

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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 1C-19H-B2689					
Well Position	+N/-S	0.0 ft	Northing:	1,290,971.41 ft	Latitude:	40.131200
	+E/-W	0.0 ft	Easting:	3,127,723.30 ft	Longitude:	-105.043237
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 #4			
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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
515.4	2.31	268.81	515.3	0.0	-2.3	2.00	2.00	0.00	268.81	
6,630.7	2.31	268.81	6,625.7	-5.2	-248.5	0.00	0.00	0.00	0.00	
7,754.4	90.00	181.50	7,340.0	-720.4	-295.9	8.00	7.80	-7.77	-87.31	
8,834.4	90.00	181.50	7,340.0	-1,800.0	-324.2	0.00	0.00	0.00	0.00	Interp @ 7340.0 (Reg
9,157.4	90.00	178.27	7,340.0	-2,123.0	-323.6	1.00	0.00	-1.00	-90.00	
10,257.4	90.00	178.27	7,340.0	-3,222.5	-290.4	0.00	0.00	0.00	0.00	
10,420.4	90.00	179.90	7,340.0	-3,385.4	-287.7	1.00	0.00	1.00	90.00	
11,720.4	90.00	179.90	7,340.0	-4,685.4	-285.5	0.00	0.00	0.00	0.00	
11,845.3	90.00	136.53	7,340.0	-4,798.6	-240.2	34.72	0.00	-34.72	-90.00	Regnier 1C PBHL

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Well:	Regnier 1C-19H-B2689	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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	KOP @ 400'
500.0	2.00	268.81	500.0	0.0	-1.7	0.0	2.00	2.00	
515.4	2.31	268.81	515.3	0.0	-2.3	0.0	2.00	2.00	EOB; INC=2.3°
600.0	2.31	268.81	599.9	-0.1	-5.7	0.1	0.00	0.00	
700.0	2.31	268.81	699.8	-0.2	-9.8	0.2	0.00	0.00	
800.0	2.31	268.81	799.7	-0.3	-13.8	0.3	0.00	0.00	
900.0	2.31	268.81	899.7	-0.4	-17.8	0.4	0.00	0.00	
1,000.0	2.31	268.81	999.6	-0.5	-21.8	0.5	0.00	0.00	
1,100.0	2.31	268.81	1,099.5	-0.5	-25.9	0.5	0.00	0.00	
1,200.0	2.31	268.81	1,199.4	-0.6	-29.9	0.6	0.00	0.00	
1,300.0	2.31	268.81	1,299.3	-0.7	-33.9	0.7	0.00	0.00	
1,400.0	2.31	268.81	1,399.3	-0.8	-37.9	0.8	0.00	0.00	
1,500.0	2.31	268.81	1,499.2	-0.9	-42.0	0.9	0.00	0.00	
1,600.0	2.31	268.81	1,599.1	-1.0	-46.0	1.0	0.00	0.00	
1,700.0	2.31	268.81	1,699.0	-1.0	-50.0	1.0	0.00	0.00	
1,800.0	2.31	268.81	1,798.9	-1.1	-54.0	1.1	0.00	0.00	
1,900.0	2.31	268.81	1,898.8	-1.2	-58.1	1.2	0.00	0.00	
2,000.0	2.31	268.81	1,998.8	-1.3	-62.1	1.3	0.00	0.00	
2,100.0	2.31	268.81	2,098.7	-1.4	-66.1	1.4	0.00	0.00	
2,200.0	2.31	268.81	2,198.6	-1.5	-70.1	1.5	0.00	0.00	
2,300.0	2.31	268.81	2,298.5	-1.5	-74.2	1.5	0.00	0.00	
2,400.0	2.31	268.81	2,398.4	-1.6	-78.2	1.6	0.00	0.00	
2,500.0	2.31	268.81	2,498.4	-1.7	-82.2	1.7	0.00	0.00	
2,600.0	2.31	268.81	2,598.3	-1.8	-86.2	1.8	0.00	0.00	
2,700.0	2.31	268.81	2,698.2	-1.9	-90.2	1.9	0.00	0.00	
2,800.0	2.31	268.81	2,798.1	-2.0	-94.3	2.0	0.00	0.00	
2,900.0	2.31	268.81	2,898.0	-2.0	-98.3	2.0	0.00	0.00	
3,000.0	2.31	268.81	2,998.0	-2.1	-102.3	2.1	0.00	0.00	
3,100.0	2.31	268.81	3,097.9	-2.2	-106.3	2.2	0.00	0.00	
3,200.0	2.31	268.81	3,197.8	-2.3	-110.4	2.3	0.00	0.00	
3,300.0	2.31	268.81	3,297.7	-2.4	-114.4	2.4	0.00	0.00	
3,400.0	2.31	268.81	3,397.6	-2.5	-118.4	2.5	0.00	0.00	
3,500.0	2.31	268.81	3,497.5	-2.5	-122.4	2.5	0.00	0.00	
3,600.0	2.31	268.81	3,597.5	-2.6	-126.5	2.6	0.00	0.00	
3,700.0	2.31	268.81	3,697.4	-2.7	-130.5	2.7	0.00	0.00	
3,800.0	2.31	268.81	3,797.3	-2.8	-134.5	2.8	0.00	0.00	
3,900.0	2.31	268.81	3,897.2	-2.9	-138.5	2.9	0.00	0.00	
4,000.0	2.31	268.81	3,997.1	-3.0	-142.6	3.0	0.00	0.00	
4,100.0	2.31	268.81	4,097.1	-3.1	-146.6	3.1	0.00	0.00	
4,200.0	2.31	268.81	4,197.0	-3.1	-150.6	3.1	0.00	0.00	
4,276.1	2.31	268.81	4,273.0	-3.2	-153.7	3.2	0.00	0.00	Sussex
4,300.0	2.31	268.81	4,296.9	-3.2	-154.6	3.2	0.00	0.00	
4,400.0	2.31	268.81	4,396.8	-3.3	-158.7	3.3	0.00	0.00	
4,500.0	2.31	268.81	4,496.7	-3.4	-162.7	3.4	0.00	0.00	
4,600.0	2.31	268.81	4,596.7	-3.5	-166.7	3.5	0.00	0.00	
4,700.0	2.31	268.81	4,696.6	-3.6	-170.7	3.6	0.00	0.00	
4,800.0	2.31	268.81	4,796.5	-3.6	-174.8	3.6	0.00	0.00	

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Well:	Regnier 1C-19H-B2689	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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
4,819.5	2.31	268.81	4,816.0	-3.7	-175.6	3.7	0.00	0.00	Shannon
4,900.0	2.31	268.81	4,896.4	-3.7	-178.8	3.7	0.00	0.00	
5,000.0	2.31	268.81	4,996.3	-3.8	-182.8	3.8	0.00	0.00	
5,100.0	2.31	268.81	5,096.3	-3.9	-186.8	3.9	0.00	0.00	
5,200.0	2.31	268.81	5,196.2	-4.0	-190.9	4.0	0.00	0.00	
5,300.0	2.31	268.81	5,296.1	-4.1	-194.9	4.1	0.00	0.00	
5,400.0	2.31	268.81	5,396.0	-4.1	-198.9	4.1	0.00	0.00	
5,500.0	2.31	268.81	5,495.9	-4.2	-202.9	4.2	0.00	0.00	
5,600.0	2.31	268.81	5,595.8	-4.3	-207.0	4.3	0.00	0.00	
5,700.0	2.31	268.81	5,695.8	-4.4	-211.0	4.4	0.00	0.00	
5,800.0	2.31	268.81	5,795.7	-4.5	-215.0	4.5	0.00	0.00	
5,900.0	2.31	268.81	5,895.6	-4.6	-219.0	4.6	0.00	0.00	
6,000.0	2.31	268.81	5,995.5	-4.6	-223.1	4.6	0.00	0.00	
6,100.0	2.31	268.81	6,095.4	-4.7	-227.1	4.7	0.00	0.00	
6,200.0	2.31	268.81	6,195.4	-4.8	-231.1	4.8	0.00	0.00	
6,300.0	2.31	268.81	6,295.3	-4.9	-235.1	4.9	0.00	0.00	
6,400.0	2.31	268.81	6,395.2	-5.0	-239.2	5.0	0.00	0.00	
6,500.0	2.31	268.81	6,495.1	-5.1	-243.2	5.1	0.00	0.00	
6,600.0	2.31	268.81	6,595.0	-5.1	-247.2	5.1	0.00	0.00	
6,617.0	2.31	268.81	6,612.0	-5.2	-247.9	5.2	0.00	0.00	Teepee Buttes (*if present)
6,630.7	2.31	268.81	6,625.7	-5.2	-248.5	5.2	0.00	0.00	START BUILD/TURN @ 6630' MD
6,700.0	6.10	203.62	6,694.8	-8.6	-251.3	8.6	8.00	5.48	
6,800.0	13.84	190.90	6,793.3	-25.2	-255.7	25.2	8.00	7.74	
6,900.0	21.77	187.28	6,888.4	-55.4	-260.3	55.4	8.00	7.93	
7,000.0	29.73	185.54	6,978.4	-98.5	-265.1	98.5	8.00	7.96	
7,100.0	37.71	184.48	7,061.5	-153.8	-269.9	153.8	8.00	7.98	
7,200.0	45.70	183.75	7,136.1	-220.1	-274.6	220.1	8.00	7.99	
7,245.7	49.35	183.48	7,167.0	-253.8	-276.8	253.8	8.00	7.99	Sharon Springs
7,300.0	53.68	183.20	7,200.8	-296.2	-279.2	296.2	8.00	7.99	
7,400.0	61.68	182.74	7,254.2	-380.5	-283.6	380.5	8.00	7.99	
7,412.5	62.67	182.69	7,260.0	-391.5	-284.1	391.5	8.00	7.99	Niobrara
7,500.0	69.67	182.35	7,295.3	-471.4	-287.6	471.4	8.00	7.99	
7,600.0	77.66	182.00	7,323.4	-567.3	-291.3	567.3	8.00	7.99	
7,634.5	80.42	181.89	7,330.0	-601.1	-292.4	601.1	8.00	7.99	B Chalk
7,700.0	85.65	181.68	7,337.9	-666.1	-294.4	666.1	8.00	7.99	
7,754.4	90.00	181.50	7,340.0	-720.4	-295.9	720.4	8.00	7.99	LP @ 7340' TVD; 90°
7,800.0	90.00	181.50	7,340.0	-766.0	-297.1	766.0	0.00	0.00	
7,900.0	90.00	181.50	7,340.0	-866.0	-299.7	866.0	0.00	0.00	
8,000.0	90.00	181.50	7,340.0	-965.9	-302.4	965.9	0.00	0.00	
8,100.0	90.00	181.50	7,340.0	-1,065.9	-305.0	1,065.9	0.00	0.00	
8,200.0	90.00	181.50	7,340.0	-1,165.8	-307.6	1,165.8	0.00	0.00	
8,300.0	90.00	181.50	7,340.0	-1,265.8	-310.2	1,265.8	0.00	0.00	
8,400.0	90.00	181.50	7,340.0	-1,365.8	-312.8	1,365.8	0.00	0.00	
8,500.0	90.00	181.50	7,340.0	-1,465.7	-315.5	1,465.7	0.00	0.00	
8,600.0	90.00	181.50	7,340.0	-1,565.7	-318.1	1,565.7	0.00	0.00	
8,700.0	90.00	181.50	7,340.0	-1,665.7	-320.7	1,665.7	0.00	0.00	
8,800.0	90.00	181.50	7,340.0	-1,765.6	-323.3	1,765.6	0.00	0.00	
8,834.4	90.00	181.50	7,340.0	-1,800.0	-324.2	1,800.0	0.00	0.00	Start Turn -1.00
8,900.0	90.00	180.84	7,340.0	-1,865.6	-325.6	1,865.6	1.00	0.00	
9,000.0	90.00	179.84	7,340.0	-1,965.6	-326.2	1,965.6	1.00	0.00	
9,100.0	90.00	178.84	7,340.0	-2,065.6	-325.0	2,065.6	1.00	0.00	
9,157.4	90.00	178.27	7,340.0	-2,123.0	-323.6	2,123.0	1.00	0.00	Start 1100.0 hold at 9157.4 MD

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4978.0ft
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Well:	Regnier 1C-19H-B2689	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	178.27	7,340.0	-2,165.6	-322.3	2,165.6	0.00	0.00	
9,300.0	90.00	178.27	7,340.0	-2,265.5	-319.3	2,265.5	0.00	0.00	
9,400.0	90.00	178.27	7,340.0	-2,365.5	-316.2	2,365.5	0.00	0.00	
9,500.0	90.00	178.27	7,340.0	-2,465.4	-313.2	2,465.4	0.00	0.00	
9,600.0	90.00	178.27	7,340.0	-2,565.4	-310.2	2,565.4	0.00	0.00	
9,700.0	90.00	178.27	7,340.0	-2,665.3	-307.2	2,665.3	0.00	0.00	
9,800.0	90.00	178.27	7,340.0	-2,765.3	-304.2	2,765.3	0.00	0.00	
9,900.0	90.00	178.27	7,340.0	-2,865.2	-301.1	2,865.2	0.00	0.00	
10,000.0	90.00	178.27	7,340.0	-2,965.2	-298.1	2,965.2	0.00	0.00	
10,100.0	90.00	178.27	7,340.0	-3,065.2	-295.1	3,065.2	0.00	0.00	
10,200.0	90.00	178.27	7,340.0	-3,165.1	-292.1	3,165.1	0.00	0.00	
10,257.4	90.00	178.27	7,340.0	-3,222.5	-290.4	3,222.5	0.00	0.00	Start Turn 1.00
10,300.0	90.00	178.70	7,340.0	-3,265.1	-289.2	3,265.1	1.00	0.00	
10,400.0	90.00	179.70	7,340.0	-3,365.1	-287.8	3,365.1	1.00	0.00	
10,420.4	90.00	179.90	7,340.0	-3,385.4	-287.7	3,385.4	1.00	0.00	Start 1300.0 hold at 10420.4 MD
10,500.0	90.00	179.90	7,340.0	-3,465.1	-287.6	3,465.1	0.00	0.00	
10,600.0	90.00	179.90	7,340.0	-3,565.1	-287.4	3,565.1	0.00	0.00	
10,700.0	90.00	179.90	7,340.0	-3,665.1	-287.3	3,665.1	0.00	0.00	
10,800.0	90.00	179.90	7,340.0	-3,765.1	-287.1	3,765.1	0.00	0.00	
10,900.0	90.00	179.90	7,340.0	-3,865.1	-286.9	3,865.1	0.00	0.00	
11,000.0	90.00	179.90	7,340.0	-3,965.1	-286.7	3,965.1	0.00	0.00	
11,100.0	90.00	179.90	7,340.0	-4,065.1	-286.6	4,065.1	0.00	0.00	
11,200.0	90.00	179.90	7,340.0	-4,165.1	-286.4	4,165.1	0.00	0.00	
11,300.0	90.00	179.90	7,340.0	-4,265.1	-286.2	4,265.1	0.00	0.00	
11,400.0	90.00	179.90	7,340.0	-4,365.1	-286.0	4,365.1	0.00	0.00	
11,500.0	90.00	179.90	7,340.0	-4,465.1	-285.9	4,465.1	0.00	0.00	
11,600.0	90.00	179.90	7,340.0	-4,565.1	-285.7	4,565.1	0.00	0.00	
11,700.0	90.00	179.90	7,340.0	-4,665.1	-285.5	4,665.1	0.00	0.00	
11,720.4	90.00	179.90	7,340.0	-4,685.4	-285.5	4,685.4	0.00	0.00	Start DLS 34.72 TFO -90.00
11,800.0	90.00	152.25	7,340.0	-4,762.0	-266.5	4,762.0	34.72	0.00	
11,845.3	90.00	136.53	7,340.0	-4,798.6	-240.2	4,798.6	34.72	0.00	TD at 11845.3

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Regnier 1C PBHL - plan hits target center - Point	0.00	0.29	7,340.0	-4,798.6	-240.2	1,286,171.59	3,127,507.79	40.118027	-105.044096
Regnier 1C PBHL P2 - plan misses target center by 26.9ft at 11824.8ft MD (7340.0 TVD, -4783.0 N, -253.3 E) - Point	0.00	0.29	7,340.0	-4,798.6	-275.2	1,286,171.41	3,127,472.83	40.118027	-105.044221
Interp @ 7340.0 (Regnie - plan hits target center - Point	0.00	0.00	7,340.0	-1,800.0	-324.2	1,289,169.77	3,127,408.37	40.126259	-105.044396
Regnier 1C TGT - plan misses target center by 3.9ft at 10131.7ft MD (7340.0 TVD, -3096.8 N, -294.1 E) - Point	0.00	0.00	7,340.0	-3,096.7	-290.3	1,287,873.24	3,127,449.01	40.122699	-105.044275

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
250.0	250.0	Fox Hills - BASE				
4,276.1	4,273.0	Sussex				
4,819.5	4,816.0	Shannon				
6,617.0	6,612.0	Teepee Buttes (*if present)				
7,245.7	7,167.0	Sharon Springs				
7,412.5	7,260.0	Niobrara				
7,634.5	7,330.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
515.4	515.3	0.0	-2.3	EOB; INC=2.3°	
6,630.7	6,625.7	-5.2	-248.5	START BUILD/TURN @ 6630' MD	
7,754.4	7,340.0	-720.4	-295.9	LP @ 7340' TVD; 90°	
8,834.4	7,340.0	-1,800.0	-324.2	Start Turn -1.00	
9,157.4	7,340.0	-2,123.0	-323.6	Start 1100.0 hold at 9157.4 MD	
10,257.4	7,340.0	-3,222.5	-290.4	Start Turn 1.00	
10,420.4	7,340.0	-3,385.4	-287.7	Start 1300.0 hold at 10420.4 MD	
11,720.4	7,340.0	-4,685.4	-285.5	Start DLS 34.72 TFO -90.00	
11,845.3	7,340.0	-4,798.6	-240.2	TD at 11845.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S19-T2N-R68W (Rasmussen/Regnier)

Regnier 1C-19H-B2689

Hz

Plan #4

Anticollision Report

08 January, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Reference	Plan #4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	1/8/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,845.3	Plan #4 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S19-T2N-R68W (Rasmussen/Regnier)						
Copy of Regnier 1A-19H-B268 - Hz - Plan #2	200.0	200.0	19.9	19.2	30.460	CC, ES
Copy of Regnier 1A-19H-B268 - Hz - Plan #2	11,700.0	11,813.2	415.7	251.3	2.528	SF
HANKINS 1 - ENCANA - NO SURVEYS						Out of range
KENYON 34-19 - ENCANA - ENCANA	11,700.0	7,504.0	111.6	12.4	1.125	Level 2, SF
KENYON 34-19 - ENCANA - ENCANA	11,721.9	7,503.7	110.1	12.3	1.126	Level 2, CC, ES
KENYON 4-8-19 - ENCANA - ENCANA	11,700.0	7,646.7	584.7	479.6	5.561	SF
KENYON 4-8-19 - ENCANA - ENCANA	11,800.0	7,645.7	513.0	424.9	5.820	ES
KENYON 4-8-19 - ENCANA - ENCANA	11,845.3	7,644.9	500.6	424.9	6.613	CC
KENYON 8-4-19 - ENCANA - SURVEYS						Out of range
KENYON 8-6-19 - ENCANA - SURVEYS						Out of range
KENYON 8-8-19 - ENCANA - SURVEYS						Out of range
LABER 44-24 - ENCANA - NO SURVEYS						Out of range
MABLE M ROSS 1 - AMOCO WELL - NO SURVEYS						Out of range
RASMUSSEN 0-4-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN 0-6-19 - ENCANA - SURVEYS						Out of range
RASMUSSEN 19-11 - ENCANA - GYRO						Out of range
RASMUSSEN 19-12 - ENCANA - NO SURVEYS						Out of range
RASMUSSEN 19-14 - ENCANA - GYRO						Out of range
RASMUSSEN 2-8-19 - ENCANA WELL - SURVEYS						Out of range
Rasmussen 3A-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3B-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3C-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3D-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3E-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3F-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3G-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3H-19H-M268 - HZ - Plan #1						Out of range
Rasmussen 3I-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3J-19H-M268 - HZ - Plan #2						Out of range
Rasmussen 3K-19H-M268 - HZ - Plan #1	7,600.0	12,072.1	836.3	740.2	8.705	SF
Rasmussen 3K-19H-M268 - HZ - Plan #1	8,963.9	10,709.8	803.0	711.1	8.735	CC, ES
Rasmussen 3L-19H-M268 - HZ - Plan #2	8,800.0	10,674.2	489.0	393.7	5.129	SF
Rasmussen 3L-19H-M268 - HZ - Plan #2	8,900.0	10,574.2	488.5	393.6	5.143	CC, ES
RASMUSSEN 4-6-19 - ENCANA - SURVEYS	10,850.6	7,590.8	755.4	669.9	8.838	CC, ES
RASMUSSEN 4-6-19 - ENCANA - SURVEYS	11,000.0	7,589.2	770.0	682.0	8.746	SF
RASMUSSEN H UNIT 1 - ENCANA - GYRO						Out of range
Regnier 1A-19H-B268 - Hz - Plan #3	200.0	200.0	19.9	19.2	30.460	CC, ES
Regnier 1A-19H-B268 - Hz - Plan #3	11,700.0	11,813.2	415.7	251.3	2.528	SF
Regnier 1B-19H-B268 - Hz - Plan #2	300.0	300.0	9.8	8.8	9.776	CC, ES
Regnier 1B-19H-B268 - Hz - Plan #2	11,700.0	11,931.6	288.8	180.1	2.657	SF
Regnier 1D-19H-B2688 - Hz - Plan #2	400.0	400.0	10.1	8.7	7.456	CC, ES
Regnier 1D-19H-B2688 - Hz - Plan #2	11,700.0	11,794.6	286.6	126.9	1.795	SF
Regnier 1E-19H-B2687 - Hz - Plan #2	400.0	400.0	20.1	18.8	14.913	CC, ES
Regnier 1E-19H-B2687 - Hz - Plan #2	11,700.0	11,934.7	544.4	390.1	3.527	SF
Regnier 1F-19H-B2686 - Hz - Plan #2	400.0	400.0	30.2	28.9	22.369	CC, ES
Regnier 1F-19H-B2686 - Hz - Plan #2	11,700.0	11,733.5	720.4	551.7	4.269	SF
Regnier 1G-19H-B2685 - Hz - Plan #2	400.0	400.0	40.0	38.7	29.619	CC, ES
Regnier 1G-19H-B2685 - Hz - Plan #2	11,700.0	11,674.3	888.8	723.7	5.385	SF
Regnier 1H-19H-B2684 - Hz - Plan #2	400.0	400.0	50.1	48.7	37.075	CC, ES
Regnier 1H-19H-B2684 - Hz - Plan #2	700.0	697.7	61.5	59.1	25.715	SF
Regnier 1I-19H-B2683 - Hz - Plan #3	400.0	400.0	60.2	58.8	44.531	CC, ES
Regnier 1I-19H-B2683 - Hz - Plan #3	700.0	694.8	76.7	74.3	32.124	SF
Regnier 1J-19H-B2682 - Hz - Plan #2	400.0	400.0	70.2	68.9	51.988	CC, ES

