



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S19-T2N-R68W (Rasmussen/Regnier)			
Site Position:		Northing:	1,285,957.96 ft	Latitude:	40.117468
From:	Lat/Long	Easting:	3,125,548.08 ft	Longitude:	-105.051107
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Regnier 1H-19H-B2684					
Well Position	+N/-S	0.0 ft	Northing:	1,290,973.49 ft	Latitude:	40.131205
	+E/-W	0.0 ft	Easting:	3,127,773.35 ft	Longitude:	-105.043058
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,965.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
961.4	7.23	87.48	960.4	1.0	22.7	2.00	2.00	0.00	87.48	
6,899.2	7.23	87.48	6,851.1	33.9	769.1	0.00	0.00	0.00	0.00	
8,028.7	90.00	180.30	7,566.0	-682.7	855.9	8.00	7.33	8.22	92.80	
12,125.7	90.00	180.30	7,566.0	-4,779.7	834.8	0.00	0.00	0.00	0.00	Regnier 1H PBHL

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Site:	S19-T2N-R68W (Rasmussen/Regnier)	North Reference:	True
Well:	Regnier 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	Start Build 2.00
700.0	2.00	87.48	700.0	0.1	1.7	-0.1	2.00	2.00	
800.0	4.00	87.48	799.8	0.3	7.0	-0.3	2.00	2.00	
900.0	6.00	87.48	899.5	0.7	15.7	-0.7	2.00	2.00	
961.4	7.23	87.48	960.4	1.0	22.7	-1.0	2.00	2.00	Start 5937.8 hold at 961.4 MD
1,000.0	7.23	87.48	998.7	1.2	27.6	-1.2	0.00	0.00	
1,100.0	7.23	87.48	1,097.9	1.8	40.2	-1.8	0.00	0.00	
1,200.0	7.23	87.48	1,197.1	2.3	52.7	-2.3	0.00	0.00	
1,300.0	7.23	87.48	1,296.4	2.9	65.3	-2.9	0.00	0.00	
1,400.0	7.23	87.48	1,395.6	3.4	77.9	-3.4	0.00	0.00	
1,500.0	7.23	87.48	1,494.8	4.0	90.4	-4.0	0.00	0.00	
1,600.0	7.23	87.48	1,594.0	4.5	103.0	-4.5	0.00	0.00	
1,700.0	7.23	87.48	1,693.2	5.1	115.6	-5.1	0.00	0.00	
1,800.0	7.23	87.48	1,792.4	5.6	128.1	-5.6	0.00	0.00	
1,900.0	7.23	87.48	1,891.6	6.2	140.7	-6.2	0.00	0.00	
2,000.0	7.23	87.48	1,990.8	6.8	153.3	-6.8	0.00	0.00	
2,100.0	7.23	87.48	2,090.0	7.3	165.9	-7.3	0.00	0.00	
2,200.0	7.23	87.48	2,189.2	7.9	178.4	-7.9	0.00	0.00	
2,300.0	7.23	87.48	2,288.4	8.4	191.0	-8.4	0.00	0.00	
2,400.0	7.23	87.48	2,387.6	9.0	203.6	-9.0	0.00	0.00	
2,500.0	7.23	87.48	2,486.8	9.5	216.1	-9.5	0.00	0.00	
2,600.0	7.23	87.48	2,586.0	10.1	228.7	-10.1	0.00	0.00	
2,700.0	7.23	87.48	2,685.2	10.6	241.3	-10.6	0.00	0.00	
2,800.0	7.23	87.48	2,784.4	11.2	253.8	-11.2	0.00	0.00	
2,900.0	7.23	87.48	2,883.6	11.7	266.4	-11.7	0.00	0.00	
3,000.0	7.23	87.48	2,982.8	12.3	279.0	-12.3	0.00	0.00	
3,100.0	7.23	87.48	3,082.0	12.8	291.5	-12.8	0.00	0.00	
3,200.0	7.23	87.48	3,181.3	13.4	304.1	-13.4	0.00	0.00	
3,300.0	7.23	87.48	3,280.5	14.0	316.7	-14.0	0.00	0.00	
3,400.0	7.23	87.48	3,379.7	14.5	329.3	-14.5	0.00	0.00	
3,500.0	7.23	87.48	3,478.9	15.1	341.8	-15.1	0.00	0.00	
3,600.0	7.23	87.48	3,578.1	15.6	354.4	-15.6	0.00	0.00	
3,700.0	7.23	87.48	3,677.3	16.2	367.0	-16.2	0.00	0.00	
3,800.0	7.23	87.48	3,776.5	16.7	379.5	-16.7	0.00	0.00	
3,900.0	7.23	87.48	3,875.7	17.3	392.1	-17.3	0.00	0.00	
4,000.0	7.23	87.48	3,974.9	17.8	404.7	-17.8	0.00	0.00	
4,100.0	7.23	87.48	4,074.1	18.4	417.2	-18.4	0.00	0.00	
4,200.0	7.23	87.48	4,173.3	18.9	429.8	-18.9	0.00	0.00	
4,300.0	7.23	87.48	4,272.5	19.5	442.4	-19.5	0.00	0.00	
4,300.5	7.23	87.48	4,273.0	19.5	442.4	-19.5	0.00	0.00	Sussex
4,400.0	7.23	87.48	4,371.7	20.1	454.9	-20.1	0.00	0.00	
4,500.0	7.23	87.48	4,470.9	20.6	467.5	-20.6	0.00	0.00	
4,600.0	7.23	87.48	4,570.1	21.2	480.1	-21.2	0.00	0.00	
4,700.0	7.23	87.48	4,669.3	21.7	492.7	-21.7	0.00	0.00	
4,800.0	7.23	87.48	4,768.5	22.3	505.2	-22.3	0.00	0.00	

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Well:	Regnier 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,847.8	7.23	87.48	4,816.0	22.5	511.2	-22.5	0.00	0.00	Shannon
4,900.0	7.23	87.48	4,867.7	22.8	517.8	-22.8	0.00	0.00	
5,000.0	7.23	87.48	4,967.0	23.4	530.4	-23.4	0.00	0.00	
5,100.0	7.23	87.48	5,066.2	23.9	542.9	-23.9	0.00	0.00	
5,200.0	7.23	87.48	5,165.4	24.5	555.5	-24.5	0.00	0.00	
5,300.0	7.23	87.48	5,264.6	25.0	568.1	-25.0	0.00	0.00	
5,400.0	7.23	87.48	5,363.8	25.6	580.6	-25.6	0.00	0.00	
5,500.0	7.23	87.48	5,463.0	26.1	593.2	-26.1	0.00	0.00	
5,600.0	7.23	87.48	5,562.2	26.7	605.8	-26.7	0.00	0.00	
5,700.0	7.23	87.48	5,661.4	27.3	618.3	-27.3	0.00	0.00	
5,800.0	7.23	87.48	5,760.6	27.8	630.9	-27.8	0.00	0.00	
5,900.0	7.23	87.48	5,859.8	28.4	643.5	-28.4	0.00	0.00	
6,000.0	7.23	87.48	5,959.0	28.9	656.1	-28.9	0.00	0.00	
6,100.0	7.23	87.48	6,058.2	29.5	668.6	-29.5	0.00	0.00	
6,200.0	7.23	87.48	6,157.4	30.0	681.2	-30.0	0.00	0.00	
6,300.0	7.23	87.48	6,256.6	30.6	693.8	-30.6	0.00	0.00	
6,400.0	7.23	87.48	6,355.8	31.1	706.3	-31.1	0.00	0.00	
6,500.0	7.23	87.48	6,455.0	31.7	718.9	-31.7	0.00	0.00	
6,600.0	7.23	87.48	6,554.2	32.2	731.5	-32.2	0.00	0.00	
6,658.2	7.23	87.48	6,612.0	32.6	738.8	-32.6	0.00	0.00	Teepee Buttes (*if present)
6,700.0	7.23	87.48	6,653.4	32.8	744.0	-32.8	0.00	0.00	
6,800.0	7.23	87.48	6,752.6	33.3	756.6	-33.3	0.00	0.00	
6,899.2	7.23	87.48	6,851.1	33.9	769.1	-33.9	0.00	0.00	Start DLS 8.00 TFO 92.80
6,900.0	7.22	87.97	6,851.9	33.9	769.2	-33.9	8.00	-0.36	
7,000.0	10.55	137.42	6,950.8	27.4	781.7	-27.4	8.00	3.32	
7,100.0	17.25	156.22	7,047.8	7.0	793.9	-7.0	8.00	6.70	
7,200.0	24.72	164.33	7,141.2	-26.7	805.5	26.7	8.00	7.47	
7,228.7	26.92	165.85	7,167.0	-38.8	808.7	38.8	8.00	7.66	Sharon Springs
7,300.0	32.44	168.80	7,228.9	-73.2	816.4	73.2	8.00	7.74	
7,337.4	35.35	170.01	7,260.0	-93.8	820.2	93.8	8.00	7.79	Niobrara
7,400.0	40.25	171.69	7,309.4	-131.6	826.3	131.6	8.00	7.83	
7,427.4	42.40	172.32	7,330.0	-149.5	828.8	149.5	8.00	7.85	B Chalk
7,466.3	45.46	173.14	7,358.0	-176.3	832.2	176.3	8.00	7.87	B Marl
7,500.0	48.12	173.77	7,381.1	-200.7	835.0	200.7	8.00	7.88	
7,569.6	53.62	174.94	7,425.0	-254.4	840.3	254.4	8.00	7.89	C Chalk
7,600.0	56.02	175.40	7,442.5	-279.2	842.4	279.2	8.00	7.90	
7,604.5	56.37	175.46	7,445.0	-282.9	842.7	282.9	8.00	7.91	C Marl
7,664.3	61.10	176.29	7,476.0	-333.8	846.3	333.8	8.00	7.91	D Chalk
7,700.0	63.93	176.74	7,492.5	-365.5	848.3	365.5	8.00	7.92	
7,800.0	71.86	177.92	7,530.1	-457.9	852.6	457.9	8.00	7.93	
7,816.3	73.15	178.10	7,535.0	-473.5	853.1	473.5	8.00	7.93	Fort Hayes
7,900.0	79.79	178.99	7,554.6	-554.8	855.2	554.8	8.00	7.93	
7,908.4	80.45	179.07	7,556.0	-563.0	855.3	563.0	8.00	7.93	Codell
8,000.0	87.73	180.01	7,565.4	-654.1	856.0	654.1	8.00	7.94	
8,028.7	90.00	180.30	7,566.0	-682.7	855.9	682.7	8.00	7.94	Start 4097.0 hold at 8028.7 MD
8,100.0	90.00	180.30	7,566.0	-754.1	855.6	754.1	0.00	0.00	
8,200.0	90.00	180.30	7,566.0	-854.1	855.1	854.1	0.00	0.00	
8,300.0	90.00	180.30	7,566.0	-954.1	854.5	954.1	0.00	0.00	
8,400.0	90.00	180.30	7,566.0	-1,054.1	854.0	1,054.1	0.00	0.00	
8,500.0	90.00	180.30	7,566.0	-1,154.1	853.5	1,154.1	0.00	0.00	
8,600.0	90.00	180.30	7,566.0	-1,254.1	853.0	1,254.1	0.00	0.00	
8,700.0	90.00	180.30	7,566.0	-1,354.1	852.5	1,354.1	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
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Well:	Regnier 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	180.30	7,566.0	-1,454.1	852.0	1,454.1	0.00	0.00	
8,900.0	90.00	180.30	7,566.0	-1,554.1	851.4	1,554.1	0.00	0.00	
9,000.0	90.00	180.30	7,566.0	-1,654.1	850.9	1,654.1	0.00	0.00	
9,100.0	90.00	180.30	7,566.0	-1,754.1	850.4	1,754.1	0.00	0.00	
9,200.0	90.00	180.30	7,566.0	-1,854.1	849.9	1,854.1	0.00	0.00	
9,300.0	90.00	180.30	7,566.0	-1,954.1	849.4	1,954.1	0.00	0.00	
9,400.0	90.00	180.30	7,566.0	-2,054.1	848.9	2,054.1	0.00	0.00	
9,500.0	90.00	180.30	7,566.0	-2,154.1	848.4	2,154.1	0.00	0.00	
9,600.0	90.00	180.30	7,566.0	-2,254.1	847.8	2,254.1	0.00	0.00	
9,700.0	90.00	180.30	7,566.0	-2,354.1	847.3	2,354.1	0.00	0.00	
9,800.0	90.00	180.30	7,566.0	-2,454.1	846.8	2,454.1	0.00	0.00	
9,900.0	90.00	180.30	7,566.0	-2,554.1	846.3	2,554.1	0.00	0.00	
10,000.0	90.00	180.30	7,566.0	-2,654.1	845.8	2,654.1	0.00	0.00	
10,100.0	90.00	180.30	7,566.0	-2,754.1	845.3	2,754.1	0.00	0.00	
10,200.0	90.00	180.30	7,566.0	-2,854.1	844.7	2,854.1	0.00	0.00	
10,300.0	90.00	180.30	7,566.0	-2,954.1	844.2	2,954.1	0.00	0.00	
10,400.0	90.00	180.30	7,566.0	-3,054.1	843.7	3,054.1	0.00	0.00	
10,500.0	90.00	180.30	7,566.0	-3,154.1	843.2	3,154.1	0.00	0.00	
10,600.0	90.00	180.30	7,566.0	-3,254.1	842.7	3,254.1	0.00	0.00	
10,700.0	90.00	180.30	7,566.0	-3,354.1	842.2	3,354.1	0.00	0.00	
10,800.0	90.00	180.30	7,566.0	-3,454.1	841.6	3,454.1	0.00	0.00	
10,900.0	90.00	180.30	7,566.0	-3,554.1	841.1	3,554.1	0.00	0.00	
11,000.0	90.00	180.30	7,566.0	-3,654.0	840.6	3,654.0	0.00	0.00	
11,100.0	90.00	180.30	7,566.0	-3,754.0	840.1	3,754.0	0.00	0.00	
11,200.0	90.00	180.30	7,566.0	-3,854.0	839.6	3,854.0	0.00	0.00	
11,300.0	90.00	180.30	7,566.0	-3,954.0	839.1	3,954.0	0.00	0.00	
11,400.0	90.00	180.30	7,566.0	-4,054.0	838.6	4,054.0	0.00	0.00	
11,500.0	90.00	180.30	7,566.0	-4,154.0	838.0	4,154.0	0.00	0.00	
11,600.0	90.00	180.30	7,566.0	-4,254.0	837.5	4,254.0	0.00	0.00	
11,700.0	90.00	180.30	7,566.0	-4,354.0	837.0	4,354.0	0.00	0.00	
11,800.0	90.00	180.30	7,566.0	-4,454.0	836.5	4,454.0	0.00	0.00	
11,900.0	90.00	180.30	7,566.0	-4,554.0	836.0	4,554.0	0.00	0.00	
12,000.0	90.00	180.30	7,566.0	-4,654.0	835.5	4,654.0	0.00	0.00	
12,100.0	90.00	180.30	7,566.0	-4,754.0	834.9	4,754.0	0.00	0.00	
12,125.7	90.00	180.30	7,566.0	-4,779.7	834.8	4,779.7	0.00	0.00	TD at 12125.7

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Regnier 1H PBHL	0.00	0.30	7,566.0	-4,779.7	834.8	1,286,198.17	3,128,632.78	40.118084	-105.040073
- plan hits target center									
- Point									

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Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
250.0	250.0	Fox Hills - BASE			
4,300.5	4,273.0	Sussex			
4,847.8	4,816.0	Shannon			
6,658.2	6,612.0	Teepee Buttes (*if present)			
7,228.7	7,167.0	Sharon Springs			
7,337.4	7,260.0	Niobrara			
7,427.4	7,330.0	B Chalk			
7,466.3	7,358.0	B Marl			
7,569.6	7,425.0	C Chalk			
7,604.5	7,445.0	C Marl			
7,664.3	7,476.0	D Chalk			
7,816.3	7,535.0	Fort Hayes			
7,908.4	7,556.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	Start Build 2.00
961.4	960.4	1.0	22.7	Start 5937.8 hold at 961.4 MD
6,899.2	6,851.1	33.9	769.1	Start DLS 8.00 TFO 92.80
8,028.7	7,566.0	-682.7	855.9	Start 4097.0 hold at 8028.7 MD
12,125.7	7,566.0	-4,779.7	834.8	TD at 12125.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1H-19H-B2684

Hz

Plan #2

Anticollision Report

08 January, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	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	12,125.7	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

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Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S19-T2N-R68W (Rasmussen/Regnier)						
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	9,996.5	7,982.5	781.2	699.3	9.532	CC
KENYON 8-4-19 - ENCANA - SURVEYS	10,000.0	7,982.5	781.2	699.2	9.525	ES
KENYON 8-4-19 - ENCANA - SURVEYS	10,100.0	7,983.0	788.0	704.3	9.413	SF
KENYON 8-6-19 - ENCANA - SURVEYS	11,277.7	7,655.9	826.4	740.1	9.577	CC
KENYON 8-6-19 - ENCANA - SURVEYS	11,300.0	7,656.4	826.7	740.0	9.538	ES
KENYON 8-6-19 - ENCANA - SURVEYS	11,400.0	7,658.5	835.4	747.0	9.449	SF
KENYON 8-8-19 - ENCANA - SURVEYS	12,125.7	7,806.7	913.9	807.2	8.566	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	70.0	69.3	107.184	CC, ES
Regnier 1A-19H-B268 - Hz - Plan #3	600.0	592.1	94.6	92.4	43.945	SF
Regnier 1B-19H-B268 - Hz - Plan #2	300.0	300.0	59.9	58.9	59.769	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	800.0	794.7	92.6	89.9	33.910	SF
Regnier 1C-19H-B2689 - Hz - Plan #4	400.0	400.0	50.1	48.7	37.075	CC, ES
Regnier 1C-19H-B2689 - Hz - Plan #4	700.0	697.7	61.5	59.1	25.720	SF
Regnier 1D-19H-B2688 - Hz - Plan #2	500.0	500.0	40.0	38.3	23.537	CC
Regnier 1D-19H-B2688 - Hz - Plan #2	600.0	599.9	40.4	38.3	19.697	ES
Regnier 1D-19H-B2688 - Hz - Plan #2	12,125.7	11,907.4	909.5	738.5	5.318	SF
Regnier 1E-19H-B2687 - Hz - Plan #2	600.0	600.0	29.9	27.9	14.611	CC, ES
Regnier 1E-19H-B2687 - Hz - Plan #2	12,125.7	12,047.5	675.1	502.3	3.907	SF
Regnier 1F-19H-B2686 - Hz - Plan #2	600.0	600.0	19.9	17.8	9.696	CC, ES
Regnier 1F-19H-B2686 - Hz - Plan #2	12,125.7	11,846.3	503.6	348.5	3.247	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	600.0	600.0	10.1	8.0	4.916	CC, ES
Regnier 1G-19H-B2685 - Hz - Plan #2	12,125.7	11,962.7	260.5	110.2	1.733	SF
Regnier 1I-19H-B2683 - Hz - Plan #3	500.0	500.0	10.1	8.4	5.925	CC, ES
Regnier 1I-19H-B2683 - Hz - Plan #3	12,125.7	11,931.3	319.0	194.1	2.554	SF
Regnier 1J-19H-B2682 - Hz - Plan #2	400.0	400.0	20.1	18.8	14.913	CC, ES
Regnier 1J-19H-B2682 - Hz - Plan #2	12,125.7	12,057.8	459.4	293.5	2.769	SF
Regnier 1K-19H-B2681 - Hz - Plan #2	300.0	300.0	29.9	28.9	29.884	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	12,125.7	12,228.3	675.2	502.7	3.912	SF

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

Anticollision Report

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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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S19-T2N-R68W (Rasmussen/Regnier)						
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	40.0	39.4	61.296	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	12,125.7	12,065.8	928.3	760.7	5.538	SF
REGNIER 4-4-19 - ENCANA - SURVEYS						Out of range
REGNIER FARMS 2 - ENCANA - GYRO	11,568.9	7,578.4	240.5	150.5	2.673	CC, ES, SF
REGNIER FARMS 31-19 - ENCANA - GYRO	0.0	0.0	812.5			
REGNIER FARMS 31-19 - ENCANA - GYRO	100.0	89.1	812.8	812.4	2,640.900	ES
REGNIER FARMS 31-19 - ENCANA - GYRO	2,500.0	2,427.0	993.3	983.9	105.309	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	9,124.7	7,548.0	128.6	80.3	2.660	CC, ES, SF
REGNIER FARMS 43-19 - ENCANA - SURVEYS	10,611.1	7,801.8	272.7	198.4	3.672	CC, ES, SF
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,196.5	7,549.1	212.4	178.4	6.235	CC
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	8,200.0	7,549.1	212.5	178.3	6.227	ES, SF
ROSS 0-2-19 - ENCANA - SURVEYS						Out of range
ROSS 11-19 - ENCANA - SURVEYS						Out of range
Ross 12-19 - ENCANA - SURVEYS						Out of range
ROSS 12-19 - ENCANA - SURVEYS						Out of range
ROSS 21-19 - ENCANA - GYRO						Out of range
ROSS 22-19 - ENCANA - NO SURVEYS						Out of range
ROSS 2-4-19 - ENCANA - SURVEYS						Out of range
ROSS 41-24 - ENCANA - NO SURVEYS						Out of range
ROSS 4-2-19 - ENCANA WELL - SURVEYS						Out of range
ROSS F 1 - ENCANA - GYRO						Out of range
STROMQUIST 43-24 - ENCANA - NO SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - KENYON 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		
9,400.0	7,566.0	7,979.4	7,601.8	42.5	35.9	-90.57	-2,654.6	1,627.0	982.9	911.0	71.94	13.664		
9,500.0	7,566.0	7,979.9	7,602.3	44.1	35.9	-90.61	-2,654.6	1,627.0	925.7	852.1	73.60	12.576		
9,600.0	7,566.0	7,980.5	7,602.8	45.7	35.9	-90.65	-2,654.6	1,627.0	876.1	800.8	75.28	11.638		
9,700.0	7,566.0	7,981.0	7,603.3	47.2	35.9	-90.68	-2,654.6	1,627.0	835.6	758.6	76.95	10.858		
9,800.0	7,566.0	7,981.5	7,603.8	48.8	35.9	-90.72	-2,654.6	1,626.9	805.6	726.9	78.64	10.244		
9,900.0	7,566.0	7,982.0	7,604.4	50.4	35.9	-90.76	-2,654.6	1,626.9	787.2	706.8	80.33	9.799		
9,996.5	7,566.0	7,982.5	7,604.8	52.0	35.9	-90.80	-2,654.6	1,626.9	781.2	699.3	81.96	9.532 CC		
10,000.0	7,566.0	7,982.5	7,604.9	52.1	35.9	-90.80	-2,654.6	1,626.9	781.2	699.2	82.02	9.525 ES		
10,100.0	7,566.0	7,983.0	7,605.4	53.7	35.9	-90.83	-2,654.6	1,626.9	788.0	704.3	83.72	9.413 SF		
10,200.0	7,566.0	7,983.5	7,605.9	55.3	35.9	-90.87	-2,654.6	1,626.9	807.3	721.9	85.42	9.451		
10,300.0	7,566.0	7,984.0	7,606.4	57.0	35.9	-90.91	-2,654.6	1,626.9	838.1	751.0	87.12	9.620		
10,400.0	7,566.0	7,984.5	7,606.9	58.6	35.9	-90.94	-2,654.6	1,626.9	879.3	790.4	88.83	9.898		
10,500.0	7,566.0	7,985.0	7,607.3	60.3	35.9	-90.98	-2,654.6	1,626.9	929.4	838.9	90.54	10.265		
10,600.0	7,566.0	7,985.5	7,607.8	61.9	35.9	-91.01	-2,654.6	1,626.9	987.2	894.9	92.25	10.701		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - KENYON 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						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		
10,800.0	7,566.0	7,646.1	7,511.2	65.3	22.3	-84.25	-3,935.7	1,661.5	954.5	876.5	78.01	12.235		
10,900.0	7,566.0	7,648.1	7,513.2	66.9	22.3	-84.39	-3,935.8	1,661.7	908.6	828.9	79.74	11.394		
11,000.0	7,566.0	7,650.1	7,515.2	68.6	22.3	-84.53	-3,935.8	1,661.9	871.8	790.3	81.47	10.701		
11,100.0	7,566.0	7,652.2	7,517.3	70.3	22.3	-84.67	-3,935.9	1,662.0	845.3	762.1	83.20	10.159		
11,200.0	7,566.0	7,654.3	7,519.3	72.0	22.3	-84.82	-3,936.0	1,662.2	830.1	745.1	84.94	9.772		
11,277.7	7,566.0	7,655.9	7,521.0	73.3	22.3	-84.93	-3,936.0	1,662.4	826.4	740.1	86.29	9.577 CC		
11,300.0	7,566.0	7,656.4	7,521.4	73.7	22.3	-84.96	-3,936.0	1,662.4	826.7	740.0	86.67	9.538 ES		
11,400.0	7,566.0	7,658.5	7,523.6	75.4	22.3	-85.11	-3,936.1	1,662.6	835.4	747.0	88.41	9.449 SF		
11,500.0	7,566.0	7,660.7	7,525.7	77.1	22.3	-85.26	-3,936.2	1,662.8	855.8	765.6	90.15	9.492		
11,600.0	7,566.0	7,662.9	7,527.9	78.8	22.4	-85.41	-3,936.2	1,663.0	887.0	795.1	91.89	9.652		
11,700.0	7,566.0	7,665.1	7,530.1	80.5	22.4	-85.57	-3,936.3	1,663.2	928.0	834.4	93.64	9.911		
11,800.0	7,566.0	7,667.4	7,532.4	82.2	22.4	-85.73	-3,936.4	1,663.4	977.5	882.1	95.38	10.249		

