08	-848.4	635.0	459.2	422.9	36.36	12.630		
8,300.0	7,340.0	7,328.9	7,325.9	31.2	13.0	90.12	-848.4	635.0	510.2	472.3	37.87	13.471		
8,400.0	7,340.0	7,329.2	7,326.2	32.4	13.0	90.16	-848.4	635.0	574.1	534.7	39.41	14.567		
8,500.0	7,340.0	7,329.5	7,326.5	33.7	13.0	90.20	-848.4	635.0	647.3	606.3	40.98	15.796		
8,600.0	7,340.0	7,329.8	7,326.8	35.0	13.0	90.25	-848.4	635.0	726.8	684.3	42.56	17.077		
8,700.0	7,340.0	7,330.1	7,327.1	36.4	13.0	90.29	-848.4	635.0	811.0	766.8	44.17	18.360		
8,800.0	7,340.0	7,330.4	7,327.4	37.8	13.0	90.34	-848.4	635.0	898.3	852.5	45.79	19.619		
8,900.0	7,340.0	7,330.8	7,327.7	39.2	13.0	90.38	-848.4	635.0	988.1	940.7	47.42	20.837		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1I-19H-B2683
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 1I-19H-B2683	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

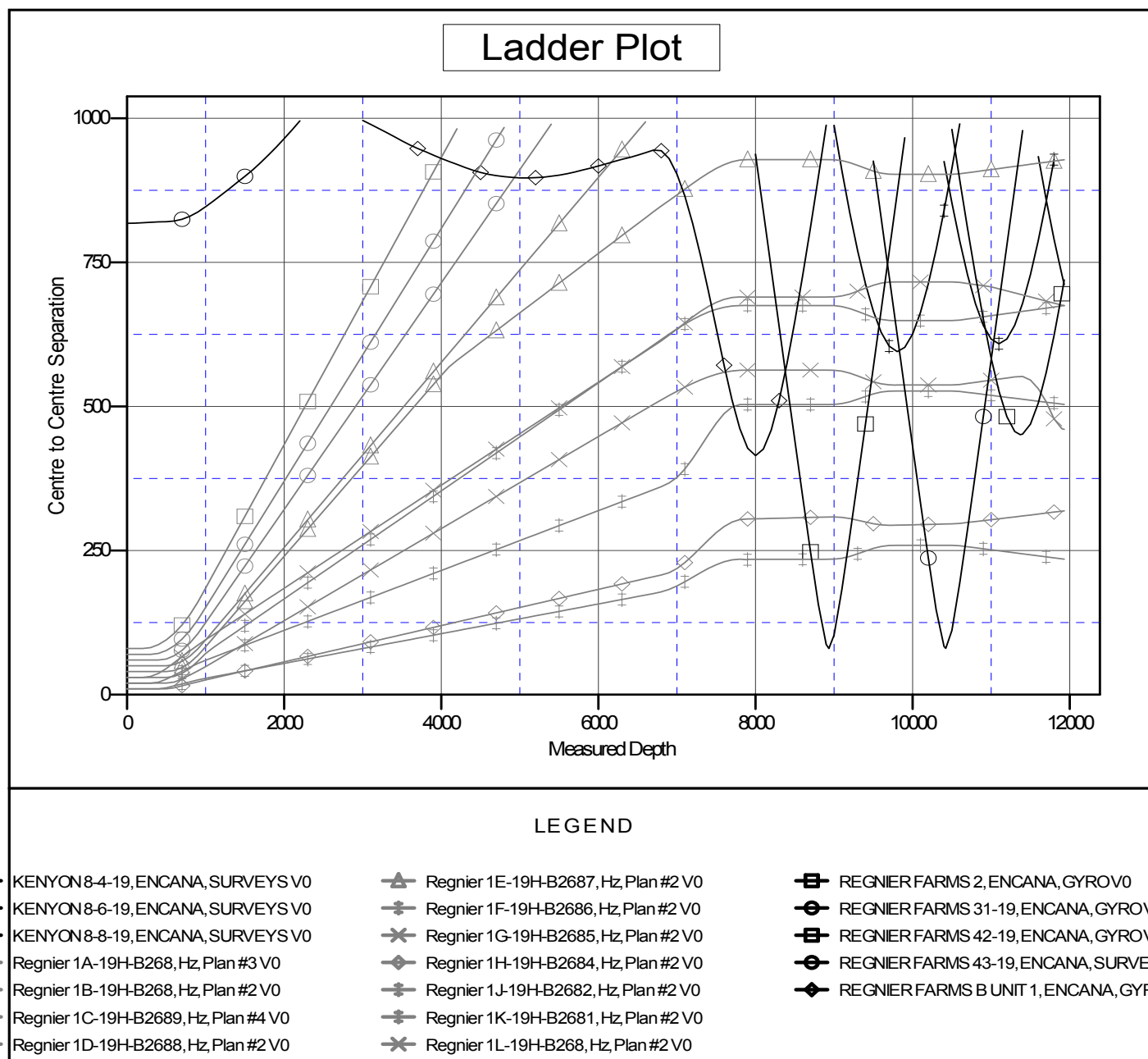
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Regnier 1I-19H-B2683

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