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
S19-T2N-R68W (Rasmussen/Regnier)						
Regnier 1J-19H-B2682 - Hz - Plan #2	700.0	690.7	95.2	92.8	39.997	SF
Regnier 1K-19H-B2681 - Hz - Plan #2	300.0	300.0	80.0	79.0	79.878	CC, ES
Regnier 1K-19H-B2681 - Hz - Plan #2	700.0	685.3	116.7	114.3	49.234	SF
Regnier 1L-19H-B268 - Hz - Plan #2	200.0	200.0	90.1	89.4	138.024	CC, ES
Regnier 1L-19H-B268 - Hz - Plan #2	700.0	678.5	141.7	139.3	60.098	SF
REGNIER 4-4-19 - ENCANA - SURVEYS	9,574.7	7,396.4	446.0	383.1	7.084	CC, ES
REGNIER 4-4-19 - ENCANA - SURVEYS	9,600.0	7,396.3	446.8	383.4	7.047	SF
REGNIER FARMS 2 - ENCANA - GYRO	11,258.0	7,354.8	934.5	845.0	10.438	CC, ES
REGNIER FARMS 2 - ENCANA - GYRO	11,400.0	7,353.0	945.3	853.3	10.276	SF
REGNIER FARMS 31-19 - ENCANA - GYRO	7,804.3	7,335.3	283.0	250.7	8.743	CC, ES, SF
REGNIER FARMS 32-19 - ENCANA - GYRO	8,832.0	7,328.8	53.1	4.9	1.102	Level 2, CC, ES, SF
REGNIER FARMS 33-19 - ENCANA - GYRO	10,151.4	7,338.9	73.7	3.5	1.049	Level 2, CC, ES, SF
REGNIER FARMS 42-19 - ENCANA - GYRO						Out of range
REGNIER FARMS 43-19 - ENCANA - SURVEYS						Out of range
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	7,854.2	7,328.1	994.1	961.0	30.050	CC, ES
REGNIER FARMS B UNIT 1 - ENCANA - GYRO	7,900.0	7,328.2	995.1	961.4	29.510	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	8,492.5	7,686.9	577.1	528.9	11.972	CC
ROSS 4-2-19 - ENCANA WELL - SURVEYS	8,500.0	7,686.7	577.1	528.8	11.944	ES
ROSS 4-2-19 - ENCANA WELL - SURVEYS	8,600.0	7,684.4	587.0	537.1	11.759	SF
ROSS F 1 - ENCANA - GYRO						Out of range
STROMQUIST 43-24 - ENCANA - NO SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Copy of Regnier 1A-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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	-93.16	-1.1	-19.9	19.9						
100.0	100.0	100.0	100.0	0.2	0.2	-93.16	-1.1	-19.9	19.9	19.6	0.30	65.472			
200.0	200.0	200.0	200.0	0.3	0.3	-93.16	-1.1	-19.9	19.9	19.2	0.65	30.460 CC, ES			
300.0	300.0	299.3	299.3	0.5	0.5	-92.98	-1.1	-21.6	21.6	20.6	1.00	21.524			
400.0	400.0	398.3	398.1	0.7	0.7	-92.59	-1.2	-26.7	26.8	25.4	1.37	19.538			
500.0	500.0	497.3	496.8	0.9	0.9	-1.05	-1.3	-35.1	33.6	31.9	1.70	19.800			
600.0	599.9	597.2	596.2	1.0	1.1	-0.84	-1.5	-44.5	39.0	36.9	2.04	19.074			
700.0	699.8	697.1	695.6	1.2	1.4	-0.68	-1.6	-53.9	44.4	42.0	2.39	18.542			
800.0	799.7	796.9	795.1	1.4	1.6	-0.55	-1.8	-63.3	49.8	47.0	2.74	18.146			
900.0	899.7	896.8	894.5	1.6	1.8	-0.45	-1.9	-72.7	55.1	52.1	3.09	17.840			
1,000.0	999.6	996.6	993.9	1.8	2.1	-0.37	-2.1	-82.1	60.5	57.1	3.44	17.595			
1,100.0	1,099.5	1,096.5	1,093.3	2.0	2.3	-0.30	-2.3	-91.5	65.9	62.1	3.79	17.396			
1,200.0	1,199.4	1,196.3	1,192.7	2.1	2.5	-0.24	-2.4	-100.8	71.3	67.2	4.14	17.231			
1,300.0	1,299.3	1,296.2	1,292.1	2.3	2.8	-0.19	-2.6	-110.2	76.7	72.2	4.49	17.091			
1,400.0	1,399.3	1,396.0	1,391.5	2.5	3.0	-0.15	-2.7	-119.6	82.1	77.2	4.84	16.972			
1,500.0	1,499.2	1,495.9	1,490.9	2.7	3.3	-0.11	-2.9	-129.0	87.5	82.3	5.18	16.868			
1,600.0	1,599.1	1,595.7	1,590.4	2.9	3.5	-0.08	-3.0	-138.4	92.8	87.3	5.53	16.778			
1,700.0	1,699.0	1,695.6	1,689.8	3.1	3.7	-0.05	-3.2	-147.8	98.2	92.3	5.88	16.698			
1,800.0	1,798.9	1,795.5	1,789.2	3.3	4.0	-0.02	-3.3	-157.2	103.6	97.4	6.23	16.628			
1,900.0	1,898.8	1,895.3	1,888.6	3.5	4.2	0.00	-3.5	-166.5	109.0	102.4	6.58	16.565			
2,000.0	1,998.8	1,995.2	1,988.0	3.6	4.5	0.02	-3.6	-175.9	114.4	107.5	6.93	16.508			
2,100.0	2,098.7	2,095.0	2,087.4	3.8	4.7	0.04	-3.8	-185.3	119.8	112.5	7.28	16.457			
2,200.0	2,198.6	2,194.9	2,186.8	4.0	4.9	0.06	-3.9	-194.7	125.2	117.5	7.63	16.410			
2,300.0	2,298.5	2,294.7	2,286.2	4.2	5.2	0.08	-4.1	-204.1	130.5	122.6	7.98	16.367			
2,400.0	2,398.4	2,394.6	2,385.7	4.4	5.4	0.09	-4.2	-213.5	135.9	127.6	8.32	16.328			
2,500.0	2,498.4	2,494.4	2,485.1	4.6	5.7	0.11	-4.4	-222.9	141.3	132.6	8.67	16.292			
2,600.0	2,598.3	2,594.3	2,584.5	4.8	5.9	0.12	-4.5	-232.2	146.7	137.7	9.02	16.259			
2,700.0	2,698.2	2,694.2	2,683.9	5.0	6.1	0.13	-4.7	-241.6	152.1	142.7	9.37	16.229			
2,800.0	2,798.1	2,794.0	2,783.3	5.1	6.4	0.15	-4.8	-251.0	157.5	147.7	9.72	16.200			
2,900.0	2,898.0	2,893.9	2,882.7	5.3	6.6	0.16	-5.0	-260.4	162.9	152.8	10.07	16.174			
3,000.0	2,998.0	2,993.7	2,982.1	5.5	6.9	0.17	-5.1	-269.8	168.2	157.8	10.42	16.149			
3,100.0	3,097.9	3,093.6	3,081.6	5.7	7.1	0.18	-5.3	-279.2	173.6	162.9	10.77	16.126			
3,200.0	3,197.8	3,193.4	3,181.0	5.9	7.3	0.18	-5.4	-288.6	179.0	167.9	11.12	16.105			
3,300.0	3,297.7	3,293.3	3,280.4	6.1	7.6	0.19	-5.6	-298.0	184.4	172.9	11.46	16.084			
3,400.0	3,397.6	3,393.1	3,379.8	6.3	7.8	0.20	-5.7	-307.3	189.8	178.0	11.81	16.065			
3,500.0	3,497.5	3,493.0	3,479.2	6.5	8.0	0.21	-5.9	-316.7	195.2	183.0	12.16	16.047			
3,600.0	3,597.5	3,592.8	3,578.6	6.6	8.3	0.22	-6.0	-326.1	200.6	188.0	12.51	16.030			
3,700.0	3,697.4	3,692.7	3,678.0	6.8	8.5	0.22	-6.2	-335.5	205.9	193.1	12.86	16.014			
3,800.0	3,797.3	3,792.6	3,777.4	7.0	8.8	0.23	-6.3	-344.9	211.3	198.1	13.21	15.999			
3,900.0	3,897.2	3,892.4	3,876.9	7.2	9.0	0.23	-6.5	-354.3	216.7	203.2	13.56	15.984			
4,000.0	3,997.1	3,992.3	3,976.3	7.4	9.2	0.24	-6.6	-363.7	222.1	208.2	13.91	15.971			
4,100.0	4,097.1	4,092.1	4,075.7	7.6	9.5	0.25	-6.8	-373.0	227.5	213.2	14.26	15.958			
4,200.0	4,197.0	4,192.0	4,175.1	7.8	9.7	0.25	-6.9	-382.4	232.9	218.3	14.60	15.945			
4,300.0	4,296.9	4,291.8	4,274.5	8.0	10.0	0.26	-7.1	-391.8	238.3	223.3	14.95	15.933			
4,400.0	4,396.8	4,391.7	4,373.9	8.2	10.2	0.26	-7.2	-401.2	243.6	228.3	15.30	15.922			
4,500.0	4,496.7	4,491.5	4,473.3	8.3	10.4	0.26	-7.4	-410.6	249.0	233.4	15.65	15.911			
4,600.0	4,596.7	4,591.4	4,572.7	8.5	10.7	0.27	-7.5	-420.0	254.4	238.4	16.00	15.901			
4,700.0	4,696.6	4,691.2	4,672.2	8.7	10.9	0.27	-7.7	-429.4	259.8	243.4	16.35	15.891			
4,800.0	4,796.5	4,791.1	4,771.6	8.9	11.2	0.28	-7.9	-438.7	265.2	248.5	16.70	15.882			
4,900.0	4,896.4	4,891.0	4,871.0	9.1	11.4	0.28	-8.0	-448.1	270.6	253.5	17.05	15.872			
5,000.0	4,996.3	4,990.8	4,970.4	9.3	11.6	0.28	-8.2	-457.5	276.0	258.6	17.40	15.864			
5,100.0	5,096.3	5,090.7	5,069.8	9.5	11.9	0.29	-8.3	-466.9	281.3	263.6	17.74	15.855			