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Reference Site:	S19-T2N-R68W (Rasmussen/Regnier)	MD Reference:	13' KB @ 4978.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Regnier 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - KENYON 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 (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
12,000.0	7,566.0	7,809.5	7,612.0	85.6	26.6	-91.23	-5,148.4	1,670.9	970.9	866.4	104.51	9.290	
12,100.0	7,566.0	7,807.3	7,609.7	87.3	26.6	-91.08	-5,148.4	1,670.9	924.4	818.2	106.25	8.701	
12,125.7	7,566.0	7,806.7	7,609.2	87.7	26.6	-91.04	-5,148.4	1,670.9	913.9	807.2	106.69	8.566 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-92.39	-2.9	-69.9	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	-92.39	-2.9	-69.9	70.0	69.7	0.30	230.384		
200.0	200.0	200.0	200.0	0.3	0.3	-92.39	-2.9	-69.9	70.0	69.3	0.65	107.184 CC, ES		
300.0	300.0	297.6	297.6	0.5	0.5	-92.36	-2.9	-71.6	71.7	70.7	1.00	71.582		
400.0	400.0	394.9	394.8	0.7	0.7	-92.26	-3.0	-76.5	76.8	75.4	1.37	56.228		
500.0	500.0	492.5	492.0	0.8	0.9	-92.13	-3.2	-84.7	85.2	83.4	1.75	48.623		
600.0	600.0	592.1	591.1	1.0	1.1	-92.01	-3.3	-94.1	94.6	92.4	2.15	43.945 SF		
700.0	700.0	691.4	690.0	1.2	1.4	-179.40	-3.5	-103.4	105.7	103.3	2.38	44.401		
800.0	799.8	790.3	788.5	1.4	1.6	-179.34	-3.6	-112.7	120.3	117.6	2.72	44.188		
900.0	899.5	888.7	886.4	1.6	1.8	-179.32	-3.8	-122.0	138.3	135.3	3.06	45.209		
1,000.0	998.7	986.4	983.7	1.8	2.1	-179.31	-3.9	-131.2	159.5	156.1	3.40	46.963		
1,100.0	1,097.9	1,084.0	1,080.9	2.1	2.3	-179.31	-4.1	-140.3	181.4	177.7	3.74	48.497		
1,200.0	1,197.1	1,181.6	1,178.0	2.3	2.5	-179.31	-4.2	-149.5	203.2	199.2	4.08	49.775		
1,300.0	1,296.4	1,279.2	1,275.2	2.6	2.7	-179.31	-4.3	-158.7	225.1	220.7	4.43	50.855		
1,400.0	1,395.6	1,376.8	1,372.3	2.8	3.0	-179.31	-4.5	-167.9	246.9	242.2	4.77	51.780		
1,500.0	1,494.8	1,474.3	1,469.5	3.1	3.2	-179.31	-4.6	-177.0	268.8	263.7	5.11	52.581		
1,600.0	1,594.0	1,571.9	1,566.6	3.4	3.4	-179.31	-4.8	-186.2	290.6	285.2	5.45	53.282		
1,700.0	1,693.2	1,669.5	1,663.8	3.6	3.7	-179.31	-4.9	-195.4	312.5	306.7	5.80	53.900		
1,800.0	1,792.4	1,767.1	1,761.0	3.9	3.9	-179.31	-5.1	-204.5	334.3	328.2	6.14	54.449		
1,900.0	1,891.6	1,864.7	1,858.1	4.2	4.1	-179.31	-5.2	-213.7	356.2	349.7	6.48	54.940		
2,000.0	1,990.8	1,962.3	1,955.3	4.5	4.4	-179.31	-5.4	-222.9	378.0	371.2	6.83	55.382		
2,100.0	2,090.0	2,059.8	2,052.4	4.7	4.6	-179.31	-5.5	-232.1	399.9	392.7	7.17	55.782		
2,200.0	2,189.2	2,157.4	2,149.6	5.0	4.8	-179.31	-5.7	-241.2	421.7	414.2	7.51	56.146		
2,300.0	2,288.4	2,255.0	2,246.7	5.3	5.1	-179.31	-5.8	-250.4	443.6	435.7	7.85	56.478		
2,400.0	2,387.6	2,352.6	2,343.9	5.6	5.3	-179.31	-6.0	-259.6	465.4	457.2	8.20	56.782		
2,500.0	2,486.8	2,450.2	2,441.0	5.8	5.5	-179.31	-6.1	-268.8	487.3	478.8	8.54	57.061		
2,600.0	2,586.0	2,547.8	2,538.2	6.1	5.8	-179.31	-6.3	-277.9	509.1	500.3	8.88	57.320		
2,700.0	2,685.2	2,645.3	2,635.3	6.4	6.0	-179.31	-6.4	-287.1	531.0	521.8	9.23	57.559		
2,800.0	2,784.4	2,742.9	2,732.5	6.7	6.2	-179.31	-6.6	-296.3	552.8	543.3	9.57	57.781		
2,900.0	2,883.6	2,840.5	2,829.6	7.0	6.5	-179.31	-6.7	-305.4	574.7	564.8	9.91	57.987		
3,000.0	2,982.8	2,938.1	2,926.8	7.2	6.7	-179.31	-6.9	-314.6	596.5	586.3	10.25	58.180		
3,100.0	3,082.0	3,035.7	3,023.9	7.5	7.0	-179.31	-7.0	-323.8	618.4	607.8	10.60	58.360		
3,200.0	3,181.3	3,133.3	3,121.1	7.8	7.2	-179.31	-7.2	-333.0	640.2	629.3	10.94	58.530		
3,300.0	3,280.5	3,230.9	3,218.2	8.1	7.4	-179.31	-7.3	-342.1	662.1	650.8	11.28	58.688		
3,400.0	3,379.7	3,328.4	3,315.4	8.4	7.7	-179.31	-7.5	-351.3	683.9	672.3	11.62	58.838		
3,500.0	3,478.9	3,426.0	3,412.5	8.6	7.9	-179.31	-7.6	-360.5	705.8	693.8	11.97	58.979		
3,600.0	3,578.1	3,523.6	3,509.7	8.9	8.1	-179.31	-7.7	-369.7	727.6	715.3	12.31	59.112		
3,700.0	3,677.3	3,621.2	3,606.8	9.2	8.4	-179.31	-7.9	-378.8	749.5	736.8	12.65	59.238		
3,800.0	3,776.5	3,718.8	3,704.0	9.5	8.6	-179.31	-8.0	-388.0	771.3	758.3	13.00	59.357		
3,900.0	3,875.7	3,816.4	3,801.1	9.8	8.8	-179.31	-8.2	-397.2	793.2	779.9	13.34	59.470		
4,000.0	3,974.9	3,913.9	3,898.3	10.0	9.1	-179.31	-8.3	-406.3	815.0	801.4	13.68	59.578		
4,100.0	4,074.1	4,011.5	3,995.4	10.3	9.3	-179.31	-8.5	-415.5	836.9	822.9	14.02	59.680		
4,200.0	4,173.3	4,109.1	4,092.6	10.6	9.5	-179.31	-8.6	-424.7	858.7	844.4	14.37	59.777		
4,300.0	4,272.5	4,206.7	4,189.7	10.9	9.8	-179.31	-8.8	-433.9	880.6	865.9	14.71	59.870		
4,400.0	4,371.7	4,304.3	4,286.9	11.2	10.0	-179.31	-8.9	-443.0	902.4	887.4	15.05	59.959		
4,500.0	4,470.9	4,401.9	4,384.0	11.4	10.2	-179.31	-9.1	-452.2	924.3	908.9	15.39	60.043		
4,600.0	4,570.1	4,499.4	4,481.2	11.7	10.5	-179.31	-9.2	-461.4	946.1	930.4	15.74	60.124		
4,700.0	4,669.3	4,597.0	4,578.3	12.0	10.7	-179.31	-9.4	-470.6	968.0	951.9	16.08	60.202		
4,800.0	4,768.5	4,694.6	4,675.5	12.3	10.9	-179.31	-9.5	-479.7	989.8	973.4	16.42	60.276		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-92.09	-2.2	-59.8	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	-92.09	-2.2	-59.8	59.9	59.6	0.30	197.168		
200.0	200.0	200.0	200.0	0.3	0.3	-92.09	-2.2	-59.8	59.9	59.2	0.65	91.731		
300.0	300.0	300.0	300.0	0.5	0.5	-92.09	-2.2	-59.8	59.9	58.9	1.00	59.769 CC, ES		
400.0	400.0	397.9	397.9	0.7	0.7	-92.06	-2.2	-61.5	61.6	60.2	1.35	45.622		
500.0	500.0	495.9	495.8	0.8	0.9	-91.97	-2.3	-66.5	66.7	65.0	1.71	39.006		
600.0	600.0	595.7	595.4	1.0	1.1	-91.87	-2.4	-72.8	73.0	70.9	2.08	35.119		
700.0	700.0	695.4	694.8	1.2	1.3	-179.28	-2.5	-79.1	81.1	78.7	2.39	33.951		
800.0	799.8	794.7	794.0	1.4	1.5	-179.25	-2.6	-85.4	92.6	89.9	2.73	33.910 SF		
900.0	899.5	893.6	892.6	1.6	1.7	-179.25	-2.7	-91.7	107.6	104.6	3.07	35.048		
1,000.0	998.7	991.9	990.8	1.8	1.9	-179.28	-2.8	-97.9	125.8	122.4	3.41	36.895		
1,100.0	1,097.9	1,090.1	1,088.8	2.1	2.1	-179.30	-2.8	-104.2	144.7	140.9	3.76	38.526		
1,200.0	1,197.1	1,188.3	1,186.8	2.3	2.3	-179.31	-2.9	-110.4	163.5	159.4	4.10	39.882		
1,300.0	1,296.4	1,286.5	1,284.8	2.6	2.5	-179.33	-3.0	-116.6	182.4	177.9	4.44	41.029		
1,400.0	1,395.6	1,384.7	1,382.8	2.8	2.7	-179.34	-3.1	-122.8	201.2	196.4	4.79	42.011		
1,500.0	1,494.8	1,483.0	1,480.8	3.1	2.9	-179.34	-3.2	-129.0	220.0	214.9	5.13	42.862		
1,600.0	1,594.0	1,581.2	1,578.8	3.4	3.1	-179.35	-3.3	-135.3	238.9	233.4	5.48	43.606		
1,700.0	1,693.2	1,679.4	1,676.8	3.6	3.3	-179.36	-3.4	-141.5	257.7	251.9	5.82	44.261		
1,800.0	1,792.4	1,777.6	1,774.9	3.9	3.5	-179.36	-3.5	-147.7	276.6	270.4	6.17	44.844		
1,900.0	1,891.6	1,875.8	1,872.9	4.2	3.7	-179.37	-3.6	-153.9	295.4	288.9	6.51	45.365		
2,000.0	1,990.8	1,974.0	1,970.9	4.5	3.9	-179.37	-3.7	-160.2	314.3	307.4	6.86	45.834		
2,100.0	2,090.0	2,072.2	2,068.9	4.7	4.1	-179.38	-3.8	-166.4	333.1	325.9	7.20	46.258		
2,200.0	2,189.2	2,170.4	2,166.9	5.0	4.3	-179.38	-3.9	-172.6	351.9	344.4	7.55	46.644		
2,300.0	2,288.4	2,268.6	2,264.9	5.3	4.5	-179.38	-4.0	-178.8	370.8	362.9	7.89	46.996		
2,400.0	2,387.6	2,366.8	2,362.9	5.6	4.7	-179.39	-4.0	-185.1	389.6	381.4	8.23	47.318		
2,500.0	2,486.8	2,465.0	2,460.9	5.8	4.9	-179.39	-4.1	-191.3	408.5	399.9	8.58	47.615		
2,600.0	2,586.0	2,563.3	2,558.9	6.1	5.1	-179.39	-4.2	-197.5	427.3	418.4	8.92	47.889		
2,700.0	2,685.2	2,661.5	2,657.0	6.4	5.3	-179.39	-4.3	-203.7	446.1	436.9	9.27	48.142		
2,800.0	2,784.4	2,759.7	2,755.0	6.7	5.5	-179.39	-4.4	-209.9	465.0	455.4	9.61	48.377		
2,900.0	2,883.6	2,857.9	2,853.0	7.0	5.7	-179.40	-4.5	-216.2	483.8	473.9	9.96	48.596		
3,000.0	2,982.8	2,956.1	2,951.0	7.2	5.9	-179.40	-4.6	-222.4	502.7	492.4	10.30	48.801		
3,100.0	3,082.0	3,054.3	3,049.0	7.5	6.1	-179.40	-4.7	-228.6	521.5	510.9	10.64	48.992		
3,200.0	3,181.3	3,152.5	3,147.0	7.8	6.3	-179.40	-4.8	-234.8	540.3	529.4	10.99	49.171		
3,300.0	3,280.5	3,250.7	3,245.0	8.1	6.5	-179.40	-4.9	-241.1	559.2	547.9	11.33	49.339		
3,400.0	3,379.7	3,348.9	3,343.0	8.4	6.7	-179.40	-5.0	-247.3	578.0	566.4	11.68	49.498		
3,500.0	3,478.9	3,447.1	3,441.1	8.6	6.9	-179.40	-5.1	-253.5	596.9	584.8	12.02	49.647		
3,600.0	3,578.1	3,545.3	3,539.1	8.9	7.1	-179.40	-5.2	-259.7	615.7	603.3	12.37	49.788		
3,700.0	3,677.3	3,643.6	3,637.1	9.2	7.3	-179.41	-5.2	-266.0	634.6	621.8	12.71	49.922		
3,800.0	3,776.5	3,741.8	3,735.1	9.5	7.5	-179.41	-5.3	-272.2	653.4	640.3	13.06	50.048		
3,900.0	3,875.7	3,840.0	3,833.1	9.8	7.7	-179.41	-5.4	-278.4	672.2	658.8	13.40	50.168		
4,000.0	3,974.9	3,938.2	3,931.1	10.0	7.9	-179.41	-5.5	-284.6	691.1	677.3	13.74	50.282		
4,100.0	4,074.1	4,036.4	4,029.1	10.3	8.1	-179.41	-5.6	-290.8	709.9	695.8	14.09	50.390		
4,200.0	4,173.3	4,134.6	4,127.1	10.6	8.3	-179.41	-5.7	-297.1	728.8	714.3	14.43	50.493		
4,300.0	4,272.5	4,232.8	4,225.1	10.9	8.5	-179.41	-5.8	-303.3	747.6	732.8	14.78	50.592		
4,400.0	4,371.7	4,331.0	4,323.2	11.2	8.7	-179.41	-5.9	-309.5	766.4	751.3	15.12	50.685		
4,500.0	4,470.9	4,429.2	4,421.2	11.4	8.9	-179.41	-6.0	-315.7	785.3	769.8	15.47	50.775		
4,600.0	4,570.1	4,527.4	4,519.2	11.7	9.1	-179.41	-6.1	-322.0	804.1	788.3	15.81	50.861		
4,700.0	4,669.3	4,625.6	4,617.2	12.0	9.3	-179.41	-6.2	-328.2	823.0	806.8	16.15	50.943		
4,800.0	4,768.5	4,723.9	4,715.2	12.3	9.5	-179.41	-6.3	-334.4	841.8	825.3	16.50	51.022		
4,900.0	4,867.7	4,822.1	4,813.2	12.6	9.8	-179.41	-6.4	-340.6	860.6	843.8	16.84	51.097		
5,000.0	4,967.0	4,920.3	4,911.2	12.8	10.0	-179.41	-6.4	-346.9	879.5	862.3	17.19	51.170		
5,100.0	5,066.2	5,018.5	5,009.2	13.1	10.2	-179.41	-6.5	-353.1	898.3	880.8	17.53	51.239		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2			Offset Site Error:		0.0 ft
Survey Program:											0-Geolink MWD			Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)						
5,200.0	5,165.4	5,116.7	5,107.2	13.4	10.4	-179.42	-6.6	-359.3	917.2	899.3	17.88	51.306				
5,300.0	5,264.6	5,214.9	5,205.3	13.7	10.6	-179.42	-6.7	-365.5	936.0	917.8	18.22	51.371				
5,400.0	5,363.8	5,313.1	5,303.3	14.0	10.8	-179.42	-6.8	-371.7	954.9	936.3	18.57	51.433				
5,500.0	5,463.0	5,411.3	5,401.3	14.2	11.0	-179.42	-6.9	-378.0	973.7	954.8	18.91	51.493				
5,600.0	5,562.2	5,509.5	5,499.3	14.5	11.2	-179.42	-7.0	-384.2	992.5	973.3	19.25	51.550				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-92.08	-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 CC, ES			
500.0	500.0	498.2	498.2	0.8	0.8	-92.06	-1.9	-51.7	51.8	50.1	1.70	30.487			
600.0	600.0	597.9	597.8	1.0	1.0	-91.99	-1.9	-55.7	55.8	53.7	2.05	27.160			
700.0	700.0	697.7	697.5	1.2	1.2	-179.43	-2.0	-59.7	61.5	59.1	2.39	25.720 SF			
800.0	799.8	797.2	797.0	1.4	1.4	-179.43	-2.1	-63.7	70.8	68.1	2.74	25.862			
900.0	899.5	896.4	896.1	1.6	1.6	-179.45	-2.2	-67.7	83.5	80.4	3.08	27.129			
1,000.0	998.7	995.2	994.7	1.8	1.8	-179.48	-2.3	-71.7	99.4	96.0	3.42	29.080			
1,100.0	1,097.9	1,093.8	1,093.3	2.1	1.9	-179.51	-2.4	-75.7	116.0	112.2	3.76	30.808			
1,200.0	1,197.1	1,192.4	1,191.8	2.3	2.1	-179.53	-2.4	-79.6	132.5	128.4	4.11	32.246			
1,300.0	1,296.4	1,291.0	1,290.3	2.6	2.3	-179.55	-2.5	-83.6	149.1	144.7	4.46	33.462			
1,400.0	1,395.6	1,389.6	1,388.9	2.8	2.5	-179.56	-2.6	-87.6	165.7	160.9	4.80	34.502			
1,500.0	1,494.8	1,488.2	1,487.4	3.1	2.7	-179.57	-2.7	-91.5	182.2	177.1	5.15	35.403			
1,600.0	1,594.0	1,586.9	1,586.0	3.4	2.9	-179.58	-2.8	-95.5	198.8	193.3	5.49	36.191			
1,700.0	1,693.2	1,685.5	1,684.5	3.6	3.1	-179.59	-2.8	-99.5	215.4	209.5	5.84	36.886			
1,800.0	1,792.4	1,784.1	1,783.0	3.9	3.2	-179.59	-2.9	-103.4	231.9	225.7	6.18	37.503			
1,900.0	1,891.6	1,882.7	1,881.6	4.2	3.4	-179.60	-3.0	-107.4	248.5	242.0	6.53	38.055			
2,000.0	1,990.8	1,981.3	1,980.1	4.5	3.6	-179.60	-3.1	-111.4	265.1	258.2	6.88	38.551			
2,100.0	2,090.0	2,080.0	2,078.7	4.7	3.8	-179.61	-3.2	-115.3	281.6	274.4	7.22	39.000			
2,200.0	2,189.2	2,178.6	2,177.2	5.0	4.0	-179.61	-3.3	-119.3	298.2	290.6	7.57	39.409			
2,300.0	2,288.4	2,277.2	2,275.7	5.3	4.2	-179.62	-3.3	-123.3	314.8	306.8	7.91	39.781			
2,400.0	2,387.6	2,375.8	2,374.3	5.6	4.3	-179.62	-3.4	-127.3	331.3	323.1	8.26	40.122			
2,500.0	2,486.8	2,474.4	2,472.8	5.8	4.5	-179.62	-3.5	-131.2	347.9	339.3	8.60	40.436			
2,600.0	2,586.0	2,573.1	2,571.4	6.1	4.7	-179.62	-3.6	-135.2	364.4	355.5	8.95	40.726			
2,700.0	2,685.2	2,671.7	2,669.9	6.4	4.9	-179.63	-3.7	-139.2	381.0	371.7	9.29	40.994			
2,800.0	2,784.4	2,770.3	2,768.4	6.7	5.1	-179.63	-3.8	-143.1	397.6	387.9	9.64	41.243			
2,900.0	2,883.6	2,868.9	2,867.0	7.0	5.3	-179.63	-3.8	-147.1	414.1	404.2	9.99	41.475			
3,000.0	2,982.8	2,967.5	2,965.5	7.2	5.5	-179.63	-3.9	-151.1	430.7	420.4	10.33	41.691			
3,100.0	3,082.0	3,066.1	3,064.0	7.5	5.6	-179.63	-4.0	-155.0	447.3	436.6	10.68	41.894			
3,200.0	3,181.3	3,164.8	3,162.6	7.8	5.8	-179.63	-4.1	-159.0	463.8	452.8	11.02	42.083			
3,300.0	3,280.5	3,263.4	3,261.1	8.1	6.0	-179.64	-4.2	-163.0	480.4	469.0	11.37	42.261			
3,400.0	3,379.7	3,362.0	3,359.7	8.4	6.2	-179.64	-4.3	-166.9	497.0	485.2	11.71	42.429			
3,500.0	3,478.9	3,460.6	3,458.2	8.6	6.4	-179.64	-4.3	-170.9	513.5	501.5	12.06	42.587			
3,600.0	3,578.1	3,559.2	3,556.7	8.9	6.6	-179.64	-4.4	-174.9	530.1	517.7	12.40	42.736			
3,700.0	3,677.3	3,657.9	3,655.3	9.2	6.8	-179.64	-4.5	-178.9	546.6	533.9	12.75	42.877			
3,800.0	3,776.5	3,756.5	3,753.8	9.5	6.9	-179.64	-4.6	-182.8	563.2	550.1	13.09	43.011			
3,900.0	3,875.7	3,855.1	3,852.4	9.8	7.1	-179.64	-4.7	-186.8	579.8	566.3	13.44	43.138			
4,000.0	3,974.9	3,953.7	3,950.9	10.0	7.3	-179.64	-4.8	-190.8	596.3	582.6	13.79	43.258			
4,100.0	4,074.1	4,052.3	4,049.4	10.3	7.5	-179.64	-4.8	-194.7	612.9	598.8	14.13	43.373			
4,200.0	4,173.3	4,150.9	4,148.0	10.6	7.7	-179.65	-4.9	-198.7	629.5	615.0	14.48	43.482			
4,300.0	4,272.5	4,249.6	4,246.5	10.9	7.9	-179.65	-5.0	-202.7	646.0	631.2	14.82	43.586			
4,400.0	4,371.7	4,348.2	4,345.0	11.2	8.1	-179.65	-5.1	-206.6	662.6	647.4	15.17	43.685			
4,500.0	4,470.9	4,446.8	4,443.6	11.4	8.2	-179.65	-5.2	-210.6	679.2	663.6	15.51	43.780			
4,600.0	4,570.1	4,545.4	4,542.1	11.7	8.4	-179.65	-5.2	-214.6	695.7	679.9	15.86	43.871			
4,700.0	4,669.3	4,644.0	4,640.7	12.0	8.6	-179.65	-5.3	-218.5	712.3	696.1	16.20	43.958			
4,800.0	4,768.5	4,742.7	4,739.2	12.3	8.8	-179.65	-5.4	-222.5	728.9	712.3	16.55	44.041			
4,900.0	4,867.7	4,841.3	4,837.7	12.6	9.0	-179.65	-5.5	-226.5	745.4	728.5	16.89	44.121			
5,000.0	4,967.0	4,939.9	4,936.3	12.8	9.2	-179.65	-5.6	-230.5	762.0	744.7	17.24	44.198			
5,100.0	5,066.2	5,038.5	5,034.8	13.1	9.4	-179.65	-5.7	-234.4	778.5	761.0	17.59	44.271			

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1C-19H-B2689 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,165.4	5,137.1	5,133.4	13.4	9.5	-179.65	-5.7	-238.4	795.1	777.2	17.93	44.342		
5,300.0	5,264.6	5,235.8	5,231.9	13.7	9.7	-179.65	-5.8	-242.4	811.7	793.4	18.28	44.410		
5,400.0	5,363.8	5,334.4	5,330.4	14.0	9.9	-179.65	-5.9	-246.3	828.2	809.6	18.62	44.476		
5,500.0	5,463.0	5,433.0	5,429.0	14.2	10.1	-179.65	-6.0	-250.3	844.8	825.8	18.97	44.539		
5,600.0	5,562.2	5,531.6	5,527.5	14.5	10.3	-179.65	-6.1	-254.3	861.4	842.1	19.31	44.600		
5,700.0	5,661.4	5,630.2	5,626.1	14.8	10.5	-179.65	-6.2	-258.2	877.9	858.3	19.66	44.659		
5,800.0	5,760.6	5,728.8	5,724.6	15.1	10.7	-179.65	-6.2	-262.2	894.5	874.5	20.00	44.716		
5,900.0	5,859.8	5,827.5	5,823.1	15.4	10.8	-179.66	-6.3	-266.2	911.1	890.7	20.35	44.771		
6,000.0	5,959.0	5,926.1	5,921.7	15.7	11.0	-179.66	-6.4	-270.1	927.6	906.9	20.69	44.824		
6,100.0	6,058.2	6,024.7	6,020.2	15.9	11.2	-179.66	-6.5	-274.1	944.2	923.1	21.04	44.875		
6,200.0	6,157.4	6,123.3	6,118.7	16.2	11.4	-179.66	-6.6	-278.1	960.7	939.4	21.39	44.925		
6,300.0	6,256.6	6,221.9	6,217.3	16.5	11.6	-179.66	-6.7	-282.1	977.3	955.6	21.73	44.973		
6,400.0	6,355.8	6,320.6	6,315.8	16.8	11.8	-179.66	-6.7	-286.0	993.9	971.8	22.08	45.019		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	-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	131.753			
200.0	200.0	200.0	200.0	0.3	0.3	-92.09	-1.5	-40.0	40.0	39.4	61.297			
300.0	300.0	300.0	300.0	0.5	0.5	-92.09	-1.5	-40.0	40.0	39.0	39.939			
400.0	400.0	400.0	400.0	0.7	0.7	-92.09	-1.5	-40.0	40.0	38.7	29.619			
500.0	500.0	500.0	500.0	0.8	0.8	-92.09	-1.5	-40.0	40.0	38.3	23.537 CC			
600.0	600.0	599.9	599.9	1.0	1.0	-92.04	-1.4	-40.3	40.4	38.3	19.697 ES			
700.0	700.0	699.8	699.8	1.2	1.2	-179.49	-1.4	-40.7	42.5	40.1	17.716			
800.0	799.8	799.7	799.7	1.4	1.4	-179.50	-1.4	-41.1	48.1	45.3	17.523			
900.0	899.5	899.2	899.2	1.6	1.5	-179.53	-1.4	-41.4	57.1	54.0	18.519			
1,000.0	998.7	998.5	998.5	1.8	1.7	-179.58	-1.3	-41.8	69.4	66.0	20.253			
1,100.0	1,097.9	1,097.6	1,097.6	2.1	1.9	-179.62	-1.3	-42.1	82.4	78.6	21.817			
1,200.0	1,197.1	1,196.8	1,196.8	2.3	2.1	-179.65	-1.3	-42.5	95.3	91.2	23.118			
1,300.0	1,296.4	1,296.0	1,296.0	2.6	2.2	-179.67	-1.3	-42.9	108.2	103.8	24.218			
1,400.0	1,395.6	1,395.1	1,395.1	2.8	2.4	-179.68	-1.2	-43.2	121.2	116.4	25.159			
1,500.0	1,494.8	1,494.3	1,494.3	3.1	2.6	-179.70	-1.2	-43.6	134.1	129.0	25.973			
1,600.0	1,594.0	1,593.4	1,593.4	3.4	2.8	-179.71	-1.2	-43.9	147.1	141.5	26.685			
1,700.0	1,693.2	1,692.6	1,692.6	3.6	2.9	-179.72	-1.2	-44.3	160.0	154.1	27.313			
1,800.0	1,792.4	1,791.8	1,791.8	3.9	3.1	-179.72	-1.1	-44.7	172.9	166.7	27.870			
1,900.0	1,891.6	1,890.9	1,890.9	4.2	3.3	-179.73	-1.1	-45.0	185.9	179.3	28.369			
2,000.0	1,990.8	1,990.1	1,990.1	4.5	3.5	-179.74	-1.1	-45.4	198.8	191.9	28.817			
2,100.0	2,090.0	2,089.2	2,089.2	4.7	3.6	-179.74	-1.1	-45.7	211.8	204.5	29.223			
2,200.0	2,189.2	2,188.4	2,188.4	5.0	3.8	-179.75	-1.0	-46.1	224.7	217.1	29.591			
2,300.0	2,288.4	2,287.6	2,287.5	5.3	4.0	-179.75	-1.0	-46.5	237.6	229.7	29.928			
2,400.0	2,387.6	2,386.7	2,386.7	5.6	4.1	-179.75	-1.0	-46.8	250.6	242.3	30.236			
2,500.0	2,486.8	2,485.9	2,485.9	5.8	4.3	-179.76	-1.0	-47.2	263.5	254.9	30.519			
2,600.0	2,586.0	2,585.0	2,585.0	6.1	4.5	-179.76	-0.9	-47.5	276.5	267.5	30.781			
2,700.0	2,685.2	2,684.2	2,684.2	6.4	4.7	-179.76	-0.9	-47.9	289.4	280.1	31.023			
2,800.0	2,784.4	2,783.4	2,783.3	6.7	4.8	-179.76	-0.9	-48.3	302.3	292.7	31.248			
2,900.0	2,883.6	2,882.5	2,882.5	7.0	5.0	-179.77	-0.9	-48.6	315.3	305.3	31.457			
3,000.0	2,982.8	2,981.7	2,981.7	7.2	5.2	-179.77	-0.8	-49.0	328.2	317.9	31.652			
3,100.0	3,082.0	3,080.8	3,080.8	7.5	5.4	-179.77	-0.8	-49.3	341.2	330.4	31.835			
3,200.0	3,181.3	3,180.0	3,180.0	7.8	5.5	-179.77	-0.8	-49.7	354.1	343.0	32.006			
3,300.0	3,280.5	3,279.1	3,279.1	8.1	5.7	-179.77	-0.8	-50.1	367.0	355.6	32.166			
3,400.0	3,379.7	3,378.3	3,378.3	8.4	5.9	-179.78	-0.7	-50.4	380.0	368.2	32.318			
3,500.0	3,478.9	3,477.5	3,477.4	8.6	6.0	-179.78	-0.7	-50.8	392.9	380.8	32.460			
3,600.0	3,578.1	3,576.6	3,576.6	8.9	6.2	-179.78	-0.7	-51.1	405.9	393.4	32.595			
3,700.0	3,677.3	3,675.8	3,675.8	9.2	6.4	-179.78	-0.7	-51.5	418.8	406.0	32.722			
3,800.0	3,776.5	3,774.9	3,774.9	9.5	6.6	-179.78	-0.6	-51.9	431.7	418.6	32.843			
3,900.0	3,875.7	3,874.1	3,874.1	9.8	6.7	-179.78	-0.6	-52.2	444.7	431.2	32.957			
4,000.0	3,974.9	3,973.3	3,973.2	10.0	6.9	-179.78	-0.6	-52.6	457.6	443.8	33.066			
4,100.0	4,074.1	4,072.4	4,072.4	10.3	7.1	-179.78	-0.6	-52.9	470.6	456.4	33.169			
4,200.0	4,173.3	4,171.6	4,171.6	10.6	7.3	-179.78	-0.5	-53.3	483.5	469.0	33.268			
4,300.0	4,272.5	4,270.7	4,270.7	10.9	7.4	-179.79	-0.5	-53.7	496.4	481.6	33.362			
4,400.0	4,371.7	4,369.9	4,369.9	11.2	7.6	-179.79	-0.5	-54.0	509.4	494.2	33.451			
4,500.0	4,470.9	4,469.1	4,469.0	11.4	7.8	-179.79	-0.5	-54.4	522.3	506.8	33.537			
4,600.0	4,570.1	4,568.2	4,568.2	11.7	8.0	-179.79	-0.4	-54.7	535.3	519.3	33.619			
4,700.0	4,669.3	4,667.4	4,667.4	12.0	8.1	-179.79	-0.4	-55.1	548.2	531.9	33.697			
4,800.0	4,768.5	4,766.5	4,766.5	12.3	8.3	-179.79	-0.4	-55.5	561.1	544.5	33.772			
4,900.0	4,867.7	4,865.7	4,865.7	12.6	8.5	-179.79	-0.4	-55.8	574.1	557.1	33.844			
5,000.0	4,967.0	4,964.9	4,964.8	12.8	8.6	-179.79	-0.3	-56.2	587.0	569.7	33.913			
5,100.0	5,066.2	5,064.0	5,064.0	13.1	8.8	-179.79	-0.3	-56.5	600.0	582.3	33.980			