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Copy of Regnier 1A-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,196.2	5,190.5	5,169.2	9.7	12.1	0.29	-8.5	-476.3	286.7	268.6	18.09	15.847		
5,300.0	5,296.1	5,290.4	5,268.6	9.8	12.4	0.29	-8.6	-485.7	292.1	273.7	18.44	15.840		
5,400.0	5,396.0	5,390.2	5,368.0	10.0	12.6	0.30	-8.8	-495.1	297.5	278.7	18.79	15.832		
5,500.0	5,495.9	5,490.1	5,467.5	10.2	12.8	0.30	-8.9	-504.4	302.9	283.7	19.14	15.825		
5,600.0	5,595.8	5,589.9	5,566.9	10.4	13.1	0.30	-9.1	-513.8	308.3	288.8	19.49	15.818		
5,700.0	5,695.8	5,689.8	5,666.3	10.6	13.3	0.31	-9.2	-523.2	313.7	293.8	19.84	15.811		
5,800.0	5,795.7	5,789.7	5,765.7	10.8	13.6	0.31	-9.4	-532.6	319.0	298.9	20.19	15.805		
5,900.0	5,895.6	5,889.5	5,865.1	11.0	13.8	0.31	-9.5	-542.0	324.4	303.9	20.54	15.799		
6,000.0	5,995.5	5,989.4	5,964.5	11.2	14.0	0.31	-9.7	-551.4	329.8	308.9	20.88	15.793		
6,100.0	6,095.4	6,089.2	6,063.9	11.4	14.3	0.32	-9.8	-560.8	335.2	314.0	21.23	15.787		
6,200.0	6,195.4	6,189.1	6,163.3	11.5	14.5	0.32	-10.0	-570.2	340.6	319.0	21.58	15.781		
6,300.0	6,295.3	6,288.9	6,262.8	11.7	14.8	0.32	-10.1	-579.5	346.0	324.0	21.93	15.776		
6,400.0	6,395.2	6,388.8	6,362.2	11.9	15.0	0.32	-10.3	-588.9	351.4	329.1	22.28	15.770		
6,500.0	6,495.1	6,488.6	6,461.6	12.1	15.2	0.33	-10.4	-598.3	356.7	334.1	22.63	15.765		
6,600.0	6,595.0	6,588.5	6,561.0	12.3	15.5	0.33	-10.6	-607.7	362.1	339.1	22.98	15.760		
6,700.0	6,694.8	6,688.2	6,660.3	12.5	15.7	65.64	-10.7	-617.1	367.4	344.1	23.33	15.749		
6,800.0	6,793.3	6,787.4	6,759.0	12.7	16.0	80.18	-11.8	-626.4	372.5	348.8	23.70	15.717		
6,900.0	6,888.4	6,888.8	6,859.1	12.9	16.2	86.00	-24.2	-635.8	377.9	353.8	24.16	15.645		
7,000.0	6,978.4	6,993.0	6,959.1	13.2	16.5	89.87	-51.6	-645.3	383.6	358.8	24.76	15.493		
7,100.0	7,061.5	7,100.3	7,056.8	13.6	16.8	92.94	-94.7	-654.5	389.2	363.6	25.56	15.228		
7,200.0	7,136.1	7,210.5	7,149.3	14.1	17.2	95.53	-153.7	-663.2	394.5	367.9	26.60	14.830		
7,300.0	7,200.8	7,323.7	7,233.9	14.7	17.7	97.75	-228.5	-671.2	399.2	371.3	27.91	14.304		
7,400.0	7,254.2	7,439.8	7,307.2	15.5	18.4	99.63	-317.9	-678.2	403.0	373.5	29.48	13.671		
7,500.0	7,295.3	7,558.2	7,366.3	16.5	19.2	101.18	-420.3	-683.7	405.7	374.3	31.31	12.957		
7,600.0	7,323.4	7,678.7	7,408.3	17.6	20.3	102.39	-533.0	-687.7	406.9	373.5	33.37	12.194		
7,700.0	7,337.9	7,800.5	7,431.1	18.8	21.5	103.24	-652.5	-689.9	406.5	370.9	35.61	11.414		
7,800.0	7,340.0	7,914.2	7,435.0	20.1	22.8	103.59	-766.0	-690.2	404.4	366.3	38.12	10.608		
7,900.0	7,340.0	8,014.1	7,435.0	21.4	24.0	103.68	-866.0	-690.2	401.9	361.0	40.84	9.840		
8,000.0	7,340.0	8,114.1	7,435.0	22.8	25.2	103.77	-965.9	-690.2	399.3	355.7	43.65	9.149		
8,100.0	7,340.0	8,214.1	7,435.0	24.3	26.6	103.86	-1,065.9	-690.2	396.8	350.2	46.53	8.527		
8,200.0	7,340.0	8,314.0	7,435.0	25.8	27.9	103.95	-1,165.8	-690.2	394.2	344.8	49.48	7.968		
8,300.0	7,340.0	8,414.0	7,435.0	27.3	29.3	104.04	-1,265.8	-690.2	391.7	339.2	52.48	7.464		
8,400.0	7,340.0	8,513.9	7,435.0	28.9	30.8	104.13	-1,365.8	-690.2	389.2	333.6	55.52	7.009		
8,500.0	7,340.0	8,613.9	7,435.0	30.4	32.2	104.23	-1,465.7	-690.2	386.6	328.0	58.59	6.598		
8,600.0	7,340.0	8,713.9	7,435.0	32.0	33.7	104.33	-1,565.7	-690.2	384.1	322.4	61.70	6.225		
8,700.0	7,340.0	8,813.8	7,435.0	33.7	35.3	104.42	-1,665.7	-690.2	381.5	316.7	64.83	5.886		
8,800.0	7,340.0	8,913.8	7,435.0	35.3	36.8	104.52	-1,765.6	-690.2	379.0	311.0	67.98	5.576		
8,900.0	7,340.0	9,013.8	7,435.0	36.9	38.4	104.60	-1,865.6	-690.2	376.8	305.9	70.98	5.309		
8,984.4	7,340.0	9,098.1	7,435.0	38.3	39.7	104.63	-1,950.0	-690.2	376.2	302.8	73.46	5.122		
9,000.0	7,340.0	9,113.8	7,435.0	38.5	40.0	104.62	-1,965.6	-690.2	376.3	302.3	73.92	5.090		
9,100.0	7,340.0	9,213.8	7,435.0	40.2	41.5	104.58	-2,065.6	-690.2	377.4	300.5	76.86	4.910		
9,200.0	7,340.0	9,313.7	7,435.0	41.8	43.2	104.48	-2,165.6	-690.2	380.0	300.1	79.96	4.753		
9,300.0	7,340.0	9,413.7	7,435.0	43.5	44.8	104.37	-2,265.5	-690.2	382.9	299.7	83.25	4.600		
9,400.0	7,340.0	9,513.6	7,435.0	45.2	46.4	104.26	-2,365.5	-690.2	385.9	299.3	86.55	4.458		
9,500.0	7,340.0	9,613.6	7,435.0	46.8	48.0	104.15	-2,465.4	-690.2	388.8	298.9	89.87	4.326		
9,600.0	7,340.0	9,713.6	7,435.0	48.5	49.7	104.04	-2,565.4	-690.2	391.7	298.5	93.20	4.203		
9,700.0	7,340.0	9,813.5	7,435.0	50.2	51.3	103.94	-2,665.3	-690.2	394.6	298.1	96.54	4.088		
9,800.0	7,340.0	9,913.5	7,435.0	51.9	53.0	103.83	-2,765.3	-690.2	397.6	297.7	99.88	3.980		
9,900.0	7,340.0	10,013.4	7,435.0	53.6	54.6	103.73	-2,865.2	-690.2	400.5	297.3	103.24	3.879		
10,000.0	7,340.0	10,113.4	7,435.0	55.3	56.3	103.63	-2,965.2	-690.2	403.4	296.8	106.60	3.785		
10,100.0	7,340.0	10,213.3	7,435.0	57.0	58.0	103.53	-3,065.2	-690.2	406.4	296.4	109.97	3.695		
10,200.0	7,340.0	10,313.3	7,435.0	58.7	59.7	103.43	-3,165.1	-690.2	409.3	296.0	113.35	3.611		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Copy of Regnier 1A-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,300.0	7,340.0	10,413.2	7,435.0	60.4	61.3	103.33	-3,265.1	-690.2	412.1	295.2	116.87	3.526		
10,400.0	7,340.0	10,513.2	7,435.0	62.1	63.0	103.28	-3,365.1	-690.2	413.5	292.9	120.55	3.430		
10,500.0	7,340.0	10,613.2	7,435.0	63.8	64.7	103.28	-3,465.1	-690.2	413.7	289.7	123.96	3.337		
10,600.0	7,340.0	10,713.2	7,435.0	65.5	66.4	103.27	-3,565.1	-690.2	413.8	286.5	127.32	3.250		
10,700.0	7,340.0	10,813.2	7,435.0	67.2	68.1	103.27	-3,665.1	-690.2	414.0	283.3	130.68	3.168		
10,800.0	7,340.0	10,913.2	7,435.0	69.0	69.8	103.26	-3,765.1	-690.2	414.2	280.1	134.04	3.090		
10,900.0	7,340.0	11,013.2	7,435.0	70.7	71.5	103.25	-3,865.1	-690.2	414.3	276.9	137.40	3.016		
11,000.0	7,340.0	11,113.2	7,435.0	72.4	73.2	103.25	-3,965.1	-690.2	414.5	273.7	140.77	2.945		
11,100.0	7,340.0	11,213.2	7,435.0	74.1	74.9	103.24	-4,065.1	-690.2	414.7	270.5	144.14	2.877		
11,200.0	7,340.0	11,313.2	7,435.0	75.9	76.6	103.24	-4,165.1	-690.2	414.9	267.3	147.52	2.812		
11,300.0	7,340.0	11,413.2	7,435.0	77.6	78.3	103.23	-4,265.1	-690.2	415.0	264.1	150.89	2.751		
11,400.0	7,340.0	11,513.2	7,435.0	79.3	80.1	103.23	-4,365.1	-690.2	415.2	260.9	154.27	2.691		
11,500.0	7,340.0	11,613.2	7,435.0	81.1	81.8	103.22	-4,465.1	-690.2	415.4	257.7	157.65	2.635		
11,600.0	7,340.0	11,713.2	7,435.0	82.8	83.5	103.22	-4,565.1	-690.2	415.5	254.5	161.03	2.581		
11,700.0	7,340.0	11,813.2	7,435.0	84.5	85.2	103.21	-4,665.1	-690.2	415.7	251.3	164.41	2.528 SF		
11,800.0	7,340.0	11,910.1	7,435.0	86.2	86.9	104.22	-4,762.0	-690.2	434.2	292.7	141.55	3.068		
11,845.3	7,340.0	11,946.8	7,435.0	86.8	87.5	106.22	-4,798.6	-690.2	459.9	346.4	113.54	4.051		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - KENYON 34-19 - ENCANA - ENCANA													Offset Site Error:	0.0 ft
Survey Program: 92-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,800.0	7,340.0	7,516.1	7,379.9	69.0	22.2	-96.15	-4,677.3	-174.6	919.2	836.0	83.26	11.041		
10,900.0	7,340.0	7,514.8	7,378.6	70.7	22.2	-95.46	-4,677.3	-174.6	820.0	735.0	85.05	9.642		
11,000.0	7,340.0	7,513.4	7,377.3	72.4	22.2	-94.78	-4,677.3	-174.6	721.1	634.3	86.84	8.303		
11,100.0	7,340.0	7,512.1	7,375.9	74.1	22.2	-94.09	-4,677.3	-174.6	622.5	533.9	88.63	7.024		
11,200.0	7,340.0	7,510.8	7,374.6	75.9	22.2	-93.40	-4,677.4	-174.6	524.4	434.0	90.40	5.801		
11,300.0	7,340.0	7,509.4	7,373.3	77.6	22.2	-92.71	-4,677.4	-174.6	427.2	335.0	92.17	4.635		
11,400.0	7,340.0	7,508.1	7,371.9	79.3	22.2	-92.02	-4,677.4	-174.6	331.6	237.7	93.93	3.531		
11,500.0	7,340.0	7,506.7	7,370.6	81.1	22.2	-91.32	-4,677.4	-174.6	239.7	144.1	95.68	2.506		
11,600.0	7,340.0	7,505.4	7,369.2	82.8	22.2	-90.63	-4,677.4	-174.6	158.0	60.6	97.42	1.622		
11,700.0	7,340.0	7,504.0	7,367.9	84.5	22.2	-89.93	-4,677.4	-174.6	111.6	12.4	99.14	1.125 Level 2, SF		
11,721.9	7,340.0	7,503.7	7,367.6	84.9	22.2	-89.77	-4,677.5	-174.6	110.1	12.3	97.78	1.126 Level 2, CC, ES		
11,800.0	7,340.0	7,502.8	7,366.6	86.2	22.2	-89.33	-4,677.5	-174.6	124.8	37.2	87.68	1.424 Level 3		
11,845.3	7,340.0	7,502.3	7,366.2	86.8	22.2	-89.20	-4,677.5	-174.6	137.8	61.8	76.04	1.812		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - KENYON 4-8-19 - ENCANA - ENCANA												Offset Site Error:	0.0 ft
Survey Program: 92-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,300.0	7,340.0	7,649.4	7,369.0	77.6	31.8	90.21	-5,176.9	-568.2	954.5	856.3	98.20	9.720	
11,400.0	7,340.0	7,648.8	7,368.4	79.3	31.8	90.08	-5,176.9	-568.2	859.5	759.6	99.93	8.601	
11,500.0	7,340.0	7,648.1	7,367.7	81.1	31.8	89.94	-5,176.9	-568.2	765.8	664.1	101.67	7.532	
11,600.0	7,340.0	7,647.4	7,367.0	82.8	31.8	89.81	-5,176.9	-568.2	673.9	570.5	103.40	6.517	
11,700.0	7,340.0	7,646.7	7,366.3	84.5	31.8	89.67	-5,176.9	-568.2	584.7	479.6	105.14	5.561 SF	
11,800.0	7,340.0	7,645.7	7,365.3	86.2	31.8	89.66	-5,176.9	-568.1	513.0	424.9	88.15	5.820 ES	
11,845.3	7,340.0	7,644.9	7,364.5	86.8	31.8	89.60	-5,176.9	-568.1	500.6	424.9	75.71	6.613 CC	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Rasmussen 3K-19H-M268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,100.0	7,061.5	12,199.4	7,576.0	13.6	84.7	91.60	-437.1	-1,096.7	999.8	902.8	97.01	10.306		
7,200.0	7,136.1	12,199.4	7,576.0	14.1	84.7	97.44	-437.1	-1,096.7	944.3	846.6	97.63	9.672		
7,300.0	7,200.8	12,199.4	7,576.0	14.7	84.7	101.79	-437.1	-1,096.7	898.9	801.3	97.60	9.210		
7,400.0	7,254.2	12,199.4	7,576.0	15.5	84.7	104.71	-437.1	-1,096.7	866.1	768.7	97.36	8.896		
7,500.0	7,295.3	12,167.9	7,576.0	16.5	84.2	105.58	-468.6	-1,096.8	847.4	750.4	96.97	8.739		
7,600.0	7,323.4	12,072.1	7,576.0	17.6	82.6	104.81	-564.4	-1,097.1	836.3	740.2	96.07	8.705 SF		
7,700.0	7,337.9	11,973.3	7,576.0	18.8	80.9	104.45	-663.2	-1,097.5	829.8	734.7	95.07	8.729		
7,800.0	7,340.0	11,873.4	7,576.0	20.1	79.2	104.50	-763.1	-1,097.8	827.0	732.8	94.28	8.772		
7,900.0	7,340.0	11,773.4	7,576.0	21.4	77.5	104.54	-863.1	-1,098.2	824.8	730.9	93.95	8.779		
8,000.0	7,340.0	11,673.4	7,576.0	22.8	75.9	104.58	-963.1	-1,098.6	822.7	729.0	93.68	8.782		
8,100.0	7,340.0	11,573.4	7,576.0	24.3	74.2	104.62	-1,063.0	-1,098.9	820.5	727.0	93.44	8.781		
8,200.0	7,340.0	11,473.5	7,576.0	25.8	72.5	104.66	-1,163.0	-1,099.3	818.3	725.1	93.23	8.777		
8,300.0	7,340.0	11,373.5	7,576.0	27.3	70.8	104.70	-1,263.0	-1,099.6	816.1	723.0	93.06	8.770		
8,400.0	7,340.0	11,273.5	7,576.0	28.9	69.2	104.74	-1,363.0	-1,100.0	813.9	721.0	92.90	8.761		
8,500.0	7,340.0	11,173.5	7,576.0	30.4	67.5	104.78	-1,462.9	-1,100.3	811.7	719.0	92.77	8.750		
8,600.0	7,340.0	11,073.6	7,576.0	32.0	65.8	104.82	-1,562.9	-1,100.7	809.5	716.9	92.66	8.737		
8,700.0	7,340.0	10,973.6	7,576.0	33.7	64.2	104.86	-1,662.9	-1,101.1	807.4	714.8	92.56	8.722		
8,800.0	7,340.0	10,873.6	7,576.0	35.3	62.5	104.90	-1,762.9	-1,101.4	805.2	712.7	92.48	8.707		
8,900.0	7,340.0	10,773.6	7,576.0	36.9	60.9	104.93	-1,862.8	-1,101.8	803.3	711.2	92.19	8.714		
8,963.9	7,340.0	10,709.8	7,576.0	38.0	59.9	104.94	-1,926.7	-1,102.0	803.0	711.1	91.93	8.735 CC, ES		
9,000.0	7,340.0	10,673.6	7,576.0	38.5	59.3	104.94	-1,962.8	-1,102.1	803.1	711.3	91.78	8.750		
9,100.0	7,340.0	10,573.7	7,576.0	40.2	57.6	104.91	-2,062.8	-1,102.5	804.6	713.2	91.38	8.805		
9,200.0	7,340.0	10,473.7	7,576.0	41.8	56.0	104.86	-2,162.8	-1,102.8	807.6	716.4	91.15	8.860		
9,300.0	7,340.0	10,373.8	7,576.0	43.5	54.4	104.80	-2,262.7	-1,103.2	810.8	719.7	91.16	8.894		
9,400.0	7,340.0	10,273.8	7,576.0	45.2	52.8	104.74	-2,362.7	-1,103.6	814.1	722.9	91.18	8.928		
9,500.0	7,340.0	10,173.9	7,576.0	46.8	51.2	104.68	-2,462.6	-1,103.9	817.3	726.1	91.22	8.961		
9,600.0	7,340.0	10,073.9	7,576.0	48.5	49.6	104.62	-2,562.5	-1,104.3	820.6	729.4	91.26	8.992		
9,700.0	7,340.0	9,974.0	7,576.0	50.2	48.1	104.56	-2,662.5	-1,104.6	823.9	732.6	91.31	9.023		
9,800.0	7,340.0	9,874.0	7,576.0	51.9	46.5	104.50	-2,762.4	-1,105.0	827.2	735.8	91.37	9.053		
9,900.0	7,340.0	9,774.1	7,576.0	53.6	45.0	104.44	-2,862.4	-1,105.3	830.4	739.0	91.44	9.082		
10,000.0	7,340.0	9,674.2	7,576.0	55.3	43.5	104.38	-2,962.3	-1,105.7	833.7	742.2	91.52	9.110		
10,100.0	7,340.0	9,574.2	7,576.0	57.0	41.9	104.33	-3,062.3	-1,106.1	837.0	745.4	91.61	9.136		
10,200.0	7,340.0	9,474.3	7,576.0	58.7	40.5	104.27	-3,162.2	-1,106.4	840.2	748.5	91.71	9.162		
10,300.0	7,340.0	9,374.3	7,576.0	60.4	39.0	104.21	-3,262.1	-1,106.8	843.4	751.4	91.99	9.168		
10,400.0	7,340.0	9,274.3	7,576.0	62.1	37.6	104.18	-3,362.1	-1,107.1	845.1	752.6	92.47	9.139		
10,500.0	7,340.0	9,174.3	7,576.0	63.8	36.1	104.17	-3,462.1	-1,107.5	845.6	752.9	92.67	9.125		
10,600.0	7,340.0	9,074.3	7,576.0	65.5	34.8	104.16	-3,562.1	-1,107.8	846.1	753.3	92.81	9.117		
10,700.0	7,340.0	8,974.3	7,576.0	67.2	33.4	104.15	-3,662.1	-1,108.2	846.6	753.7	92.97	9.106		
10,800.0	7,340.0	8,874.3	7,576.0	69.0	32.1	104.14	-3,762.1	-1,108.6	847.2	754.0	93.16	9.093		
10,900.0	7,340.0	8,774.4	7,576.0	70.7	30.9	104.13	-3,862.1	-1,108.9	847.7	754.3	93.38	9.077		
11,000.0	7,340.0	8,674.4	7,576.0	72.4	29.6	104.13	-3,962.1	-1,109.3	848.2	754.6	93.64	9.058		
11,100.0	7,340.0	8,574.4	7,576.0	74.1	28.5	104.12	-4,062.1	-1,109.6	848.7	754.8	93.93	9.036		
11,200.0	7,340.0	8,474.4	7,576.0	75.9	27.4	104.11	-4,162.1	-1,110.0	849.2	755.0	94.27	9.009		
11,300.0	7,340.0	8,374.4	7,576.0	77.6	26.4	104.10	-4,262.1	-1,110.3	849.7	755.1	94.67	8.976		
11,400.0	7,340.0	8,274.4	7,576.0	79.3	25.4	104.09	-4,362.1	-1,110.7	850.3	755.1	95.13	8.937		
11,500.0	7,340.0	8,174.4	7,576.0	81.1	24.6	104.08	-4,462.1	-1,111.1	850.8	755.1	95.69	8.891		
11,600.0	7,340.0	8,074.4	7,576.0	82.8	23.9	104.07	-4,562.1	-1,111.4	851.3	754.9	96.34	8.836		
11,700.0	7,340.0	7,974.0	7,576.0	84.5	23.2	104.06	-4,662.5	-1,111.8	851.8	754.7	97.10	8.773		
11,800.0	7,340.0	7,862.0	7,564.7	86.2	22.6	104.53	-4,773.7	-1,113.8	869.7	783.2	86.51	10.054		
11,845.3	7,340.0	7,822.6	7,555.7	86.8	22.4	106.16	-4,812.0	-1,115.2	894.8	819.4	75.38	11.871		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Rasmussen 3L-19H-M268 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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
6,700.0	6,694.8	12,005.2	7,341.0	12.5	85.6	35.54	-429.5	-877.7	974.9	901.7	73.23	13.313	
6,800.0	6,793.3	12,005.2	7,341.0	12.7	85.6	54.90	-429.5	-877.7	905.2	825.6	79.56	11.377	
6,900.0	6,888.4	12,005.2	7,341.0	12.9	85.6	65.27	-429.5	-877.7	837.0	751.6	85.37	9.803	
7,000.0	6,978.4	12,005.2	7,341.0	13.2	85.6	73.43	-429.5	-877.7	772.1	681.9	90.18	8.561	
7,100.0	7,061.5	12,005.2	7,341.0	13.6	85.6	80.12	-429.5	-877.7	712.9	619.1	93.77	7.602	
7,200.0	7,136.1	12,005.2	7,341.0	14.1	85.6	85.37	-429.5	-877.7	662.2	566.0	96.21	6.883	
7,300.0	7,200.8	12,005.2	7,341.0	14.7	85.6	89.13	-429.5	-877.7	623.2	525.4	97.77	6.374	
7,400.0	7,254.2	11,988.2	7,341.0	15.5	85.4	90.61	-446.3	-875.8	598.7	500.3	98.44	6.082	
7,500.0	7,295.3	11,898.3	7,341.0	16.5	83.9	88.51	-535.7	-865.9	582.1	484.6	97.45	5.973	
7,600.0	7,323.4	11,803.5	7,341.0	17.6	82.4	87.07	-630.0	-855.4	567.8	471.1	96.69	5.872	
7,700.0	7,337.9	11,705.6	7,341.0	18.8	80.8	86.69	-727.2	-844.6	554.2	457.9	96.25	5.758	
7,800.0	7,340.0	11,612.3	7,341.0	20.1	79.3	87.01	-820.0	-834.6	540.9	444.9	96.04	5.633	
7,900.0	7,340.0	11,521.5	7,341.0	21.4	77.8	86.95	-910.4	-826.3	529.1	433.3	95.87	5.519	
8,000.0	7,340.0	11,430.4	7,341.0	22.8	76.4	86.89	-1,001.3	-819.3	518.9	423.2	95.75	5.420	
8,100.0	7,340.0	11,338.9	7,341.0	24.3	74.9	86.84	-1,092.6	-813.8	510.3	414.6	95.66	5.335	
8,200.0	7,340.0	11,247.3	7,341.0	25.8	73.4	86.80	-1,184.1	-809.7	503.3	407.7	95.60	5.264	
8,300.0	7,340.0	11,155.4	7,341.0	27.3	71.9	86.77	-1,275.9	-807.1	497.8	402.2	95.57	5.209	
8,400.0	7,340.0	11,063.5	7,341.0	28.9	70.4	86.75	-1,367.9	-806.0	494.0	398.4	95.56	5.169	
8,500.0	7,340.0	10,971.4	7,341.0	30.4	68.9	86.74	-1,460.0	-806.3	491.7	396.2	95.57	5.145	
8,600.0	7,340.0	10,874.2	7,341.0	32.0	67.4	86.73	-1,557.1	-808.0	490.8	395.2	95.51	5.138	
8,700.0	7,340.0	10,774.2	7,341.0	33.7	65.7	86.72	-1,657.1	-809.7	489.9	394.5	95.42	5.134	
8,800.0	7,340.0	10,674.2	7,341.0	35.3	64.1	86.72	-1,757.1	-811.5	489.0	393.7	95.34	5.129 SF	
8,887.1	7,340.0	10,587.2	7,341.0	36.7	62.7	86.72	-1,844.1	-813.0	488.7	393.7	95.04	5.142	
8,900.0	7,340.0	10,574.2	7,341.0	36.9	62.5	86.71	-1,857.1	-813.2	488.5	393.6	94.99	5.143 CC, ES	
9,000.0	7,340.0	10,474.2	7,341.0	38.5	60.9	86.72	-1,957.0	-815.0	489.7	395.2	94.48	5.183	
9,100.0	7,340.0	10,374.3	7,341.0	40.2	59.3	86.74	-2,057.0	-816.7	492.6	398.6	93.96	5.242	
9,200.0	7,340.0	10,274.4	7,341.0	41.8	57.7	86.77	-2,156.9	-818.5	497.1	403.4	93.65	5.307	
9,300.0	7,340.0	10,174.5	7,341.0	43.5	56.2	86.80	-2,256.7	-820.2	501.8	408.2	93.64	5.359	
9,400.0	7,340.0	10,074.6	7,341.0	45.2	54.6	86.83	-2,356.6	-822.0	506.6	413.0	93.64	5.410	
9,500.0	7,340.0	9,974.7	7,341.0	46.8	53.1	86.86	-2,456.5	-823.7	511.4	417.7	93.64	5.461	
9,600.0	7,340.0	9,874.8	7,341.0	48.5	51.5	86.89	-2,556.3	-825.5	516.1	422.5	93.66	5.511	
9,700.0	7,340.0	9,775.0	7,341.0	50.2	50.0	86.92	-2,656.2	-827.2	520.9	427.2	93.68	5.560	
9,800.0	7,340.0	9,675.1	7,341.0	51.9	48.5	86.94	-2,756.1	-829.0	525.6	431.9	93.71	5.609	
9,900.0	7,340.0	9,575.2	7,341.0	53.6	47.0	86.97	-2,856.0	-830.7	530.4	436.7	93.76	5.657	
10,000.0	7,340.0	9,475.3	7,341.0	55.3	45.5	87.00	-2,955.8	-832.5	535.2	441.4	93.81	5.705	
10,100.0	7,340.0	9,375.4	7,341.0	57.0	44.1	87.02	-3,055.7	-834.2	539.9	446.1	93.87	5.752	
10,200.0	7,340.0	9,275.5	7,341.0	58.7	42.7	87.05	-3,155.6	-836.0	544.7	450.8	93.95	5.798	
10,300.0	7,340.0	9,175.6	7,341.0	60.4	41.3	87.08	-3,255.5	-837.7	549.3	455.1	94.24	5.829	
10,400.0	7,340.0	9,075.7	7,341.0	62.1	39.9	87.09	-3,355.4	-839.5	552.5	457.7	94.78	5.829	
10,500.0	7,340.0	8,975.7	7,341.0	63.8	38.5	87.10	-3,455.3	-841.2	554.4	459.5	94.98	5.837	
10,600.0	7,340.0	8,875.7	7,341.0	65.5	37.2	87.11	-3,555.3	-843.0	556.4	461.3	95.10	5.850	
10,700.0	7,340.0	8,775.7	7,341.0	67.2	36.0	87.12	-3,655.3	-844.8	558.3	463.0	95.25	5.861	
10,800.0	7,340.0	8,675.8	7,341.0	69.0	34.7	87.13	-3,755.2	-846.5	560.2	464.8	95.42	5.871	
10,900.0	7,340.0	8,575.8	7,341.0	70.7	33.5	87.14	-3,855.2	-848.3	562.1	466.5	95.62	5.879	
11,000.0	7,340.0	8,475.8	7,341.0	72.4	32.4	87.15	-3,955.2	-850.0	564.1	468.2	95.85	5.885	
11,100.0	7,340.0	8,375.8	7,341.0	74.1	31.3	87.16	-4,055.1	-851.8	566.0	469.9	96.12	5.888	
11,200.0	7,340.0	8,275.8	7,341.0	75.9	30.3	87.17	-4,155.1	-853.5	567.9	471.5	96.43	5.889	
11,300.0	7,340.0	8,175.9	7,341.0	77.6	29.4	87.18	-4,255.1	-855.3	569.8	473.0	96.81	5.886	
11,400.0	7,340.0	8,075.9	7,341.0	79.3	28.5	87.19	-4,355.0	-857.0	571.8	474.5	97.25	5.880	
11,500.0	7,340.0	7,975.9	7,341.0	81.1	27.8	87.20	-4,455.0	-858.8	573.7	475.9	97.77	5.868	
11,600.0	7,340.0	7,875.9	7,341.0	82.8	27.1	87.21	-4,555.0	-860.5	575.6	477.2	98.40	5.850	
11,700.0	7,340.0	7,776.8	7,341.0	84.5	26.5	87.22	-4,654.1	-862.3	577.5	478.4	99.14	5.825	