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,165.4	5,163.2	5,163.1	13.4	9.0	-179.79	-0.3	-56.9	612.9	594.9	18.00	34.044	
5,300.0	5,264.6	5,262.3	5,262.3	13.7	9.2	-179.79	-0.3	-57.3	625.8	607.5	18.35	34.105	
5,400.0	5,363.8	5,361.5	5,361.5	14.0	9.3	-179.79	-0.2	-57.6	638.8	620.1	18.70	34.164	
5,500.0	5,463.0	5,460.7	5,460.6	14.2	9.5	-179.79	-0.2	-58.0	651.7	632.7	19.04	34.221	
5,600.0	5,562.2	5,559.8	5,559.8	14.5	9.7	-179.79	-0.2	-58.3	664.7	645.3	19.39	34.276	
5,700.0	5,661.4	5,659.0	5,658.9	14.8	9.9	-179.79	-0.2	-58.7	677.6	657.9	19.74	34.329	
5,800.0	5,760.6	5,758.1	5,758.1	15.1	10.0	-179.79	-0.1	-59.1	690.5	670.5	20.09	34.380	
5,900.0	5,859.8	5,857.3	5,857.3	15.4	10.2	-179.80	-0.1	-59.4	703.5	683.1	20.43	34.430	
6,000.0	5,959.0	5,956.4	5,956.4	15.7	10.4	-179.80	-0.1	-59.8	716.4	695.6	20.78	34.478	
6,100.0	6,058.2	6,055.6	6,055.6	15.9	10.6	-179.80	-0.1	-60.1	729.4	708.2	21.13	34.524	
6,200.0	6,157.4	6,154.8	6,154.7	16.2	10.7	-179.80	0.0	-60.5	742.3	720.8	21.47	34.569	
6,300.0	6,256.6	6,253.9	6,253.9	16.5	10.9	-179.80	0.0	-60.9	755.2	733.4	21.82	34.612	
6,400.0	6,355.8	6,353.1	6,353.0	16.8	11.1	-179.80	0.0	-61.2	768.2	746.0	22.17	34.654	
6,500.0	6,455.0	6,452.2	6,452.2	17.1	11.2	-179.80	0.0	-61.6	781.1	758.6	22.51	34.695	
6,600.0	6,554.2	6,551.4	6,551.4	17.3	11.4	-179.80	0.1	-61.9	794.1	771.2	22.86	34.734	
6,700.0	6,653.4	6,650.6	6,650.5	17.6	11.6	-179.80	0.1	-62.3	807.0	783.8	23.21	34.772	
6,800.0	6,752.6	6,748.3	6,748.3	17.9	11.8	-179.84	-0.5	-62.7	820.0	796.4	23.55	34.814	
6,900.0	6,851.9	6,841.8	6,841.1	18.2	11.9	178.97	-10.4	-63.0	833.4	809.5	23.89	34.882	
7,000.0	6,950.8	6,932.8	6,929.5	18.5	12.1	127.90	-31.6	-63.3	847.3	823.0	24.28	34.898	
7,100.0	7,047.8	7,022.1	7,013.1	18.7	12.3	107.64	-63.2	-63.6	861.1	836.3	24.76	34.782	
7,200.0	7,141.2	7,110.1	7,090.9	19.0	12.6	98.26	-104.2	-63.9	874.3	848.9	25.35	34.488	
7,300.0	7,228.9	7,200.0	7,164.6	19.3	12.9	92.72	-155.5	-64.2	886.7	860.6	26.10	33.970	
7,400.0	7,309.4	7,283.1	7,226.5	19.7	13.3	89.02	-210.9	-64.4	898.0	871.0	27.00	33.263	
7,500.0	7,381.1	7,368.5	7,282.9	20.1	13.8	86.38	-274.9	-64.6	908.0	879.9	28.07	32.341	
7,600.0	7,442.5	7,450.0	7,329.4	20.6	14.4	84.47	-341.8	-64.8	916.3	887.0	29.30	31.278	
7,700.0	7,492.5	7,537.9	7,370.7	21.2	15.2	83.12	-419.4	-64.9	922.9	892.1	30.76	30.004	
7,800.0	7,530.1	7,622.3	7,401.0	22.0	16.1	82.26	-498.1	-65.0	927.5	895.1	32.36	28.659	
7,900.0	7,554.6	7,706.7	7,421.9	22.8	17.1	81.83	-579.8	-65.1	930.1	896.0	34.13	27.252	
8,000.0	7,565.4	7,791.3	7,433.1	23.7	18.1	81.81	-663.6	-65.1	930.7	894.6	36.05	25.817	
8,100.0	7,566.0	7,881.8	7,435.0	24.7	19.3	81.90	-754.1	-65.2	930.0	891.6	38.43	24.201	
8,200.0	7,566.0	7,981.8	7,435.0	25.8	20.7	81.90	-854.1	-65.2	929.5	888.3	41.15	22.586	
8,300.0	7,566.0	8,081.8	7,435.0	27.0	22.1	81.89	-954.1	-65.2	929.0	885.0	43.98	21.122	
8,400.0	7,566.0	8,181.8	7,435.0	28.2	23.6	81.89	-1,054.1	-65.2	928.5	881.6	46.90	19.798	
8,500.0	7,566.0	8,281.8	7,435.0	29.5	25.1	81.88	-1,154.1	-65.2	928.0	878.1	49.88	18.602	
8,600.0	7,566.0	8,381.8	7,435.0	30.8	26.7	81.88	-1,254.1	-65.2	927.4	874.5	52.93	17.522	
8,700.0	7,566.0	8,481.8	7,435.0	32.2	28.2	81.88	-1,354.1	-65.2	926.9	870.9	56.03	16.545	
8,800.0	7,566.0	8,581.8	7,435.0	33.6	29.8	81.87	-1,454.1	-65.2	926.4	867.3	59.16	15.659	
8,900.0	7,566.0	8,681.8	7,435.0	35.0	31.4	81.87	-1,554.1	-65.2	925.9	863.6	62.34	14.853	
9,000.0	7,566.0	8,781.8	7,435.0	36.5	33.0	81.86	-1,654.1	-65.2	925.4	859.9	65.54	14.120	
9,100.0	7,566.0	8,881.8	7,435.0	37.9	34.7	81.86	-1,754.1	-65.2	924.9	856.1	68.77	13.449	
9,200.0	7,566.0	8,981.8	7,435.0	39.4	36.3	81.85	-1,854.1	-65.2	924.4	852.4	72.02	12.835	
9,300.0	7,566.0	9,081.8	7,435.0	41.0	38.0	81.85	-1,954.1	-65.2	923.9	848.6	75.29	12.270	
9,400.0	7,566.0	9,181.8	7,435.0	42.5	39.6	81.84	-2,054.1	-65.2	923.4	844.8	78.58	11.750	
9,500.0	7,566.0	9,281.8	7,435.0	44.1	41.3	81.84	-2,154.1	-65.2	922.9	841.0	81.89	11.270	
9,600.0	7,566.0	9,381.8	7,435.0	45.7	43.0	81.83	-2,254.1	-65.2	922.3	837.1	85.20	10.825	
9,700.0	7,566.0	9,481.8	7,435.0	47.2	44.7	81.83	-2,354.1	-65.2	921.8	833.3	88.53	10.412	
9,800.0	7,566.0	9,581.8	7,435.0	48.8	46.3	81.83	-2,454.1	-65.2	921.3	829.5	91.87	10.028	
9,900.0	7,566.0	9,681.8	7,435.0	50.4	48.0	81.82	-2,554.1	-65.2	920.8	825.6	95.22	9.670	
10,000.0	7,566.0	9,781.8	7,435.0	52.1	49.7	81.82	-2,654.1	-65.2	920.3	821.7	98.58	9.336	
10,100.0	7,566.0	9,881.8	7,435.0	53.7	51.4	81.81	-2,754.1	-65.2	919.8	817.9	101.94	9.023	
10,200.0	7,566.0	9,981.8	7,435.0	55.3	53.1	81.81	-2,854.1	-65.2	919.3	814.0	105.31	8.729	
10,300.0	7,566.0	10,081.8	7,435.0	57.0	54.9	81.80	-2,954.1	-65.2	918.8	810.1	108.69	8.453	

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,566.0	10,181.8	7,435.0	58.6	56.6	81.80	-3,054.1	-65.2	918.3	806.2	112.08	8.193		
10,500.0	7,566.0	10,281.8	7,435.0	60.3	58.3	81.79	-3,154.1	-65.2	917.8	802.3	115.47	7.948		
10,600.0	7,566.0	10,381.8	7,435.0	61.9	60.0	81.79	-3,254.1	-65.2	917.2	798.4	118.86	7.717		
10,700.0	7,566.0	10,481.8	7,435.0	63.6	61.7	81.78	-3,354.1	-65.2	916.7	794.5	122.26	7.498		
10,800.0	7,566.0	10,581.8	7,435.0	65.3	63.4	81.78	-3,454.1	-65.2	916.2	790.6	125.66	7.291		
10,900.0	7,566.0	10,681.8	7,435.0	66.9	65.1	81.78	-3,554.1	-65.2	915.7	786.6	129.06	7.095		
11,000.0	7,566.0	10,781.8	7,435.0	68.6	66.9	81.77	-3,654.1	-65.2	915.2	782.7	132.47	6.909		
11,100.0	7,566.0	10,881.8	7,435.0	70.3	68.6	81.77	-3,754.1	-65.2	914.7	778.8	135.88	6.731		
11,200.0	7,566.0	10,981.8	7,435.0	72.0	70.3	81.76	-3,854.0	-65.2	914.2	774.9	139.30	6.563		
11,300.0	7,566.0	11,081.8	7,435.0	73.7	72.0	81.76	-3,954.0	-65.2	913.7	771.0	142.72	6.402		
11,400.0	7,566.0	11,181.8	7,435.0	75.4	73.8	81.75	-4,054.0	-65.2	913.2	767.0	146.14	6.249		
11,500.0	7,566.0	11,281.8	7,435.0	77.1	75.5	81.75	-4,154.0	-65.2	912.7	763.1	149.56	6.102		
11,600.0	7,566.0	11,381.8	7,435.0	78.8	77.2	81.74	-4,254.0	-65.2	912.1	759.2	152.98	5.962		
11,700.0	7,566.0	11,481.8	7,435.0	80.5	79.0	81.74	-4,354.0	-65.2	911.6	755.2	156.41	5.829		
11,800.0	7,566.0	11,581.8	7,435.0	82.2	80.7	81.73	-4,454.0	-65.2	911.1	751.3	159.83	5.700		
11,900.0	7,566.0	11,681.8	7,435.0	83.9	82.4	81.73	-4,554.0	-65.2	910.6	747.3	163.26	5.578		
12,000.0	7,566.0	11,781.8	7,435.0	85.6	84.2	81.72	-4,654.0	-65.2	910.1	743.4	166.70	5.460		
12,100.0	7,566.0	11,881.8	7,435.0	87.3	85.9	81.72	-4,754.0	-65.2	909.6	739.5	170.13	5.347		
12,125.7	7,566.0	11,907.4	7,435.0	87.7	86.4	81.72	-4,779.7	-65.2	909.5	738.5	171.01	5.318 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-92.10	-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		
600.0	600.0	600.0	600.0	1.0	1.0	-92.10	-1.1	-29.9	29.9	27.9	2.05	14.611	CC, ES	
700.0	700.0	700.0	700.0	1.2	1.2	-179.60	-1.1	-29.9	31.7	29.3	2.40	13.218		
800.0	799.8	799.8	799.8	1.4	1.4	-179.66	-1.1	-29.9	36.9	34.2	2.74	13.460		
900.0	899.5	899.5	899.5	1.6	1.5	-179.72	-1.1	-29.9	45.6	42.5	3.09	14.789		
1,000.0	998.7	998.7	998.7	1.8	1.7	-179.78	-1.1	-29.9	57.6	54.1	3.43	16.790		
1,100.0	1,097.9	1,097.9	1,097.9	2.1	1.9	-179.82	-1.1	-29.9	70.1	66.4	3.78	18.577		
1,200.0	1,197.1	1,197.1	1,197.1	2.3	2.1	-179.85	-1.1	-29.9	82.7	78.6	4.12	20.063		
1,300.0	1,296.4	1,296.4	1,296.4	2.6	2.2	-179.87	-1.1	-29.9	95.3	90.8	4.47	21.318		
1,400.0	1,395.6	1,395.6	1,395.6	2.8	2.4	-179.88	-1.1	-29.9	107.9	103.1	4.82	22.393		
1,500.0	1,494.8	1,494.8	1,494.8	3.1	2.6	-179.89	-1.1	-29.9	120.5	115.3	5.17	23.323		
1,600.0	1,594.0	1,594.0	1,594.0	3.4	2.8	-179.90	-1.1	-29.9	133.0	127.5	5.51	24.136		
1,700.0	1,693.2	1,693.2	1,693.2	3.6	2.9	-179.91	-1.1	-29.9	145.6	139.8	5.86	24.853		
1,800.0	1,792.4	1,792.4	1,792.4	3.9	3.1	-179.92	-1.1	-29.9	158.2	152.0	6.21	25.489		
1,900.0	1,891.6	1,891.6	1,891.6	4.2	3.3	-179.93	-1.1	-29.9	170.8	164.2	6.55	26.059		
2,000.0	1,990.8	1,990.8	1,990.8	4.5	3.5	-179.93	-1.1	-29.9	183.4	176.5	6.90	26.571		
2,100.0	2,090.0	2,090.0	2,090.0	4.7	3.6	-179.93	-1.1	-29.9	196.0	188.7	7.25	27.034		
2,200.0	2,189.2	2,189.2	2,189.2	5.0	3.8	-179.94	-1.1	-29.9	208.5	200.9	7.60	27.454		
2,300.0	2,288.4	2,288.4	2,288.4	5.3	4.0	-179.94	-1.1	-29.9	221.1	213.2	7.94	27.838		
2,400.0	2,387.6	2,387.6	2,387.6	5.6	4.1	-179.95	-1.1	-29.9	233.7	225.4	8.29	28.190		
2,500.0	2,486.8	2,486.8	2,486.8	5.8	4.3	-179.95	-1.1	-29.9	246.3	237.6	8.64	28.514		
2,600.0	2,586.0	2,586.0	2,586.0	6.1	4.5	-179.95	-1.1	-29.9	258.9	249.9	8.98	28.812		
2,700.0	2,685.2	2,685.2	2,685.2	6.4	4.7	-179.95	-1.1	-29.9	271.4	262.1	9.33	29.089		
2,800.0	2,784.4	2,784.4	2,784.4	6.7	4.8	-179.96	-1.1	-29.9	284.0	274.3	9.68	29.345		
2,900.0	2,883.6	2,883.6	2,883.6	7.0	5.0	-179.96	-1.1	-29.9	296.6	286.6	10.03	29.584		
3,000.0	2,982.8	2,982.8	2,982.8	7.2	5.2	-179.96	-1.1	-29.9	309.2	298.8	10.37	29.807		
3,100.0	3,082.0	3,082.0	3,082.0	7.5	5.4	-179.96	-1.1	-29.9	321.8	311.0	10.72	30.015		
3,200.0	3,181.3	3,181.3	3,181.3	7.8	5.5	-179.96	-1.1	-29.9	334.3	323.3	11.07	30.211		
3,300.0	3,280.5	3,280.5	3,280.5	8.1	5.7	-179.96	-1.1	-29.9	346.9	335.5	11.41	30.394		
3,400.0	3,379.7	3,379.7	3,379.7	8.4	5.9	-179.96	-1.1	-29.9	359.5	347.8	11.76	30.567		
3,500.0	3,478.9	3,478.9	3,478.9	8.6	6.0	-179.97	-1.1	-29.9	372.1	360.0	12.11	30.729		
3,600.0	3,578.1	3,578.1	3,578.1	8.9	6.2	-179.97	-1.1	-29.9	384.7	372.2	12.46	30.883		
3,700.0	3,677.3	3,677.3	3,677.3	9.2	6.4	-179.97	-1.1	-29.9	397.3	384.5	12.80	31.028		
3,800.0	3,776.5	3,776.5	3,776.5	9.5	6.6	-179.97	-1.1	-29.9	409.8	396.7	13.15	31.166		
3,900.0	3,875.7	3,875.7	3,875.7	9.8	6.7	-179.97	-1.1	-29.9	422.4	408.9	13.50	31.297		
4,000.0	3,974.9	3,974.9	3,974.9	10.0	6.9	-179.97	-1.1	-29.9	435.0	421.2	13.84	31.421		
4,100.0	4,074.1	4,074.1	4,074.1	10.3	7.1	-179.97	-1.1	-28.6	446.4	432.2	14.22	31.406		
4,200.0	4,173.3	4,173.3	4,173.3	10.6	7.3	-179.98	-0.9	-23.4	454.3	439.7	14.58	31.154		
4,300.0	4,272.5	4,272.5	4,272.5	10.9	7.5	-179.99	-0.7	-18.0	461.5	446.5	14.93	30.906		
4,400.0	4,371.7	4,371.7	4,371.7	11.2	7.7	-179.99	-0.5	-12.6	468.6	453.4	15.28	30.670		
4,500.0	4,470.9	4,470.9	4,470.9	11.4	7.8	-180.00	-0.3	-7.1	475.8	460.2	15.63	30.445		
4,600.0	4,570.1	4,570.1	4,570.1	11.7	8.0	179.99	-0.1	-1.7	483.0	467.0	15.98	30.229		
4,700.0	4,669.3	4,669.3	4,669.3	12.0	8.2	179.99	0.1	3.7	490.2	473.8	16.33	30.023		
4,800.0	4,768.5	4,768.5	4,768.5	12.3	8.4	179.98	0.2	9.1	497.3	480.7	16.68	29.825		
4,900.0	4,867.7	4,867.7	4,867.7	12.6	8.6	179.98	0.4	14.5	504.5	487.5	17.02	29.635		
5,000.0	4,967.0	4,967.0	4,967.0	12.8	8.7	179.97	0.6	19.9	511.7	494.3	17.37	29.453		
5,100.0	5,066.2	5,066.2	5,066.2	13.1	8.9	179.97	0.8	25.3	518.9	501.2	17.72	29.279		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,165.4	5,195.5	5,193.9	13.4	9.1	179.96	1.0	30.8	526.0	508.0	18.07	29.110		
5,300.0	5,264.6	5,295.3	5,293.5	13.7	9.3	179.96	1.2	36.2	533.2	514.8	18.42	28.949		
5,400.0	5,363.8	5,395.0	5,393.1	14.0	9.5	179.95	1.4	41.6	540.4	521.6	18.77	28.793		
5,500.0	5,463.0	5,494.8	5,492.7	14.2	9.7	179.95	1.6	47.0	547.6	528.5	19.12	28.643		
5,600.0	5,562.2	5,594.5	5,592.3	14.5	9.9	179.94	1.7	52.4	554.7	535.3	19.47	28.498		
5,700.0	5,661.4	5,694.3	5,691.9	14.8	10.0	179.94	1.9	57.8	561.9	542.1	19.81	28.359		
5,800.0	5,760.6	5,794.0	5,791.5	15.1	10.2	179.93	2.1	63.2	569.1	548.9	20.16	28.224		
5,900.0	5,859.8	5,893.7	5,891.1	15.4	10.4	179.93	2.3	68.6	576.3	555.8	20.51	28.094		
6,000.0	5,959.0	5,993.5	5,990.7	15.7	10.6	179.92	2.5	74.1	583.4	562.6	20.86	27.968		
6,100.0	6,058.2	6,093.2	6,090.3	15.9	10.8	179.92	2.7	79.5	590.6	569.4	21.21	27.847		
6,200.0	6,157.4	6,193.0	6,189.9	16.2	11.0	179.92	2.9	84.9	597.8	576.2	21.56	27.729		
6,300.0	6,256.6	6,292.7	6,289.5	16.5	11.2	179.91	3.0	90.3	605.0	583.1	21.91	27.615		
6,400.0	6,355.8	6,392.4	6,389.1	16.8	11.4	179.91	3.2	95.7	612.1	589.9	22.26	27.505		
6,500.0	6,455.0	6,492.2	6,488.7	17.1	11.5	179.90	3.4	101.1	619.3	596.7	22.61	27.398		
6,600.0	6,554.2	6,591.9	6,588.3	17.3	11.7	179.90	3.6	106.5	626.5	603.5	22.95	27.294		
6,700.0	6,653.4	6,691.7	6,687.9	17.6	11.9	179.90	3.8	112.0	633.7	610.4	23.30	27.193		
6,800.0	6,752.6	6,791.4	6,787.5	17.9	12.1	179.89	4.0	117.4	640.8	617.2	23.65	27.096		
6,900.0	6,851.9	6,889.6	6,885.5	18.2	12.3	179.32	3.3	122.7	648.1	624.1	24.00	27.005		
7,000.0	6,950.8	6,984.8	6,979.9	18.5	12.5	129.40	-7.7	127.8	655.4	631.1	24.36	26.904		
7,100.0	7,047.8	7,079.5	7,071.5	18.7	12.7	110.23	-30.8	132.8	662.6	637.8	24.77	26.744		
7,200.0	7,141.2	7,173.8	7,158.8	19.0	12.9	101.85	-65.7	137.6	669.3	644.0	25.28	26.480		
7,300.0	7,228.9	7,267.7	7,240.6	19.3	13.2	97.25	-111.6	142.0	675.6	649.7	25.92	26.067		
7,400.0	7,309.4	7,361.4	7,315.5	19.7	13.6	94.36	-167.7	146.1	681.2	654.4	26.74	25.477		
7,500.0	7,381.1	7,455.1	7,382.4	20.1	14.1	92.44	-233.0	149.7	686.0	658.3	27.77	24.703		
7,600.0	7,442.5	7,550.0	7,441.0	20.6	14.7	91.15	-307.5	152.9	690.1	661.0	29.06	23.749		
7,700.0	7,492.5	7,642.4	7,488.0	21.2	15.5	90.32	-386.9	155.5	693.2	662.6	30.57	22.672		
7,800.0	7,530.1	7,736.2	7,525.0	22.0	16.4	89.86	-473.1	157.5	695.3	662.9	32.34	21.499		
7,900.0	7,554.6	7,830.4	7,550.5	22.8	17.4	89.72	-563.7	158.9	696.4	662.0	34.32	20.289		
8,000.0	7,565.4	7,924.9	7,563.9	23.7	18.5	89.86	-657.1	159.6	696.4	659.9	36.50	19.083		
8,100.0	7,566.0	8,021.9	7,566.0	24.7	19.8	90.00	-754.1	159.7	695.9	656.9	39.00	17.841		
8,200.0	7,566.0	8,121.9	7,566.0	25.8	21.1	90.00	-854.1	159.7	695.4	653.6	41.74	16.660		
8,300.0	7,566.0	8,221.9	7,566.0	27.0	22.5	90.00	-954.1	159.7	694.8	650.3	44.58	15.585		
8,400.0	7,566.0	8,321.9	7,566.0	28.2	24.0	90.00	-1,054.1	159.7	694.3	646.8	47.52	14.613		
8,500.0	7,566.0	8,421.9	7,566.0	29.5	25.5	90.00	-1,154.1	159.7	693.8	643.3	50.52	13.733		
8,600.0	7,566.0	8,521.9	7,566.0	30.8	27.0	90.00	-1,254.1	159.7	693.3	639.7	53.59	12.937		
8,700.0	7,566.0	8,621.9	7,566.0	32.2	28.6	90.00	-1,354.1	159.7	692.8	636.1	56.71	12.217		
8,800.0	7,566.0	8,721.9	7,566.0	33.6	30.1	90.00	-1,454.1	159.7	692.3	632.4	59.87	11.563		
8,900.0	7,566.0	8,821.9	7,566.0	35.0	31.7	90.00	-1,554.1	159.7	691.8	628.7	63.07	10.969		
9,000.0	7,566.0	8,921.9	7,566.0	36.5	33.3	90.00	-1,654.1	159.7	691.2	624.9	66.30	10.426		
9,100.0	7,566.0	9,021.9	7,566.0	37.9	34.9	90.00	-1,754.1	159.7	690.7	621.2	69.55	9.931		
9,200.0	7,566.0	9,121.9	7,566.0	39.4	36.6	90.00	-1,854.1	159.7	690.2	617.4	72.83	9.477		
9,300.0	7,566.0	9,221.9	7,566.0	41.0	38.2	90.00	-1,954.1	159.7	689.7	613.6	76.13	9.059		
9,400.0	7,566.0	9,321.9	7,566.0	42.5	39.9	90.00	-2,054.1	159.7	689.2	609.7	79.45	8.674		
9,500.0	7,566.0	9,421.9	7,566.0	44.1	41.5	90.00	-2,154.1	159.7	688.7	605.9	82.79	8.319		
9,600.0	7,566.0	9,521.9	7,566.0	45.7	43.2	90.00	-2,254.1	159.7	688.1	602.0	86.13	7.989		
9,700.0	7,566.0	9,621.9	7,566.0	47.2	44.9	90.00	-2,354.1	159.7	687.6	598.1	89.49	7.684		
9,800.0	7,566.0	9,721.9	7,566.0	48.8	46.6	90.00	-2,454.1	159.7	687.1	594.2	92.86	7.399		
9,900.0	7,566.0	9,821.9	7,566.0	50.4	48.3	90.00	-2,554.1	159.7	686.6	590.4	96.24	7.134		
10,000.0	7,566.0	9,921.9	7,566.0	52.1	49.9	90.00	-2,654.1	159.7	686.1	586.4	99.63	6.886		
10,100.0	7,566.0	10,021.9	7,566.0	53.7	51.6	90.00	-2,754.1	159.7	685.6	582.5	103.03	6.654		
10,200.0	7,566.0	10,121.9	7,566.0	55.3	53.3	90.00	-2,854.1	159.7	685.0	578.6	106.44	6.436		
10,300.0	7,566.0	10,221.9	7,566.0	57.0	55.0	90.00	-2,954.1	159.7	684.5	574.7	109.85	6.232		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,566.0	10,321.9	7,566.0	58.6	56.7	90.00	-3,054.1	159.7	684.0	570.8	113.26	6.039		
10,500.0	7,566.0	10,421.9	7,566.0	60.3	58.5	90.00	-3,154.1	159.7	683.5	566.8	116.69	5.858		
10,600.0	7,566.0	10,521.9	7,566.0	61.9	60.2	90.00	-3,254.1	159.7	683.0	562.9	120.11	5.686		
10,700.0	7,566.0	10,621.9	7,566.0	63.6	61.9	90.00	-3,354.1	159.7	682.5	558.9	123.55	5.524		
10,800.0	7,566.0	10,721.9	7,566.0	65.3	63.6	90.00	-3,454.1	159.7	682.0	555.0	126.98	5.370		
10,900.0	7,566.0	10,821.9	7,566.0	66.9	65.3	90.00	-3,554.1	159.7	681.4	551.0	130.42	5.225		
11,000.0	7,566.0	10,921.9	7,566.0	68.6	67.0	90.00	-3,654.1	159.7	680.9	547.1	133.87	5.087		
11,100.0	7,566.0	11,021.9	7,566.0	70.3	68.8	90.00	-3,754.1	159.7	680.4	543.1	137.31	4.955		
11,200.0	7,566.0	11,121.9	7,566.0	72.0	70.5	90.00	-3,854.0	159.7	679.9	539.1	140.76	4.830		
11,300.0	7,566.0	11,221.9	7,566.0	73.7	72.2	90.00	-3,954.0	159.7	679.4	535.2	144.21	4.711		
11,400.0	7,566.0	11,321.9	7,566.0	75.4	73.9	90.00	-4,054.0	159.7	678.9	531.2	147.67	4.597		
11,500.0	7,566.0	11,421.9	7,566.0	77.1	75.7	90.00	-4,154.0	159.7	678.3	527.2	151.13	4.489		
11,600.0	7,566.0	11,521.9	7,566.0	78.8	77.4	90.00	-4,254.0	159.7	677.8	523.2	154.59	4.385		
11,700.0	7,566.0	11,621.9	7,566.0	80.5	79.1	90.00	-4,354.0	159.7	677.3	519.3	158.05	4.285		
11,800.0	7,566.0	11,721.9	7,566.0	82.2	80.8	90.00	-4,454.0	159.7	676.8	515.3	161.51	4.190		
11,900.0	7,566.0	11,821.9	7,566.0	83.9	82.6	90.00	-4,554.0	159.7	676.3	511.3	164.98	4.099		
12,000.0	7,566.0	11,921.9	7,566.0	85.6	84.3	90.00	-4,654.0	159.7	675.8	507.3	168.45	4.012		
12,100.0	7,566.0	12,021.9	7,566.0	87.3	86.0	90.00	-4,754.0	159.7	675.3	503.3	171.92	3.928		
12,125.7	7,566.0	12,047.5	7,566.0	87.7	86.5	90.00	-4,779.7	159.7	675.1	502.3	172.81	3.907 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1F-19H-B2686 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-92.13	-0.7	-19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	-92.13	-0.7	-19.9	19.9	19.6	0.30	65.417		
200.0	200.0	200.0	200.0	0.3	0.3	-92.13	-0.7	-19.9	19.9	19.2	0.65	30.435		
300.0	300.0	300.0	300.0	0.5	0.5	-92.13	-0.7	-19.9	19.9	18.9	1.00	19.830		
400.0	400.0	400.0	400.0	0.7	0.7	-92.13	-0.7	-19.9	19.9	18.5	1.35	14.706		
500.0	500.0	500.0	500.0	0.8	0.8	-92.13	-0.7	-19.9	19.9	18.2	1.70	11.686		
600.0	600.0	600.0	600.0	1.0	1.0	-92.13	-0.7	-19.9	19.9	17.8	2.05	9.696 CC, ES		
700.0	700.0	700.0	700.0	1.2	1.2	-179.63	-0.7	-19.9	21.6	19.2	2.40	9.016		
800.0	799.8	799.8	799.8	1.4	1.4	-179.71	-0.7	-19.9	26.8	24.1	2.74	9.787		
900.0	899.5	899.5	899.5	1.6	1.5	-179.78	-0.7	-19.9	35.6	32.5	3.09	11.525		
1,000.0	998.7	1,000.4	1,000.3	1.8	1.7	-179.79	-0.6	-18.1	45.8	42.3	3.43	13.336		
1,100.0	1,097.9	1,101.5	1,101.3	2.1	1.9	-179.72	-0.3	-12.8	53.2	49.4	3.78	14.053		
1,200.0	1,197.1	1,201.3	1,200.9	2.3	2.1	-179.65	0.1	-6.5	59.4	55.3	4.13	14.373		
1,300.0	1,296.4	1,301.1	1,300.5	2.6	2.3	-179.59	0.5	-0.1	65.6	61.1	4.48	14.644		
1,400.0	1,395.6	1,400.9	1,400.1	2.8	2.5	-179.54	0.8	6.2	71.9	67.0	4.83	14.876		
1,500.0	1,494.8	1,500.7	1,499.7	3.1	2.7	-179.50	1.2	12.6	78.1	72.9	5.18	15.077		
1,600.0	1,594.0	1,600.5	1,599.3	3.4	2.9	-179.46	1.6	18.9	84.3	78.8	5.53	15.252		
1,700.0	1,693.2	1,700.3	1,698.9	3.6	3.1	-179.43	2.0	25.2	90.6	84.7	5.88	15.407		
1,800.0	1,792.4	1,800.1	1,798.5	3.9	3.3	-179.41	2.4	31.6	96.8	90.6	6.23	15.544		
1,900.0	1,891.6	1,899.9	1,898.1	4.2	3.5	-179.38	2.8	37.9	103.0	96.5	6.58	15.667		
2,000.0	1,990.8	1,999.7	1,997.8	4.5	3.7	-179.36	3.2	44.3	109.3	102.3	6.93	15.777		
2,100.0	2,090.0	2,099.5	2,097.4	4.7	3.9	-179.34	3.6	50.6	115.5	108.2	7.27	15.877		
2,200.0	2,189.2	2,199.3	2,197.0	5.0	4.1	-179.33	3.9	57.0	121.7	114.1	7.62	15.968		
2,300.0	2,288.4	2,299.2	2,296.6	5.3	4.3	-179.31	4.3	63.3	128.0	120.0	7.97	16.051		
2,400.0	2,387.6	2,399.0	2,396.2	5.6	4.5	-179.30	4.7	69.7	134.2	125.9	8.32	16.127		
2,500.0	2,486.8	2,498.8	2,495.8	5.8	4.7	-179.29	5.1	76.0	140.4	131.8	8.67	16.197		
2,600.0	2,586.0	2,598.6	2,595.4	6.1	4.9	-179.27	5.5	82.4	146.7	137.7	9.02	16.261		
2,700.0	2,685.2	2,698.4	2,695.0	6.4	5.1	-179.26	5.9	88.7	152.9	143.5	9.37	16.321		
2,800.0	2,784.4	2,798.2	2,794.6	6.7	5.3	-179.25	6.3	95.1	159.2	149.4	9.72	16.376		
2,900.0	2,883.6	2,898.0	2,894.2	7.0	5.5	-179.25	6.6	101.4	165.4	155.3	10.07	16.428		
3,000.0	2,982.8	2,997.8	2,993.8	7.2	5.7	-179.24	7.0	107.8	171.6	161.2	10.42	16.476		
3,100.0	3,082.0	3,097.6	3,093.4	7.5	5.9	-179.23	7.4	114.1	177.9	167.1	10.77	16.521		
3,200.0	3,181.3	3,197.4	3,193.0	7.8	6.1	-179.22	7.8	120.5	184.1	173.0	11.11	16.563		
3,300.0	3,280.5	3,297.2	3,292.6	8.1	6.3	-179.22	8.2	126.8	190.3	178.9	11.46	16.602		
3,400.0	3,379.7	3,397.0	3,392.2	8.4	6.5	-179.21	8.6	133.2	196.6	184.7	11.81	16.640		
3,500.0	3,478.9	3,496.8	3,491.8	8.6	6.7	-179.20	9.0	139.5	202.8	190.6	12.16	16.675		
3,600.0	3,578.1	3,596.6	3,591.4	8.9	6.9	-179.20	9.3	145.9	209.0	196.5	12.51	16.708		
3,700.0	3,677.3	3,696.4	3,691.0	9.2	7.1	-179.19	9.7	152.2	215.3	202.4	12.86	16.739		
3,800.0	3,776.5	3,796.2	3,790.6	9.5	7.3	-179.19	10.1	158.6	221.5	208.3	13.21	16.769		
3,900.0	3,875.7	3,896.0	3,890.2	9.8	7.5	-179.18	10.5	164.9	227.7	214.2	13.56	16.797		
4,000.0	3,974.9	3,995.8	3,989.8	10.0	7.7	-179.18	10.9	171.3	234.0	220.1	13.91	16.824		
4,100.0	4,074.1	4,095.7	4,089.4	10.3	7.9	-179.18	11.3	177.6	240.2	226.0	14.26	16.849		
4,200.0	4,173.3	4,195.5	4,189.0	10.6	8.1	-179.17	11.7	184.0	246.4	231.8	14.61	16.874		
4,300.0	4,272.5	4,295.3	4,288.6	10.9	8.4	-179.17	12.1	190.3	252.7	237.7	14.95	16.897		
4,400.0	4,371.7	4,395.1	4,388.2	11.2	8.6	-179.16	12.4	196.7	258.9	243.6	15.30	16.919		
4,500.0	4,470.9	4,494.9	4,487.8	11.4	8.8	-179.16	12.8	203.0	265.1	249.5	15.65	16.940		
4,600.0	4,570.1	4,594.7	4,587.4	11.7	9.0	-179.16	13.2	209.4	271.4	255.4	16.00	16.960		
4,700.0	4,669.3	4,694.5	4,687.0	12.0	9.2	-179.15	13.6	215.7	277.6	261.3	16.35	16.979		
4,800.0	4,768.5	4,794.3	4,786.6	12.3	9.4	-179.15	14.0	222.1	283.9	267.2	16.70	16.998		
4,900.0	4,867.7	4,894.1	4,886.2	12.6	9.6	-179.15	14.4	228.4	290.1	273.0	17.05	17.015		
5,000.0	4,967.0	4,993.9	4,985.8	12.8	9.8	-179.15	14.8	234.8	296.3	278.9	17.40	17.032		
5,100.0	5,066.2	5,093.7	5,085.4	13.1	10.0	-179.14	15.1	241.1	302.6	284.8	17.75	17.049		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1F-19H-B2686 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			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	5,165.4	5,193.5	5,185.0	13.4	10.2	-179.14	15.5	247.5	308.8	290.7	18.10	17.065		
5,300.0	5,264.6	5,293.3	5,284.6	13.7	10.4	-179.14	15.9	253.8	315.0	296.6	18.44	17.080		
5,400.0	5,363.8	5,393.1	5,384.2	14.0	10.6	-179.14	16.3	260.2	321.3	302.5	18.79	17.094		
5,500.0	5,463.0	5,492.9	5,483.8	14.2	10.8	-179.13	16.7	266.5	327.5	308.4	19.14	17.108		
5,600.0	5,562.2	5,592.7	5,583.4	14.5	11.0	-179.13	17.1	272.9	333.7	314.2	19.49	17.122		
5,700.0	5,661.4	5,692.5	5,683.0	14.8	11.2	-179.13	17.5	279.2	340.0	320.1	19.84	17.135		
5,800.0	5,760.6	5,792.3	5,782.6	15.1	11.4	-179.13	17.9	285.6	346.2	326.0	20.19	17.148		
5,900.0	5,859.8	5,892.2	5,882.2	15.4	11.6	-179.13	18.2	291.9	352.4	331.9	20.54	17.160		
6,000.0	5,959.0	5,992.0	5,981.9	15.7	11.9	-179.12	18.6	298.3	358.7	337.8	20.89	17.171		
6,100.0	6,058.2	6,091.8	6,081.5	15.9	12.1	-179.12	19.0	304.6	364.9	343.7	21.24	17.183		
6,200.0	6,157.4	6,191.6	6,181.1	16.2	12.3	-179.12	19.4	311.0	371.1	349.6	21.59	17.194		
6,300.0	6,256.6	6,291.4	6,280.7	16.5	12.5	-179.12	19.8	317.3	377.4	355.4	21.93	17.205		
6,400.0	6,355.8	6,391.2	6,380.3	16.8	12.7	-179.12	20.2	323.7	383.6	361.3	22.28	17.215		
6,500.0	6,455.0	6,491.0	6,479.9	17.1	12.9	-179.12	20.6	330.0	389.8	367.2	22.63	17.225		
6,600.0	6,554.2	6,590.8	6,579.5	17.3	13.1	-179.11	20.9	336.3	396.1	373.1	22.98	17.235		
6,700.0	6,653.4	6,689.6	6,678.0	17.6	13.3	-179.42	19.2	342.6	402.4	379.1	23.33	17.250		
6,800.0	6,752.6	6,785.6	6,772.8	17.9	13.5	178.64	5.7	348.7	409.4	385.7	23.68	17.287		
6,900.0	6,851.9	6,876.3	6,860.0	18.2	13.7	174.79	-18.6	354.2	418.3	394.2	24.12	17.343		
7,000.0	6,950.8	6,962.2	6,939.0	18.5	13.9	121.31	-51.6	359.3	429.9	405.1	24.80	17.331		
7,100.0	7,047.8	7,045.3	7,011.3	18.7	14.1	98.90	-92.4	363.9	442.8	417.1	25.69	17.238		
7,200.0	7,141.2	7,126.3	7,076.7	19.0	14.4	87.65	-139.8	368.0	456.4	429.7	26.70	17.093		
7,300.0	7,228.9	7,205.4	7,135.0	19.3	14.8	80.52	-193.1	371.8	470.0	442.2	27.74	16.944		
7,400.0	7,309.4	7,283.0	7,186.2	19.7	15.2	75.47	-251.3	375.0	482.8	454.1	28.72	16.809		
7,500.0	7,381.1	7,359.5	7,230.2	20.1	15.7	71.72	-313.7	377.8	494.5	464.9	29.62	16.695		
7,600.0	7,442.5	7,434.9	7,266.9	20.6	16.3	68.91	-379.6	380.2	504.5	474.1	30.42	16.587		
7,700.0	7,492.5	7,509.7	7,296.2	21.2	17.0	66.85	-448.3	382.0	512.6	481.4	31.14	16.460		
7,800.0	7,530.1	7,583.9	7,318.1	22.0	17.7	65.45	-519.1	383.4	518.4	486.6	31.84	16.281		
7,900.0	7,554.6	7,657.8	7,332.5	22.8	18.5	64.62	-591.5	384.3	521.8	489.3	32.57	16.023		
8,000.0	7,565.4	7,731.5	7,339.4	23.7	19.4	64.35	-664.9	384.8	522.8	489.4	33.39	15.658		
8,100.0	7,566.0	7,820.7	7,340.0	24.7	20.5	64.35	-754.1	384.8	522.2	486.9	35.32	14.785		
8,200.0	7,566.0	7,920.7	7,340.0	25.8	21.8	64.33	-854.1	384.8	521.7	483.9	37.81	13.798		
8,300.0	7,566.0	8,020.7	7,340.0	27.0	23.2	64.31	-954.1	384.8	521.3	480.9	40.40	12.903		
8,400.0	7,566.0	8,120.7	7,340.0	28.2	24.6	64.28	-1,054.1	384.8	520.8	477.7	43.06	12.095		
8,500.0	7,566.0	8,220.7	7,340.0	29.5	26.0	64.26	-1,154.1	384.8	520.3	474.5	45.78	11.365		
8,600.0	7,566.0	8,320.7	7,340.0	30.8	27.5	64.23	-1,254.1	384.8	519.9	471.3	48.56	10.706		
8,700.0	7,566.0	8,420.7	7,340.0	32.2	29.1	64.21	-1,354.1	384.8	519.4	468.0	51.37	10.110		
8,800.0	7,566.0	8,520.7	7,340.0	33.6	30.6	64.18	-1,454.1	384.8	518.9	464.7	54.23	9.569		
8,900.0	7,566.0	8,620.7	7,340.0	35.0	32.2	64.16	-1,554.1	384.8	518.5	461.4	57.11	9.078		
9,000.0	7,566.0	8,720.7	7,340.0	36.5	33.7	64.13	-1,654.1	384.8	518.0	458.0	60.02	8.630		
9,100.0	7,566.0	8,820.7	7,340.0	37.9	35.3	64.11	-1,754.1	384.8	517.5	454.6	62.95	8.221		
9,200.0	7,566.0	8,920.7	7,340.0	39.4	37.0	64.08	-1,854.1	384.8	517.1	451.2	65.90	7.846		
9,300.0	7,566.0	9,020.7	7,340.0	41.0	38.6	64.06	-1,954.1	384.8	516.6	447.7	68.87	7.501		
9,400.0	7,566.0	9,120.7	7,340.0	42.5	40.2	64.03	-2,054.1	384.8	516.1	444.3	71.85	7.183		
9,500.0	7,566.0	9,220.7	7,340.0	44.1	41.9	64.01	-2,154.1	384.8	515.7	440.8	74.85	6.890		
9,600.0	7,566.0	9,320.7	7,340.0	45.7	43.5	63.98	-2,254.1	384.8	515.2	437.4	77.85	6.618		
9,700.0	7,566.0	9,420.7	7,340.0	47.2	45.2	63.96	-2,354.1	384.8	514.8	433.9	80.86	6.366		
9,800.0	7,566.0	9,520.7	7,340.0	48.8	46.9	63.93	-2,454.1	384.8	514.3	430.4	83.89	6.131		
9,900.0	7,566.0	9,620.7	7,340.0	50.4	48.5	63.91	-2,554.1	384.8	513.8	426.9	86.91	5.912		
10,000.0	7,566.0	9,720.7	7,340.0	52.1	50.2	63.88	-2,654.1	384.8	513.4	423.4	89.95	5.707		
10,100.0	7,566.0	9,820.6	7,340.0	53.7	51.9	63.86	-2,754.1	384.8	512.9	419.9	92.99	5.516		
10,200.0	7,566.0	9,920.6	7,340.0	55.3	53.6	63.83	-2,854.1	384.8	512.4	416.4	96.03	5.336		
10,300.0	7,566.0	10,020.6	7,340.0	57.0	55.3	63.81	-2,954.1	384.8	512.0	412.9	99.08	5.167		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1F-19H-B2686 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,566.0	10,120.6	7,340.0	58.6	57.0	63.78	-3,054.1	384.8	511.5	409.4	102.14	5.008		
10,500.0	7,566.0	10,220.6	7,340.0	60.3	58.7	63.75	-3,154.1	384.8	511.1	405.9	105.19	4.858		
10,600.0	7,566.0	10,320.6	7,340.0	61.9	60.4	63.73	-3,254.1	384.8	510.6	402.3	108.25	4.717		
10,700.0	7,566.0	10,420.6	7,340.0	63.6	62.1	63.70	-3,354.1	384.8	510.1	398.8	111.31	4.583		
10,800.0	7,566.0	10,520.6	7,340.0	65.3	63.8	63.68	-3,454.1	384.8	509.7	395.3	114.38	4.456		
10,900.0	7,566.0	10,620.6	7,340.0	66.9	65.5	63.65	-3,554.1	384.8	509.2	391.8	117.44	4.336		
11,000.0	7,566.0	10,720.6	7,340.0	68.6	67.2	63.63	-3,654.1	384.8	508.7	388.2	120.51	4.222		
11,100.0	7,566.0	10,820.6	7,340.0	70.3	68.9	63.60	-3,754.1	384.8	508.3	384.7	123.58	4.113		
11,200.0	7,566.0	10,920.6	7,340.0	72.0	70.7	63.57	-3,854.1	384.8	507.8	381.2	126.65	4.010		
11,300.0	7,566.0	11,020.6	7,340.0	73.7	72.4	63.55	-3,954.0	384.8	507.4	377.6	129.72	3.911		
11,400.0	7,566.0	11,120.6	7,340.0	75.4	74.1	63.52	-4,054.0	384.8	506.9	374.1	132.79	3.817		
11,500.0	7,566.0	11,220.6	7,340.0	77.1	75.8	63.50	-4,154.0	384.8	506.4	370.6	135.86	3.728		
11,600.0	7,566.0	11,320.6	7,340.0	78.8	77.5	63.47	-4,254.0	384.8	506.0	367.0	138.94	3.642		
11,700.0	7,566.0	11,420.6	7,340.0	80.5	79.3	63.44	-4,354.0	384.8	505.5	363.5	142.01	3.560		
11,800.0	7,566.0	11,520.6	7,340.0	82.2	81.0	63.42	-4,454.0	384.8	505.1	360.0	145.08	3.481		
11,900.0	7,566.0	11,620.6	7,340.0	83.9	82.7	63.39	-4,554.0	384.8	504.6	356.4	148.16	3.406		
12,000.0	7,566.0	11,720.6	7,340.0	85.6	84.5	63.37	-4,654.0	384.8	504.1	352.9	151.23	3.334		
12,100.0	7,566.0	11,820.6	7,340.0	87.3	86.2	63.34	-4,754.0	384.8	503.7	349.4	154.30	3.264		
12,125.7	7,566.0	11,846.3	7,340.0	87.7	86.6	63.33	-4,779.7	384.8	503.6	348.5	155.09	3.247 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-92.10	-0.4	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-92.10	-0.4	-10.1	10.1	9.8	0.30	33.169		
200.0	200.0	200.0	200.0	0.3	0.3	-92.10	-0.4	-10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	-92.10	-0.4	-10.1	10.1	9.1	1.00	10.055		
400.0	400.0	400.0	400.0	0.7	0.7	-92.10	-0.4	-10.1	10.1	8.7	1.35	7.457		
500.0	500.0	500.0	500.0	0.8	0.8	-92.10	-0.4	-10.1	10.1	8.4	1.70	5.925		
600.0	600.0	600.0	600.0	1.0	1.0	-92.10	-0.4	-10.1	10.1	8.0	2.05	4.916 CC, ES		
700.0	700.0	700.0	700.0	1.2	1.2	-179.64	-0.4	-10.1	11.8	9.4	2.40	4.930		
800.0	799.8	800.4	800.4	1.4	1.4	-179.73	-0.3	-8.3	15.3	12.6	2.74	5.577		
900.0	899.5	900.9	900.8	1.6	1.6	-179.81	-0.1	-3.0	18.8	15.7	3.09	6.077		
1,000.0	998.7	1,001.0	1,000.5	1.8	1.8	-179.87	0.3	4.6	23.0	19.6	3.43	6.709		
1,100.0	1,097.9	1,100.9	1,100.1	2.1	2.0	-179.92	0.6	12.4	27.9	24.1	3.78	7.369		
1,200.0	1,197.1	1,200.7	1,199.7	2.3	2.2	-179.96	0.9	20.1	32.7	28.6	4.13	7.918		
1,300.0	1,296.4	1,300.6	1,299.3	2.6	2.4	-179.98	1.2	27.9	37.6	33.1	4.48	8.382		
1,400.0	1,395.6	1,400.5	1,398.8	2.8	2.6	180.00	1.6	35.6	42.4	37.6	4.83	8.778		
1,500.0	1,494.8	1,500.4	1,498.4	3.1	2.8	179.98	1.9	43.4	47.3	42.1	5.18	9.121		
1,600.0	1,594.0	1,600.3	1,598.0	3.4	3.0	179.97	2.2	51.1	52.1	46.6	5.53	9.421		
1,700.0	1,693.2	1,700.2	1,697.6	3.6	3.2	179.96	2.6	58.9	57.0	51.1	5.88	9.685		
1,800.0	1,792.4	1,800.0	1,797.2	3.9	3.4	179.95	2.9	66.6	61.8	55.6	6.23	9.920		
1,900.0	1,891.6	1,899.9	1,896.8	4.2	3.6	179.94	3.2	74.3	66.6	60.1	6.58	10.130		
2,000.0	1,990.8	1,999.8	1,996.3	4.5	3.9	179.94	3.5	82.1	71.5	64.6	6.93	10.318		
2,100.0	2,090.0	2,099.7	2,095.9	4.7	4.1	179.93	3.9	89.8	76.3	69.1	7.28	10.489		
2,200.0	2,189.2	2,199.6	2,195.5	5.0	4.3	179.93	4.2	97.6	81.2	73.6	7.63	10.644		
2,300.0	2,288.4	2,299.5	2,295.1	5.3	4.5	179.92	4.5	105.3	86.0	78.1	7.98	10.785		
2,400.0	2,387.6	2,399.3	2,394.7	5.6	4.7	179.92	4.9	113.1	90.9	82.6	8.33	10.915		
2,500.0	2,486.8	2,499.2	2,494.2	5.8	4.9	179.91	5.2	120.8	95.7	87.0	8.68	11.034		
2,600.0	2,586.0	2,599.1	2,593.8	6.1	5.2	179.91	5.5	128.5	100.6	91.5	9.02	11.144		
2,700.0	2,685.2	2,699.0	2,693.4	6.4	5.4	179.91	5.8	136.3	105.4	96.0	9.37	11.245		
2,800.0	2,784.4	2,798.9	2,793.0	6.7	5.6	179.91	6.2	144.0	110.3	100.5	9.72	11.340		
2,900.0	2,883.6	2,898.8	2,892.6	7.0	5.8	179.90	6.5	151.8	115.1	105.0	10.07	11.428		
3,000.0	2,982.8	2,998.6	2,992.2	7.2	6.0	179.90	6.8	159.5	120.0	109.5	10.42	11.510		
3,100.0	3,082.0	3,098.5	3,091.7	7.5	6.2	179.90	7.2	167.3	124.8	114.0	10.77	11.586		
3,200.0	3,181.3	3,198.4	3,191.3	7.8	6.5	179.90	7.5	175.0	129.6	118.5	11.12	11.658		
3,300.0	3,280.5	3,298.3	3,290.9	8.1	6.7	179.90	7.8	182.7	134.5	123.0	11.47	11.726		
3,400.0	3,379.7	3,398.2	3,390.5	8.4	6.9	179.89	8.1	190.5	139.3	127.5	11.82	11.789		
3,500.0	3,478.9	3,498.0	3,490.1	8.6	7.1	179.89	8.5	198.2	144.2	132.0	12.17	11.849		
3,600.0	3,578.1	3,597.9	3,589.6	8.9	7.3	179.89	8.8	206.0	149.0	136.5	12.52	11.905		
3,700.0	3,677.3	3,697.8	3,689.2	9.2	7.6	179.89	9.1	213.7	153.9	141.0	12.87	11.959		
3,800.0	3,776.5	3,797.7	3,788.8	9.5	7.8	179.89	9.4	221.5	158.7	145.5	13.22	12.009		
3,900.0	3,875.7	3,897.6	3,888.4	9.8	8.0	179.89	9.8	229.2	163.6	150.0	13.57	12.058		
4,000.0	3,974.9	3,997.5	3,988.0	10.0	8.2	179.89	10.1	236.9	168.4	154.5	13.91	12.103		
4,100.0	4,074.1	4,097.3	4,087.5	10.3	8.4	179.88	10.4	244.7	173.3	159.0	14.26	12.147		
4,200.0	4,173.3	4,197.2	4,187.1	10.6	8.7	179.88	10.8	252.4	178.1	163.5	14.61	12.188		
4,300.0	4,272.5	4,297.1	4,286.7	10.9	8.9	179.88	11.1	260.2	182.9	168.0	14.96	12.227		
4,400.0	4,371.7	4,397.0	4,386.3	11.2	9.1	179.88	11.4	267.9	187.8	172.5	15.31	12.265		
4,500.0	4,470.9	4,496.9	4,485.9	11.4	9.3	179.88	11.7	275.7	192.6	177.0	15.66	12.301		
4,600.0	4,570.1	4,596.8	4,585.5	11.7	9.5	179.88	12.1	283.4	197.5	181.5	16.01	12.335		
4,700.0	4,669.3	4,696.6	4,685.0	12.0	9.8	179.88	12.4	291.2	202.3	186.0	16.36	12.368		
4,800.0	4,768.5	4,796.5	4,784.6	12.3	10.0	179.88	12.7	298.9	207.2	190.5	16.71	12.399		
4,900.0	4,867.7	4,896.4	4,884.2	12.6	10.2	179.88	13.1	306.6	212.0	195.0	17.06	12.430		
5,000.0	4,967.0	4,996.3	4,983.8	12.8	10.4	179.88	13.4	314.4	216.9	199.5	17.41	12.459		
5,100.0	5,066.2	5,096.2	5,083.4	13.1	10.6	179.88	13.7	322.1	221.7	204.0	17.76	12.487		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,165.4	5,196.0	5,182.9	13.4	10.9	179.88	14.0	329.9	226.6	208.5	18.11	12.513	
5,300.0	5,264.6	5,295.9	5,282.5	13.7	11.1	179.88	14.4	337.6	231.4	212.9	18.45	12.539	
5,400.0	5,363.8	5,395.8	5,382.1	14.0	11.3	179.87	14.7	345.4	236.2	217.4	18.80	12.564	
5,500.0	5,463.0	5,495.7	5,481.7	14.2	11.5	179.87	15.0	353.1	241.1	221.9	19.15	12.588	
5,600.0	5,562.2	5,595.6	5,581.3	14.5	11.7	179.87	15.4	360.8	245.9	226.4	19.50	12.611	
5,700.0	5,661.4	5,695.5	5,680.8	14.8	12.0	179.87	15.7	368.6	250.8	230.9	19.85	12.633	
5,800.0	5,760.6	5,795.3	5,780.4	15.1	12.2	179.87	16.0	376.3	255.6	235.4	20.20	12.655	
5,900.0	5,859.8	5,895.2	5,880.0	15.4	12.4	179.87	16.3	384.1	260.5	239.9	20.55	12.675	
6,000.0	5,959.0	5,995.1	5,979.6	15.7	12.6	179.87	16.7	391.8	265.3	244.4	20.90	12.695	
6,100.0	6,058.2	6,095.0	6,079.2	15.9	12.8	179.87	17.0	399.6	270.2	248.9	21.25	12.715	
6,200.0	6,157.4	6,194.9	6,178.8	16.2	13.1	179.87	17.3	407.3	275.0	253.4	21.60	12.734	
6,300.0	6,256.6	6,294.8	6,278.3	16.5	13.3	179.87	17.7	415.0	279.9	257.9	21.95	12.752	
6,400.0	6,355.8	6,394.6	6,377.9	16.8	13.5	179.87	18.0	422.8	284.7	262.4	22.30	12.769	
6,500.0	6,455.0	6,494.5	6,477.5	17.1	13.7	179.87	18.3	430.5	289.5	266.9	22.64	12.786	
6,600.0	6,554.2	6,594.4	6,577.1	17.3	14.0	179.87	18.6	438.3	294.4	271.4	22.99	12.803	
6,700.0	6,653.4	6,694.3	6,676.7	17.6	14.2	179.87	19.0	446.0	299.2	275.9	23.34	12.819	
6,800.0	6,752.6	6,792.9	6,775.0	17.9	14.4	179.45	17.1	453.7	304.2	280.5	23.69	12.840	
6,900.0	6,851.9	6,888.6	6,869.3	18.2	14.6	176.39	3.5	461.0	310.2	286.1	24.08	12.878	
7,000.0	6,950.8	6,981.0	6,957.9	18.5	14.8	123.48	-21.5	467.9	317.6	293.0	24.67	12.878	
7,100.0	7,047.8	7,071.2	7,040.7	18.7	15.0	101.59	-56.7	474.3	325.9	300.5	25.45	12.808	
7,200.0	7,141.2	7,159.6	7,116.8	19.0	15.3	90.80	-101.0	480.2	334.5	308.2	26.38	12.682	
7,300.0	7,228.9	7,246.3	7,185.7	19.3	15.6	84.08	-153.4	485.6	343.1	315.7	27.40	12.523	
7,400.0	7,309.4	7,331.8	7,246.9	19.7	16.0	79.37	-212.7	490.4	351.2	322.7	28.44	12.349	
7,500.0	7,381.1	7,416.1	7,300.0	20.1	16.5	75.92	-278.0	494.5	358.5	329.0	29.46	12.169	
7,600.0	7,442.5	7,500.0	7,344.9	20.6	17.1	73.36	-348.8	498.0	364.7	334.2	30.44	11.979	
7,700.0	7,492.5	7,582.3	7,380.6	21.2	17.8	71.52	-422.9	500.8	369.6	338.2	31.40	11.770	
7,800.0	7,530.1	7,664.6	7,407.6	22.0	18.5	70.29	-500.5	502.9	373.0	340.6	32.36	11.525	
7,900.0	7,554.6	7,750.0	7,426.0	22.8	19.4	69.61	-583.8	504.3	374.8	341.4	33.40	11.220	
8,000.0	7,565.4	7,828.5	7,434.1	23.7	20.3	69.47	-661.9	504.9	374.9	340.5	34.46	10.879	
8,100.0	7,566.0	7,920.7	7,435.0	24.7	21.4	69.51	-754.1	505.0	374.3	337.7	36.54	10.241	
8,200.0	7,566.0	8,020.7	7,435.0	25.8	22.6	69.48	-854.1	505.0	373.8	334.7	39.13	9.553	
8,300.0	7,566.0	8,120.7	7,435.0	27.0	23.9	69.46	-954.1	505.0	373.3	331.5	41.81	8.929	
8,400.0	7,566.0	8,220.7	7,435.0	28.2	25.3	69.43	-1,054.1	505.0	372.8	328.2	44.57	8.365	
8,500.0	7,566.0	8,320.7	7,435.0	29.5	26.7	69.40	-1,154.1	505.0	372.3	324.9	47.39	7.857	
8,600.0	7,566.0	8,420.7	7,435.0	30.8	28.2	69.37	-1,254.1	505.0	371.8	321.6	50.27	7.397	
8,700.0	7,566.0	8,520.7	7,435.0	32.2	29.7	69.34	-1,354.1	505.0	371.4	318.2	53.20	6.981	
8,800.0	7,566.0	8,620.7	7,435.0	33.6	31.2	69.32	-1,454.1	505.0	370.9	314.7	56.16	6.604	
8,900.0	7,566.0	8,720.7	7,435.0	35.0	32.7	69.29	-1,554.1	505.0	370.4	311.2	59.15	6.262	
9,000.0	7,566.0	8,820.7	7,435.0	36.5	34.3	69.26	-1,654.1	505.0	369.9	307.7	62.18	5.950	
9,100.0	7,566.0	8,920.7	7,435.0	37.9	35.9	69.23	-1,754.1	505.0	369.4	304.2	65.22	5.664	
9,200.0	7,566.0	9,020.7	7,435.0	39.4	37.5	69.20	-1,854.1	505.0	369.0	300.7	68.29	5.403	
9,300.0	7,566.0	9,120.7	7,435.0	41.0	39.1	69.17	-1,954.1	505.0	368.5	297.1	71.37	5.163	
9,400.0	7,566.0	9,220.7	7,435.0	42.5	40.7	69.15	-2,054.1	505.0	368.0	293.5	74.47	4.942	
9,500.0	7,566.0	9,320.7	7,435.0	44.1	42.3	69.12	-2,154.1	505.0	367.5	289.9	77.58	4.737	
9,600.0	7,566.0	9,420.7	7,435.0	45.7	44.0	69.09	-2,254.1	505.0	367.0	286.3	80.70	4.548	
9,700.0	7,566.0	9,520.7	7,435.0	47.2	45.6	69.06	-2,354.1	505.0	366.5	282.7	83.83	4.373	
9,800.0	7,566.0	9,620.7	7,435.0	48.8	47.3	69.03	-2,454.1	505.0	366.1	279.1	86.97	4.209	
9,900.0	7,566.0	9,720.7	7,435.0	50.4	48.9	69.00	-2,554.1	505.0	365.6	275.5	90.12	4.057	
10,000.0	7,566.0	9,820.7	7,435.0	52.1	50.6	68.97	-2,654.1	505.0	365.1	271.8	93.27	3.914	
10,100.0	7,566.0	9,920.7	7,435.0	53.7	52.3	68.94	-2,754.1	505.0	364.6	268.2	96.43	3.781	
10,200.0	7,566.0	10,020.7	7,435.0	55.3	53.9	68.91	-2,854.1	505.0	364.1	264.5	99.60	3.656	
10,300.0	7,566.0	10,120.7	7,435.0	57.0	55.6	68.89	-2,954.1	505.0	363.7	260.9	102.77	3.539	