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design												S19-T2N-R68W (Rasmussen/Regnier) - Rasmussen 3L-19H-M268 - HZ - Plan #2		Offset Site Error:		0.0 ft	
Survey Program:												0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
11,800.0	7,340.0	7,700.0	7,335.5	86.2	26.1	86.27	-4,730.6	-864.6	599.9	511.0	88.86	6.751					
11,845.3	7,340.0	7,671.6	7,330.9	86.8	26.0	84.90	-4,758.6	-866.0	628.2	549.2	79.01	7.951					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - RASMUSSEN 4-6-19 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 102-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,340.0	7,597.8	7,394.6	58.7	29.0	91.45	-3,816.9	-1,042.1	993.9	920.1	73.74	13.479		
10,300.0	7,340.0	7,596.8	7,393.5	60.4	29.0	91.38	-3,816.9	-1,042.2	933.7	858.1	75.60	12.351		
10,400.0	7,340.0	7,595.7	7,392.4	62.1	29.0	91.31	-3,816.9	-1,042.2	879.5	801.9	77.64	11.328		
10,500.0	7,340.0	7,594.6	7,391.3	63.8	29.0	91.23	-3,816.9	-1,042.2	832.8	753.3	79.43	10.485		
10,600.0	7,340.0	7,593.5	7,390.2	65.5	29.0	91.15	-3,817.0	-1,042.2	795.8	714.7	81.15	9.807		
10,700.0	7,340.0	7,592.4	7,389.2	67.2	29.0	91.07	-3,817.0	-1,042.2	770.2	687.4	82.87	9.295		
10,800.0	7,340.0	7,591.3	7,388.1	69.0	29.0	90.99	-3,817.0	-1,042.2	757.1	672.5	84.59	8.949		
10,850.6	7,340.0	7,590.8	7,387.6	69.8	29.0	90.95	-3,817.0	-1,042.3	755.4	669.9	85.47	8.838 CC, ES		
10,900.0	7,340.0	7,590.3	7,387.0	70.7	29.0	90.91	-3,817.0	-1,042.3	757.0	670.7	86.32	8.770		
11,000.0	7,340.0	7,589.2	7,386.0	72.4	29.0	90.83	-3,817.0	-1,042.3	770.0	682.0	88.04	8.746 SF		
11,100.0	7,340.0	7,588.2	7,385.0	74.1	29.0	90.75	-3,817.0	-1,042.3	795.5	705.7	89.77	8.861		
11,200.0	7,340.0	7,587.2	7,384.0	75.9	29.0	90.67	-3,817.0	-1,042.3	832.2	740.7	91.50	9.096		
11,300.0	7,340.0	7,586.2	7,383.0	77.6	29.0	90.60	-3,817.0	-1,042.3	878.9	785.7	93.23	9.428		
11,400.0	7,340.0	7,585.2	7,382.0	79.3	29.0	90.52	-3,817.0	-1,042.4	934.0	839.0	94.96	9.836		
11,500.0	7,340.0	7,584.3	7,381.0	81.1	29.0	90.45	-3,817.1	-1,042.4	996.1	899.4	96.69	10.302		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	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			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	-93.16	-1.1	-19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	-93.16	-1.1	-19.9	19.9	19.6	0.30	65.472		
200.0	200.0	200.0	200.0	0.3	0.3	-93.16	-1.1	-19.9	19.9	19.2	0.65	30.460	CC, ES	
300.0	300.0	299.3	299.3	0.5	0.5	-92.98	-1.1	-21.6	21.6	20.6	1.00	21.524		
400.0	400.0	398.3	398.1	0.7	0.7	-92.59	-1.2	-26.7	26.8	25.4	1.37	19.538		
500.0	500.0	497.3	496.8	0.9	0.9	-1.05	-1.3	-35.1	33.6	31.9	1.70	19.800		
600.0	599.9	597.2	596.2	1.0	1.1	-0.84	-1.5	-44.5	39.0	36.9	2.04	19.074		
700.0	699.8	697.1	695.6	1.2	1.4	-0.68	-1.6	-53.9	44.4	42.0	2.39	18.542		
800.0	799.7	796.9	795.1	1.4	1.6	-0.55	-1.8	-63.3	49.8	47.0	2.74	18.146		
900.0	899.7	896.8	894.5	1.6	1.8	-0.45	-1.9	-72.7	55.1	52.1	3.09	17.839		
1,000.0	999.6	996.6	993.9	1.8	2.1	-0.37	-2.1	-82.1	60.5	57.1	3.44	17.595		
1,100.0	1,099.5	1,096.5	1,093.3	2.0	2.3	-0.30	-2.3	-91.5	65.9	62.1	3.79	17.396		
1,200.0	1,199.4	1,196.3	1,192.7	2.1	2.5	-0.24	-2.4	-100.8	71.3	67.2	4.14	17.231		
1,300.0	1,299.3	1,296.2	1,292.1	2.3	2.8	-0.19	-2.6	-110.2	76.7	72.2	4.49	17.091		
1,400.0	1,399.3	1,396.0	1,391.5	2.5	3.0	-0.15	-2.7	-119.6	82.1	77.2	4.84	16.972		
1,500.0	1,499.2	1,495.9	1,490.9	2.7	3.3	-0.11	-2.9	-129.0	87.5	82.3	5.18	16.868		
1,600.0	1,599.1	1,595.7	1,590.4	2.9	3.5	-0.08	-3.0	-138.4	92.8	87.3	5.53	16.778		
1,700.0	1,699.0	1,695.6	1,689.8	3.1	3.7	-0.05	-3.2	-147.8	98.2	92.3	5.88	16.698		
1,800.0	1,798.9	1,795.5	1,789.2	3.3	4.0	-0.02	-3.3	-157.2	103.6	97.4	6.23	16.628		
1,900.0	1,898.8	1,895.3	1,888.6	3.5	4.2	0.00	-3.5	-166.5	109.0	102.4	6.58	16.565		
2,000.0	1,998.8	1,995.2	1,988.0	3.6	4.5	0.02	-3.6	-175.9	114.4	107.5	6.93	16.508		
2,100.0	2,098.7	2,095.0	2,087.4	3.8	4.7	0.04	-3.8	-185.3	119.8	112.5	7.28	16.457		
2,200.0	2,198.6	2,194.9	2,186.8	4.0	4.9	0.06	-3.9	-194.7	125.2	117.5	7.63	16.410		
2,300.0	2,298.5	2,294.7	2,286.2	4.2	5.2	0.08	-4.1	-204.1	130.5	122.6	7.98	16.367		
2,400.0	2,398.4	2,394.6	2,385.7	4.4	5.4	0.10	-4.2	-213.5	135.9	127.6	8.32	16.328		
2,500.0	2,498.4	2,494.4	2,485.1	4.6	5.7	0.11	-4.4	-222.9	141.3	132.6	8.67	16.292		
2,600.0	2,598.3	2,594.3	2,584.5	4.8	5.9	0.12	-4.5	-232.2	146.7	137.7	9.02	16.259		
2,700.0	2,698.2	2,694.2	2,683.9	5.0	6.1	0.14	-4.7	-241.6	152.1	142.7	9.37	16.229		
2,800.0	2,798.1	2,794.0	2,783.3	5.1	6.4	0.15	-4.8	-251.0	157.5	147.7	9.72	16.200		
2,900.0	2,898.0	2,893.9	2,882.7	5.3	6.6	0.16	-5.0	-260.4	162.9	152.8	10.07	16.174		
3,000.0	2,998.0	2,993.7	2,982.1	5.5	6.9	0.17	-5.1	-269.8	168.2	157.8	10.42	16.149		
3,100.0	3,097.9	3,093.6	3,081.6	5.7	7.1	0.18	-5.3	-279.2	173.6	162.9	10.77	16.126		
3,200.0	3,197.8	3,193.4	3,181.0	5.9	7.3	0.19	-5.4	-288.6	179.0	167.9	11.12	16.105		
3,300.0	3,297.7	3,293.3	3,280.4	6.1	7.6	0.19	-5.6	-298.0	184.4	172.9	11.46	16.084		
3,400.0	3,397.6	3,393.1	3,379.8	6.3	7.8	0.20	-5.7	-307.3	189.8	178.0	11.81	16.065		
3,500.0	3,497.5	3,493.0	3,479.2	6.5	8.0	0.21	-5.9	-316.7	195.2	183.0	12.16	16.047		
3,600.0	3,597.5	3,592.8	3,578.6	6.6	8.3	0.22	-6.0	-326.1	200.6	188.0	12.51	16.030		
3,700.0	3,697.4	3,692.7	3,678.0	6.8	8.5	0.22	-6.2	-335.5	205.9	193.1	12.86	16.014		
3,800.0	3,797.3	3,792.6	3,777.4	7.0	8.8	0.23	-6.3	-344.9	211.3	198.1	13.21	15.999		
3,900.0	3,897.2	3,892.4	3,876.9	7.2	9.0	0.23	-6.5	-354.3	216.7	203.2	13.56	15.984		
4,000.0	3,997.1	3,992.3	3,976.3	7.4	9.2	0.24	-6.6	-363.7	222.1	208.2	13.91	15.971		
4,100.0	4,097.1	4,092.1	4,075.7	7.6	9.5	0.25	-6.8	-373.0	227.5	213.2	14.26	15.958		
4,200.0	4,197.0	4,192.0	4,175.1	7.8	9.7	0.25	-6.9	-382.4	232.9	218.3	14.60	15.945		
4,300.0	4,296.9	4,291.8	4,274.5	8.0	10.0	0.26	-7.1	-391.8	238.3	223.3	14.95	15.933		
4,400.0	4,396.8	4,391.7	4,373.9	8.2	10.2	0.26	-7.2	-401.2	243.6	228.3	15.30	15.922		
4,500.0	4,496.7	4,491.5	4,473.3	8.3	10.4	0.27	-7.4	-410.6	249.0	233.4	15.65	15.911		
4,600.0	4,596.7	4,591.4	4,572.7	8.5	10.7	0.27	-7.5	-420.0	254.4	238.4	16.00	15.901		
4,700.0	4,696.6	4,691.2	4,672.2	8.7	10.9	0.27	-7.7	-429.4	259.8	243.4	16.35	15.891		
4,800.0	4,796.5	4,791.1	4,771.6	8.9	11.2	0.28	-7.8	-438.7	265.2	248.5	16.70	15.882		
4,900.0	4,896.4	4,891.0	4,871.0	9.1	11.4	0.28	-8.0	-448.1	270.6	253.5	17.05	15.872		
5,000.0	4,996.3	4,990.8	4,970.4	9.3	11.6	0.29	-8.2	-457.5	276.0	258.6	17.40	15.864		
5,100.0	5,096.3	5,090.7	5,069.8	9.5	11.9	0.29	-8.3	-466.9	281.3	263.6	17.74	15.855		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,196.2	5,190.5	5,169.2	9.7	12.1	0.29	-8.5	-476.3	286.7	268.6	18.09	15.847		
5,300.0	5,296.1	5,290.4	5,268.6	9.8	12.4	0.30	-8.6	-485.7	292.1	273.7	18.44	15.840		
5,400.0	5,396.0	5,390.2	5,368.0	10.0	12.6	0.30	-8.8	-495.1	297.5	278.7	18.79	15.832		
5,500.0	5,495.9	5,490.1	5,467.5	10.2	12.8	0.30	-8.9	-504.4	302.9	283.7	19.14	15.825		
5,600.0	5,595.8	5,589.9	5,566.9	10.4	13.1	0.30	-9.1	-513.8	308.3	288.8	19.49	15.818		
5,700.0	5,695.8	5,689.8	5,666.3	10.6	13.3	0.31	-9.2	-523.2	313.7	293.8	19.84	15.811		
5,800.0	5,795.7	5,789.7	5,765.7	10.8	13.6	0.31	-9.4	-532.6	319.0	298.9	20.19	15.805		
5,900.0	5,895.6	5,889.5	5,865.1	11.0	13.8	0.31	-9.5	-542.0	324.4	303.9	20.54	15.799		
6,000.0	5,995.5	5,989.4	5,964.5	11.2	14.0	0.32	-9.7	-551.4	329.8	308.9	20.88	15.792		
6,100.0	6,095.4	6,089.2	6,063.9	11.4	14.3	0.32	-9.8	-560.8	335.2	314.0	21.23	15.787		
6,200.0	6,195.4	6,189.1	6,163.3	11.5	14.5	0.32	-10.0	-570.2	340.6	319.0	21.58	15.781		
6,300.0	6,295.3	6,288.9	6,262.8	11.7	14.8	0.32	-10.1	-579.5	346.0	324.0	21.93	15.776		
6,400.0	6,395.2	6,388.8	6,362.2	11.9	15.0	0.32	-10.3	-588.9	351.4	329.1	22.28	15.770		
6,500.0	6,495.1	6,488.6	6,461.6	12.1	15.2	0.33	-10.4	-598.3	356.7	334.1	22.63	15.765		
6,600.0	6,595.0	6,588.5	6,561.0	12.3	15.5	0.33	-10.6	-607.7	362.1	339.1	22.98	15.760		
6,700.0	6,694.8	6,688.2	6,660.3	12.5	15.7	65.64	-10.7	-617.1	367.4	344.1	23.33	15.749		
6,800.0	6,793.3	6,787.4	6,759.0	12.7	16.0	80.18	-11.8	-626.4	372.5	348.8	23.70	15.717		
6,900.0	6,888.4	6,888.8	6,859.1	12.9	16.2	86.00	-24.2	-635.8	377.9	353.8	24.16	15.645		
7,000.0	6,978.4	6,993.0	6,959.1	13.2	16.5	89.87	-51.6	-645.3	383.6	358.8	24.76	15.493		
7,100.0	7,061.5	7,100.3	7,056.8	13.6	16.8	92.94	-94.7	-654.5	389.2	363.6	25.56	15.228		
7,200.0	7,136.1	7,210.5	7,149.3	14.1	17.2	95.53	-153.7	-663.2	394.5	367.9	26.60	14.830		
7,300.0	7,200.8	7,323.7	7,233.9	14.7	17.7	97.75	-228.5	-671.2	399.2	371.3	27.91	14.304		
7,400.0	7,254.2	7,439.8	7,307.2	15.5	18.4	99.63	-317.9	-678.2	403.0	373.5	29.48	13.671		
7,500.0	7,295.3	7,558.2	7,366.3	16.5	19.2	101.18	-420.3	-683.7	405.7	374.3	31.31	12.957		
7,600.0	7,323.4	7,678.7	7,408.3	17.6	20.3	102.39	-533.0	-687.7	406.9	373.5	33.37	12.194		
7,700.0	7,337.9	7,800.5	7,431.1	18.8	21.5	103.24	-652.5	-689.9	406.5	370.9	35.61	11.414		
7,800.0	7,340.0	7,914.2	7,435.0	20.1	22.8	103.59	-766.0	-690.2	404.4	366.3	38.12	10.608		
7,900.0	7,340.0	8,014.1	7,435.0	21.4	24.0	103.68	-866.0	-690.2	401.9	361.0	40.84	9.840		
8,000.0	7,340.0	8,114.1	7,435.0	22.8	25.2	103.77	-965.9	-690.2	399.3	355.7	43.65	9.149		
8,100.0	7,340.0	8,214.1	7,435.0	24.3	26.6	103.86	-1,065.9	-690.2	396.8	350.2	46.53	8.527		
8,200.0	7,340.0	8,314.0	7,435.0	25.8	27.9	103.95	-1,165.8	-690.2	394.2	344.8	49.48	7.968		
8,300.0	7,340.0	8,414.0	7,435.0	27.3	29.3	104.04	-1,265.8	-690.2	391.7	339.2	52.48	7.464		
8,400.0	7,340.0	8,514.0	7,435.0	28.9	30.8	104.13	-1,365.8	-690.2	389.2	333.6	55.52	7.009		
8,500.0	7,340.0	8,613.9	7,435.0	30.4	32.2	104.23	-1,465.7	-690.2	386.6	328.0	58.59	6.598		
8,600.0	7,340.0	8,713.9	7,435.0	32.0	33.7	104.33	-1,565.7	-690.2	384.1	322.4	61.70	6.225		
8,700.0	7,340.0	8,813.8	7,435.0	33.7	35.3	104.42	-1,665.7	-690.2	381.5	316.7	64.83	5.886		
8,800.0	7,340.0	8,913.8	7,435.0	35.3	36.8	104.52	-1,765.6	-690.2	379.0	311.0	67.98	5.576		
8,900.0	7,340.0	9,013.8	7,435.0	36.9	38.4	104.60	-1,865.6	-690.2	376.8	305.9	70.98	5.309		
8,984.4	7,340.0	9,098.2	7,435.0	38.3	39.7	104.63	-1,950.0	-690.2	376.2	302.8	73.46	5.122		
9,000.0	7,340.0	9,113.8	7,435.0	38.5	40.0	104.62	-1,965.6	-690.2	376.3	302.3	73.92	5.090		
9,100.0	7,340.0	9,213.8	7,435.0	40.2	41.5	104.58	-2,065.6	-690.2	377.4	300.5	76.86	4.910		
9,200.0	7,340.0	9,313.7	7,435.0	41.8	43.2	104.48	-2,165.6	-690.2	380.0	300.1	79.96	4.753		
9,300.0	7,340.0	9,413.7	7,435.0	43.5	44.8	104.37	-2,265.5	-690.2	382.9	299.7	83.25	4.600		
9,400.0	7,340.0	9,513.6	7,435.0	45.2	46.4	104.26	-2,365.5	-690.2	385.9	299.3	86.55	4.458		
9,500.0	7,340.0	9,613.6	7,435.0	46.8	48.0	104.15	-2,465.4	-690.2	388.8	298.9	89.87	4.326		
9,600.0	7,340.0	9,713.6	7,435.0	48.5	49.7	104.04	-2,565.4	-690.2	391.7	298.5	93.20	4.203		
9,700.0	7,340.0	9,813.5	7,435.0	50.2	51.3	103.94	-2,665.3	-690.2	394.6	298.1	96.54	4.088		
9,800.0	7,340.0	9,913.5	7,435.0	51.9	53.0	103.83	-2,765.3	-690.2	397.6	297.7	99.88	3.980		
9,900.0	7,340.0	10,013.4	7,435.0	53.6	54.6	103.73	-2,865.2	-690.2	400.5	297.3	103.24	3.879		
10,000.0	7,340.0	10,113.4	7,435.0	55.3	56.3	103.63	-2,965.2	-690.2	403.4	296.8	106.60	3.785		
10,100.0	7,340.0	10,213.3	7,435.0	57.0	58.0	103.53	-3,065.2	-690.2	406.4	296.4	109.97	3.695		
10,200.0	7,340.0	10,313.3	7,435.0	58.7	59.7	103.43	-3,165.1	-690.2	409.3	296.0	113.35	3.611		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1A-19H-B268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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		
10,300.0	7,340.0	10,413.2	7,435.0	60.4	61.3	103.33	-3,265.1	-690.2	412.1	295.2	116.87	3.526		
10,400.0	7,340.0	10,513.2	7,435.0	62.1	63.0	103.28	-3,365.1	-690.2	413.5	292.9	120.55	3.430		
10,500.0	7,340.0	10,613.2	7,435.0	63.8	64.7	103.28	-3,465.1	-690.2	413.7	289.7	123.96	3.337		
10,600.0	7,340.0	10,713.2	7,435.0	65.5	66.4	103.27	-3,565.1	-690.2	413.8	286.5	127.32	3.250		
10,700.0	7,340.0	10,813.2	7,435.0	67.2	68.1	103.27	-3,665.1	-690.2	414.0	283.3	130.68	3.168		
10,800.0	7,340.0	10,913.2	7,435.0	69.0	69.8	103.26	-3,765.1	-690.2	414.2	280.1	134.04	3.090		
10,900.0	7,340.0	11,013.2	7,435.0	70.7	71.5	103.25	-3,865.1	-690.2	414.3	276.9	137.40	3.016		
11,000.0	7,340.0	11,113.2	7,435.0	72.4	73.2	103.25	-3,965.1	-690.2	414.5	273.7	140.77	2.945		
11,100.0	7,340.0	11,213.2	7,435.0	74.1	74.9	103.24	-4,065.1	-690.2	414.7	270.5	144.14	2.877		
11,200.0	7,340.0	11,313.2	7,435.0	75.9	76.6	103.24	-4,165.1	-690.2	414.9	267.3	147.52	2.812		
11,300.0	7,340.0	11,413.2	7,435.0	77.6	78.3	103.23	-4,265.1	-690.2	415.0	264.1	150.89	2.751		
11,400.0	7,340.0	11,513.2	7,435.0	79.3	80.1	103.23	-4,365.1	-690.2	415.2	260.9	154.27	2.691		
11,500.0	7,340.0	11,613.2	7,435.0	81.1	81.8	103.22	-4,465.1	-690.2	415.4	257.7	157.65	2.635		
11,600.0	7,340.0	11,713.2	7,435.0	82.8	83.5	103.22	-4,565.1	-690.2	415.5	254.5	161.03	2.581		
11,700.0	7,340.0	11,813.2	7,435.0	84.5	85.2	103.21	-4,665.1	-690.2	415.7	251.3	164.41	2.528 SF		
11,800.0	7,340.0	11,910.1	7,435.0	86.2	86.9	104.22	-4,762.0	-690.2	434.2	292.7	141.55	3.068		
11,845.3	7,340.0	11,946.8	7,435.0	86.8	87.5	106.22	-4,798.6	-690.2	459.9	346.4	113.54	4.051		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-92.13	-0.4	-9.8	9.8						
100.0	100.0	100.0	100.0	0.2	0.2	-92.13	-0.4	-9.8	9.8	9.5	0.30	32.248			
200.0	200.0	200.0	200.0	0.3	0.3	-92.13	-0.4	-9.8	9.8	9.1	0.65	15.003			
300.0	300.0	300.0	300.0	0.5	0.5	-92.13	-0.4	-9.8	9.8	8.8	1.00	9.776 CC, ES			
400.0	400.0	399.6	399.6	0.7	0.7	-91.94	-0.4	-11.5	11.5	10.2	1.35	8.523			
500.0	500.0	499.2	499.0	0.9	0.9	-0.46	-0.5	-16.7	14.9	13.2	1.70	8.801			
600.0	599.9	599.2	598.8	1.0	1.1	-0.27	-0.6	-23.0	17.3	15.3	2.05	8.451			
700.0	699.8	699.1	698.6	1.2	1.3	-0.13	-0.7	-29.3	19.6	17.2	2.40	8.185			
800.0	799.7	799.1	798.3	1.4	1.5	-0.02	-0.7	-35.7	21.9	19.2	2.75	7.987			
900.0	899.7	899.1	898.1	1.6	1.7	0.07	-0.8	-42.0	24.2	21.1	3.09	7.834			
1,000.0	999.6	999.1	997.9	1.8	1.9	0.15	-0.9	-48.3	26.6	23.1	3.44	7.712			
1,100.0	1,099.5	1,099.0	1,097.7	2.0	2.1	0.21	-1.0	-54.7	28.9	25.1	3.79	7.612			
1,200.0	1,199.4	1,199.0	1,197.4	2.1	2.3	0.27	-1.1	-61.0	31.2	27.0	4.14	7.529			
1,300.0	1,299.3	1,299.0	1,297.2	2.3	2.5	0.31	-1.2	-67.3	33.5	29.0	4.49	7.460			
1,400.0	1,399.3	1,398.9	1,397.0	2.5	2.7	0.35	-1.3	-73.7	35.8	31.0	4.84	7.400			
1,500.0	1,499.2	1,498.9	1,496.8	2.7	2.9	0.39	-1.4	-80.0	38.1	32.9	5.19	7.348			
1,600.0	1,599.1	1,598.9	1,596.5	2.9	3.1	0.42	-1.5	-86.3	40.4	34.9	5.54	7.303			
1,700.0	1,699.0	1,698.9	1,696.3	3.1	3.3	0.45	-1.6	-92.7	42.8	36.9	5.89	7.263			
1,800.0	1,798.9	1,798.8	1,796.1	3.3	3.5	0.47	-1.7	-99.0	45.1	38.8	6.24	7.227			
1,900.0	1,898.8	1,898.8	1,895.8	3.5	3.7	0.50	-1.8	-105.3	47.4	40.8	6.59	7.196			
2,000.0	1,998.8	1,998.8	1,995.6	3.6	3.9	0.52	-1.9	-111.7	49.7	42.8	6.94	7.167			
2,100.0	2,098.7	2,098.8	2,095.4	3.8	4.1	0.53	-2.0	-118.0	52.0	44.7	7.28	7.142			
2,200.0	2,198.6	2,198.7	2,195.2	4.0	4.3	0.55	-2.1	-124.3	54.3	46.7	7.63	7.118			
2,300.0	2,298.5	2,298.7	2,294.9	4.2	4.5	0.57	-2.2	-130.7	56.7	48.7	7.98	7.097			
2,400.0	2,398.4	2,398.7	2,394.7	4.4	4.7	0.58	-2.3	-137.0	59.0	50.6	8.33	7.077			
2,500.0	2,498.4	2,498.7	2,494.5	4.6	5.0	0.60	-2.3	-143.4	61.3	52.6	8.68	7.059			
2,600.0	2,598.3	2,598.6	2,594.2	4.8	5.2	0.61	-2.4	-149.7	63.6	54.6	9.03	7.043			
2,700.0	2,698.2	2,698.6	2,694.0	5.0	5.4	0.62	-2.5	-156.0	65.9	56.5	9.38	7.027			
2,800.0	2,798.1	2,798.6	2,793.8	5.1	5.6	0.63	-2.6	-162.4	68.2	58.5	9.73	7.013			
2,900.0	2,898.0	2,898.5	2,893.6	5.3	5.8	0.64	-2.7	-168.7	70.5	60.5	10.08	7.000			
3,000.0	2,998.0	2,998.5	2,993.3	5.5	6.0	0.65	-2.8	-175.0	72.9	62.4	10.43	6.987			
3,100.0	3,097.9	3,098.5	3,093.1	5.7	6.2	0.66	-2.9	-181.4	75.2	64.4	10.78	6.976			
3,200.0	3,197.8	3,198.5	3,192.9	5.9	6.4	0.67	-3.0	-187.7	77.5	66.4	11.12	6.965			
3,300.0	3,297.7	3,298.4	3,292.7	6.1	6.6	0.67	-3.1	-194.0	79.8	68.3	11.47	6.955			
3,400.0	3,397.6	3,398.4	3,392.4	6.3	6.8	0.68	-3.2	-200.4	82.1	70.3	11.82	6.945			
3,500.0	3,497.5	3,498.4	3,492.2	6.5	7.0	0.69	-3.3	-206.7	84.4	72.3	12.17	6.936			
3,600.0	3,597.5	3,598.4	3,592.0	6.6	7.2	0.70	-3.4	-213.0	86.7	74.2	12.52	6.928			
3,700.0	3,697.4	3,698.3	3,691.7	6.8	7.4	0.70	-3.5	-219.4	89.1	76.2	12.87	6.920			
3,800.0	3,797.3	3,798.3	3,791.5	7.0	7.6	0.71	-3.6	-225.7	91.4	78.2	13.22	6.912			
3,900.0	3,897.2	3,898.3	3,891.3	7.2	7.8	0.71	-3.7	-232.0	93.7	80.1	13.57	6.905			
4,000.0	3,997.1	3,998.3	3,991.1	7.4	8.0	0.72	-3.8	-238.4	96.0	82.1	13.92	6.898			
4,100.0	4,097.1	4,098.2	4,090.8	7.6	8.3	0.72	-3.9	-244.7	98.3	84.1	14.27	6.891			
4,200.0	4,197.0	4,198.2	4,190.6	7.8	8.5	0.73	-3.9	-251.0	100.6	86.0	14.62	6.885			
4,300.0	4,296.9	4,298.2	4,290.4	8.0	8.7	0.73	-4.0	-257.4	102.9	88.0	14.97	6.879			
4,400.0	4,396.8	4,398.1	4,390.1	8.2	8.9	0.74	-4.1	-263.7	105.3	89.9	15.31	6.874			
4,500.0	4,496.7	4,498.1	4,489.9	8.3	9.1	0.74	-4.2	-270.1	107.6	91.9	15.66	6.868			
4,600.0	4,596.7	4,598.1	4,589.7	8.5	9.3	0.75	-4.3	-276.4	109.9	93.9	16.01	6.863			
4,700.0	4,696.6	4,698.1	4,689.5	8.7	9.5	0.75	-4.4	-282.7	112.2	95.8	16.36	6.858			
4,800.0	4,796.5	4,798.0	4,789.2	8.9	9.7	0.75	-4.5	-289.1	114.5	97.8	16.71	6.853			
4,900.0	4,896.4	4,898.0	4,889.0	9.1	9.9	0.76	-4.6	-295.4	116.8	99.8	17.06	6.849			
5,000.0	4,996.3	4,998.0	4,988.8	9.3	10.1	0.76	-4.7	-301.7	119.2	101.7	17.41	6.844			
5,100.0	5,096.3	5,098.0	5,088.6	9.5	10.3	0.76	-4.8	-308.1	121.5	103.7	17.76	6.840			

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,196.2	5,197.9	5,188.3	9.7	10.5	0.77	-4.9	-314.4	123.8	105.7	18.11	6.836		
5,300.0	5,296.1	5,297.9	5,288.1	9.8	10.7	0.77	-5.0	-320.7	126.1	107.6	18.46	6.832		
5,400.0	5,396.0	5,397.9	5,387.9	10.0	10.9	0.77	-5.1	-327.1	128.4	109.6	18.81	6.828		
5,500.0	5,495.9	5,497.8	5,487.6	10.2	11.1	0.78	-5.2	-333.4	130.7	111.6	19.15	6.825		
5,600.0	5,595.8	5,597.8	5,587.4	10.4	11.4	0.78	-5.3	-339.7	133.0	113.5	19.50	6.821		
5,700.0	5,695.8	5,697.8	5,687.2	10.6	11.6	0.78	-5.4	-346.1	135.4	115.5	19.85	6.818		
5,800.0	5,795.7	5,797.8	5,787.0	10.8	11.8	0.78	-5.5	-352.4	137.7	117.5	20.20	6.815		
5,900.0	5,895.6	5,897.7	5,886.7	11.0	12.0	0.79	-5.5	-358.7	140.0	119.4	20.55	6.812		
6,000.0	5,995.5	5,997.7	5,986.5	11.2	12.2	0.79	-5.6	-365.1	142.3	121.4	20.90	6.809		
6,100.0	6,095.4	6,097.7	6,086.3	11.4	12.4	0.79	-5.7	-371.4	144.6	123.4	21.25	6.806		
6,200.0	6,195.4	6,197.7	6,186.0	11.5	12.6	0.79	-5.8	-377.7	146.9	125.3	21.60	6.803		
6,300.0	6,295.3	6,297.6	6,285.8	11.7	12.8	0.80	-5.9	-384.1	149.2	127.3	21.95	6.800		
6,400.0	6,395.2	6,397.6	6,385.6	11.9	13.0	0.80	-6.0	-390.4	151.6	129.3	22.30	6.797		
6,500.0	6,495.1	6,497.6	6,485.4	12.1	13.2	0.80	-6.1	-396.8	153.9	131.2	22.65	6.795		
6,600.0	6,595.0	6,597.6	6,585.1	12.3	13.4	0.80	-6.2	-403.1	156.2	133.2	22.99	6.792		
6,700.0	6,694.8	6,697.4	6,684.8	12.5	13.6	66.97	-6.3	-409.4	158.4	135.1	23.35	6.786		
6,800.0	6,793.3	6,795.9	6,783.1	12.7	13.8	85.07	-6.4	-415.7	161.4	137.6	23.76	6.791		
6,900.0	6,888.4	6,893.1	6,880.1	12.9	14.0	97.69	-7.0	-421.8	168.8	144.4	24.32	6.939		
7,000.0	6,978.4	6,997.0	6,983.0	13.2	14.2	108.69	-18.7	-428.4	181.8	156.8	24.94	7.289		
7,100.0	7,061.5	7,106.7	7,088.7	13.6	14.5	117.62	-47.1	-435.1	198.5	173.1	25.42	7.809		
7,200.0	7,136.1	7,222.9	7,194.4	14.1	14.8	124.82	-94.4	-441.8	217.1	191.4	25.67	8.458		
7,300.0	7,200.8	7,346.1	7,296.7	14.7	15.3	130.54	-162.6	-448.3	235.9	210.2	25.70	9.176		
7,400.0	7,254.2	7,476.6	7,390.6	15.5	15.9	135.03	-252.7	-454.2	253.1	227.5	25.62	9.879		
7,500.0	7,295.3	7,614.0	7,470.1	16.5	16.8	138.47	-364.4	-459.3	267.4	241.8	25.54	10.469		
7,600.0	7,323.4	7,757.3	7,528.9	17.6	18.1	140.97	-494.8	-463.0	277.4	251.8	25.60	10.837		
7,700.0	7,337.9	7,904.8	7,561.0	18.8	19.7	142.61	-638.4	-465.1	282.2	256.3	25.92	10.886		
7,800.0	7,340.0	8,032.5	7,566.0	20.1	21.2	143.35	-766.0	-465.4	281.7	254.8	26.94	10.457		
7,900.0	7,340.0	8,132.5	7,566.0	21.4	22.5	143.77	-866.0	-465.4	280.2	251.7	28.45	9.850		
8,000.0	7,340.0	8,232.5	7,566.0	22.8	23.8	144.21	-965.9	-465.4	278.6	248.7	29.97	9.299		
8,100.0	7,340.0	8,332.4	7,566.0	24.3	25.2	144.65	-1,065.9	-465.4	277.1	245.6	31.49	8.800		
8,200.0	7,340.0	8,432.4	7,566.0	25.8	26.7	145.09	-1,165.8	-465.4	275.6	242.6	33.02	8.348		
8,300.0	7,340.0	8,532.4	7,566.0	27.3	28.1	145.54	-1,265.8	-465.4	274.1	239.6	34.53	7.939		
8,400.0	7,340.0	8,632.3	7,566.0	28.9	29.6	145.99	-1,365.8	-465.4	272.7	236.6	36.03	7.568		
8,500.0	7,340.0	8,732.3	7,566.0	30.4	31.2	146.45	-1,465.7	-465.4	271.2	233.7	37.50	7.232		
8,600.0	7,340.0	8,832.3	7,566.0	32.0	32.7	146.91	-1,565.7	-465.4	269.8	230.8	38.95	6.926		
8,700.0	7,340.0	8,932.2	7,566.0	33.7	34.3	147.38	-1,665.7	-465.4	268.3	228.0	40.37	6.648		
8,800.0	7,340.0	9,032.2	7,566.0	35.3	35.9	147.86	-1,765.6	-465.4	266.9	225.2	41.75	6.394		
8,900.0	7,340.0	9,132.2	7,566.0	36.9	37.5	148.26	-1,865.6	-465.4	265.8	222.7	43.08	6.169		
8,984.4	7,340.0	9,216.5	7,566.0	38.3	38.8	148.37	-1,950.0	-465.4	265.4	221.1	44.36	5.984		
9,000.0	7,340.0	9,232.2	7,566.0	38.5	39.1	148.37	-1,965.6	-465.4	265.4	220.8	44.61	5.950		
9,100.0	7,340.0	9,332.1	7,566.0	40.2	40.7	148.16	-2,065.6	-465.4	266.0	219.6	46.44	5.729		
9,200.0	7,340.0	9,432.1	7,566.0	41.8	42.4	147.67	-2,165.6	-465.4	267.5	218.9	48.62	5.502		
9,300.0	7,340.0	9,532.1	7,566.0	43.5	44.0	147.13	-2,265.5	-465.4	269.1	218.1	51.00	5.277		
9,400.0	7,340.0	9,632.0	7,566.0	45.2	45.7	146.59	-2,365.5	-465.4	270.8	217.3	53.42	5.068		
9,500.0	7,340.0	9,732.0	7,566.0	46.8	47.3	146.06	-2,465.4	-465.4	272.4	216.5	55.90	4.874		
9,600.0	7,340.0	9,831.9	7,566.0	48.5	49.0	145.54	-2,565.4	-465.4	274.1	215.7	58.42	4.692		
9,700.0	7,340.0	9,931.9	7,566.0	50.2	50.7	145.02	-2,665.3	-465.4	275.9	214.9	60.99	4.523		
9,800.0	7,340.0	10,031.8	7,566.0	51.9	52.3	144.51	-2,765.3	-465.4	277.6	214.0	63.60	4.365		
9,900.0	7,340.0	10,131.8	7,566.0	53.6	54.0	144.01	-2,865.2	-465.4	279.4	213.1	66.26	4.216		
10,000.0	7,340.0	10,231.7	7,566.0	55.3	55.7	143.51	-2,965.2	-465.4	281.2	212.2	68.96	4.077		
10,100.0	7,340.0	10,331.7	7,566.0	57.0	57.4	143.02	-3,065.2	-465.4	283.0	211.3	71.69	3.947		
10,200.0	7,340.0	10,431.7	7,566.0	58.7	59.1	142.53	-3,165.1	-465.4	284.8	210.3	74.46	3.824		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1B-19H-B268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,340.0	10,531.6	7,566.0	60.4	60.8	142.07	-3,265.1	-465.4	286.5	209.2	77.32	3.706		
10,400.0	7,340.0	10,631.6	7,566.0	62.1	62.5	141.85	-3,365.1	-465.4	287.4	207.4	79.96	3.594		
10,500.0	7,340.0	10,731.6	7,566.0	63.8	64.2	141.81	-3,465.1	-465.4	287.5	205.3	82.18	3.499		
10,600.0	7,340.0	10,831.6	7,566.0	65.5	65.9	141.79	-3,565.1	-465.4	287.6	203.3	84.37	3.409		
10,700.0	7,340.0	10,931.6	7,566.0	67.2	67.6	141.76	-3,665.1	-465.4	287.7	201.2	86.56	3.324		
10,800.0	7,340.0	11,031.6	7,566.0	69.0	69.3	141.73	-3,765.1	-465.4	287.9	199.1	88.76	3.243		
10,900.0	7,340.0	11,131.6	7,566.0	70.7	71.0	141.70	-3,865.1	-465.4	288.0	197.0	90.96	3.166		
11,000.0	7,340.0	11,231.6	7,566.0	72.4	72.8	141.68	-3,965.1	-465.4	288.1	194.9	93.16	3.092		
11,100.0	7,340.0	11,331.6	7,566.0	74.1	74.5	141.65	-4,065.1	-465.4	288.2	192.8	95.37	3.022		
11,200.0	7,340.0	11,431.6	7,566.0	75.9	76.2	141.62	-4,165.1	-465.4	288.3	190.7	97.59	2.954		
11,300.0	7,340.0	11,531.6	7,566.0	77.6	77.9	141.60	-4,265.1	-465.4	288.4	188.6	99.80	2.890		
11,400.0	7,340.0	11,631.6	7,566.0	79.3	79.6	141.57	-4,365.1	-465.4	288.5	186.5	102.02	2.828		
11,500.0	7,340.0	11,731.6	7,566.0	81.1	81.4	141.54	-4,465.1	-465.4	288.6	184.4	104.25	2.768		
11,600.0	7,340.0	11,831.6	7,566.0	82.8	83.1	141.51	-4,565.1	-465.4	288.7	182.2	106.48	2.712		
11,700.0	7,340.0	11,931.6	7,566.0	84.5	84.8	141.49	-4,665.1	-465.4	288.8	180.1	108.71	2.657 SF		
11,800.0	7,340.0	12,028.5	7,566.0	86.2	86.5	142.09	-4,762.0	-465.4	301.0	206.6	94.45	3.187		
11,845.3	7,340.0	12,065.2	7,566.0	86.8	87.1	144.13	-4,798.6	-465.4	319.0	243.6	75.42	4.230		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	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)				Between Centres (ft)	Between Ellipses (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 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	179.27	0.4	10.1	11.8	10.1	1.70	6.955		
600.0	599.9	600.0	600.0	1.0	1.0	179.33	0.4	9.7	15.5	13.4	2.05	7.548		
700.0	699.8	699.9	699.9	1.2	1.2	179.36	0.4	9.4	19.1	16.7	2.40	7.978		
800.0	799.7	799.8	799.8	1.4	1.4	179.38	0.4	9.0	22.8	20.0	2.75	8.298		
900.0	899.7	899.8	899.8	1.6	1.5	179.40	0.5	8.6	26.4	23.4	3.09	8.546		
1,000.0	999.6	999.7	999.7	1.8	1.7	179.41	0.5	8.3	30.1	26.7	3.44	8.744		
1,100.0	1,099.5	1,099.6	1,099.6	2.0	1.9	179.42	0.5	7.9	33.8	30.0	3.79	8.906		
1,200.0	1,199.4	1,199.6	1,199.5	2.1	2.1	179.42	0.5	7.5	37.4	33.3	4.14	9.040		
1,300.0	1,299.3	1,299.5	1,299.5	2.3	2.2	179.43	0.6	7.2	41.1	36.6	4.49	9.153		
1,400.0	1,399.3	1,399.4	1,399.4	2.5	2.4	179.43	0.6	6.8	44.8	39.9	4.84	9.250		
1,500.0	1,499.2	1,499.4	1,499.3	2.7	2.6	179.44	0.6	6.5	48.4	43.2	5.19	9.334		
1,600.0	1,599.1	1,599.3	1,599.3	2.9	2.8	179.44	0.6	6.1	52.1	46.6	5.54	9.408		
1,700.0	1,699.0	1,699.2	1,699.2	3.1	2.9	179.45	0.7	5.7	55.8	49.9	5.89	9.472		
1,800.0	1,798.9	1,799.2	1,799.1	3.3	3.1	179.45	0.7	5.4	59.4	53.2	6.24	9.530		
1,900.0	1,898.8	1,899.1	1,899.1	3.5	3.3	179.45	0.7	5.0	63.1	56.5	6.58	9.581		
2,000.0	1,998.8	1,999.0	1,999.0	3.6	3.5	179.45	0.7	4.6	66.7	59.8	6.93	9.628		
2,100.0	2,098.7	2,098.9	2,098.9	3.8	3.6	179.45	0.8	4.3	70.4	63.1	7.28	9.669		
2,200.0	2,198.6	2,198.9	2,198.9	4.0	3.8	179.46	0.8	3.9	74.1	66.4	7.63	9.707		
2,300.0	2,298.5	2,298.8	2,298.8	4.2	4.0	179.46	0.8	3.6	77.7	69.8	7.98	9.742		
2,400.0	2,398.4	2,398.7	2,398.7	4.4	4.2	179.46	0.8	3.2	81.4	73.1	8.33	9.774		
2,500.0	2,498.4	2,498.7	2,498.7	4.6	4.3	179.46	0.9	2.8	85.1	76.4	8.68	9.803		
2,600.0	2,598.3	2,598.6	2,598.6	4.8	4.5	179.46	0.9	2.5	88.7	79.7	9.03	9.830		
2,700.0	2,698.2	2,698.5	2,698.5	5.0	4.7	179.46	0.9	2.1	92.4	83.0	9.38	9.855		
2,800.0	2,798.1	2,798.5	2,798.5	5.1	4.9	179.46	0.9	1.7	96.1	86.3	9.72	9.878		
2,900.0	2,898.0	2,898.4	2,898.4	5.3	5.0	179.47	1.0	1.4	99.7	89.6	10.07	9.899		
3,000.0	2,998.0	2,998.3	2,998.3	5.5	5.2	179.47	1.0	1.0	103.4	93.0	10.42	9.920		
3,100.0	3,097.9	3,098.3	3,098.3	5.7	5.4	179.47	1.0	0.6	107.0	96.3	10.77	9.938		
3,200.0	3,197.8	3,198.2	3,198.2	5.9	5.6	179.47	1.0	0.3	110.7	99.6	11.12	9.956		
3,300.0	3,297.7	3,298.1	3,298.1	6.1	5.7	179.47	1.1	-0.1	114.4	102.9	11.47	9.973		
3,400.0	3,397.6	3,398.1	3,398.1	6.3	5.9	179.47	1.1	-0.4	118.0	106.2	11.82	9.988		
3,500.0	3,497.5	3,498.0	3,498.0	6.5	6.1	179.47	1.1	-0.8	121.7	109.5	12.17	10.003		
3,600.0	3,597.5	3,597.9	3,597.9	6.6	6.3	179.47	1.1	-1.2	125.4	112.8	12.52	10.017		
3,700.0	3,697.4	3,697.9	3,697.9	6.8	6.4	179.47	1.2	-1.5	129.0	116.2	12.86	10.030		
3,800.0	3,797.3	3,797.8	3,797.8	7.0	6.6	179.47	1.2	-1.9	132.7	119.5	13.21	10.042		
3,900.0	3,897.2	3,897.7	3,897.7	7.2	6.8	179.47	1.2	-2.3	136.4	122.8	13.56	10.054		
4,000.0	3,997.1	3,997.7	3,997.7	7.4	7.0	179.47	1.2	-2.6	140.0	126.1	13.91	10.065		
4,100.0	4,097.1	4,097.6	4,097.6	7.6	7.1	179.47	1.3	-3.0	143.7	129.4	14.26	10.076		
4,200.0	4,197.0	4,197.5	4,197.5	7.8	7.3	179.47	1.3	-3.3	147.3	132.7	14.61	10.086		
4,300.0	4,296.9	4,297.5	4,297.4	8.0	7.5	179.47	1.3	-3.7	151.0	136.0	14.96	10.096		
4,400.0	4,396.8	4,397.4	4,397.4	8.2	7.7	179.47	1.3	-4.1	154.7	139.4	15.31	10.105		
4,500.0	4,496.7	4,497.3	4,497.3	8.3	7.8	179.47	1.4	-4.4	158.3	142.7	15.66	10.114		
4,600.0	4,596.7	4,597.3	4,597.2	8.5	8.0	179.48	1.4	-4.8	162.0	146.0	16.00	10.122		
4,700.0	4,696.6	4,697.2	4,697.2	8.7	8.2	179.48	1.4	-5.2	165.7	149.3	16.35	10.130		
4,800.0	4,796.5	4,797.1	4,797.1	8.9	8.4	179.48	1.4	-5.5	169.3	152.6	16.70	10.138		
4,900.0	4,896.4	4,897.1	4,897.0	9.1	8.5	179.48	1.5	-5.9	173.0	155.9	17.05	10.145		
5,000.0	4,996.3	4,997.0	4,997.0	9.3	8.7	179.48	1.5	-6.2	176.7	159.3	17.40	10.152		
5,100.0	5,096.3	5,096.9	5,096.9	9.5	8.9	179.48	1.5	-6.6	180.3	162.6	17.75	10.159		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	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	5,196.2	5,196.9	5,196.8	9.7	9.1	179.48	1.5	-7.0	184.0	165.9	18.10	10.166		