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,566.0	10,220.7	7,435.0	58.6	57.3	68.86	-3,054.1	505.0	363.2	257.2	105.94	3.428	
10,500.0	7,566.0	10,320.7	7,435.0	60.3	59.0	68.83	-3,154.1	505.0	362.7	253.6	109.12	3.324	
10,600.0	7,566.0	10,420.7	7,435.0	61.9	60.7	68.80	-3,254.1	505.0	362.2	249.9	112.30	3.225	
10,700.0	7,566.0	10,520.7	7,435.0	63.6	62.4	68.77	-3,354.1	505.0	361.7	246.3	115.48	3.132	
10,800.0	7,566.0	10,620.7	7,435.0	65.3	64.1	68.74	-3,454.1	505.0	361.3	242.6	118.67	3.044	
10,900.0	7,566.0	10,720.7	7,435.0	66.9	65.8	68.71	-3,554.1	505.0	360.8	238.9	121.85	2.961	
11,000.0	7,566.0	10,820.7	7,435.0	68.6	67.5	68.68	-3,654.1	505.0	360.3	235.2	125.04	2.881	
11,100.0	7,566.0	10,920.7	7,435.0	70.3	69.2	68.65	-3,754.1	505.0	359.8	231.6	128.23	2.806	
11,200.0	7,566.0	11,020.7	7,435.0	72.0	70.9	68.62	-3,854.1	505.0	359.3	227.9	131.43	2.734	
11,300.0	7,566.0	11,120.7	7,435.0	73.7	72.6	68.59	-3,954.0	505.0	358.9	224.2	134.62	2.666	
11,400.0	7,566.0	11,220.7	7,435.0	75.4	74.4	68.56	-4,054.0	505.0	358.4	220.6	137.81	2.600	
11,500.0	7,566.0	11,320.7	7,435.0	77.1	76.1	68.53	-4,154.0	505.0	357.9	216.9	141.01	2.538	
11,600.0	7,566.0	11,424.5	7,435.0	78.8	78.0	68.41	-4,267.9	506.5	356.3	212.0	144.34	2.468	
11,700.0	7,566.0	11,528.0	7,435.0	80.5	80.2	67.78	-4,391.0	516.1	348.6	201.3	147.32	2.366	
11,800.0	7,566.0	11,629.4	7,435.0	82.2	82.3	66.54	-4,511.0	534.3	334.3	184.7	149.55	2.235	
11,900.0	7,566.0	11,727.5	7,435.0	83.9	84.3	64.56	-4,626.2	560.2	313.7	163.0	150.70	2.082	
12,000.0	7,566.0	11,811.4	7,435.0	85.6	86.3	61.61	-4,735.3	592.7	287.6	137.4	150.21	1.915	
12,100.0	7,566.0	11,896.2	7,435.0	87.3	87.2	59.80	-4,783.7	609.7	262.3	112.3	149.95	1.749	
12,125.7	7,566.0	11,962.7	7,435.0	87.7	87.2	59.80	-4,783.7	609.7	260.5	110.2	150.34	1.733 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		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)						
0.0	0.0	0.0	0.0	0.0	0.0	87.95	0.4	10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	87.95	0.4	10.1	10.1	9.8	0.30	33.168		
200.0	200.0	200.0	200.0	0.3	0.3	87.95	0.4	10.1	10.1	9.4	0.65	15.431		
300.0	300.0	300.0	300.0	0.5	0.5	87.95	0.4	10.1	10.1	9.1	1.00	10.054		
400.0	400.0	400.0	400.0	0.7	0.7	87.95	0.4	10.1	10.1	8.7	1.35	7.456		
500.0	500.0	500.0	500.0	0.8	0.8	87.95	0.4	10.1	10.1	8.4	1.70	5.925 CC, ES		
600.0	600.0	599.6	599.6	1.0	1.0	87.89	0.4	11.8	11.8	9.8	2.05	5.761		
700.0	700.0	699.1	698.9	1.2	1.2	0.34	0.7	17.0	15.3	12.9	2.40	6.377		
800.0	799.8	798.4	797.9	1.4	1.4	0.31	1.0	25.6	18.7	16.0	2.74	6.831		
900.0	899.5	897.7	896.4	1.6	1.7	0.30	1.5	37.6	22.1	19.1	3.09	7.178		
1,000.0	998.7	997.2	994.7	1.8	1.9	0.30	2.2	52.7	25.4	22.0	3.43	7.415		
1,100.0	1,097.9	1,097.1	1,093.5	2.1	2.2	0.31	2.9	68.4	28.6	24.8	3.78	7.558		
1,200.0	1,197.1	1,197.1	1,192.2	2.3	2.5	0.31	3.5	84.0	31.7	27.6	4.13	7.678		
1,300.0	1,296.4	1,297.0	1,290.9	2.6	2.8	0.31	4.2	99.7	34.9	30.4	4.48	7.779		
1,400.0	1,395.6	1,397.0	1,389.6	2.8	3.1	0.31	4.9	115.4	38.0	33.2	4.83	7.865		
1,500.0	1,494.8	1,496.9	1,488.3	3.1	3.4	0.32	5.5	131.1	41.2	36.0	5.18	7.940		
1,600.0	1,594.0	1,596.9	1,587.0	3.4	3.8	0.32	6.2	146.7	44.3	38.8	5.53	8.006		
1,700.0	1,693.2	1,696.8	1,685.7	3.6	4.1	0.32	6.9	162.4	47.4	41.6	5.88	8.064		
1,800.0	1,792.4	1,796.8	1,784.4	3.9	4.4	0.32	7.6	178.1	50.6	44.4	6.23	8.115		
1,900.0	1,891.6	1,896.7	1,883.2	4.2	4.7	0.32	8.2	193.7	53.7	47.1	6.58	8.161		
2,000.0	1,990.8	1,996.7	1,981.9	4.5	5.0	0.32	8.9	209.4	56.9	49.9	6.93	8.202		
2,100.0	2,090.0	2,096.6	2,080.6	4.7	5.4	0.32	9.6	225.1	60.0	52.7	7.28	8.240		
2,200.0	2,189.2	2,196.6	2,179.3	5.0	5.7	0.32	10.3	240.8	63.2	55.5	7.63	8.274		
2,300.0	2,288.4	2,296.5	2,278.0	5.3	6.0	0.32	10.9	256.4	66.3	58.3	7.98	8.305		
2,400.0	2,387.6	2,396.5	2,376.7	5.6	6.3	0.32	11.6	272.1	69.4	61.1	8.33	8.333		
2,500.0	2,486.8	2,496.4	2,475.4	5.8	6.6	0.33	12.3	287.8	72.6	63.9	8.68	8.359		
2,600.0	2,586.0	2,596.4	2,574.1	6.1	7.0	0.33	12.9	303.4	75.7	66.7	9.03	8.383		
2,700.0	2,685.2	2,696.3	2,672.8	6.4	7.3	0.33	13.6	319.1	78.9	69.5	9.38	8.406		
2,800.0	2,784.4	2,796.3	2,771.6	6.7	7.6	0.33	14.3	334.8	82.0	72.3	9.73	8.427		
2,900.0	2,883.6	2,896.2	2,870.3	7.0	7.9	0.33	15.0	350.5	85.2	75.1	10.08	8.446		
3,000.0	2,982.8	2,996.2	2,969.0	7.2	8.3	0.33	15.6	366.1	88.3	77.9	10.43	8.464		
3,100.0	3,082.0	3,096.1	3,067.7	7.5	8.6	0.33	16.3	381.8	91.5	80.7	10.78	8.481		
3,200.0	3,181.3	3,196.1	3,166.4	7.8	8.9	0.33	17.0	397.5	94.6	83.5	11.13	8.497		
3,300.0	3,280.5	3,296.0	3,265.1	8.1	9.2	0.33	17.6	413.1	97.7	86.3	11.48	8.511		
3,400.0	3,379.7	3,396.0	3,363.8	8.4	9.6	0.33	18.3	428.8	100.9	89.0	11.83	8.525		
3,500.0	3,478.9	3,495.9	3,462.5	8.6	9.9	0.33	19.0	444.5	104.0	91.8	12.18	8.539		
3,600.0	3,578.1	3,595.9	3,561.3	8.9	10.2	0.33	19.7	460.2	107.2	94.6	12.53	8.551		
3,700.0	3,677.3	3,695.8	3,660.0	9.2	10.5	0.33	20.3	475.8	110.3	97.4	12.88	8.563		
3,800.0	3,776.5	3,795.8	3,758.7	9.5	10.9	0.33	21.0	491.5	113.5	100.2	13.23	8.574		
3,900.0	3,875.7	3,895.7	3,857.4	9.8	11.2	0.33	21.7	507.2	116.6	103.0	13.58	8.584		
4,000.0	3,974.9	3,995.7	3,956.1	10.0	11.5	0.33	22.4	522.8	119.7	105.8	13.93	8.595		
4,100.0	4,074.1	4,095.6	4,054.8	10.3	11.9	0.33	23.0	538.5	122.9	108.6	14.28	8.604		
4,200.0	4,173.3	4,195.6	4,153.5	10.6	12.2	0.33	23.7	554.2	126.0	111.4	14.63	8.613		
4,300.0	4,272.5	4,295.5	4,252.2	10.9	12.5	0.33	24.4	569.9	129.2	114.2	14.98	8.622		
4,400.0	4,371.7	4,395.5	4,351.0	11.2	12.8	0.33	25.0	585.5	132.3	117.0	15.33	8.630		
4,500.0	4,470.9	4,495.4	4,449.7	11.4	13.2	0.33	25.7	601.2	135.5	119.8	15.68	8.638		
4,600.0	4,570.1	4,595.4	4,548.4	11.7	13.5	0.33	26.4	616.9	138.6	122.6	16.03	8.646		
4,700.0	4,669.3	4,695.3	4,647.1	12.0	13.8	0.33	27.1	632.5	141.7	125.4	16.38	8.653		
4,800.0	4,768.5	4,795.3	4,745.8	12.3	14.1	0.33	27.7	648.2	144.9	128.2	16.73	8.660		
4,900.0	4,867.7	4,895.2	4,844.5	12.6	14.5	0.33	28.4	663.9	148.0	131.0	17.08	8.666		
5,000.0	4,967.0	4,995.2	4,943.2	12.8	14.8	0.33	29.1	679.6	151.2	133.7	17.43	8.673		
5,100.0	5,066.2	5,095.1	5,041.9	13.1	15.1	0.33	29.7	695.2	154.3	136.5	17.78	8.679		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,165.4	5,195.1	5,140.7	13.4	15.4	0.33	30.4	710.9	157.5	139.3	18.13	8.685	
5,300.0	5,264.6	5,295.1	5,239.4	13.7	15.8	0.33	31.1	726.6	160.6	142.1	18.48	8.691	
5,400.0	5,363.8	5,395.0	5,338.1	14.0	16.1	0.33	31.8	742.2	163.8	144.9	18.83	8.696	
5,500.0	5,463.0	5,495.0	5,436.8	14.2	16.4	0.33	32.4	757.9	166.9	147.7	19.18	8.701	
5,600.0	5,562.2	5,594.9	5,535.5	14.5	16.8	0.33	33.1	773.6	170.0	150.5	19.53	8.706	
5,700.0	5,661.4	5,694.9	5,634.2	14.8	17.1	0.33	33.8	789.3	173.2	153.3	19.88	8.711	
5,800.0	5,760.6	5,794.8	5,732.9	15.1	17.4	0.33	34.4	804.9	176.3	156.1	20.23	8.716	
5,900.0	5,859.8	5,894.8	5,831.6	15.4	17.7	0.33	35.1	820.6	179.5	158.9	20.58	8.721	
6,000.0	5,959.0	5,994.7	5,930.3	15.7	18.1	0.33	35.8	836.3	182.6	161.7	20.93	8.725	
6,100.0	6,058.2	6,094.7	6,029.1	15.9	18.4	0.33	36.5	851.9	185.8	164.5	21.28	8.729	
6,200.0	6,157.4	6,194.6	6,127.8	16.2	18.7	0.33	37.1	867.6	188.9	167.3	21.63	8.734	
6,300.0	6,256.6	6,294.6	6,226.5	16.5	19.0	0.33	37.8	883.3	192.0	170.1	21.98	8.738	
6,400.0	6,355.8	6,394.5	6,325.2	16.8	19.4	0.33	38.5	899.0	195.2	172.9	22.33	8.741	
6,500.0	6,455.0	6,494.5	6,423.9	17.1	19.7	0.33	39.2	914.6	198.3	175.7	22.68	8.745	
6,600.0	6,554.2	6,594.4	6,522.6	17.3	20.0	0.33	39.8	930.3	201.5	178.4	23.03	8.749	
6,700.0	6,653.4	6,694.4	6,621.3	17.6	20.3	0.33	40.5	946.0	204.6	181.2	23.38	8.752	
6,800.0	6,752.6	6,794.8	6,720.3	17.9	20.7	2.03	35.0	961.7	207.6	183.9	23.75	8.744	
6,900.0	6,851.9	6,891.8	6,814.3	18.2	21.0	6.71	16.6	976.6	211.5	187.2	24.30	8.706	
7,000.0	6,950.8	6,984.4	6,900.9	18.5	21.3	-35.51	-12.9	990.4	218.3	193.1	25.17	8.672	
7,100.0	7,047.8	7,074.3	6,980.7	18.7	21.6	-47.75	-52.2	1,003.0	227.5	201.5	25.99	8.754	
7,200.0	7,141.2	7,161.9	7,053.2	19.0	21.9	-50.06	-99.8	1,014.5	238.3	211.8	26.46	9.006	
7,300.0	7,228.9	7,250.0	7,119.9	19.3	22.2	-49.41	-156.4	1,025.1	249.8	223.3	26.45	9.444	
7,400.0	7,309.4	7,331.4	7,174.9	19.7	22.6	-48.11	-215.7	1,033.8	261.3	235.3	25.98	10.055	
7,500.0	7,381.1	7,413.9	7,223.5	20.1	23.0	-46.56	-281.8	1,041.6	272.2	246.9	25.25	10.782	
7,600.0	7,442.5	7,495.2	7,263.8	20.6	23.5	-45.14	-352.2	1,048.0	282.0	257.5	24.51	11.509	
7,700.0	7,492.5	7,575.7	7,295.6	21.2	24.0	-43.95	-425.9	1,053.0	290.4	266.3	24.13	12.035	
7,800.0	7,530.1	7,655.5	7,318.9	22.0	24.6	-43.05	-502.0	1,056.7	297.0	272.6	24.48	12.136	
7,900.0	7,554.6	7,734.8	7,333.7	22.8	25.3	-42.44	-579.9	1,059.1	301.7	275.9	25.81	11.689	
8,000.0	7,565.4	7,813.8	7,339.8	23.7	26.0	-42.12	-658.6	1,060.0	304.2	276.0	28.18	10.796	
8,100.0	7,566.0	7,909.3	7,340.0	24.7	26.8	-42.14	-754.1	1,060.1	304.8	274.5	30.28	10.065	
8,200.0	7,566.0	8,009.3	7,340.0	25.8	27.8	-42.21	-854.1	1,060.1	305.1	273.1	32.08	9.511	
8,300.0	7,566.0	8,109.3	7,340.0	27.0	28.9	-42.28	-954.1	1,060.1	305.5	271.5	33.96	8.995	
8,400.0	7,566.0	8,209.3	7,340.0	28.2	30.1	-42.35	-1,054.1	1,060.1	305.8	269.9	35.91	8.517	
8,500.0	7,566.0	8,309.3	7,340.0	29.5	31.3	-42.43	-1,154.1	1,060.1	306.2	268.3	37.91	8.076	
8,600.0	7,566.0	8,409.3	7,340.0	30.8	32.5	-42.50	-1,254.1	1,060.1	306.5	266.6	39.97	7.669	
8,700.0	7,566.0	8,509.3	7,340.0	32.2	33.8	-42.57	-1,354.1	1,060.1	306.9	264.8	42.07	7.295	
8,800.0	7,566.0	8,609.3	7,340.0	33.6	35.1	-42.64	-1,454.1	1,060.1	307.2	263.0	44.20	6.950	
8,900.0	7,566.0	8,709.3	7,340.0	35.0	36.5	-42.71	-1,554.1	1,060.1	307.6	261.2	46.38	6.632	
9,000.0	7,566.0	8,809.3	7,340.0	36.5	37.9	-42.78	-1,654.1	1,060.1	307.9	259.3	48.58	6.338	
9,100.0	7,566.0	8,909.3	7,340.0	37.9	39.3	-42.85	-1,754.1	1,060.1	308.3	257.5	50.81	6.067	
9,200.0	7,566.0	9,011.3	7,340.0	39.4	40.8	-42.88	-1,856.1	1,059.8	308.4	255.4	53.06	5.813	
9,300.0	7,566.0	9,115.1	7,340.0	41.0	42.3	-42.69	-1,959.9	1,057.8	307.5	252.3	55.16	5.575	
9,400.0	7,566.0	9,218.8	7,340.0	42.5	43.9	-42.23	-2,063.5	1,054.0	305.4	248.3	57.03	5.354	
9,500.0	7,566.0	9,320.0	7,340.0	44.1	45.4	-41.58	-2,164.6	1,048.8	302.3	243.6	58.67	5.152	
9,600.0	7,566.0	9,419.9	7,340.0	45.7	46.9	-40.90	-2,264.3	1,043.6	299.2	238.9	60.21	4.968	
9,700.0	7,566.0	9,517.7	7,340.0	47.2	48.4	-40.28	-2,362.0	1,038.8	296.3	234.6	61.73	4.800	
9,800.0	7,566.0	9,614.4	7,340.0	48.8	49.9	-39.88	-2,458.7	1,035.6	294.5	231.1	63.44	4.643	
9,900.0	7,566.0	9,711.2	7,340.0	50.4	51.4	-39.72	-2,555.5	1,034.1	293.8	228.5	65.38	4.494	
9,914.5	7,566.0	9,725.3	7,340.0	50.7	51.6	-39.72	-2,569.5	1,034.0	293.8	228.1	65.68	4.473	
10,000.0	7,566.0	9,809.8	7,340.0	52.1	53.0	-39.77	-2,654.1	1,033.9	294.1	226.5	67.58	4.351	
10,100.0	7,566.0	9,909.8	7,340.0	53.7	54.6	-39.85	-2,754.1	1,033.9	294.4	224.5	69.84	4.215	
10,200.0	7,566.0	10,009.8	7,340.0	55.3	56.2	-39.93	-2,854.1	1,033.9	294.7	222.6	72.11	4.087	