5,300.0	5,296.1	5,296.8	5,296.8	9.8	9.2	179.48	1.6	-7.3	187.6	169.2	18.45	10.172		
5,400.0	5,396.0	5,396.7	5,396.7	10.0	9.4	179.48	1.6	-7.7	191.3	172.5	18.80	10.178		
5,500.0	5,495.9	5,496.7	5,496.6	10.2	9.6	179.48	1.6	-8.1	195.0	175.8	19.14	10.184		
5,600.0	5,595.8	5,596.6	5,596.6	10.4	9.8	179.48	1.6	-8.4	198.6	179.1	19.49	10.190		
5,700.0	5,695.8	5,696.5	5,696.5	10.6	9.9	179.48	1.7	-8.8	202.3	182.5	19.84	10.195		
5,800.0	5,795.7	5,796.5	5,796.4	10.8	10.1	179.48	1.7	-9.2	206.0	185.8	20.19	10.200		
5,900.0	5,895.6	5,896.4	5,896.4	11.0	10.3	179.48	1.7	-9.5	209.6	189.1	20.54	10.205		
6,000.0	5,995.5	5,996.3	5,996.3	11.2	10.4	179.48	1.7	-9.9	213.3	192.4	20.89	10.210		
6,100.0	6,095.4	6,096.3	6,096.2	11.4	10.6	179.48	1.8	-10.2	217.0	195.7	21.24	10.215		
6,200.0	6,195.4	6,196.2	6,196.2	11.5	10.8	179.48	1.8	-10.6	220.6	199.0	21.59	10.220		
6,300.0	6,295.3	6,296.1	6,296.1	11.7	11.0	179.48	1.8	-11.0	224.3	202.3	21.94	10.224		
6,400.0	6,395.2	6,396.1	6,396.0	11.9	11.1	179.48	1.8	-11.3	227.9	205.7	22.28	10.228		
6,500.0	6,495.1	6,496.0	6,496.0	12.1	11.3	179.48	1.9	-11.7	231.6	209.0	22.63	10.233		
6,600.0	6,595.0	6,595.9	6,595.9	12.3	11.5	179.48	1.9	-12.1	235.3	212.3	22.98	10.237		
6,700.0	6,694.8	6,695.7	6,695.7	12.5	11.7	-116.02	1.9	-12.4	239.1	215.8	23.33	10.251		
6,800.0	6,793.3	6,796.8	6,796.7	12.7	11.8	-106.02	-2.3	-12.8	244.0	220.4	23.67	10.310		
6,900.0	6,888.4	6,900.2	6,898.2	12.9	12.0	-105.00	-20.9	-13.2	249.8	225.8	24.02	10.400		
7,000.0	6,978.4	7,005.5	6,997.9	13.2	12.3	-105.58	-54.7	-13.5	256.1	231.7	24.41	10.494		
7,100.0	7,061.5	7,112.8	7,093.2	13.6	12.6	-106.55	-103.7	-13.9	262.8	237.9	24.91	10.550		
7,200.0	7,136.1	7,221.9	7,181.5	14.1	13.0	-107.52	-167.6	-14.2	269.5	243.9	25.62	10.522		
7,300.0	7,200.8	7,332.8	7,260.3	14.7	13.6	-108.33	-245.5	-14.5	276.0	249.4	26.62	10.368		
7,400.0	7,254.2	7,445.2	7,326.9	15.5	14.4	-108.90	-335.9	-14.7	282.1	254.1	28.01	10.070		
7,500.0	7,295.3	7,558.8	7,379.0	16.5	15.4	-109.21	-436.7	-14.9	287.4	257.5	29.83	9.634		
7,600.0	7,323.4	7,673.3	7,414.8	17.6	16.7	-109.22	-545.3	-15.0	291.8	259.7	32.07	9.097		
7,700.0	7,337.9	7,788.3	7,432.8	18.8	18.1	-108.95	-658.8	-15.1	295.1	260.4	34.69	8.508		
7,800.0	7,340.0	7,895.6	7,435.0	20.1	19.5	-108.62	-766.0	-15.1	297.6	260.2	37.40	7.957		
7,900.0	7,340.0	7,995.5	7,435.0	21.4	20.9	-108.46	-866.0	-15.1	300.1	260.0	40.07	7.490		
8,000.0	7,340.0	8,095.5	7,435.0	22.8	22.3	-108.31	-965.9	-15.1	302.6	259.7	42.83	7.064		
8,100.0	7,340.0	8,195.4	7,435.0	24.3	23.8	-108.15	-1,065.9	-15.1	305.1	259.4	45.68	6.678		
8,200.0	7,340.0	8,295.4	7,435.0	25.8	25.3	-108.00	-1,165.8	-15.1	307.5	258.9	48.60	6.328		
8,300.0	7,340.0	8,395.4	7,435.0	27.3	26.9	-107.85	-1,265.8	-15.1	310.0	258.5	51.58	6.011		
8,400.0	7,340.0	8,495.3	7,435.0	28.9	28.4	-107.70	-1,365.8	-15.1	312.5	257.9	54.60	5.723		
8,500.0	7,340.0	8,595.3	7,435.0	30.4	30.0	-107.56	-1,465.7	-15.1	315.0	257.3	57.67	5.462		
8,600.0	7,340.0	8,695.3	7,435.0	32.0	31.6	-107.42	-1,565.7	-15.1	317.5	256.7	60.78	5.224		
8,700.0	7,340.0	8,795.2	7,435.0	33.7	33.2	-107.27	-1,665.7	-15.1	320.0	256.1	63.92	5.006		
8,800.0	7,340.0	8,895.2	7,435.0	35.3	34.9	-107.14	-1,765.6	-15.1	322.5	255.4	67.09	4.807		
8,900.0	7,340.0	8,995.2	7,435.0	36.9	36.5	-107.02	-1,865.6	-15.1	324.7	254.4	70.23	4.623		
9,000.0	7,340.0	9,095.2	7,435.0	38.5	38.2	-106.98	-1,965.6	-15.1	325.2	251.9	73.33	4.435		
9,100.0	7,340.0	9,195.2	7,435.0	40.2	39.8	-107.05	-2,065.6	-15.1	324.1	247.7	76.39	4.243		
9,200.0	7,340.0	9,295.1	7,435.0	41.8	41.5	-107.19	-2,165.6	-15.1	321.5	242.1	79.47	4.046		
9,300.0	7,340.0	9,395.1	7,435.0	43.5	43.2	-107.35	-2,265.5	-15.1	318.6	236.0	82.61	3.857		
9,400.0	7,340.0	9,495.0	7,435.0	45.2	44.9	-107.52	-2,365.5	-15.1	315.8	230.0	85.75	3.682		
9,500.0	7,340.0	9,595.0	7,435.0	46.8	46.6	-107.68	-2,465.4	-15.1	312.9	224.0	88.90	3.520		
9,600.0	7,340.0	9,695.0	7,435.0	48.5	48.3	-107.85	-2,565.4	-15.1	310.0	218.0	92.04	3.368		
9,700.0	7,340.0	9,794.9	7,435.0	50.2	50.0	-108.03	-2,665.3	-15.1	307.1	211.9	95.19	3.227		
9,800.0	7,340.0	9,894.9	7,435.0	51.9	51.7	-108.20	-2,765.3	-15.1	304.3	205.9	98.33	3.094		
9,900.0	7,340.0	9,994.8	7,435.0	53.6	53.4	-108.38	-2,865.2	-15.1	301.4	199.9	101.48	2.970		
10,000.0	7,340.0	10,094.8	7,435.0	55.3	55.1	-108.56	-2,965.2	-15.1	298.5	193.9	104.62	2.854		
10,100.0	7,340.0	10,194.7	7,435.0	57.0	56.8	-108.75	-3,065.2	-15.1	295.7	187.9	107.75	2.744		
10,200.0	7,340.0	10,294.7	7,435.0	58.7	58.5	-108.94	-3,165.1	-15.1	292.8	181.9	110.88	2.641		
10,300.0	7,340.0	10,394.6	7,435.0	60.4	60.2	-109.12	-3,265.1	-15.1	290.1	176.1	114.06	2.543		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1D-19H-B2688 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,340.0	10,494.6	7,435.0	62.1	61.9	-109.21	-3,365.1	-15.1	288.8	171.4	117.35	2.461		
10,500.0	7,340.0	10,594.6	7,435.0	63.8	63.6	-109.22	-3,465.1	-15.1	288.6	168.0	120.61	2.393		
10,600.0	7,340.0	10,694.6	7,435.0	65.5	65.4	-109.23	-3,565.1	-15.1	288.4	164.6	123.85	2.329		
10,700.0	7,340.0	10,794.6	7,435.0	67.2	67.1	-109.24	-3,665.1	-15.1	288.3	161.2	127.10	2.268		
10,800.0	7,340.0	10,894.6	7,435.0	69.0	68.8	-109.25	-3,765.1	-15.1	288.1	157.7	130.35	2.210		
10,900.0	7,340.0	10,994.6	7,435.0	70.7	70.5	-109.27	-3,865.1	-15.1	287.9	154.3	133.60	2.155		
11,000.0	7,340.0	11,094.6	7,435.0	72.4	72.3	-109.28	-3,965.1	-15.1	287.8	150.9	136.86	2.103		
11,100.0	7,340.0	11,194.6	7,435.0	74.1	74.0	-109.29	-4,065.1	-15.1	287.6	147.5	140.11	2.053		
11,200.0	7,340.0	11,294.6	7,435.0	75.9	75.7	-109.30	-4,165.1	-15.1	287.4	144.1	143.37	2.005		
11,300.0	7,340.0	11,394.6	7,435.0	77.6	77.5	-109.31	-4,265.1	-15.1	287.3	140.6	146.63	1.959		
11,400.0	7,340.0	11,494.6	7,435.0	79.3	79.2	-109.32	-4,365.1	-15.1	287.1	137.2	149.89	1.915		
11,500.0	7,340.0	11,594.6	7,435.0	81.1	80.9	-109.33	-4,465.1	-15.1	286.9	133.8	153.15	1.874		
11,600.0	7,340.0	11,694.6	7,435.0	82.8	82.7	-109.35	-4,565.1	-15.1	286.8	130.4	156.42	1.833		
11,700.0	7,340.0	11,794.6	7,435.0	84.5	84.4	-109.36	-4,665.1	-15.1	286.6	126.9	159.68	1.795 SF		
11,800.0	7,340.0	11,891.5	7,435.0	86.2	86.1	-113.12	-4,762.0	-15.1	268.7	128.7	140.09	1.918		
11,845.3	7,340.0	11,924.8	7,435.0	86.8	86.7	-119.82	-4,795.2	-15.1	244.4	133.0	111.35	2.195		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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	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	500.0	500.0	0.9	0.8	179.20	0.7	20.1	21.9	20.2	1.70	12.882		
600.0	599.9	599.9	599.9	1.0	1.0	179.32	0.7	20.1	25.9	23.8	2.05	12.634		
700.0	699.8	699.8	699.8	1.2	1.2	179.41	0.7	20.1	29.9	27.5	2.40	12.475		
800.0	799.7	799.7	799.7	1.4	1.4	179.48	0.7	20.1	33.9	31.2	2.75	12.356		
900.0	899.7	899.7	899.7	1.6	1.5	179.54	0.7	20.1	38.0	34.9	3.09	12.263		
1,000.0	999.6	999.6	999.6	1.8	1.7	179.58	0.7	20.1	42.0	38.5	3.44	12.190		
1,100.0	1,099.5	1,099.5	1,099.5	2.0	1.9	179.62	0.7	20.1	46.0	42.2	3.79	12.130		
1,200.0	1,199.4	1,199.4	1,199.4	2.1	2.1	179.65	0.7	20.1	50.0	45.9	4.14	12.080		
1,300.0	1,299.3	1,299.3	1,299.3	2.3	2.2	179.68	0.7	20.1	54.1	49.6	4.49	12.038		
1,400.0	1,399.3	1,399.3	1,399.3	2.5	2.4	179.70	0.7	20.1	58.1	53.2	4.84	12.002		
1,500.0	1,499.2	1,499.2	1,499.2	2.7	2.6	179.72	0.7	20.1	62.1	56.9	5.19	11.971		
1,600.0	1,599.1	1,599.1	1,599.1	2.9	2.8	179.74	0.7	20.1	66.1	60.6	5.54	11.944		
1,700.0	1,699.0	1,699.0	1,699.0	3.1	2.9	179.75	0.7	20.1	70.2	64.3	5.89	11.920		
1,800.0	1,798.9	1,798.9	1,798.9	3.3	3.1	179.76	0.7	20.1	74.2	67.9	6.23	11.899		
1,900.0	1,898.8	1,898.8	1,898.8	3.5	3.3	179.78	0.7	20.1	78.2	71.6	6.58	11.879		
2,000.0	1,998.8	1,998.8	1,998.8	3.6	3.5	179.79	0.7	20.1	82.2	75.3	6.93	11.862		
2,100.0	2,098.7	2,098.7	2,098.7	3.8	3.6	179.80	0.7	20.1	86.3	79.0	7.28	11.847		
2,200.0	2,198.6	2,198.6	2,198.6	4.0	3.8	179.81	0.7	20.1	90.3	82.7	7.63	11.833		
2,300.0	2,298.5	2,298.5	2,298.5	4.2	4.0	179.81	0.7	20.1	94.3	86.3	7.98	11.820		
2,400.0	2,398.4	2,398.4	2,398.4	4.4	4.2	179.82	0.7	20.1	98.3	90.0	8.33	11.808		
2,500.0	2,498.4	2,498.4	2,498.4	4.6	4.3	179.83	0.7	20.1	102.4	93.7	8.68	11.797		
2,600.0	2,598.3	2,598.3	2,598.3	4.8	4.5	179.84	0.7	20.1	106.4	97.4	9.03	11.787		
2,700.0	2,698.2	2,698.2	2,698.2	5.0	4.7	179.84	0.7	20.1	110.4	101.0	9.37	11.778		
2,800.0	2,798.1	2,798.1	2,798.1	5.1	4.9	179.85	0.7	20.1	114.4	104.7	9.72	11.770		
2,900.0	2,898.0	2,898.0	2,898.0	5.3	5.0	179.85	0.7	20.1	118.5	108.4	10.07	11.762		
3,000.0	2,998.0	2,998.0	2,998.0	5.5	5.2	179.86	0.7	20.1	122.5	112.1	10.42	11.754		
3,100.0	3,097.9	3,097.9	3,097.9	5.7	5.4	179.86	0.7	20.1	126.5	115.7	10.77	11.747		
3,200.0	3,197.8	3,197.8	3,197.8	5.9	5.6	179.87	0.7	20.1	130.5	119.4	11.12	11.741		
3,300.0	3,297.7	3,297.7	3,297.7	6.1	5.7	179.87	0.7	20.1	134.6	123.1	11.47	11.735		
3,400.0	3,397.6	3,397.6	3,397.6	6.3	5.9	179.87	0.7	20.1	138.6	126.8	11.82	11.729		
3,500.0	3,497.5	3,497.5	3,497.5	6.5	6.1	179.88	0.7	20.1	142.6	130.5	12.17	11.723		
3,600.0	3,597.5	3,597.5	3,597.5	6.6	6.3	179.88	0.7	20.1	146.6	134.1	12.51	11.718		
3,700.0	3,697.4	3,697.4	3,697.4	6.8	6.4	179.88	0.7	20.1	150.7	137.8	12.86	11.713		
3,800.0	3,797.3	3,797.3	3,797.3	7.0	6.6	179.89	0.7	20.1	154.7	141.5	13.21	11.709		
3,900.0	3,897.2	3,897.2	3,897.2	7.2	6.8	179.89	0.7	20.1	158.7	145.2	13.56	11.704		
4,000.0	3,997.1	3,997.1	3,997.1	7.4	7.0	179.89	0.7	20.1	162.7	148.8	13.91	11.700		
4,100.0	4,097.1	4,097.1	4,097.1	7.6	7.1	179.89	0.8	21.6	168.3	154.1	14.25	11.813		
4,200.0	4,197.0	4,187.5	4,187.4	7.8	7.3	179.87	0.9	26.1	177.0	162.4	14.59	12.132		
4,300.0	4,296.9	4,287.0	4,286.8	8.0	7.5	179.86	1.1	31.5	186.5	171.5	14.94	12.482		
4,400.0	4,396.8	4,386.6	4,386.2	8.2	7.6	179.84	1.3	36.9	195.9	180.6	15.29	12.816		
4,500.0	4,496.7	4,486.2	4,485.6	8.3	7.8	179.83	1.5	42.3	205.4	189.7	15.63	13.135		
4,600.0	4,596.7	4,585.7	4,585.0	8.5	8.0	179.82	1.7	47.7	214.8	198.8	15.98	13.440		
4,700.0	4,696.6	4,685.3	4,684.4	8.7	8.2	179.81	1.9	53.1	224.2	207.9	16.33	13.732		
4,800.0	4,796.5	4,784.8	4,783.8	8.9	8.4	179.80	2.0	58.5	233.7	217.0	16.68	14.012		
4,900.0	4,896.4	4,884.4	4,883.2	9.1	8.5	179.79	2.2	63.9	243.1	226.1	17.03	14.280		
5,000.0	4,996.3	4,983.9	4,982.6	9.3	8.7	179.78	2.4	69.3	252.6	235.2	17.37	14.538		
5,100.0	5,096.3	5,083.5	5,082.0	9.5	8.9	179.77	2.6	74.7	262.0	244.3	17.72	14.786		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1E-19H-B2687 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,196.2	5,183.0	5,181.4	9.7	9.1	179.76	2.8	80.1	271.5	253.4	18.07	15.024		
5,300.0	5,296.1	5,282.6	5,280.8	9.8	9.3	179.75	3.0	85.5	280.9	262.5	18.42	15.253		