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1I-19H-B2683 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	7,566.0	10,109.8	7,340.0	57.0	57.8	-40.00	-2,954.1	1,033.9	295.0	220.7	74.39	3.966		
10,400.0	7,566.0	10,209.8	7,340.0	58.6	59.4	-40.08	-3,054.1	1,033.9	295.4	218.7	76.68	3.852		
10,500.0	7,566.0	10,309.8	7,340.0	60.3	61.1	-40.16	-3,154.1	1,033.9	295.7	216.7	78.99	3.744		
10,600.0	7,566.0	10,409.8	7,340.0	61.9	62.7	-40.23	-3,254.1	1,033.9	296.0	214.7	81.31	3.641		
10,700.0	7,566.0	10,509.5	7,340.0	63.6	64.3	-40.31	-3,353.7	1,033.9	296.4	212.7	83.63	3.544		
10,800.0	7,566.0	10,606.2	7,340.0	65.3	65.9	-40.53	-3,450.5	1,034.9	297.4	211.2	86.15	3.452		
10,900.0	7,566.0	10,706.1	7,340.0	66.9	67.6	-40.88	-3,550.4	1,036.8	298.9	210.0	88.93	3.362		
11,000.0	7,566.0	10,806.1	7,340.0	68.6	69.3	-41.22	-3,650.3	1,038.7	300.5	208.8	91.73	3.276		
11,100.0	7,566.0	10,906.1	7,340.0	70.3	71.0	-41.57	-3,750.3	1,040.6	302.1	207.5	94.57	3.195		
11,200.0	7,566.0	11,006.0	7,340.0	72.0	72.6	-41.91	-3,850.2	1,042.4	303.7	206.3	97.42	3.117		
11,300.0	7,566.0	11,106.0	7,340.0	73.7	74.3	-42.24	-3,950.2	1,044.3	305.3	205.0	100.31	3.044		
11,400.0	7,566.0	11,206.0	7,340.0	75.4	76.0	-42.58	-4,050.1	1,046.2	307.0	203.7	103.21	2.974		
11,500.0	7,566.0	11,305.9	7,340.0	77.1	77.7	-42.91	-4,150.1	1,048.1	308.6	202.4	106.14	2.907		
11,600.0	7,566.0	11,405.9	7,340.0	78.8	79.4	-43.23	-4,250.0	1,050.0	310.2	201.1	109.09	2.844		
11,700.0	7,566.0	11,505.9	7,340.0	80.5	81.1	-43.55	-4,350.0	1,051.9	311.9	199.8	112.06	2.783		
11,800.0	7,566.0	11,605.9	7,340.0	82.2	82.8	-43.87	-4,449.9	1,053.8	313.5	198.5	115.05	2.725		
11,900.0	7,566.0	11,705.8	7,340.0	83.9	84.5	-44.19	-4,549.9	1,055.7	315.2	197.2	118.06	2.670		
12,000.0	7,566.0	11,805.8	7,340.0	85.6	86.2	-44.50	-4,649.8	1,057.6	316.9	195.8	121.09	2.617		
12,100.0	7,566.0	11,905.8	7,340.0	87.3	87.9	-44.81	-4,749.8	1,059.5	318.6	194.5	124.14	2.566		
12,125.7	7,566.0	11,931.3	7,340.0	87.7	88.3	-44.89	-4,775.3	1,059.9	319.0	194.1	124.92	2.554 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.94	0.7	20.1	20.1					
100.0	100.0	100.0	100.0	0.2	0.2	87.94	0.7	20.1	20.1	19.8	0.30	66.336		
200.0	200.0	200.0	200.0	0.3	0.3	87.94	0.7	20.1	20.1	19.5	0.65	30.862		
300.0	300.0	300.0	300.0	0.5	0.5	87.94	0.7	20.1	20.1	19.1	1.00	20.109		
400.0	400.0	400.0	400.0	0.7	0.7	87.94	0.7	20.1	20.1	18.8	1.35	14.913 CC, ES		
500.0	500.0	499.3	499.2	0.8	0.8	87.92	0.8	21.9	21.9	20.2	1.70	12.863		
600.0	600.0	598.3	598.1	1.0	1.0	87.89	1.0	27.0	27.1	25.0	2.06	13.128		
700.0	700.0	697.0	696.5	1.2	1.2	0.40	1.3	35.5	34.0	31.6	2.39	14.196		
800.0	799.8	795.5	794.2	1.4	1.5	0.41	1.8	47.4	40.8	38.1	2.74	14.910		
900.0	899.5	893.7	891.3	1.6	1.8	0.44	2.4	62.5	47.6	44.5	3.08	15.454		
1,000.0	998.7	993.0	988.9	1.8	2.1	0.48	3.1	80.5	53.8	50.4	3.43	15.703		
1,100.0	1,097.9	1,092.8	1,087.1	2.1	2.4	0.52	3.8	98.6	59.5	55.7	3.78	15.760		
1,200.0	1,197.1	1,192.7	1,185.3	2.3	2.8	0.55	4.5	116.8	65.2	61.1	4.13	15.807		
1,300.0	1,296.4	1,292.5	1,283.4	2.6	3.1	0.57	5.2	135.0	71.0	66.5	4.48	15.848		
1,400.0	1,395.6	1,392.3	1,381.6	2.8	3.5	0.60	6.0	153.2	76.7	71.8	4.83	15.883		
1,500.0	1,494.8	1,492.2	1,479.7	3.1	3.8	0.61	6.7	171.4	82.4	77.2	5.18	15.913		
1,600.0	1,594.0	1,592.0	1,577.9	3.4	4.2	0.63	7.4	189.6	88.1	82.6	5.53	15.940		
1,700.0	1,693.2	1,691.9	1,676.1	3.6	4.5	0.65	8.1	207.8	93.8	88.0	5.88	15.964		
1,800.0	1,792.4	1,791.7	1,774.2	3.9	4.9	0.66	8.8	226.0	99.6	93.3	6.23	15.985		
1,900.0	1,891.6	1,891.5	1,872.4	4.2	5.3	0.67	9.5	244.2	105.3	98.7	6.58	16.004		
2,000.0	1,990.8	1,991.4	1,970.6	4.5	5.6	0.68	10.2	262.4	111.0	104.1	6.93	16.021		
2,100.0	2,090.0	2,091.2	2,068.7	4.7	6.0	0.69	11.0	280.6	116.7	109.4	7.28	16.037		
2,200.0	2,189.2	2,191.0	2,166.9	5.0	6.4	0.70	11.7	298.7	122.4	114.8	7.63	16.051		
2,300.0	2,288.4	2,290.9	2,265.0	5.3	6.7	0.71	12.4	316.9	128.2	120.2	7.98	16.064		
2,400.0	2,387.6	2,390.7	2,363.2	5.6	7.1	0.71	13.1	335.1	133.9	125.5	8.33	16.076		
2,500.0	2,486.8	2,490.5	2,461.4	5.8	7.4	0.72	13.8	353.3	139.6	130.9	8.68	16.087		
2,600.0	2,586.0	2,590.4	2,559.5	6.1	7.8	0.72	14.5	371.5	145.3	136.3	9.03	16.097		
2,700.0	2,685.2	2,690.2	2,657.7	6.4	8.2	0.73	15.3	389.7	151.0	141.7	9.38	16.107		
2,800.0	2,784.4	2,790.1	2,755.8	6.7	8.5	0.74	16.0	407.9	156.8	147.0	9.73	16.115		
2,900.0	2,883.6	2,889.9	2,854.0	7.0	8.9	0.74	16.7	426.1	162.5	152.4	10.08	16.124		
3,000.0	2,982.8	2,989.7	2,952.2	7.2	9.3	0.74	17.4	444.3	168.2	157.8	10.43	16.131		
3,100.0	3,082.0	3,089.6	3,050.3	7.5	9.6	0.75	18.1	462.5	173.9	163.1	10.78	16.138		
3,200.0	3,181.3	3,189.4	3,148.5	7.8	10.0	0.75	18.8	480.7	179.6	168.5	11.13	16.145		
3,300.0	3,280.5	3,289.2	3,246.7	8.1	10.4	0.76	19.5	498.8	185.4	173.9	11.48	16.151		
3,400.0	3,379.7	3,389.1	3,344.8	8.4	10.7	0.76	20.3	517.0	191.1	179.2	11.83	16.157		
3,500.0	3,478.9	3,488.9	3,443.0	8.6	11.1	0.76	21.0	535.2	196.8	184.6	12.18	16.163		
3,600.0	3,578.1	3,588.7	3,541.1	8.9	11.5	0.77	21.7	553.4	202.5	190.0	12.53	16.168		
3,700.0	3,677.3	3,688.6	3,639.3	9.2	11.8	0.77	22.4	571.6	208.2	195.4	12.88	16.173		
3,800.0	3,776.5	3,788.4	3,737.5	9.5	12.2	0.77	23.1	589.8	214.0	200.7	13.23	16.178		
3,900.0	3,875.7	3,888.3	3,835.6	9.8	12.6	0.77	23.8	608.0	219.7	206.1	13.57	16.182		
4,000.0	3,974.9	3,988.1	3,933.8	10.0	12.9	0.78	24.5	626.2	225.4	211.5	13.92	16.187		
4,100.0	4,074.1	4,087.9	4,032.0	10.3	13.3	0.78	25.3	644.4	231.1	216.8	14.27	16.191		
4,200.0	4,173.3	4,187.8	4,130.1	10.6	13.7	0.78	26.0	662.6	236.8	222.2	14.62	16.195		
4,300.0	4,272.5	4,287.6	4,228.3	10.9	14.0	0.78	26.7	680.8	242.6	227.6	14.97	16.198		
4,400.0	4,371.7	4,387.4	4,326.4	11.2	14.4	0.78	27.4	698.9	248.3	233.0	15.32	16.202		
4,500.0	4,470.9	4,487.3	4,424.6	11.4	14.8	0.79	28.1	717.1	254.0	238.3	15.67	16.205		
4,600.0	4,570.1	4,587.1	4,522.8	11.7	15.1	0.79	28.8	735.3	259.7	243.7	16.02	16.209		
4,700.0	4,669.3	4,686.9	4,620.9	12.0	15.5	0.79	29.6	753.5	265.4	249.1	16.37	16.212		
4,800.0	4,768.5	4,786.8	4,719.1	12.3	15.9	0.79	30.3	771.7	271.2	254.4	16.72	16.215		
4,900.0	4,867.7	4,886.6	4,817.3	12.6	16.2	0.79	31.0	789.9	276.9	259.8	17.07	16.218		
5,000.0	4,967.0	4,986.5	4,915.4	12.8	16.6	0.79	31.7	808.1	282.6	265.2	17.42	16.220		
5,100.0	5,066.2	5,086.3	5,013.6	13.1	17.0	0.80	32.4	826.3	288.3	270.5	17.77	16.223		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,165.4	5,186.1	5,111.7	13.4	17.3	0.80	33.1	844.5	294.0	275.9	18.12	16.225		
5,300.0	5,264.6	5,286.0	5,209.9	13.7	17.7	0.80	33.8	862.7	299.8	281.3	18.47	16.228		
5,400.0	5,363.8	5,385.8	5,308.1	14.0	18.1	0.80	34.6	880.9	305.5	286.7	18.82	16.230		
5,500.0	5,463.0	5,485.6	5,406.2	14.2	18.4	0.80	35.3	899.0	311.2	292.0	19.17	16.232		
5,600.0	5,562.2	5,585.5	5,504.4	14.5	18.8	0.80	36.0	917.2	316.9	297.4	19.52	16.235		
5,700.0	5,661.4	5,685.3	5,602.6	14.8	19.2	0.80	36.7	935.4	322.6	302.8	19.87	16.237		
5,800.0	5,760.6	5,785.1	5,700.7	15.1	19.5	0.80	37.4	953.6	328.4	308.1	20.22	16.239		
5,900.0	5,859.8	5,885.0	5,798.9	15.4	19.9	0.81	38.1	971.8	334.1	313.5	20.57	16.241		
6,000.0	5,959.0	5,984.8	5,897.0	15.7	20.3	0.81	38.8	990.0	339.8	318.9	20.92	16.243		
6,100.0	6,058.2	6,084.6	5,995.2	15.9	20.6	0.81	39.6	1,008.2	345.5	324.2	21.27	16.245		
6,200.0	6,157.4	6,184.5	6,093.4	16.2	21.0	0.81	40.3	1,026.4	351.2	329.6	21.62	16.246		
6,300.0	6,256.6	6,284.3	6,191.5	16.5	21.4	0.81	41.0	1,044.6	357.0	335.0	21.97	16.248		
6,400.0	6,355.8	6,384.2	6,289.7	16.8	21.7	0.81	41.7	1,062.8	362.7	340.4	22.32	16.250		
6,500.0	6,455.0	6,484.0	6,387.9	17.1	22.1	0.81	42.4	1,081.0	368.4	345.7	22.67	16.251		
6,600.0	6,554.2	6,583.8	6,486.0	17.3	22.5	0.81	43.1	1,099.1	374.1	351.1	23.02	16.253		
6,700.0	6,653.4	6,683.7	6,584.2	17.6	22.8	0.81	43.9	1,117.3	379.8	356.5	23.37	16.254		
6,800.0	6,752.6	6,783.5	6,682.3	17.9	23.2	0.81	44.6	1,135.5	385.6	361.8	23.72	16.256		
6,900.0	6,851.9	6,884.1	6,781.2	18.2	23.6	0.66	43.1	1,153.9	391.2	367.1	24.07	16.252		
7,000.0	6,950.8	6,984.4	6,878.8	18.5	23.9	-46.71	28.9	1,171.9	396.8	372.4	24.44	16.241		
7,100.0	7,047.8	7,083.7	6,972.5	18.7	24.3	-63.47	1.4	1,189.3	402.6	377.8	24.79	16.242		
7,200.0	7,141.2	7,181.9	7,060.6	19.0	24.6	-69.59	-38.5	1,205.6	408.3	383.2	25.12	16.256		
7,300.0	7,228.9	7,279.2	7,141.9	19.3	25.0	-72.15	-89.8	1,220.7	413.9	388.4	25.47	16.250		
7,400.0	7,309.4	7,375.7	7,214.9	19.7	25.4	-73.22	-151.2	1,234.2	419.2	393.3	25.92	16.175		
7,500.0	7,381.1	7,471.4	7,278.8	20.1	25.8	-73.59	-221.4	1,246.1	424.1	397.6	26.55	15.973		
7,600.0	7,442.5	7,566.4	7,332.5	20.6	26.3	-73.59	-299.1	1,256.0	428.5	401.0	27.49	15.588		
7,700.0	7,492.5	7,660.9	7,375.3	21.2	26.8	-73.43	-382.8	1,264.0	432.2	403.4	28.82	14.998		
7,800.0	7,530.1	7,754.8	7,406.9	22.0	27.4	-73.19	-471.1	1,269.8	435.3	404.7	30.60	14.223		
7,900.0	7,554.6	7,850.0	7,427.0	22.8	28.1	-72.93	-563.9	1,273.5	437.5	404.6	32.86	13.315		
8,000.0	7,565.4	7,941.7	7,434.8	23.7	28.8	-72.69	-655.3	1,275.0	438.8	403.4	35.48	12.368		
8,100.0	7,566.0	8,040.6	7,435.0	24.7	29.6	-72.65	-754.1	1,275.0	439.4	401.3	38.08	11.539		
8,200.0	7,566.0	8,140.6	7,435.0	25.8	30.6	-72.67	-854.1	1,275.0	439.9	399.3	40.66	10.820		
8,300.0	7,566.0	8,240.6	7,435.0	27.0	31.5	-72.69	-954.1	1,275.0	440.4	397.1	43.34	10.161		
8,400.0	7,566.0	8,340.6	7,435.0	28.2	32.6	-72.71	-1,054.1	1,275.0	440.9	394.8	46.12	9.560		
8,500.0	7,566.0	8,440.6	7,435.0	29.5	33.7	-72.73	-1,154.1	1,275.0	441.4	392.4	48.96	9.015		
8,600.0	7,566.0	8,540.6	7,435.0	30.8	34.9	-72.75	-1,254.1	1,275.0	441.9	390.0	51.87	8.519		
8,700.0	7,566.0	8,640.6	7,435.0	32.2	36.1	-72.77	-1,354.1	1,275.0	442.4	387.5	54.83	8.068		
8,800.0	7,566.0	8,740.6	7,435.0	33.6	37.3	-72.79	-1,454.1	1,275.0	442.9	385.0	57.84	7.657		
8,900.0	7,566.0	8,840.6	7,435.0	35.0	38.6	-72.81	-1,554.1	1,275.0	443.4	382.5	60.88	7.283		
9,000.0	7,566.0	8,940.6	7,435.0	36.5	39.9	-72.83	-1,654.1	1,275.0	443.9	379.9	63.95	6.940		
9,100.0	7,566.0	9,040.6	7,435.0	37.9	41.3	-72.85	-1,754.1	1,275.0	444.3	377.3	67.05	6.627		
9,200.0	7,566.0	9,140.6	7,435.0	39.4	42.7	-72.87	-1,854.1	1,275.0	444.8	374.7	70.18	6.338		
9,300.0	7,566.0	9,240.6	7,435.0	41.0	44.1	-72.89	-1,954.1	1,275.0	445.3	372.0	73.33	6.073		
9,400.0	7,566.0	9,340.6	7,435.0	42.5	45.5	-72.91	-2,054.1	1,275.0	445.8	369.3	76.49	5.828		
9,500.0	7,566.0	9,440.6	7,435.0	44.1	47.0	-72.93	-2,154.1	1,275.0	446.3	366.6	79.68	5.601		
9,600.0	7,566.0	9,540.6	7,435.0	45.7	48.5	-72.95	-2,254.1	1,275.0	446.8	363.9	82.88	5.391		
9,700.0	7,566.0	9,640.5	7,435.0	47.2	50.0	-72.97	-2,354.1	1,275.0	447.3	361.2	86.09	5.196		
9,800.0	7,566.0	9,740.5	7,435.0	48.8	51.5	-72.99	-2,454.1	1,275.0	447.8	358.5	89.31	5.014		
9,900.0	7,566.0	9,840.5	7,435.0	50.4	53.0	-73.01	-2,554.1	1,275.0	448.3	355.7	92.54	4.844		
10,000.0	7,566.0	9,940.5	7,435.0	52.1	54.6	-73.03	-2,654.1	1,275.0	448.8	353.0	95.79	4.685		
10,100.0	7,566.0	10,040.5	7,435.0	53.7	56.1	-73.05	-2,754.1	1,275.0	449.3	350.2	99.04	4.536		
10,200.0	7,566.0	10,140.5	7,435.0	55.3	57.7	-73.07	-2,854.1	1,275.0	449.8	347.5	102.30	4.397		
10,300.0	7,566.0	10,240.5	7,435.0	57.0	59.3	-73.09	-2,954.1	1,275.0	450.3	344.7	105.57	4.265		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1J-19H-B2682 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)		Total Uncertainty Axis	Separation Factor	
10,400.0	7,566.0	10,340.5	7,435.0	58.6	60.8	-73.10	-3,054.1	1,275.0	450.8	341.9	108.84	4.141		
10,500.0	7,566.0	10,440.5	7,435.0	60.3	62.4	-73.12	-3,154.1	1,275.0	451.2	339.1	112.12	4.025		
10,600.0	7,566.0	10,540.5	7,435.0	61.9	64.0	-73.14	-3,254.1	1,275.0	451.7	336.3	115.41	3.914		
10,700.0	7,566.0	10,640.5	7,435.0	63.6	65.7	-73.16	-3,354.1	1,275.0	452.2	333.5	118.70	3.810		
10,800.0	7,566.0	10,740.5	7,435.0	65.3	67.3	-73.18	-3,454.1	1,275.0	452.7	330.7	122.00	3.711		
10,900.0	7,566.0	10,840.5	7,435.0	66.9	68.9	-73.20	-3,554.1	1,275.0	453.2	327.9	125.30	3.617		
11,000.0	7,566.0	10,940.5	7,435.0	68.6	70.5	-73.22	-3,654.1	1,275.0	453.7	325.1	128.60	3.528		
11,100.0	7,566.0	11,040.5	7,435.0	70.3	72.2	-73.24	-3,754.1	1,275.0	454.2	322.3	131.91	3.443		
11,200.0	7,566.0	11,140.5	7,435.0	72.0	73.8	-73.26	-3,854.1	1,275.0	454.7	319.5	135.22	3.363		
11,300.0	7,566.0	11,240.5	7,435.0	73.7	75.5	-73.27	-3,954.0	1,275.0	455.2	316.7	138.54	3.286		
11,400.0	7,566.0	11,340.5	7,435.0	75.4	77.1	-73.29	-4,054.0	1,275.0	455.7	313.8	141.86	3.212		
11,500.0	7,566.0	11,440.5	7,435.0	77.1	78.8	-73.31	-4,154.0	1,275.0	456.2	311.0	145.18	3.142		
11,600.0	7,566.0	11,540.5	7,435.0	78.8	80.4	-73.33	-4,254.0	1,275.0	456.7	308.2	148.51	3.075		
11,700.0	7,566.0	11,640.5	7,435.0	80.5	82.1	-73.35	-4,354.0	1,275.0	457.2	305.3	151.84	3.011		
11,800.0	7,566.0	11,740.5	7,435.0	82.2	83.8	-73.37	-4,454.0	1,275.0	457.7	302.5	155.17	2.949		
11,900.0	7,566.0	11,840.5	7,435.0	83.9	85.4	-73.39	-4,554.0	1,275.0	458.2	299.7	158.50	2.891		
12,000.0	7,566.0	11,940.5	7,435.0	85.6	87.1	-73.40	-4,654.0	1,275.0	458.7	296.8	161.84	2.834		
12,100.0	7,566.0	12,040.5	7,435.0	87.3	88.8	-73.42	-4,754.0	1,275.0	459.2	294.0	165.18	2.780		
12,125.7	7,566.0	12,057.8	7,435.0	87.7	89.1	-73.43	-4,771.3	1,275.0	459.4	293.5	165.89	2.769 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1K-19H-B2681 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	87.92	1.1	29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	87.92	1.1	29.9	29.9	29.6	0.30	98.584		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	1.1	29.9	29.9	29.3	0.65	45.865		
300.0	300.0	300.0	300.0	0.5	0.5	87.92	1.1	29.9	29.9	28.9	1.00	29.884 CC, ES		
400.0	400.0	398.9	398.9	0.7	0.7	87.92	1.2	31.6	31.7	30.3	1.35	23.426		
500.0	500.0	497.6	497.5	0.8	0.9	87.92	1.3	36.7	36.8	35.1	1.71	21.483		
600.0	600.0	595.8	595.3	1.0	1.1	87.92	1.6	45.2	45.4	43.3	2.10	21.605		
700.0	700.0	693.6	692.3	1.2	1.3	0.46	2.1	56.9	55.7	53.3	2.39	23.342		
800.0	799.8	791.0	788.6	1.4	1.6	0.50	2.6	71.9	65.9	63.2	2.73	24.137		
900.0	899.5	888.1	884.0	1.6	2.0	0.54	3.2	90.0	76.0	72.9	3.07	24.738		
1,000.0	998.7	987.4	981.1	1.8	2.3	0.60	4.0	110.6	84.9	81.5	3.42	24.851		
1,100.0	1,097.9	1,087.0	1,078.5	2.1	2.7	0.65	4.7	131.4	93.3	89.5	3.77	24.751		
1,200.0	1,197.1	1,186.7	1,176.0	2.3	3.1	0.69	5.5	152.1	101.6	97.5	4.12	24.668		
1,300.0	1,296.4	1,286.3	1,273.5	2.6	3.5	0.73	6.2	172.8	109.9	105.5	4.47	24.599		
1,400.0	1,395.6	1,386.0	1,371.0	2.8	3.9	0.76	7.0	193.5	118.3	113.4	4.82	24.541		
1,500.0	1,494.8	1,485.6	1,468.4	3.1	4.3	0.78	7.7	214.2	126.6	121.4	5.17	24.491		
1,600.0	1,594.0	1,585.3	1,565.9	3.4	4.7	0.81	8.5	234.9	134.9	129.4	5.52	24.447		
1,700.0	1,693.2	1,684.9	1,663.4	3.6	5.1	0.83	9.2	255.6	143.2	137.4	5.87	24.409		
1,800.0	1,792.4	1,784.6	1,760.9	3.9	5.5	0.85	9.9	276.3	151.6	145.4	6.22	24.375		
1,900.0	1,891.6	1,884.2	1,858.3	4.2	5.9	0.86	10.7	297.1	159.9	153.3	6.57	24.345		
2,000.0	1,990.8	1,983.9	1,955.8	4.5	6.3	0.88	11.4	317.8	168.2	161.3	6.92	24.319		
2,100.0	2,090.0	2,083.5	2,053.3	4.7	6.7	0.89	12.2	338.5	176.6	169.3	7.27	24.295		
2,200.0	2,189.2	2,183.2	2,150.7	5.0	7.1	0.90	12.9	359.2	184.9	177.3	7.62	24.273		
2,300.0	2,288.4	2,282.8	2,248.2	5.3	7.5	0.91	13.7	379.9	193.2	185.2	7.97	24.253		
2,400.0	2,387.6	2,382.5	2,345.7	5.6	7.9	0.92	14.4	400.6	201.5	193.2	8.32	24.235		
2,500.0	2,486.8	2,482.1	2,443.2	5.8	8.4	0.93	15.2	421.3	209.9	201.2	8.67	24.218		
2,600.0	2,586.0	2,581.8	2,540.6	6.1	8.8	0.94	15.9	442.0	218.2	209.2	9.02	24.203		
2,700.0	2,685.2	2,681.4	2,638.1	6.4	9.2	0.95	16.6	462.8	226.5	217.2	9.36	24.188		
2,800.0	2,784.4	2,781.1	2,735.6	6.7	9.6	0.96	17.4	483.5	234.9	225.1	9.71	24.175		
2,900.0	2,883.6	2,880.8	2,833.1	7.0	10.0	0.96	18.1	504.2	243.2	233.1	10.06	24.163		
3,000.0	2,982.8	2,980.4	2,930.5	7.2	10.4	0.97	18.9	524.9	251.5	241.1	10.41	24.152		
3,100.0	3,082.0	3,080.1	3,028.0	7.5	10.8	0.98	19.6	545.6	259.8	249.1	10.76	24.141		
3,200.0	3,181.3	3,179.7	3,125.5	7.8	11.2	0.98	20.4	566.3	268.2	257.1	11.11	24.131		
3,300.0	3,280.5	3,279.4	3,223.0	8.1	11.6	0.99	21.1	587.0	276.5	265.0	11.46	24.122		
3,400.0	3,379.7	3,379.0	3,320.4	8.4	12.0	0.99	21.9	607.7	284.8	273.0	11.81	24.113		
3,500.0	3,478.9	3,478.7	3,417.9	8.6	12.4	1.00	22.6	628.5	293.1	281.0	12.16	24.105		
3,600.0	3,578.1	3,578.3	3,515.4	8.9	12.8	1.00	23.3	649.2	301.5	289.0	12.51	24.097		
3,700.0	3,677.3	3,678.0	3,612.8	9.2	13.2	1.01	24.1	669.9	309.8	296.9	12.86	24.090		
3,800.0	3,776.5	3,777.6	3,710.3	9.5	13.6	1.01	24.8	690.6	318.1	304.9	13.21	24.083		
3,900.0	3,875.7	3,877.3	3,807.8	9.8	14.0	1.01	25.6	711.3	326.5	312.9	13.56	24.077		
4,000.0	3,974.9	3,976.9	3,905.3	10.0	14.5	1.02	26.3	732.0	334.8	320.9	13.91	24.070		
4,100.0	4,074.1	4,076.6	4,002.7	10.3	14.9	1.02	27.1	752.7	343.1	328.9	14.26	24.064		
4,200.0	4,173.3	4,176.2	4,100.2	10.6	15.3	1.02	27.8	773.5	351.4	336.8	14.61	24.059		
4,300.0	4,272.5	4,275.9	4,197.7	10.9	15.7	1.03	28.6	794.2	359.8	344.8	14.96	24.053		