5,400.0	5,396.0	5,382.1	5,380.2	10.0	9.5	179.75	3.2	90.9	290.4	271.6	18.77	15.473		
5,500.0	5,495.9	5,481.7	5,479.6	10.2	9.6	179.74	3.4	96.3	299.8	280.7	19.11	15.686		
5,600.0	5,595.8	5,581.2	5,579.1	10.4	9.8	179.74	3.5	101.7	309.3	289.8	19.46	15.891		
5,700.0	5,695.8	5,680.8	5,678.5	10.6	10.0	179.73	3.7	107.1	318.7	298.9	19.81	16.089		
5,800.0	5,795.7	5,780.3	5,777.9	10.8	10.2	179.72	3.9	112.5	328.2	308.0	20.16	16.279		
5,900.0	5,895.6	5,879.9	5,877.3	11.0	10.4	179.72	4.1	117.9	337.6	317.1	20.51	16.464		
6,000.0	5,995.5	5,979.4	5,976.7	11.2	10.6	179.72	4.3	123.4	347.0	326.2	20.85	16.642		
6,100.0	6,095.4	6,079.0	6,076.1	11.4	10.8	179.71	4.5	128.8	356.5	335.3	21.20	16.815		
6,200.0	6,195.4	6,178.5	6,175.5	11.5	11.0	179.71	4.7	134.2	365.9	344.4	21.55	16.982		
6,300.0	6,295.3	6,278.1	6,274.9	11.7	11.1	179.70	4.8	139.6	375.4	353.5	21.90	17.143		
6,400.0	6,395.2	6,377.7	6,374.3	11.9	11.3	179.70	5.0	145.0	384.8	362.6	22.25	17.300		
6,500.0	6,495.1	6,477.2	6,473.7	12.1	11.5	179.70	5.2	150.4	394.3	371.7	22.59	17.451		
6,600.0	6,595.0	6,576.8	6,573.1	12.3	11.7	179.69	5.4	155.8	403.7	380.8	22.94	17.599		
6,700.0	6,694.8	6,676.2	6,672.4	12.5	11.9	-115.16	5.6	161.2	413.3	390.1	23.29	17.751		
6,800.0	6,793.3	6,774.2	6,770.3	12.7	12.1	-103.96	5.8	166.5	424.0	400.3	23.63	17.945		
6,900.0	6,888.4	6,870.3	6,866.2	12.9	12.3	-103.24	5.8	171.7	436.9	413.0	23.96	18.236		
7,000.0	6,978.4	6,975.2	6,970.4	13.2	12.5	-104.89	-4.2	177.4	452.5	428.2	24.31	18.617		
7,100.0	7,061.5	7,086.4	7,078.0	13.6	12.7	-106.96	-31.2	183.2	469.7	445.0	24.71	19.011		
7,200.0	7,136.1	7,204.9	7,186.6	14.1	13.0	-109.03	-77.9	189.1	487.7	462.4	25.24	19.324		
7,300.0	7,200.8	7,331.4	7,292.3	14.7	13.4	-110.92	-146.8	194.9	505.4	479.4	26.00	19.436		
7,400.0	7,254.2	7,466.2	7,389.8	15.5	14.1	-112.48	-239.5	200.2	521.8	494.7	27.14	19.230		
7,500.0	7,295.3	7,608.8	7,472.1	16.5	15.2	-113.62	-355.6	204.6	535.7	507.0	28.75	18.634		
7,600.0	7,323.4	7,758.1	7,532.0	17.6	16.6	-114.25	-491.9	207.9	546.2	515.3	30.93	17.660		
7,700.0	7,337.9	7,911.5	7,562.7	18.8	18.4	-114.29	-641.9	209.6	552.4	518.7	33.66	16.409		
7,800.0	7,340.0	8,035.6	7,566.0	20.1	20.0	-114.04	-766.0	209.7	555.0	518.6	36.41	15.241		
7,900.0	7,340.0	8,135.6	7,566.0	21.4	21.3	-113.93	-866.0	209.7	557.4	518.4	38.97	14.303		
8,000.0	7,340.0	8,235.6	7,566.0	22.8	22.7	-113.82	-965.9	209.7	559.8	518.1	41.62	13.449		
8,100.0	7,340.0	8,335.5	7,566.0	24.3	24.2	-113.71	-1,065.9	209.7	562.2	517.8	44.35	12.675		
8,200.0	7,340.0	8,435.5	7,566.0	25.8	25.7	-113.60	-1,165.8	209.7	564.6	517.4	47.16	11.972		
8,300.0	7,340.0	8,535.5	7,566.0	27.3	27.2	-113.50	-1,265.8	209.7	567.0	516.9	50.02	11.336		
8,400.0	7,340.0	8,635.4	7,566.0	28.9	28.8	-113.39	-1,365.8	209.7	569.4	516.4	52.92	10.758		
8,500.0	7,340.0	8,735.4	7,566.0	30.4	30.3	-113.29	-1,465.7	209.7	571.8	515.9	55.87	10.233		
8,600.0	7,340.0	8,835.4	7,566.0	32.0	31.9	-113.19	-1,565.7	209.7	574.2	515.3	58.86	9.755		
8,700.0	7,340.0	8,935.3	7,566.0	33.7	33.5	-113.08	-1,665.7	209.7	576.6	514.7	61.88	9.318		
8,800.0	7,340.0	9,035.3	7,566.0	35.3	35.2	-112.98	-1,765.6	209.7	579.0	514.1	64.93	8.917		
8,900.0	7,340.0	9,135.3	7,566.0	36.9	36.8	-112.89	-1,865.6	209.7	581.1	513.1	67.99	8.546		
9,000.0	7,340.0	9,235.3	7,566.0	38.5	38.4	-112.87	-1,965.6	209.7	581.6	510.6	71.03	8.188		
9,100.0	7,340.0	9,335.2	7,566.0	40.2	40.1	-112.91	-2,065.6	209.7	580.6	506.5	74.04	7.841		
9,200.0	7,340.0	9,435.2	7,566.0	41.8	41.8	-113.02	-2,165.6	209.7	578.0	501.0	77.03	7.504		
9,300.0	7,340.0	9,535.2	7,566.0	43.5	43.4	-113.14	-2,265.5	209.7	575.3	495.2	80.05	7.186		
9,400.0	7,340.0	9,635.1	7,566.0	45.2	45.1	-113.26	-2,365.5	209.7	572.5	489.4	83.08	6.891		
9,500.0	7,340.0	9,735.1	7,566.0	46.8	46.8	-113.38	-2,465.4	209.8	569.7	483.6	86.11	6.616		
9,600.0	7,340.0	9,835.0	7,566.0	48.5	48.5	-113.50	-2,565.4	209.8	566.9	477.8	89.14	6.360		
9,700.0	7,340.0	9,935.0	7,566.0	50.2	50.2	-113.62	-2,665.3	209.8	564.2	472.0	92.18	6.121		
9,800.0	7,340.0	10,034.9	7,566.0	51.9	51.9	-113.75	-2,765.3	209.8	561.4	466.2	95.21	5.896		
9,900.0	7,340.0	10,134.9	7,566.0	53.6	53.6	-113.87	-2,865.2	209.8	558.6	460.4	98.24	5.686		
10,000.0	7,340.0	10,234.8	7,566.0	55.3	55.3	-114.00	-2,965.2	209.8	555.9	454.6	101.28	5.489		
10,100.0	7,340.0	10,334.8	7,566.0	57.0	57.0	-114.13	-3,065.2	209.8	553.1	448.8	104.31	5.303		
10,200.0	7,340.0	10,434.8	7,566.0	58.7	58.7	-114.25	-3,165.1	209.8	550.4	443.0	107.33	5.128		
10,300.0	7,340.0	10,534.7	7,566.0	60.4	60.4	-114.37	-3,265.1	209.8	547.8	437.4	110.39	4.962		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	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	7,340.0	10,634.7	7,566.0	62.1	62.1	-114.43	-3,365.1	209.8	546.5	433.0	113.51	4.814		
10,500.0	7,340.0	10,734.7	7,566.0	63.8	63.8	-114.44	-3,465.1	209.8	546.3	429.7	116.64	4.684		
10,600.0	7,340.0	10,834.7	7,566.0	65.5	65.5	-114.44	-3,565.1	209.8	546.1	426.4	119.77	4.560		
10,700.0	7,340.0	10,934.7	7,566.0	67.2	67.3	-114.45	-3,665.1	209.8	546.0	423.1	122.90	4.442		
10,800.0	7,340.0	11,034.7	7,566.0	69.0	69.0	-114.46	-3,765.1	209.8	545.8	419.8	126.04	4.331		
10,900.0	7,340.0	11,134.7	7,566.0	70.7	70.7	-114.47	-3,865.1	209.8	545.7	416.5	129.17	4.224		
11,000.0	7,340.0	11,234.7	7,566.0	72.4	72.4	-114.47	-3,965.1	209.8	545.5	413.2	132.31	4.123		
11,100.0	7,340.0	11,334.7	7,566.0	74.1	74.1	-114.48	-4,065.1	209.8	545.3	409.9	135.45	4.026		
11,200.0	7,340.0	11,434.7	7,566.0	75.9	75.9	-114.49	-4,165.1	209.8	545.2	406.6	138.60	3.934		
11,300.0	7,340.0	11,534.7	7,566.0	77.6	77.6	-114.50	-4,265.1	209.8	545.0	403.3	141.74	3.845		
11,400.0	7,340.0	11,634.7	7,566.0	79.3	79.3	-114.51	-4,365.1	209.8	544.9	400.0	144.89	3.761		
11,500.0	7,340.0	11,734.7	7,566.0	81.1	81.1	-114.51	-4,465.1	209.8	544.7	396.7	148.03	3.680		
11,600.0	7,340.0	11,834.7	7,566.0	82.8	82.8	-114.52	-4,565.1	209.8	544.6	393.4	151.18	3.602		
11,700.0	7,340.0	11,934.7	7,566.0	84.5	84.5	-114.53	-4,665.1	209.8	544.4	390.1	154.33	3.527 SF		
11,800.0	7,340.0	12,031.6	7,566.0	86.2	86.2	-118.20	-4,762.0	209.8	527.2	390.9	136.28	3.868		
11,845.3	7,340.0	12,059.9	7,566.0	86.8	86.7	-124.22	-4,790.3	209.8	503.6	394.8	108.86	4.626		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1F-19H-B2686 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	87.94	1.1	30.2	30.2						
100.0	100.0	100.0	100.0	0.2	0.2	87.94	1.1	30.2	30.2	29.9	0.30	99.503			
200.0	200.0	200.0	200.0	0.3	0.3	87.94	1.1	30.2	30.2	29.6	0.65	46.293			
300.0	300.0	300.0	300.0	0.5	0.5	87.94	1.1	30.2	30.2	29.2	1.00	30.163			
400.0	400.0	400.0	400.0	0.7	0.7	87.94	1.1	30.2	30.2	28.9	1.35	22.369 CC, ES			
500.0	500.0	500.0	500.0	0.9	0.8	179.18	1.1	30.2	32.0	30.3	1.70	18.810			
600.0	599.9	599.9	599.9	1.0	1.0	179.27	1.1	30.2	35.9	33.9	2.05	17.553			
700.0	699.8	699.8	699.8	1.2	1.2	179.35	1.1	30.2	40.0	37.6	2.40	16.677			
800.0	799.7	799.7	799.7	1.4	1.4	179.41	1.1	30.2	44.0	41.3	2.75	16.024			
900.0	899.7	899.7	899.7	1.6	1.5	179.46	1.1	30.2	48.0	44.9	3.09	15.518			
1,000.0	999.6	997.8	997.7	1.8	1.7	179.44	1.2	31.9	53.7	50.3	3.44	15.623			
1,100.0	1,099.5	1,095.6	1,095.5	2.0	1.9	179.34	1.5	36.8	62.8	59.1	3.79	16.602			
1,200.0	1,199.4	1,195.1	1,194.7	2.1	2.1	179.23	1.9	43.2	73.2	69.1	4.13	17.718			
1,300.0	1,299.3	1,294.6	1,294.0	2.3	2.3	179.15	2.3	49.5	83.6	79.1	4.48	18.660			
1,400.0	1,399.3	1,394.0	1,393.3	2.5	2.5	179.09	2.6	55.8	94.0	89.2	4.83	19.466			
1,500.0	1,499.2	1,493.5	1,492.5	2.7	2.7	179.04	3.0	62.1	104.4	99.2	5.18	20.164			
1,600.0	1,599.1	1,592.9	1,591.8	2.9	2.9	179.00	3.4	68.5	114.8	109.2	5.52	20.775			
1,700.0	1,699.0	1,692.4	1,691.0	3.1	3.0	178.97	3.8	74.8	125.1	119.3	5.87	21.313			
1,800.0	1,798.9	1,791.9	1,790.3	3.3	3.2	178.94	4.2	81.1	135.5	129.3	6.22	21.791			
1,900.0	1,898.8	1,891.3	1,889.5	3.5	3.4	178.92	4.6	87.5	145.9	139.3	6.57	22.218			
2,000.0	1,998.8	1,990.8	1,988.8	3.6	3.6	178.89	5.0	93.8	156.3	149.4	6.91	22.603			
2,100.0	2,098.7	2,090.2	2,088.1	3.8	3.8	178.88	5.3	100.1	166.7	159.4	7.26	22.951			
2,200.0	2,198.6	2,189.7	2,187.3	4.0	4.0	178.86	5.7	106.4	177.1	169.5	7.61	23.266			
2,300.0	2,298.5	2,289.2	2,286.6	4.2	4.2	178.84	6.1	112.8	187.4	179.5	7.96	23.555			
2,400.0	2,398.4	2,388.6	2,385.8	4.4	4.4	178.83	6.5	119.1	197.8	189.5	8.31	23.819			
2,500.0	2,498.4	2,488.1	2,485.1	4.6	4.6	178.82	6.9	125.4	208.2	199.6	8.65	24.062			
2,600.0	2,598.3	2,587.5	2,584.4	4.8	4.9	178.81	7.3	131.7	218.6	209.6	9.00	24.286			
2,700.0	2,698.2	2,687.0	2,683.6	5.0	5.1	178.80	7.6	138.1	229.0	219.6	9.35	24.494			
2,800.0	2,798.1	2,786.5	2,782.9	5.1	5.3	178.79	8.0	144.4	239.4	229.7	9.70	24.686			
2,900.0	2,898.0	2,885.9	2,882.1	5.3	5.5	178.78	8.4	150.7	249.7	239.7	10.04	24.866			
3,000.0	2,998.0	2,985.4	2,981.4	5.5	5.7	178.77	8.8	157.0	260.1	249.7	10.39	25.033			
3,100.0	3,097.9	3,084.8	3,080.6	5.7	5.9	178.77	9.2	163.4	270.5	259.8	10.74	25.190			
3,200.0	3,197.8	3,184.3	3,179.9	5.9	6.1	178.76	9.6	169.7	280.9	269.8	11.09	25.336			
3,300.0	3,297.7	3,283.7	3,279.2	6.1	6.3	178.76	10.0	176.0	291.3	279.8	11.43	25.474			
3,400.0	3,397.6	3,383.2	3,378.4	6.3	6.5	178.75	10.3	182.4	301.7	289.9	11.78	25.604			
3,500.0	3,497.5	3,482.7	3,477.7	6.5	6.7	178.74	10.7	188.7	312.0	299.9	12.13	25.726			
3,600.0	3,597.5	3,582.1	3,576.9	6.6	6.9	178.74	11.1	195.0	322.4	310.0	12.48	25.841			
3,700.0	3,697.4	3,681.6	3,676.2	6.8	7.1	178.74	11.5	201.3	332.8	320.0	12.83	25.950			
3,800.0	3,797.3	3,781.0	3,775.4	7.0	7.3	178.73	11.9	207.7	343.2	330.0	13.17	26.054			
3,900.0	3,897.2	3,880.5	3,874.7	7.2	7.5	178.73	12.3	214.0	353.6	340.1	13.52	26.152			
4,000.0	3,997.1	3,980.0	3,974.0	7.4	7.7	178.72	12.7	220.3	364.0	350.1	13.87	26.245			
4,100.0	4,097.1	4,079.4	4,073.2	7.6	7.9	178.72	13.0	226.6	374.3	360.1	14.22	26.334			
4,200.0	4,197.0	4,178.9	4,172.5	7.8	8.1	178.72	13.4	233.0	384.7	370.2	14.56	26.418			
4,300.0	4,296.9	4,278.3	4,271.7	8.0	8.3	178.71	13.8	239.3	395.1	380.2	14.91	26.498			
4,400.0	4,396.8	4,377.8	4,371.0	8.2	8.5	178.71	14.2	245.6	405.5	390.2	15.26	26.575			
4,500.0	4,496.7	4,477.3	4,470.2	8.3	8.7	178.71	14.6	252.0	415.9	400.3	15.61	26.649			
4,600.0	4,596.7	4,576.7	4,569.5	8.5	8.9	178.70	15.0	258.3	426.3	410.3	15.95	26.719			
4,700.0	4,696.6	4,676.2	4,668.8	8.7	9.1	178.70	15.4	264.6	436.6	420.3	16.30	26.786			
4,800.0	4,796.5	4,775.6	4,768.0	8.9	9.3	178.70	15.7	270.9	447.0	430.4	16.65	26.850			
4,900.0	4,896.4	4,875.1	4,867.3	9.1	9.5	178.70	16.1	277.3	457.4	440.4	17.00	26.912			
5,000.0	4,996.3	4,974.6	4,966.5	9.3	9.8	178.69	16.5	283.6	467.8	450.5	17.34	26.971			
5,100.0	5,096.3	5,074.0	5,065.8	9.5	10.0	178.69	16.9	289.9	478.2	460.5	17.69	27.028			