4,400.0	4,371.7	4,375.5	4,295.2	11.2	16.1	1.03	29.3	814.9	368.1	352.8	15.31	24.048		
4,500.0	4,470.9	4,475.2	4,392.6	11.4	16.5	1.03	30.1	835.6	376.4	360.8	15.66	24.043		
4,600.0	4,570.1	4,574.8	4,490.1	11.7	16.9	1.04	30.8	856.3	384.8	368.8	16.01	24.039		
4,700.0	4,669.3	4,674.5	4,587.6	12.0	17.3	1.04	31.5	877.0	393.1	376.7	16.36	24.034		
4,800.0	4,768.5	4,774.2	4,685.1	12.3	17.7	1.04	32.3	897.7	401.4	384.7	16.70	24.030		
4,900.0	4,867.7	4,873.8	4,782.5	12.6	18.1	1.04	33.0	918.4	409.7	392.7	17.05	24.026		
5,000.0	4,967.0	4,973.5	4,880.0	12.8	18.5	1.05	33.8	939.2	418.1	400.7	17.40	24.022		
5,100.0	5,066.2	5,073.1	4,977.5	13.1	18.9	1.05	34.5	959.9	426.4	408.6	17.75	24.018		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1K-19H-B2681 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							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	5,165.4	5,172.8	5,075.0	13.4	19.4	1.05	35.3	980.6	434.7	416.6	18.10	24.014		
5,300.0	5,264.6	5,272.4	5,172.4	13.7	19.8	1.05	36.0	1,001.3	443.1	424.6	18.45	24.011		
5,400.0	5,363.8	5,372.1	5,269.9	14.0	20.2	1.05	36.8	1,022.0	451.4	432.6	18.80	24.008		
5,500.0	5,463.0	5,471.7	5,367.4	14.2	20.6	1.06	37.5	1,042.7	459.7	440.6	19.15	24.004		
5,600.0	5,562.2	5,571.4	5,464.8	14.5	21.0	1.06	38.2	1,063.4	468.0	448.5	19.50	24.001		
5,700.0	5,661.4	5,671.0	5,562.3	14.8	21.4	1.06	39.0	1,084.1	476.4	456.5	19.85	23.998		
5,800.0	5,760.6	5,770.7	5,659.8	15.1	21.8	1.06	39.7	1,104.9	484.7	464.5	20.20	23.995		
5,900.0	5,859.8	5,870.3	5,757.3	15.4	22.2	1.06	40.5	1,125.6	493.0	472.5	20.55	23.993		
6,000.0	5,959.0	5,970.0	5,854.7	15.7	22.6	1.07	41.2	1,146.3	501.4	480.5	20.90	23.990		
6,100.0	6,058.2	6,069.6	5,952.2	15.9	23.0	1.07	42.0	1,167.0	509.7	488.4	21.25	23.987		
6,200.0	6,157.4	6,169.3	6,049.7	16.2	23.4	1.07	42.7	1,187.7	518.0	496.4	21.60	23.985		
6,300.0	6,256.6	6,268.9	6,147.2	16.5	23.8	1.07	43.5	1,208.4	526.3	504.4	21.95	23.982		
6,400.0	6,355.8	6,368.6	6,244.6	16.8	24.2	1.07	44.2	1,229.1	534.7	512.4	22.30	23.980		
6,500.0	6,455.0	6,468.2	6,342.1	17.1	24.7	1.07	44.9	1,249.9	543.0	520.3	22.65	23.978		
6,600.0	6,554.2	6,567.9	6,439.6	17.3	25.1	1.07	45.7	1,270.6	551.3	528.3	23.00	23.975		
6,700.0	6,653.4	6,667.6	6,537.1	17.6	25.5	1.08	46.4	1,291.3	559.6	536.3	23.34	23.973		
6,800.0	6,752.6	6,767.2	6,634.5	17.9	25.9	1.08	47.2	1,312.0	568.0	544.3	23.69	23.971		
6,900.0	6,851.9	6,866.9	6,732.0	18.2	26.3	0.59	47.9	1,332.7	576.3	552.3	24.04	23.969		
7,000.0	6,950.8	6,966.2	6,829.1	18.5	26.7	-48.35	48.7	1,353.3	584.9	560.5	24.39	23.981		
7,100.0	7,047.8	7,067.4	6,928.1	18.7	27.1	-67.64	46.1	1,374.4	594.0	569.3	24.75	24.003		
7,200.0	7,141.2	7,172.5	7,029.4	19.0	27.5	-76.24	29.0	1,395.9	603.5	578.3	25.20	23.949		
7,300.0	7,228.9	7,280.7	7,130.0	19.3	27.9	-81.11	-4.1	1,417.3	612.9	587.1	25.79	23.768		
7,400.0	7,309.4	7,392.0	7,227.3	19.7	28.4	-84.26	-54.0	1,437.9	622.0	595.4	26.59	23.397		
7,500.0	7,381.1	7,506.4	7,318.1	20.1	28.8	-86.46	-120.7	1,457.2	630.5	602.9	27.62	22.828		
7,600.0	7,442.5	7,623.7	7,399.2	20.6	29.4	-88.02	-203.4	1,474.5	638.1	609.2	28.92	22.062		
7,700.0	7,492.5	7,743.6	7,467.3	21.2	29.9	-89.09	-300.8	1,489.0	644.4	614.0	30.49	21.134		
7,800.0	7,530.1	7,865.4	7,519.3	22.0	30.6	-89.76	-410.2	1,500.0	649.3	617.0	32.33	20.086		
7,900.0	7,554.6	7,988.5	7,552.7	22.8	31.4	-90.07	-528.3	1,507.1	652.5	618.1	34.39	18.973		
8,000.0	7,565.4	8,112.0	7,565.8	23.7	32.2	-90.05	-651.0	1,509.9	653.9	617.2	36.65	17.842		
8,100.0	7,566.0	8,215.1	7,566.0	24.7	33.0	-90.00	-754.1	1,509.9	654.4	615.2	39.15	16.716		
8,200.0	7,566.0	8,315.1	7,566.0	25.8	33.8	-90.00	-854.1	1,509.9	654.9	613.0	41.87	15.642		
8,300.0	7,566.0	8,415.1	7,566.0	27.0	34.7	-90.00	-954.1	1,509.9	655.4	610.7	44.70	14.662		
8,400.0	7,566.0	8,515.1	7,566.0	28.2	35.7	-90.00	-1,054.1	1,509.9	655.9	608.3	47.62	13.773		
8,500.0	7,566.0	8,615.1	7,566.0	29.5	36.7	-90.00	-1,154.1	1,509.9	656.4	605.8	50.62	12.968		
8,600.0	7,566.0	8,715.1	7,566.0	30.8	37.7	-90.00	-1,254.1	1,509.9	656.9	603.3	53.68	12.239		
8,700.0	7,566.0	8,815.1	7,566.0	32.2	38.8	-90.00	-1,354.1	1,509.9	657.5	600.7	56.79	11.577		
8,800.0	7,566.0	8,915.1	7,566.0	33.6	40.0	-90.00	-1,454.1	1,509.9	658.0	598.0	59.94	10.977		
8,900.0	7,566.0	9,015.1	7,566.0	35.0	41.2	-90.00	-1,554.1	1,509.9	658.5	595.3	63.13	10.430		
9,000.0	7,566.0	9,115.1	7,566.0	36.5	42.5	-90.00	-1,654.1	1,509.9	659.0	592.6	66.36	9.931		
9,100.0	7,566.0	9,215.1	7,566.0	37.9	43.7	-90.00	-1,754.1	1,509.9	659.5	589.9	69.61	9.475		
9,200.0	7,566.0	9,315.1	7,566.0	39.4	45.0	-90.00	-1,854.1	1,509.9	660.0	587.1	72.88	9.056		
9,300.0	7,566.0	9,415.1	7,566.0	41.0	46.4	-90.00	-1,954.1	1,509.9	660.5	584.4	76.18	8.671		
9,400.0	7,566.0	9,515.1	7,566.0	42.5	47.8	-90.00	-2,054.1	1,509.9	661.1	581.6	79.49	8.316		
9,500.0	7,566.0	9,615.1	7,566.0	44.1	49.1	-90.00	-2,154.1	1,509.9	661.6	578.8	82.82	7.988		
9,600.0	7,566.0	9,715.1	7,566.0	45.7	50.6	-90.00	-2,254.1	1,509.9	662.1	575.9	86.17	7.684		
9,700.0	7,566.0	9,815.1	7,566.0	47.2	52.0	-90.00	-2,354.1	1,509.9	662.6	573.1	89.53	7.401		
9,800.0	7,566.0	9,915.1	7,566.0	48.8	53.5	-90.00	-2,454.1	1,509.9	663.1	570.2	92.89	7.139		
9,900.0	7,566.0	10,015.1	7,566.0	50.4	54.9	-90.00	-2,554.1	1,509.9	663.6	567.4	96.27	6.893		
10,000.0	7,566.0	10,115.1	7,566.0	52.1	56.4	-90.00	-2,654.1	1,509.9	664.2	564.5	99.66	6.664		
10,100.0	7,566.0	10,215.1	7,566.0	53.7	57.9	-90.00	-2,754.1	1,509.9	664.7	561.6	103.05	6.450		
10,200.0	7,566.0	10,315.1	7,566.0	55.3	59.4	-90.00	-2,854.1	1,509.9	665.2	558.7	106.46	6.248		
10,300.0	7,566.0	10,415.1	7,566.0	57.0	61.0	-90.00	-2,954.1	1,509.9	665.7	555.8	109.86	6.059		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1K-19H-B2681 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)				
10,400.0	7,566.0	10,515.1	7,566.0	58.6	62.5	-90.00	-3,054.1	1,509.9	666.2	552.9	113.28	5.881		
10,500.0	7,566.0	10,615.1	7,566.0	60.3	64.1	-90.00	-3,154.1	1,509.9	666.7	550.0	116.70	5.713		
10,600.0	7,566.0	10,715.1	7,566.0	61.9	65.6	-90.00	-3,254.1	1,509.9	667.3	547.1	120.13	5.555		
10,700.0	7,566.0	10,815.1	7,566.0	63.6	67.2	-90.00	-3,354.1	1,509.9	667.8	544.2	123.56	5.405		
10,800.0	7,566.0	10,915.1	7,566.0	65.3	68.8	-90.00	-3,454.1	1,509.9	668.3	541.3	126.99	5.262		
10,900.0	7,566.0	11,015.1	7,566.0	66.9	70.4	-90.00	-3,554.1	1,509.9	668.8	538.4	130.43	5.128		
11,000.0	7,566.0	11,115.1	7,566.0	68.6	72.0	-90.00	-3,654.1	1,509.9	669.3	535.4	133.87	5.000		
11,100.0	7,566.0	11,215.1	7,566.0	70.3	73.6	-90.00	-3,754.1	1,509.9	669.8	532.5	137.32	4.878		
11,200.0	7,566.0	11,315.1	7,566.0	72.0	75.2	-90.00	-3,854.0	1,509.9	670.3	529.6	140.76	4.762		
11,300.0	7,566.0	11,415.1	7,566.0	73.7	76.8	-90.00	-3,954.0	1,509.9	670.9	526.6	144.22	4.652		
11,400.0	7,566.0	11,515.1	7,566.0	75.4	78.4	-90.00	-4,054.0	1,509.9	671.4	523.7	147.67	4.546		
11,500.0	7,566.0	11,615.1	7,566.0	77.1	80.1	-90.00	-4,154.0	1,509.9	671.9	520.8	151.13	4.446		
11,600.0	7,566.0	11,715.1	7,566.0	78.8	81.7	-90.00	-4,254.0	1,509.9	672.4	517.8	154.59	4.350		
11,700.0	7,566.0	11,815.1	7,566.0	80.5	83.4	-90.00	-4,354.0	1,509.9	672.9	514.9	158.05	4.258		
11,800.0	7,566.0	11,915.1	7,566.0	82.2	85.0	-90.00	-4,454.0	1,509.9	673.4	511.9	161.51	4.170		
11,900.0	7,566.0	12,015.1	7,566.0	83.9	86.6	-90.00	-4,554.0	1,509.9	674.0	509.0	164.97	4.085		
12,000.0	7,566.0	12,115.1	7,566.0	85.6	88.3	-90.00	-4,654.0	1,509.9	674.5	506.0	168.44	4.004		
12,100.0	7,566.0	12,215.1	7,566.0	87.3	90.0	-90.00	-4,754.0	1,509.9	675.0	503.1	171.91	3.926		
12,125.7	7,566.0	12,228.3	7,566.0	87.7	90.2	-90.00	-4,767.3	1,509.9	675.2	502.7	172.58	3.912 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	87.92	1.5	40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.92	1.5	40.0	40.0	39.7	0.30	131.752		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	1.5	40.0	40.0	39.4	0.65	61.296 CC, ES		
300.0	300.0	298.6	298.6	0.5	0.5	87.91	1.5	41.7	41.7	40.7	1.00	41.608		
400.0	400.0	396.9	396.8	0.7	0.7	87.90	1.7	46.7	46.9	45.5	1.37	34.245		
500.0	500.0	494.8	494.3	0.8	0.9	87.88	2.0	55.1	55.5	53.7	1.76	31.447		
600.0	600.0	592.0	590.8	1.0	1.2	87.86	2.5	66.7	67.4	65.2	2.20	30.704		
700.0	700.0	688.6	686.2	1.2	1.5	0.37	3.1	81.5	81.0	78.6	2.38	34.059		
800.0	799.8	784.7	780.7	1.4	1.8	0.37	3.8	99.4	94.5	91.7	2.72	34.728		
900.0	899.5	880.5	874.1	1.6	2.2	0.38	4.6	120.4	107.8	104.7	3.06	35.222		
1,000.0	998.7	978.6	969.3	1.8	2.7	0.40	5.5	144.2	120.4	117.0	3.41	35.347		
1,100.0	1,097.9	1,077.9	1,065.6	2.1	3.1	0.42	6.5	168.5	132.4	128.7	3.75	35.268		
1,200.0	1,197.1	1,177.2	1,161.8	2.3	3.6	0.43	7.4	192.7	144.5	140.4	4.10	35.204		
1,300.0	1,296.4	1,276.4	1,258.1	2.6	4.0	0.44	8.4	217.0	156.6	152.1	4.45	35.152		
1,400.0	1,395.6	1,375.7	1,354.3	2.8	4.5	0.45	9.3	241.3	168.6	163.8	4.80	35.108		
1,500.0	1,494.8	1,475.0	1,450.6	3.1	5.0	0.46	10.3	265.5	180.7	175.5	5.15	35.070		
1,600.0	1,594.0	1,574.2	1,546.8	3.4	5.4	0.47	11.2	289.8	192.8	187.3	5.50	35.038		
1,700.0	1,693.2	1,673.5	1,643.1	3.6	5.9	0.48	12.1	314.1	204.8	199.0	5.85	35.010		
1,800.0	1,792.4	1,772.8	1,739.3	3.9	6.4	0.48	13.1	338.3	216.9	210.7	6.20	34.985		
1,900.0	1,891.6	1,872.1	1,835.6	4.2	6.8	0.49	14.0	362.6	229.0	222.4	6.55	34.963		
2,000.0	1,990.8	1,971.3	1,931.8	4.5	7.3	0.49	15.0	386.8	241.0	234.1	6.90	34.944		
2,100.0	2,090.0	2,070.6	2,028.1	4.7	7.7	0.50	15.9	411.1	253.1	245.8	7.25	34.927		
2,200.0	2,189.2	2,169.9	2,124.3	5.0	8.2	0.50	16.9	435.4	265.2	257.6	7.60	34.911		
2,300.0	2,288.4	2,269.1	2,220.6	5.3	8.7	0.51	17.8	459.6	277.2	269.3	7.94	34.897		
2,400.0	2,387.6	2,368.4	2,316.9	5.6	9.2	0.51	18.8	483.9	289.3	281.0	8.29	34.884		
2,500.0	2,486.8	2,467.7	2,413.1	5.8	9.6	0.51	19.7	508.2	301.4	292.7	8.64	34.872		
2,600.0	2,586.0	2,566.9	2,509.4	6.1	10.1	0.52	20.7	532.4	313.4	304.4	8.99	34.862		
2,700.0	2,685.2	2,666.2	2,605.6	6.4	10.6	0.52	21.6	556.7	325.5	316.1	9.34	34.852		
2,800.0	2,784.4	2,765.5	2,701.9	6.7	11.0	0.52	22.6	580.9	337.5	327.9	9.69	34.843		
2,900.0	2,883.6	2,864.7	2,798.1	7.0	11.5	0.52	23.5	605.2	349.6	339.6	10.04	34.834		
3,000.0	2,982.8	2,964.0	2,894.4	7.2	12.0	0.52	24.4	629.5	361.7	351.3	10.39	34.826		
3,100.0	3,082.0	3,063.3	2,990.6	7.5	12.4	0.53	25.4	653.7	373.7	363.0	10.73	34.819		
3,200.0	3,181.3	3,162.6	3,086.9	7.8	12.9	0.53	26.3	678.0	385.8	374.7	11.08	34.812		
3,300.0	3,280.5	3,261.8	3,183.1	8.1	13.4	0.53	27.3	702.2	397.9	386.4	11.43	34.806		
3,400.0	3,379.7	3,361.1	3,279.4	8.4	13.8	0.53	28.2	726.5	409.9	398.2	11.78	34.799		
3,500.0	3,478.9	3,460.4	3,375.7	8.6	14.3	0.53	29.2	750.8	422.0	409.9	12.13	34.794		
3,600.0	3,578.1	3,559.6	3,471.9	8.9	14.8	0.54	30.1	775.0	434.1	421.6	12.48	34.789		
3,700.0	3,677.3	3,658.9	3,568.2	9.2	15.2	0.54	31.1	799.3	446.1	433.3	12.83	34.784		
3,800.0	3,776.5	3,758.2	3,664.4	9.5	15.7	0.54	32.0	823.6	458.2	445.0	13.17	34.779		
3,900.0	3,875.7	3,857.4	3,760.7	9.8	16.2	0.54	33.0	847.8	470.3	456.7	13.52	34.774		
4,000.0	3,974.9	3,956.7	3,856.9	10.0	16.6	0.54	33.9	872.1	482.3	468.5	13.87	34.770		
4,100.0	4,074.1	4,056.0	3,953.2	10.3	17.1	0.54	34.9	896.3	494.4	480.2	14.22	34.766		
4,200.0	4,173.3	4,155.2	4,049.4	10.6	17.6	0.54	35.8	920.6	506.5	491.9	14.57	34.762		
4,300.0	4,272.5	4,254.5	4,145.7	10.9	18.1	0.54	36.8	944.9	518.5	503.6	14.92	34.759		
4,400.0	4,371.7	4,353.8	4,241.9	11.2	18.5	0.54	37.7	969.1	530.6	515.3	15.27	34.755		
4,500.0	4,470.9	4,453.1	4,338.2	11.4	19.0	0.55	38.6	993.4	542.7	527.1	15.62	34.752		
4,600.0	4,570.1	4,552.3	4,434.4	11.7	19.5	0.55	39.6	1,017.7	554.7	538.8	15.96	34.749		
4,700.0	4,669.3	4,651.6	4,530.7	12.0	19.9	0.55	40.5	1,041.9	566.8	550.5	16.31	34.746		
4,800.0	4,768.5	4,750.9	4,627.0	12.3	20.4	0.55	41.5	1,066.2	578.9	562.2	16.66	34.743		
4,900.0	4,867.7	4,850.1	4,723.2	12.6	20.9	0.55	42.4	1,090.4	590.9	573.9	17.01	34.740		
5,000.0	4,967.0	4,949.4	4,819.5	12.8	21.3	0.55	43.4	1,114.7	603.0	585.6	17.36	34.737		
5,100.0	5,066.2	5,048.7	4,915.7	13.1	21.8	0.55	44.3	1,139.0	615.1	597.4	17.71	34.735		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	5,165.4	5,147.9	5,012.0	13.4	22.3	0.55	45.3	1,163.2	627.1	609.1	18.06	34.732		
5,300.0	5,264.6	5,247.2	5,108.2	13.7	22.7	0.55	46.2	1,187.5	639.2	620.8	18.40	34.730		
5,400.0	5,363.8	5,346.5	5,204.5	14.0	23.2	0.55	47.2	1,211.7	651.3	632.5	18.75	34.728		
5,500.0	5,463.0	5,445.7	5,300.7	14.2	23.7	0.55	48.1	1,236.0	663.3	644.2	19.10	34.726		
5,600.0	5,562.2	5,545.0	5,397.0	14.5	24.1	0.55	49.1	1,260.3	675.4	655.9	19.45	34.723		
5,700.0	5,661.4	5,644.3	5,493.2	14.8	24.6	0.55	50.0	1,284.5	687.5	667.7	19.80	34.721		
5,800.0	5,760.6	5,743.6	5,589.5	15.1	25.1	0.55	51.0	1,308.8	699.5	679.4	20.15	34.720		
5,900.0	5,859.8	5,842.8	5,685.8	15.4	25.6	0.56	51.9	1,333.1	711.6	691.1	20.50	34.718		
6,000.0	5,959.0	5,942.1	5,782.0	15.7	26.0	0.56	52.8	1,357.3	723.7	702.8	20.85	34.716		
6,100.0	6,058.2	6,041.4	5,878.3	15.9	26.5	0.56	53.8	1,381.6	735.7	714.5	21.19	34.714		
6,200.0	6,157.4	6,140.6	5,974.5	16.2	27.0	0.56	54.7	1,405.8	747.8	726.2	21.54	34.712		
6,300.0	6,256.6	6,239.9	6,070.8	16.5	27.4	0.56	55.7	1,430.1	759.9	738.0	21.89	34.711		
6,400.0	6,355.8	6,339.2	6,167.0	16.8	27.9	0.56	56.6	1,454.4	771.9	749.7	22.24	34.709		
6,500.0	6,455.0	6,438.4	6,263.3	17.1	28.4	0.56	57.6	1,478.6	784.0	761.4	22.59	34.708		
6,600.0	6,554.2	6,537.7	6,359.5	17.3	28.8	0.56	58.5	1,502.9	796.1	773.1	22.94	34.706		
6,700.0	6,653.4	6,637.0	6,455.8	17.6	29.3	0.56	59.5	1,527.2	808.1	784.8	23.29	34.705		
6,800.0	6,752.6	6,736.3	6,552.0	17.9	29.8	0.56	60.4	1,551.4	820.2	796.6	23.63	34.703		
6,900.0	6,851.9	6,835.9	6,648.7	18.2	30.3	0.08	61.3	1,575.8	832.2	808.3	23.98	34.701		
7,000.0	6,950.8	6,939.0	6,748.3	18.5	30.7	-47.79	53.4	1,600.9	844.3	819.9	24.35	34.679		
7,100.0	7,047.8	7,042.0	6,845.6	18.7	31.2	-65.00	30.9	1,625.4	856.1	831.4	24.70	34.656		
7,200.0	7,141.2	7,144.8	6,938.7	19.0	31.6	-71.53	-5.6	1,648.9	867.6	842.5	25.06	34.616		
7,300.0	7,228.9	7,247.4	7,025.6	19.3	32.1	-74.43	-55.4	1,670.8	878.4	853.0	25.45	34.512		
7,400.0	7,309.4	7,349.7	7,104.5	19.7	32.5	-75.80	-117.4	1,690.7	888.5	862.5	25.95	34.238		
7,500.0	7,381.1	7,451.8	7,173.8	20.1	33.0	-76.39	-190.0	1,708.1	897.5	870.8	26.65	33.680		
7,600.0	7,442.5	7,553.6	7,232.4	20.6	33.5	-76.57	-271.9	1,722.9	905.3	877.6	27.65	32.740		
7,700.0	7,492.5	7,655.0	7,278.9	21.2	34.0	-76.52	-361.2	1,734.6	911.7	882.7	29.05	31.384		
7,800.0	7,530.1	7,756.1	7,312.7	22.0	34.6	-76.35	-456.0	1,743.1	916.8	885.9	30.90	29.668		
7,900.0	7,554.6	7,856.7	7,333.1	22.8	35.2	-76.12	-554.3	1,748.3	920.2	887.0	33.20	27.720		
8,000.0	7,565.4	7,956.9	7,340.0	23.7	35.8	-75.86	-654.1	1,750.0	922.0	886.1	35.88	25.698		
8,100.0	7,566.0	8,056.9	7,340.0	24.7	36.4	-75.82	-754.1	1,750.0	922.6	884.1	38.51	23.959		
8,200.0	7,566.0	8,156.9	7,340.0	25.8	37.2	-75.83	-854.1	1,750.0	923.1	881.9	41.12	22.446		
8,300.0	7,566.0	8,256.9	7,340.0	27.0	38.0	-75.84	-954.1	1,750.0	923.6	879.7	43.85	21.062		
8,400.0	7,566.0	8,356.9	7,340.0	28.2	38.8	-75.84	-1,054.1	1,750.0	924.1	877.4	46.66	19.802		
8,500.0	7,566.0	8,456.9	7,340.0	29.5	39.8	-75.85	-1,154.1	1,750.0	924.6	875.0	49.55	18.658		
8,600.0	7,566.0	8,556.9	7,340.0	30.8	40.7	-75.86	-1,254.1	1,750.0	925.1	872.6	52.51	17.619		
8,700.0	7,566.0	8,656.9	7,340.0	32.2	41.8	-75.87	-1,354.1	1,750.0	925.6	870.1	55.51	16.674		
8,800.0	7,566.0	8,756.8	7,340.0	33.6	42.8	-75.87	-1,454.1	1,750.0	926.1	867.5	58.56	15.815		
8,900.0	7,566.0	8,856.8	7,340.0	35.0	44.0	-75.88	-1,554.1	1,750.0	926.6	864.9	61.64	15.032		
9,000.0	7,566.0	8,956.8	7,340.0	36.5	45.1	-75.89	-1,654.1	1,750.0	927.1	862.3	64.76	14.316		
9,100.0	7,566.0	9,056.8	7,340.0	37.9	46.3	-75.90	-1,754.1	1,750.0	927.6	859.7	67.90	13.660		
9,200.0	7,566.0	9,156.8	7,340.0	39.4	47.6	-75.91	-1,854.1	1,750.0	928.1	857.0	71.07	13.058		
9,300.0	7,566.0	9,256.8	7,340.0	41.0	48.8	-75.91	-1,954.1	1,750.0	928.6	854.3	74.27	12.503		
9,400.0	7,566.0	9,356.8	7,340.0	42.5	50.1	-75.92	-2,054.1	1,750.0	929.1	851.6	77.47	11.992		
9,500.0	7,566.0	9,456.8	7,340.0	44.1	51.4	-75.93	-2,154.1	1,750.0	929.6	848.9	80.70	11.519		
9,600.0	7,566.0	9,556.8	7,340.0	45.7	52.8	-75.94	-2,254.1	1,750.0	930.1	846.1	83.94	11.080		
9,700.0	7,566.0	9,656.8	7,340.0	47.2	54.2	-75.94	-2,354.1	1,750.0	930.6	843.4	87.19	10.673		
9,800.0	7,566.0	9,756.8	7,340.0	48.8	55.6	-75.95	-2,454.1	1,750.0	931.1	840.6	90.46	10.293		
9,900.0	7,566.0	9,856.8	7,340.0	50.4	57.0	-75.96	-2,554.1	1,750.0	931.6	837.8	93.73	9.939		
10,000.0	7,566.0	9,956.8	7,340.0	52.1	58.4	-75.97	-2,654.1	1,750.0	932.1	835.1	97.02	9.607		
10,100.0	7,566.0	10,056.8	7,340.0	53.7	59.9	-75.98	-2,754.1	1,750.0	932.6	832.3	100.31	9.297		
10,200.0	7,566.0	10,156.8	7,340.0	55.3	61.3	-75.98	-2,854.1	1,750.0	933.1	829.5	103.61	9.006		
10,300.0	7,566.0	10,256.8	7,340.0	57.0	62.8	-75.99	-2,954.1	1,750.0	933.6	826.7	106.92	8.732		

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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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)				
10,400.0	7,566.0	10,356.8	7,340.0	58.6	64.3	-76.00	-3,054.1	1,750.0	934.1	823.8	110.23	8.474		
10,500.0	7,566.0	10,456.8	7,340.0	60.3	65.8	-76.01	-3,154.1	1,750.0	934.6	821.0	113.55	8.230		
10,600.0	7,566.0	10,556.8	7,340.0	61.9	67.3	-76.01	-3,254.1	1,750.0	935.1	818.2	116.88	8.001		
10,700.0	7,566.0	10,656.8	7,340.0	63.6	68.9	-76.02	-3,354.1	1,750.0	935.6	815.4	120.21	7.783		
10,800.0	7,566.0	10,756.8	7,340.0	65.3	70.4	-76.03	-3,454.1	1,750.0	936.1	812.5	123.54	7.577		
10,900.0	7,566.0	10,856.8	7,340.0	66.9	72.0	-76.04	-3,554.1	1,750.0	936.6	809.7	126.88	7.382		
11,000.0	7,566.0	10,956.8	7,340.0	68.6	73.5	-76.04	-3,654.1	1,750.0	937.1	806.9	130.22	7.196		
11,100.0	7,566.0	11,056.8	7,340.0	70.3	75.1	-76.05	-3,754.1	1,750.0	937.6	804.0	133.57	7.020		
11,200.0	7,566.0	11,166.1	7,340.0	72.0	76.8	-76.06	-3,863.3	1,749.7	937.8	800.8	137.07	6.842		
11,300.0	7,566.0	11,271.8	7,340.0	73.7	78.5	-76.04	-3,969.0	1,748.1	936.8	796.3	140.50	6.668		
11,400.0	7,566.0	11,371.8	7,340.0	75.4	80.1	-76.02	-4,069.0	1,746.5	935.7	791.9	143.85	6.505		
11,500.0	7,566.0	11,471.8	7,340.0	77.1	81.7	-76.01	-4,169.0	1,744.8	934.6	787.5	147.19	6.350		
11,600.0	7,566.0	11,571.8	7,340.0	78.8	83.3	-75.99	-4,268.9	1,743.2	933.6	783.0	150.53	6.202		
11,700.0	7,566.0	11,671.7	7,340.0	80.5	84.9	-75.97	-4,368.9	1,741.5	932.5	778.6	153.88	6.060		
11,800.0	7,566.0	11,771.7	7,340.0	82.2	86.5	-75.96	-4,468.9	1,739.9	931.4	774.1	157.23	5.924		
11,900.0	7,566.0	11,871.7	7,340.0	83.9	88.1	-75.94	-4,568.9	1,738.3	930.3	769.7	160.58	5.793		
12,000.0	7,566.0	11,971.7	7,340.0	85.6	89.7	-75.92	-4,668.9	1,736.6	929.2	765.2	163.93	5.668		
12,100.0	7,566.0	12,065.8	7,340.0	87.3	91.2	-75.91	-4,762.9	1,735.1	928.1	760.9	167.18	5.551		
12,104.2	7,566.0	12,065.8	7,340.0	87.3	91.2	-75.91	-4,762.9	1,735.1	928.1	760.8	167.26	5.549		
12,125.7	7,566.0	12,065.8	7,340.0	87.7	91.2	-75.91	-4,762.9	1,735.1	928.3	760.7	167.62	5.538 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design										S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 2 - ENCANA - GYRO				Offset Site Error:		0.0 ft
Survey Program:										100-Geolink MWD				Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Uncertainty Axis	Factor				
10,600.0	7,566.0	7,581.5	7,579.0	61.9	13.5	90.47	-4,221.7	597.1	998.3	925.0	73.29	13.620				
10,700.0	7,566.0	7,581.2	7,578.7	63.6	13.4	90.39	-4,221.7	597.1	901.5	826.5	75.01	12.019				
10,800.0	7,566.0	7,580.9	7,578.3	65.3	13.4	90.32	-4,221.7	597.1	805.6	728.9	76.73	10.500				
10,900.0	7,566.0	7,580.6	7,578.0	66.9	13.4	90.24	-4,221.7	597.2	710.8	632.3	78.44	9.061				
11,000.0	7,566.0	7,580.2	7,577.7	68.6	13.4	90.16	-4,221.7	597.2	617.6	537.5	80.17	7.704				
11,100.0	7,566.0	7,579.9	7,577.4	70.3	13.4	90.09	-4,221.7	597.2	527.0	445.1	81.89	6.435				
11,200.0	7,566.0	7,579.6	7,577.0	72.0	13.4	90.01	-4,221.7	597.2	440.4	356.7	83.61	5.267				
11,300.0	7,566.0	7,579.3	7,576.7	73.7	13.4	89.93	-4,221.7	597.2	360.7	275.4	85.34	4.227				
11,400.0	7,566.0	7,578.9	7,576.4	75.4	13.4	89.86	-4,221.7	597.2	293.9	206.8	87.06	3.375				
11,500.0	7,566.0	7,578.6	7,576.1	77.1	13.4	89.78	-4,221.7	597.2	250.2	161.4	88.79	2.818				
11,568.9	7,566.0	7,578.4	7,575.9	78.2	13.4	89.73	-4,221.7	597.2	240.5	150.5	89.98	2.673 CC, ES, SF				
11,600.0	7,566.0	7,578.3	7,575.8	78.8	13.4	89.70	-4,221.7	597.2	242.5	152.0	90.52	2.679				
11,700.0	7,566.0	7,578.0	7,575.4	80.5	13.4	89.63	-4,221.7	597.2	274.0	181.7	92.25	2.970				
11,800.0	7,566.0	7,577.7	7,575.1	82.2	13.4	89.55	-4,221.7	597.2	333.6	239.6	93.98	3.549				
11,900.0	7,566.0	7,577.3	7,574.8	83.9	13.4	89.47	-4,221.7	597.2	409.3	313.6	95.71	4.276				
12,000.0	7,566.0	7,577.0	7,574.5	85.6	13.4	89.40	-4,221.7	597.2	493.7	396.3	97.44	5.066				
12,100.0	7,566.0	7,576.7	7,574.1	87.3	13.4	89.32	-4,221.7	597.2	583.1	483.9	99.18	5.879				
12,125.7	7,566.0	7,576.6	7,574.1	87.7	13.4	89.30	-4,221.7	597.2	606.5	506.9	99.62	6.088				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 31-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	-150.70	-708.5	-397.6	812.5					
100.0	100.0	89.1	89.1	0.2	0.2	-150.73	-709.0	-397.4	812.8	812.4	0.31	2,640.900 ES		
200.0	200.0	186.9	186.9	0.3	0.3	-150.79	-710.1	-396.9	813.5	812.9	0.65	1,244.902		
300.0	300.0	287.1	287.1	0.5	0.5	-150.85	-711.2	-396.7	814.4	813.4	1.00	811.570		
400.0	400.0	391.0	391.0	0.7	0.7	-150.88	-712.0	-396.6	815.0	813.7	1.36	599.571		
500.0	500.0	491.1	491.1	0.8	0.9	-150.89	-712.3	-396.7	815.4	813.7	1.71	477.192		
600.0	600.0	593.3	593.3	1.0	1.0	-150.89	-712.6	-396.8	815.6	813.5	2.06	395.667		
700.0	700.0	689.7	689.7	1.2	1.2	121.75	-712.6	-397.3	816.8	814.4	2.40	339.757		
800.0	799.8	789.8	789.8	1.4	1.4	122.06	-712.7	-398.3	820.1	817.3	2.76	297.175		
900.0	899.5	889.1	889.1	1.6	1.6	122.55	-712.6	-399.4	825.3	822.2	3.13	263.897		
1,000.0	998.7	986.2	986.2	1.8	1.7	123.25	-712.4	-401.0	832.4	828.9	3.51	237.293		
1,100.0	1,097.9	1,084.4	1,084.3	2.1	1.9	124.08	-712.2	-402.9	840.3	836.4	3.90	215.436		
1,200.0	1,197.1	1,181.9	1,181.8	2.3	2.1	124.91	-711.9	-405.3	848.5	844.2	4.30	197.452		
1,300.0	1,296.4	1,282.1	1,281.9	2.6	2.2	125.78	-711.4	-408.0	856.9	852.2	4.70	182.250		
1,400.0	1,395.6	1,380.0	1,379.8	2.8	2.4	126.62	-710.7	-410.7	865.4	860.3	5.10	169.550		
1,500.0	1,494.8	1,484.1	1,483.8	3.1	2.6	127.50	-709.8	-413.7	873.9	868.4	5.52	158.394		
1,600.0	1,594.0	1,574.8	1,574.5	3.4	2.8	128.27	-708.9	-416.4	882.6	876.7	5.91	149.384		
1,700.0	1,693.2	1,665.1	1,664.7	3.6	2.9	129.04	-708.6	-419.9	892.6	886.3	6.30	141.712		
1,800.0	1,792.4	1,761.2	1,760.8	3.9	3.1	129.86	-708.6	-424.4	903.4	896.7	6.70	134.873		
1,900.0	1,891.6	1,854.8	1,854.2	4.2	3.3	130.67	-708.6	-429.0	914.6	907.5	7.09	128.957		
2,000.0	1,990.8	1,949.5	1,948.8	4.5	3.5	131.45	-709.2	-433.9	926.6	919.2	7.49	123.788		
2,100.0	2,090.0	2,046.4	2,045.6	4.7	3.7	132.23	-709.8	-439.1	939.0	931.1	7.88	119.138		
2,200.0	2,189.2	2,141.3	2,140.3	5.0	3.8	132.96	-710.8	-444.2	951.8	943.6	8.27	115.074		
2,300.0	2,288.4	2,237.1	2,236.0	5.3	4.0	133.68	-712.1	-449.5	965.2	956.5	8.66	111.429		
2,400.0	2,387.6	2,331.6	2,330.3	5.6	4.2	134.38	-713.4	-455.1	978.9	969.9	9.05	108.199		
2,500.0	2,486.8	2,427.0	2,425.6	5.8	4.4	135.05	-715.4	-460.7	993.3	983.9	9.43	105.309 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 42-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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)				
8,200.0	7,566.0	7,544.4	7,542.1	25.8	13.4	-88.71	-1,779.4	978.9	933.6	899.5	34.06	27.407		
8,300.0	7,566.0	7,544.8	7,542.5	27.0	13.4	-88.87	-1,779.4	978.9	834.7	799.2	35.48	23.522		
8,400.0	7,566.0	7,545.2	7,542.9	28.2	13.4	-89.04	-1,779.4	978.9	736.0	699.1	36.95	19.920		
8,500.0	7,566.0	7,545.5	7,543.2	29.5	13.4	-89.21	-1,779.4	978.9	637.8	599.3	38.45	16.588		
8,600.0	7,566.0	7,545.9	7,543.6	30.8	13.4	-89.38	-1,779.4	978.9	540.2	500.2	39.98	13.512		
8,700.0	7,566.0	7,546.3	7,544.0	32.2	13.4	-89.56	-1,779.4	978.9	443.7	402.2	41.54	10.682		
8,800.0	7,566.0	7,546.7	7,544.4	33.6	13.4	-89.73	-1,779.4	978.9	349.2	306.1	43.12	8.099		
8,900.0	7,566.0	7,547.1	7,544.8	35.0	13.4	-89.90	-1,779.4	978.9	258.9	214.2	44.72	5.790		
9,000.0	7,566.0	7,547.5	7,545.2	36.5	13.4	-90.08	-1,779.4	978.9	179.1	132.8	46.33	3.867		
9,100.0	7,566.0	7,547.9	7,545.6	37.9	13.4	-90.25	-1,779.4	978.9	131.0	83.0	47.96	2.731		
9,124.7	7,566.0	7,548.0	7,545.7	38.3	13.4	-90.29	-1,779.4	978.9	128.6	80.3	48.36	2.660	CC, ES, SF	
9,200.0	7,566.0	7,548.3	7,546.0	39.4	13.4	-90.43	-1,779.4	978.9	149.1	99.5	49.60	3.006		
9,300.0	7,566.0	7,548.7	7,546.4	41.0	13.4	-90.60	-1,779.4	978.9	217.4	166.2	51.24	4.243		
9,400.0	7,566.0	7,549.1	7,546.8	42.5	13.4	-90.78	-1,779.4	978.9	303.9	251.0	52.90	5.744		
9,500.0	7,566.0	7,549.5	7,547.2	44.1	13.4	-90.96	-1,779.4	978.9	396.7	342.2	54.56	7.271		
9,600.0	7,566.0	7,549.9	7,547.6	45.7	13.4	-91.14	-1,779.4	978.9	492.4	436.2	56.24	8.756		
9,700.0	7,566.0	7,550.3	7,548.0	47.2	13.4	-91.32	-1,779.4	978.9	589.5	531.6	57.91	10.180		
9,800.0	7,566.0	7,550.7	7,548.4	48.8	13.4	-91.50	-1,779.4	978.9	687.5	627.9	59.59	11.536		
9,900.0	7,566.0	7,551.1	7,548.8	50.4	13.4	-91.68	-1,779.4	978.9	785.9	724.6	61.28	12.825		
10,000.0	7,566.0	7,551.5	7,549.2	52.1	13.4	-91.86	-1,779.4	978.9	884.7	821.7	62.97	14.051		
10,100.0	7,566.0	7,551.9	7,549.6	53.7	13.4	-92.04	-1,779.4	978.9	983.8	919.1	64.66	15.215		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 43-19 - ENCANA - SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 771-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,700.0	7,566.0	7,805.3	7,561.0	47.2	29.0	-90.42	-3,266.5	1,115.3	951.0	892.3	58.74	16.190	
9,800.0	7,566.0	7,804.9	7,560.6	48.8	29.0	-90.34	-3,266.5	1,115.3	855.7	795.3	60.43	14.161	
9,900.0	7,566.0	7,804.5	7,560.2	50.4	29.0	-90.26	-3,266.5	1,115.3	761.6	699.5	62.12	12.260	
10,000.0	7,566.0	7,804.2	7,559.9	52.1	29.0	-90.18	-3,266.5	1,115.3	669.2	605.3	63.82	10.486	
10,100.0	7,566.0	7,803.8	7,559.5	53.7	29.0	-90.10	-3,266.5	1,115.3	579.3	513.8	65.52	8.842	
10,200.0	7,566.0	7,803.4	7,559.1	55.3	29.0	-90.02	-3,266.5	1,115.3	493.3	426.1	67.22	7.339	
10,300.0	7,566.0	7,803.0	7,558.7	57.0	29.0	-89.94	-3,266.5	1,115.3	413.7	344.7	68.93	6.002	
10,400.0	7,566.0	7,802.6	7,558.3	58.6	29.0	-89.86	-3,266.5	1,115.3	344.8	274.2	70.64	4.882	
10,500.0	7,566.0	7,802.2	7,557.9	60.3	29.0	-89.78	-3,266.6	1,115.3	294.4	222.1	72.35	4.070	
10,600.0	7,566.0	7,801.8	7,557.5	61.9	29.0	-89.70	-3,266.6	1,115.3	272.9	198.8	74.06	3.685	
10,611.1	7,566.0	7,801.8	7,557.5	62.1	29.0	-89.69	-3,266.6	1,115.3	272.7	198.4	74.25	3.672 CC, ES, SF	
10,700.0	7,566.0	7,801.5	7,557.2	63.6	29.0	-89.61	-3,266.6	1,115.3	286.8	211.0	75.78	3.785	
10,800.0	7,566.0	7,801.1	7,556.8	65.3	29.0	-89.53	-3,266.6	1,115.3	331.7	254.2	77.50	4.280	
10,900.0	7,566.0	7,800.7	7,556.4	66.9	29.0	-89.45	-3,266.6	1,115.3	397.3	318.0	79.22	5.015	
11,000.0	7,566.0	7,800.3	7,556.0	68.6	29.0	-89.37	-3,266.6	1,115.3	475.0	394.0	80.94	5.868	
11,100.0	7,566.0	7,799.9	7,555.6	70.3	29.0	-89.29	-3,266.6	1,115.3	559.8	477.1	82.67	6.772	
11,200.0	7,566.0	7,799.6	7,555.3	72.0	29.0	-89.21	-3,266.6	1,115.3	649.0	564.6	84.39	7.690	
11,300.0	7,566.0	7,799.2	7,554.9	73.7	29.0	-89.13	-3,266.6	1,115.3	740.9	654.8	86.12	8.603	
11,400.0	7,566.0	7,798.8	7,554.5	75.4	29.0	-89.05	-3,266.6	1,115.3	834.7	746.9	87.85	9.502	
11,500.0	7,566.0	7,798.4	7,554.1	77.1	29.0	-88.98	-3,266.6	1,115.3	929.8	840.2	89.57	10.380	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS B UNIT 1 - ENCANA - GYRO												Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
3,400.0	3,379.7	3,408.6	3,407.5	8.4	6.1	71.07	-909.7	700.5	996.9	982.8	14.15	70.438	
3,500.0	3,478.9	3,506.2	3,505.0	8.6	6.3	71.96	-907.2	695.7	988.7	974.1	14.63	67.600	
3,600.0	3,578.1	3,604.9	3,603.4	8.9	6.4	72.88	-904.8	690.5	980.7	965.6	15.10	64.930	
3,700.0	3,677.3	3,693.9	3,692.4	9.2	6.6	73.75	-903.1	685.5	973.4	957.8	15.57	62.532	
3,800.0	3,776.5	3,804.6	3,802.9	9.5	6.8	74.86	-901.0	679.2	966.3	950.2	16.07	60.116	
3,900.0	3,875.7	3,906.5	3,904.6	9.8	7.0	75.85	-898.0	673.7	958.6	942.1	16.56	57.878	
4,000.0	3,974.9	4,002.3	4,000.2	10.0	7.2	76.79	-895.1	668.7	951.2	934.2	17.04	55.822	
4,100.0	4,074.1	4,100.0	4,097.7	10.3	7.4	77.74	-892.2	664.0	944.2	926.7	17.52	53.901	
4,200.0	4,173.3	4,203.6	4,201.2	10.6	7.6	78.69	-888.6	660.2	937.3	919.3	18.00	52.069	
4,300.0	4,272.5	4,300.0	4,297.5	10.9	7.8	79.52	-884.7	657.7	930.4	911.9	18.47	50.380	
4,400.0	4,371.7	4,396.2	4,393.6	11.2	8.0	80.34	-881.0	655.5	923.9	904.9	18.93	48.797	
4,500.0	4,470.9	4,491.8	4,489.1	11.4	8.1	81.16	-877.8	653.4	918.0	898.6	19.40	47.327	
4,600.0	4,570.1	4,583.8	4,581.1	11.7	8.3	81.95	-875.0	651.8	912.9	893.0	19.85	45.984	
4,700.0	4,669.3	4,679.7	4,676.9	12.0	8.5	82.74	-872.7	650.6	908.5	888.2	20.31	44.727	
4,800.0	4,768.5	4,778.3	4,775.5	12.3	8.6	83.57	-870.5	649.5	904.6	883.8	20.78	43.534	
4,900.0	4,867.7	4,874.8	4,871.9	12.6	8.8	84.37	-868.3	648.6	900.9	879.7	21.24	42.418	
5,000.0	4,967.0	4,970.9	4,968.0	12.8	9.0	85.18	-866.6	647.7	897.8	876.1	21.70	41.376	
5,100.0	5,066.2	5,067.4	5,064.5	13.1	9.2	86.00	-865.1	646.8	895.2	873.0	22.16	40.400	
5,200.0	5,165.4	5,164.2	5,161.3	13.4	9.3	86.82	-863.9	646.0	893.0	870.4	22.62	39.484	
5,300.0	5,264.6	5,260.7	5,257.8	13.7	9.5	87.64	-862.9	645.2	891.3	868.2	23.07	38.627	
5,400.0	5,363.8	5,359.5	5,356.6	14.0	9.7	88.50	-862.1	644.2	890.0	866.5	23.54	37.816	
5,500.0	5,463.0	5,456.3	5,453.3	14.2	9.8	89.35	-861.4	643.2	889.0	865.0	23.99	37.053	
5,600.0	5,562.2	5,552.5	5,549.5	14.5	10.0	90.18	-861.1	642.3	888.5	864.1	24.45	36.348	
5,682.2	5,643.7	5,633.4	5,630.4	14.8	10.1	90.89	-860.9	641.5	888.5	863.6	24.82	35.798	
5,700.0	5,661.4	5,651.1	5,648.2	14.8	10.2	91.04	-860.9	641.4	888.5	863.6	24.90	35.681	
5,800.0	5,760.6	5,750.3	5,747.4	15.1	10.3	91.88	-860.7	640.9	888.6	863.2	25.35	35.050	
5,900.0	5,859.8	5,849.5	5,846.6	15.4	10.5	92.69	-860.5	640.8	888.9	863.1	25.80	34.451	
6,000.0	5,959.0	5,950.0	5,947.1	15.7	10.7	93.51	-860.3	640.7	889.3	863.1	26.25	33.878	
6,100.0	6,058.2	6,050.5	6,047.6	15.9	10.8	94.32	-859.8	640.8	889.7	863.0	26.70	33.325	
6,200.0	6,157.4	6,152.7	6,149.8	16.2	11.0	95.16	-859.2	640.5	890.2	863.1	27.15	32.791	
6,300.0	6,256.6	6,257.6	6,254.7	16.5	11.2	96.02	-858.0	640.4	890.3	862.7	27.60	32.260	
6,373.0	6,329.0	6,329.8	6,326.9	16.7	11.3	96.59	-856.9	640.6	890.1	862.2	27.92	31.886	
6,400.0	6,355.8	6,354.6	6,351.7	16.8	11.4	96.78	-856.5	640.7	890.2	862.1	28.03	31.756	
6,500.0	6,455.0	6,451.9	6,449.0	17.1	11.5	97.54	-855.7	641.3	890.8	862.3	28.46	31.296	
6,600.0	6,554.2	6,552.2	6,549.2	17.3	11.7	98.31	-854.6	641.8	891.4	862.5	28.90	30.846	
6,700.0	6,653.4	6,647.0	6,644.1	17.6	11.9	99.06	-853.7	642.0	892.3	863.0	29.32	30.431	
6,800.0	6,752.6	6,744.3	6,741.3	17.9	12.0	99.84	-853.3	642.0	894.1	864.3	29.75	30.054	
6,900.0	6,851.9	6,850.5	6,847.5	18.2	12.2	100.18	-852.6	642.4	895.6	865.4	30.18	29.669	
7,000.0	6,950.8	6,950.9	6,947.9	18.5	12.4	52.13	-851.2	643.2	889.5	859.1	30.42	29.241	
7,100.0	7,047.8	7,047.3	7,044.3	18.7	12.6	35.06	-850.1	643.9	870.3	840.0	30.23	28.787	
7,200.0	7,141.2	7,140.0	7,137.0	19.0	12.7	29.19	-848.9	644.5	837.9	808.2	29.65	28.254	
7,300.0	7,228.9	7,222.3	7,219.3	19.3	12.9	27.57	-848.1	644.9	793.6	764.9	28.76	27.595	
7,400.0	7,309.4	7,300.0	7,297.0	19.7	13.0	28.57	-848.0	645.1	738.9	711.2	27.70	26.678	
7,500.0	7,381.1	7,366.1	7,363.1	20.1	13.1	31.78	-848.2	645.1	674.8	648.1	26.69	25.283	
7,600.0	7,442.5	7,425.4	7,422.4	20.6	13.2	37.82	-848.5	644.8	602.6	576.5	26.14	23.053	
7,700.0	7,492.5	7,473.1	7,470.1	21.2	13.3	47.25	-848.8	644.3	524.7	498.2	26.54	19.774	
7,800.0	7,530.1	7,510.0	7,507.0	22.0	13.4	60.33	-849.2	643.6	443.6	415.6	28.06	15.808	
7,900.0	7,554.6	7,535.5	7,532.4	22.8	13.4	74.92	-849.4	643.0	363.1	333.1	29.99	12.108	
8,000.0	7,565.4	7,547.1	7,544.0	23.7	13.4	86.21	-849.5	642.8	289.3	257.9	31.45	9.198	
8,100.0	7,566.0	7,548.4	7,545.3	24.7	13.4	88.47	-849.5	642.7	233.3	200.6	32.74	7.125	
8,196.5	7,566.0	7,549.1	7,546.0	25.8	13.4	88.66	-849.5	642.7	212.4	178.4	34.07	6.235 CC	
8,200.0	7,566.0	7,549.1	7,546.0	25.8	13.4	88.66	-849.5	642.7	212.5	178.3	34.12	6.227 ES, 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 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS B UNIT 1 - ENCANA - GYRO												Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,300.0	7,566.0	7,549.8	7,546.7	27.0	13.4	88.85	-849.5	642.7	236.3	200.8	35.54	6.648	
8,400.0	7,566.0	7,550.5	7,547.4	28.2	13.4	89.04	-849.5	642.7	294.2	257.1	37.01	7.948	
8,500.0	7,566.0	7,551.2	7,548.1	29.5	13.4	89.22	-849.5	642.7	370.4	331.9	38.52	9.618	
8,600.0	7,566.0	7,551.8	7,548.8	30.8	13.4	89.41	-849.5	642.6	456.0	415.9	40.05	11.385	
8,700.0	7,566.0	7,552.5	7,549.5	32.2	13.4	89.59	-849.5	642.6	546.5	504.8	41.61	13.132	
8,800.0	7,566.0	7,553.2	7,550.1	33.6	13.4	89.77	-849.5	642.6	639.8	596.6	43.20	14.811	
8,900.0	7,566.0	7,553.8	7,550.8	35.0	13.4	89.94	-849.5	642.6	734.8	690.0	44.80	16.404	
9,000.0	7,566.0	7,554.5	7,551.4	36.5	13.4	90.12	-849.5	642.6	831.1	784.7	46.41	17.907	
9,100.0	7,566.0	7,555.1	7,552.1	37.9	13.4	90.29	-849.6	642.6	928.1	880.1	48.04	19.319	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1H-19H-B2684
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 1H-19H-B2684	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4978.0ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Regnier 1H-19H-B2684
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.30°