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	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								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	5,196.2	5,173.5	5,165.0	9.7	10.2	178.69	17.3	296.2	488.6	470.5	18.04	27.083		
5,300.0	5,296.1	5,272.9	5,264.3	9.8	10.4	178.69	17.7	302.6	499.0	480.6	18.39	27.136		
5,400.0	5,396.0	5,372.4	5,363.6	10.0	10.6	178.69	18.0	308.9	509.3	490.6	18.73	27.186		
5,500.0	5,495.9	5,471.9	5,462.8	10.2	10.8	178.68	18.4	315.2	519.7	500.6	19.08	27.235		
5,600.0	5,595.8	5,571.3	5,562.1	10.4	11.0	178.68	18.8	321.5	530.1	510.7	19.43	27.282		
5,700.0	5,695.8	5,670.8	5,661.3	10.6	11.2	178.68	19.2	327.9	540.5	520.7	19.78	27.328		
5,800.0	5,795.7	5,770.2	5,760.6	10.8	11.4	178.68	19.6	334.2	550.9	530.7	20.13	27.372		
5,900.0	5,895.6	5,869.7	5,859.8	11.0	11.6	178.68	20.0	340.5	561.3	540.8	20.47	27.414		
6,000.0	5,995.5	5,969.2	5,959.1	11.2	11.8	178.68	20.4	346.9	571.6	550.8	20.82	27.455		
6,100.0	6,095.4	6,068.6	6,058.4	11.4	12.0	178.67	20.7	353.2	582.0	560.8	21.17	27.495		
6,200.0	6,195.4	6,168.1	6,157.6	11.5	12.2	178.67	21.1	359.5	592.4	570.9	21.52	27.533		
6,300.0	6,295.3	6,267.5	6,256.9	11.7	12.4	178.67	21.5	365.8	602.8	580.9	21.86	27.570		
6,400.0	6,395.2	6,367.0	6,356.1	11.9	12.6	178.67	21.9	372.2	613.2	591.0	22.21	27.606		
6,500.0	6,495.1	6,466.5	6,455.4	12.1	12.8	178.67	22.3	378.5	623.6	601.0	22.56	27.641		
6,600.0	6,595.0	6,565.9	6,554.6	12.3	13.0	178.67	22.7	384.8	633.9	611.0	22.91	27.675		
6,700.0	6,694.8	6,666.7	6,655.2	12.5	13.2	-115.90	22.3	391.2	644.5	621.3	23.25	27.720		
6,800.0	6,793.3	6,770.8	6,758.4	12.7	13.5	-102.92	10.4	397.8	655.4	631.8	23.61	27.762		
6,900.0	6,888.4	6,875.8	6,859.5	12.9	13.7	-98.97	-16.6	404.3	666.4	642.3	24.01	27.751		
7,000.0	6,978.4	6,981.6	6,956.3	13.2	13.9	-96.85	-58.5	410.4	677.1	652.5	24.53	27.607		
7,100.0	7,061.5	7,088.0	7,046.4	13.6	14.3	-95.38	-114.6	416.2	687.3	662.1	25.23	27.248		
7,200.0	7,136.1	7,194.9	7,127.7	14.1	14.7	-94.22	-183.8	421.3	697.0	670.8	26.19	26.614		
7,300.0	7,200.8	7,302.3	7,198.0	14.7	15.3	-93.23	-264.8	425.8	705.8	678.3	27.48	25.685		
7,400.0	7,254.2	7,409.9	7,255.5	15.5	16.1	-92.35	-355.5	429.5	713.5	684.4	29.13	24.493		
7,500.0	7,295.3	7,517.7	7,298.9	16.5	17.1	-91.57	-453.9	432.3	720.1	689.0	31.14	23.123		
7,600.0	7,323.4	7,625.3	7,327.1	17.6	18.2	-90.87	-557.7	434.1	725.4	691.9	33.47	21.671		
7,700.0	7,337.9	7,732.5	7,339.4	18.8	19.4	-90.25	-664.1	434.8	729.3	693.2	36.06	20.226		
7,800.0	7,340.0	7,834.4	7,340.0	20.1	20.7	-90.00	-766.0	434.9	732.0	693.3	38.75	18.890		
7,900.0	7,340.0	7,934.4	7,340.0	21.4	22.0	-90.00	-865.9	434.9	734.6	693.1	41.54	17.687		
8,000.0	7,340.0	8,034.3	7,340.0	22.8	23.4	-90.00	-965.9	434.9	737.2	692.8	44.42	16.596		
8,100.0	7,340.0	8,134.3	7,340.0	24.3	24.8	-90.00	-1,065.9	434.9	739.9	692.5	47.39	15.611		
8,200.0	7,340.0	8,234.3	7,340.0	25.8	26.2	-90.00	-1,165.8	434.9	742.5	692.0	50.43	14.722		
8,300.0	7,340.0	8,334.2	7,340.0	27.3	27.7	-90.00	-1,265.8	434.9	745.1	691.6	53.53	13.919		
8,400.0	7,340.0	8,434.2	7,340.0	28.9	29.3	-90.00	-1,365.8	434.9	747.7	691.0	56.68	13.193		
8,500.0	7,340.0	8,534.2	7,340.0	30.4	30.8	-90.00	-1,465.7	434.9	750.3	690.5	59.86	12.534		
8,600.0	7,340.0	8,634.1	7,340.0	32.0	32.4	-90.00	-1,565.7	434.9	753.0	689.9	63.08	11.936		
8,700.0	7,340.0	8,734.1	7,340.0	33.7	34.0	-90.00	-1,665.7	434.9	755.6	689.2	66.33	11.391		
8,800.0	7,340.0	8,834.0	7,340.0	35.3	35.6	-90.00	-1,765.6	434.9	758.2	688.6	69.61	10.893		
8,900.0	7,340.0	8,934.0	7,340.0	36.9	37.2	-90.00	-1,865.6	434.9	760.4	687.5	72.93	10.427		
9,000.0	7,340.0	9,034.0	7,340.0	38.5	38.8	-90.00	-1,965.6	434.9	761.0	684.8	76.27	9.978		
9,100.0	7,340.0	9,134.0	7,340.0	40.2	40.4	-90.00	-2,065.6	434.9	759.9	680.3	79.61	9.545		
9,200.0	7,340.0	9,234.0	7,340.0	41.8	42.1	-90.00	-2,165.6	434.9	757.2	674.2	82.96	9.127		
9,300.0	7,340.0	9,333.9	7,340.0	43.5	43.7	-90.00	-2,265.5	434.9	754.1	667.8	86.32	8.737		
9,400.0	7,340.0	9,433.9	7,340.0	45.2	45.4	-90.00	-2,365.5	434.9	751.1	661.4	89.69	8.375		
9,500.0	7,340.0	9,533.8	7,340.0	46.8	47.1	-90.00	-2,465.4	434.9	748.1	655.0	93.07	8.038		
9,600.0	7,340.0	9,633.8	7,340.0	48.5	48.8	-90.00	-2,565.4	434.9	745.1	648.6	96.46	7.725		
9,700.0	7,340.0	9,733.7	7,340.0	50.2	50.4	-90.00	-2,665.3	434.9	742.1	642.2	99.85	7.432		
9,800.0	7,340.0	9,833.7	7,340.0	51.9	52.1	-90.00	-2,765.3	434.9	739.0	635.8	103.26	7.157		
9,900.0	7,340.0	9,933.7	7,340.0	53.6	53.8	-90.00	-2,865.2	434.9	736.0	629.4	106.67	6.900		
10,000.0	7,340.0	10,033.6	7,340.0	55.3	55.5	-90.00	-2,965.2	434.9	733.0	622.9	110.09	6.658		
10,100.0	7,340.0	10,133.6	7,340.0	57.0	57.2	-90.00	-3,065.2	434.9	730.0	616.5	113.51	6.431		
10,200.0	7,340.0	10,233.5	7,340.0	58.7	58.9	-90.00	-3,165.1	434.9	727.0	610.0	116.94	6.217		
10,300.0	7,340.0	10,333.5	7,340.0	60.4	60.6	-90.00	-3,265.1	434.9	724.1	603.7	120.38	6.015		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,400.0	7,340.0	10,433.5	7,340.0	62.1	62.3	-90.00	-3,365.1	434.9	722.7	598.9	123.81	5.837		
10,500.0	7,340.0	10,533.5	7,340.0	63.8	64.0	-90.00	-3,465.1	434.9	722.5	595.3	127.24	5.678		
10,600.0	7,340.0	10,633.5	7,340.0	65.5	65.7	-90.00	-3,565.1	434.9	722.3	591.6	130.69	5.527		
10,700.0	7,340.0	10,733.5	7,340.0	67.2	67.4	-90.00	-3,665.1	434.9	722.1	588.0	134.13	5.384		
10,800.0	7,340.0	10,833.5	7,340.0	69.0	69.2	-90.00	-3,765.1	434.9	722.0	584.4	137.59	5.247		
10,900.0	7,340.0	10,933.5	7,340.0	70.7	70.9	-90.00	-3,865.1	434.9	721.8	580.8	141.04	5.118		
11,000.0	7,340.0	11,033.5	7,340.0	72.4	72.6	-90.00	-3,965.1	434.9	721.6	577.1	144.50	4.994		
11,100.0	7,340.0	11,133.5	7,340.0	74.1	74.3	-90.00	-4,065.1	434.9	721.4	573.5	147.95	4.876		
11,200.0	7,340.0	11,233.5	7,340.0	75.9	76.0	-90.00	-4,165.1	434.9	721.3	569.9	151.41	4.764		
11,300.0	7,340.0	11,333.5	7,340.0	77.6	77.8	-90.00	-4,265.1	434.9	721.1	566.2	154.88	4.656		
11,400.0	7,340.0	11,433.5	7,340.0	79.3	79.5	-90.00	-4,365.1	434.9	720.9	562.6	158.34	4.553		
11,500.0	7,340.0	11,533.5	7,340.0	81.1	81.2	-90.00	-4,465.1	434.9	720.7	558.9	161.81	4.454		
11,600.0	7,340.0	11,633.5	7,340.0	82.8	82.9	-90.00	-4,565.1	434.9	720.6	555.3	165.28	4.360		
11,700.0	7,340.0	11,733.5	7,340.0	84.5	84.7	-90.00	-4,665.1	434.9	720.4	551.7	168.75	4.269 SF		
11,800.0	7,340.0	11,830.4	7,340.0	86.2	86.4	-90.00	-4,762.0	434.9	701.4	546.9	154.51	4.539		
11,845.3	7,340.0	11,854.7	7,340.0	86.8	86.8	-90.00	-4,786.3	434.9	675.2	544.8	130.48	5.175		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1G-19H-B2685 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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		
300.0	300.0	300.0	300.0	0.5	0.5	87.92	1.5	40.0	40.0	39.0	1.00	39.939		
400.0	400.0	400.0	400.0	0.7	0.7	87.92	1.5	40.0	40.0	38.7	1.35	29.619 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	179.15	1.5	40.0	41.8	40.1	1.70	24.573		
600.0	599.9	599.9	599.9	1.0	1.0	179.22	1.5	40.0	45.7	43.7	2.05	22.335		
700.0	699.8	699.8	699.8	1.2	1.2	179.29	1.5	40.0	49.8	47.4	2.40	20.763		
800.0	799.7	797.9	797.8	1.4	1.4	179.32	1.5	41.7	55.5	52.8	2.74	20.236		
900.0	899.7	895.4	895.3	1.6	1.6	179.32	1.7	46.6	64.6	61.5	3.09	20.936		
1,000.0	999.6	994.1	993.7	1.8	1.7	179.30	2.1	54.2	76.3	72.8	3.43	22.212		
1,100.0	1,099.5	1,093.4	1,092.7	2.0	1.9	179.28	2.4	61.9	88.0	84.2	3.78	23.283		
1,200.0	1,199.4	1,192.7	1,191.7	2.1	2.1	179.27	2.7	69.6	99.8	95.7	4.13	24.175		
1,300.0	1,299.3	1,292.0	1,290.7	2.3	2.3	179.26	3.0	77.3	111.6	107.1	4.48	24.927		
1,400.0	1,399.3	1,391.3	1,389.7	2.5	2.6	179.26	3.4	85.0	123.3	118.5	4.82	25.572		
1,500.0	1,499.2	1,490.6	1,488.7	2.7	2.8	179.25	3.7	92.7	135.1	129.9	5.17	26.130		
1,600.0	1,599.1	1,589.9	1,587.7	2.9	3.0	179.24	4.0	100.4	146.9	141.3	5.52	26.618		
1,700.0	1,699.0	1,689.2	1,686.7	3.1	3.2	179.24	4.3	108.1	158.6	152.8	5.86	27.048		
1,800.0	1,798.9	1,788.5	1,785.7	3.3	3.4	179.24	4.7	115.8	170.4	164.2	6.21	27.430		
1,900.0	1,898.8	1,887.8	1,884.7	3.5	3.6	179.23	5.0	123.5	182.2	175.6	6.56	27.771		
2,000.0	1,998.8	1,987.2	1,983.7	3.6	3.8	179.23	5.3	131.2	193.9	187.0	6.91	28.079		
2,100.0	2,098.7	2,086.5	2,082.7	3.8	4.0	179.23	5.6	138.8	205.7	198.4	7.25	28.357		
2,200.0	2,198.6	2,185.8	2,181.7	4.0	4.3	179.23	6.0	146.5	217.5	209.9	7.60	28.609		
2,300.0	2,298.5	2,285.1	2,280.7	4.2	4.5	179.22	6.3	154.2	229.2	221.3	7.95	28.839		
2,400.0	2,398.4	2,384.4	2,379.7	4.4	4.7	179.22	6.6	161.9	241.0	232.7	8.30	29.051		
2,500.0	2,498.4	2,483.7	2,478.7	4.6	4.9	179.22	7.0	169.6	252.8	244.1	8.64	29.245		
2,600.0	2,598.3	2,583.0	2,577.8	4.8	5.1	179.22	7.3	177.3	264.5	255.5	8.99	29.424		
2,700.0	2,698.2	2,682.3	2,676.8	5.0	5.3	179.22	7.6	185.0	276.3	266.9	9.34	29.590		
2,800.0	2,798.1	2,781.6	2,775.8	5.1	5.6	179.22	7.9	192.7	288.1	278.4	9.68	29.744		
2,900.0	2,898.0	2,880.9	2,874.8	5.3	5.8	179.21	8.3	200.4	299.8	289.8	10.03	29.887		
3,000.0	2,998.0	2,980.2	2,973.8	5.5	6.0	179.21	8.6	208.1	311.6	301.2	10.38	30.021		
3,100.0	3,097.9	3,079.5	3,072.8	5.7	6.2	179.21	8.9	215.8	323.4	312.6	10.73	30.146		
3,200.0	3,197.8	3,178.8	3,171.8	5.9	6.4	179.21	9.2	223.5	335.1	324.0	11.07	30.263		
3,300.0	3,297.7	3,278.1	3,270.8	6.1	6.6	179.21	9.6	231.2	346.9	335.5	11.42	30.373		
3,400.0	3,397.6	3,377.4	3,369.8	6.3	6.9	179.21	9.9	238.9	358.6	346.9	11.77	30.477		
3,500.0	3,497.5	3,476.7	3,468.8	6.5	7.1	179.21	10.2	246.6	370.4	358.3	12.12	30.575		
3,600.0	3,597.5	3,576.0	3,567.8	6.6	7.3	179.21	10.5	254.3	382.2	369.7	12.46	30.667		
3,700.0	3,697.4	3,675.3	3,666.8	6.8	7.5	179.21	10.9	262.0	393.9	381.1	12.81	30.754		
3,800.0	3,797.3	3,774.6	3,765.8	7.0	7.7	179.21	11.2	269.7	405.7	392.6	13.16	30.837		
3,900.0	3,897.2	3,874.0	3,864.8	7.2	8.0	179.21	11.5	277.4	417.5	404.0	13.50	30.915		
4,000.0	3,997.1	3,973.3	3,963.8	7.4	8.2	179.21	11.8	285.1	429.2	415.4	13.85	30.990		
4,100.0	4,097.1	4,072.6	4,062.8	7.6	8.4	179.20	12.2	292.8	441.0	426.8	14.20	31.061		
4,200.0	4,197.0	4,171.9	4,161.9	7.8	8.6	179.20	12.5	300.5	452.8	438.2	14.55	31.128		
4,300.0	4,296.9	4,271.2	4,260.9	8.0	8.8	179.20	12.8	308.2	464.5	449.7	14.89	31.192		
4,400.0	4,396.8	4,370.5	4,359.9	8.2	9.0	179.20	13.2	315.9	476.3	461.1	15.24	31.254		
4,500.0	4,496.7	4,469.8	4,458.9	8.3	9.3	179.20	13.5	323.6	488.1	472.5	15.59	31.312		
4,600.0	4,596.7	4,569.1	4,557.9	8.5	9.5	179.20	13.8	331.3	499.8	483.9	15.93	31.368		
4,700.0	4,696.6	4,668.4	4,656.9	8.7	9.7	179.20	14.1	339.0	511.6	495.3	16.28	31.422		
4,800.0	4,796.5	4,767.7	4,755.9	8.9	9.9	179.20	14.5	346.7	523.4	506.7	16.63	31.474		
4,900.0	4,896.4	4,867.0	4,854.9	9.1	10.1	179.20	14.8	354.4	535.1	518.2	16.98	31.523		
5,000.0	4,996.3	4,966.3	4,953.9	9.3	10.4	179.20	15.1	362.1	546.9	529.6	17.32	31.570		
5,100.0	5,096.3	5,065.6	5,052.9	9.5	10.6	179.20	15.4	369.8	558.7	541.0	17.67	31.616		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	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		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	5,196.2	5,164.9	5,151.9	9.7	10.8	179.20	15.8	377.5	570.4	552.4	18.02	31.659		
5,300.0	5,296.1	5,264.2	5,250.9	9.8	11.0	179.20	16.1	385.2	582.2	563.8	18.37	31.702		
5,400.0	5,396.0	5,363.5	5,349.9	10.0	11.2	179.20	16.4	392.9	594.0	575.3	18.71	31.742		
5,500.0	5,495.9	5,462.8	5,448.9	10.2	11.5	179.20	16.7	400.6	605.7	586.7	19.06	31.781		
5,600.0	5,595.8	5,562.1	5,547.9	10.4	11.7	179.20	17.1	408.3	617.5	598.1	19.41	31.819		
5,700.0	5,695.8	5,661.5	5,646.9	10.6	11.9	179.20	17.4	416.0	629.3	609.5	19.75	31.855		
5,800.0	5,795.7	5,760.8	5,745.9	10.8	12.1	179.20	17.7	423.7	641.0	620.9	20.10	31.890		
5,900.0	5,895.6	5,860.1	5,845.0	11.0	12.3	179.20	18.1	431.4	652.8	632.4	20.45	31.924		
6,000.0	5,995.5	5,959.4	5,944.0	11.2	12.5	179.20	18.4	439.1	664.6	643.8	20.80	31.957		
6,100.0	6,095.4	6,058.7	6,043.0	11.4	12.8	179.20	18.7	446.8	676.3	655.2	21.14	31.989		
6,200.0	6,195.4	6,158.0	6,142.0	11.5	13.0	179.20	19.0	454.5	688.1	666.6	21.49	32.019		
6,300.0	6,295.3	6,257.3	6,241.0	11.7	13.2	179.20	19.4	462.2	699.9	678.0	21.84	32.049		
6,400.0	6,395.2	6,356.6	6,340.0	11.9	13.4	179.20	19.7	469.9	711.6	689.4	22.18	32.078		
6,500.0	6,495.1	6,455.9	6,439.0	12.1	13.6	179.20	20.0	477.6	723.4	700.9	22.53	32.106		
6,600.0	6,595.0	6,555.2	6,538.0	12.3	13.9	179.20	20.3	485.3	735.2	712.3	22.88	32.133		
6,700.0	6,694.8	6,654.4	6,636.9	12.5	14.1	-115.31	20.7	493.0	747.1	723.9	23.22	32.173		
6,800.0	6,793.3	6,753.2	6,735.4	12.7	14.3	-102.96	20.8	500.6	760.0	736.4	23.57	32.248		
6,900.0	6,888.4	6,858.5	6,839.8	12.9	14.5	-100.05	10.9	508.8	773.5	749.5	23.94	32.304		
7,000.0	6,978.4	6,967.5	6,945.2	13.2	14.8	-98.93	-15.3	517.0	787.2	762.8	24.40	32.264		
7,100.0	7,061.5	7,080.4	7,048.8	13.6	15.1	-98.42	-59.0	525.0	800.6	775.6	25.01	32.018		
7,200.0	7,136.1	7,197.2	7,147.5	14.1	15.4	-98.13	-120.9	532.7	813.5	787.6	25.85	31.465		
7,300.0	7,200.8	7,317.8	7,237.4	14.7	16.0	-97.92	-200.7	539.7	825.3	798.2	27.04	30.520		
7,400.0	7,254.2	7,441.7	7,314.6	15.5	16.7	-97.70	-297.3	545.7	835.6	807.0	28.63	29.188		
7,500.0	7,295.3	7,568.4	7,375.1	16.5	17.6	-97.42	-408.2	550.4	844.2	813.5	30.66	27.534		
7,600.0	7,323.4	7,696.8	7,415.7	17.6	18.8	-97.06	-529.9	553.5	850.6	817.5	33.10	25.700		
7,700.0	7,337.9	7,826.0	7,434.0	18.8	20.3	-96.61	-657.5	555.0	854.9	819.0	35.88	23.822		
7,800.0	7,340.0	7,934.4	7,435.0	20.1	21.5	-96.36	-766.0	555.0	857.4	818.8	38.63	22.197		
7,900.0	7,340.0	8,034.4	7,435.0	21.4	22.8	-96.34	-865.9	555.0	860.1	818.7	41.39	20.779		
8,000.0	7,340.0	8,134.4	7,435.0	22.8	24.1	-96.32	-965.9	555.0	862.7	818.4	44.25	19.493		
8,100.0	7,340.0	8,234.3	7,435.0	24.3	25.5	-96.31	-1,065.9	555.0	865.3	818.1	47.20	18.330		
8,200.0	7,340.0	8,334.3	7,435.0	25.8	26.9	-96.29	-1,165.8	555.0	867.9	817.6	50.22	17.281		
8,300.0	7,340.0	8,434.3	7,435.0	27.3	28.4	-96.27	-1,265.8	555.0	870.5	817.2	53.30	16.332		
8,400.0	7,340.0	8,534.2	7,435.0	28.9	29.9	-96.25	-1,365.8	555.0	873.1	816.6	56.42	15.474		
8,500.0	7,340.0	8,634.2	7,435.0	30.4	31.4	-96.23	-1,465.7	555.0	875.7	816.1	59.59	14.696		
8,600.0	7,340.0	8,734.2	7,435.0	32.0	32.9	-96.21	-1,565.7	555.0	878.3	815.5	62.78	13.988		
8,700.0	7,340.0	8,834.1	7,435.0	33.7	34.5	-96.19	-1,665.7	555.0	880.9	814.9	66.01	13.344		
8,800.0	7,340.0	8,934.1	7,435.0	35.3	36.1	-96.18	-1,765.6	555.0	883.5	814.2	69.27	12.754		
8,900.0	7,340.0	9,034.1	7,435.0	36.9	37.7	-96.16	-1,865.6	555.0	885.7	813.1	72.59	12.201		
9,000.0	7,340.0	9,134.1	7,435.0	38.5	39.3	-96.15	-1,965.6	555.0	886.3	810.3	75.95	11.669		
9,100.0	7,340.0	9,234.1	7,435.0	40.2	40.9	-96.16	-2,065.6	555.0	885.2	805.9	79.30	11.162		
9,200.0	7,340.0	9,334.0	7,435.0	41.8	42.5	-96.18	-2,165.6	555.0	882.4	799.8	82.64	10.678		
9,300.0	7,340.0	9,434.0	7,435.0	43.5	44.2	-96.20	-2,265.5	555.0	879.4	793.5	85.98	10.229		
9,400.0	7,340.0	9,533.9	7,435.0	45.2	45.8	-96.23	-2,365.5	555.0	876.4	787.1	89.32	9.812		
9,500.0	7,340.0	9,633.9	7,435.0	46.8	47.5	-96.25	-2,465.4	555.0	873.4	780.8	92.68	9.425		
9,600.0	7,340.0	9,733.8	7,435.0	48.5	49.1	-96.27	-2,565.4	555.0	870.4	774.4	96.04	9.063		
9,700.0	7,340.0	9,833.8	7,435.0	50.2	50.8	-96.29	-2,665.3	555.0	867.4	768.0	99.41	8.725		
9,800.0	7,340.0	9,933.7	7,435.0	51.9	52.5	-96.31	-2,765.3	555.0	864.4	761.6	102.79	8.409		
9,900.0	7,340.0	10,033.7	7,435.0	53.6	54.2	-96.33	-2,865.2	555.0	861.4	755.3	106.18	8.113		
10,000.0	7,340.0	10,133.7	7,435.0	55.3	55.8	-96.36	-2,965.2	555.0	858.4	748.9	109.57	7.835		
10,100.0	7,340.0	10,233.6	7,435.0	57.0	57.5	-96.38	-3,065.2	555.0	855.4	742.5	112.97	7.572		
10,200.0	7,340.0	10,333.6	7,435.0	58.7	59.2	-96.40	-3,165.1	555.0	852.4	736.1	116.37	7.325		
10,300.0	7,340.0	10,433.5	7,435.0	60.4	60.9	-96.42	-3,265.1	555.0	849.6	729.8	119.77	7.094		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	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		
10,400.0	7,340.0	10,533.5	7,435.0	62.1	62.6	-96.43	-3,365.1	555.0	848.2	725.1	123.14	6.888		
10,500.0	7,340.0	10,633.5	7,435.0	63.8	64.3	-96.43	-3,465.1	555.0	848.0	721.4	126.54	6.701		
10,600.0	7,340.0	10,733.5	7,435.0	65.5	66.0	-96.43	-3,565.1	555.0	847.8	717.9	129.96	6.523		
10,700.0	7,340.0	10,833.5	7,435.0	67.2	67.7	-96.43	-3,665.1	555.0	847.6	714.3	133.39	6.355		
10,800.0	7,340.0	10,933.5	7,435.0	69.0	69.4	-96.44	-3,765.1	555.0	847.5	710.7	136.82	6.194		
10,900.0	7,340.0	11,033.5	7,435.0	70.7	71.2	-96.44	-3,865.1	555.0	847.3	707.0	140.25	6.041		
11,000.0	7,340.0	11,133.5	7,435.0	72.4	72.9	-96.44	-3,965.1	555.0	847.1	703.4	143.68	5.896		
11,100.0	7,340.0	11,233.5	7,435.0	74.1	74.6	-96.44	-4,065.1	555.0	847.0	699.8	147.12	5.757		
11,200.0	7,340.0	11,333.5	7,435.0	75.9	76.3	-96.44	-4,165.1	555.0	846.8	696.2	150.56	5.624		
11,231.8	7,340.0	11,363.7	7,435.0	76.4	76.8	-96.44	-4,195.3	555.0	846.7	695.1	151.62	5.584		
11,300.0	7,340.0	11,400.0	7,435.0	77.6	77.4	-96.44	-4,231.5	555.4	847.7	694.2	153.42	5.525		
11,400.0	7,340.0	11,477.0	7,435.0	79.3	78.8	-96.41	-4,308.5	558.8	852.1	695.6	156.47	5.446		
11,500.0	7,340.0	11,543.4	7,435.0	81.1	79.9	-96.37	-4,374.6	564.6	860.5	701.1	159.34	5.400		
11,600.0	7,340.0	11,600.0	7,435.0	82.8	80.9	-96.32	-4,430.8	571.5	872.8	710.8	162.05	5.386		
11,700.0	7,340.0	11,674.3	7,435.0	84.5	82.2	-96.24	-4,504.1	583.4	888.8	723.7	165.06	5.385 SF		
11,800.0	7,340.0	11,739.2	7,435.0	86.2	83.3	-96.35	-4,567.7	596.4	889.6	737.6	152.06	5.850		
11,845.3	7,340.0	11,766.7	7,435.0	86.8	83.8	-97.20	-4,594.5	602.7	872.5	743.2	129.33	6.746		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design													S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1H-19H-B2684 - Hz - Plan #2		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
5,200.0	5,196.2	5,130.3	5,096.2	9.7	13.2	179.01	25.9	596.8	794.5	776.6	17.93	44.302						
5,300.0	5,296.1	5,228.9	5,194.0	9.8	13.5	179.01	26.5	609.2	811.1	792.8	18.28	44.371						
5,400.0	5,396.0	5,327.5	5,291.9	10.0	13.8	179.01	27.0	621.6	827.7	809.0	18.63	44.437						
5,500.0	5,495.9	5,426.1	5,389.7	10.2	14.0	179.01	27.6	634.0	844.2	825.3	18.97	44.501						
5,600.0	5,595.8	5,524.8	5,487.5	10.4	14.3	179.01	28.1	646.4	860.8	841.5	19.32	44.563						
5,700.0	5,695.8	5,623.4	5,585.4	10.6	14.6	179.01	28.6	658.8	877.4	857.7	19.66	44.622						
5,800.0	5,795.7	5,722.0	5,683.2	10.8	14.9	179.01	29.2	671.2	893.9	873.9	20.01	44.680						
5,900.0	5,895.6	5,820.6	5,781.1	11.0	15.1	179.01	29.7	683.6	910.5	890.1	20.35	44.735						
6,000.0	5,995.5	5,919.2	5,878.9	11.2	15.4	179.01	30.3	696.0	927.1	906.4	20.70	44.789						
6,100.0	6,095.4	6,017.9	5,976.7	11.4	15.7	179.01	30.8	708.3	943.6	922.6	21.04	44.841						
6,200.0	6,195.4	6,116.5	6,074.6	11.5	16.0	179.01	31.4	720.7	960.2	938.8	21.39	44.891						
6,300.0	6,295.3	6,215.1	6,172.4	11.7	16.3	179.01	31.9	733.1	976.7	955.0	21.73	44.939						
6,400.0	6,395.2	6,313.7	6,270.2	11.9	16.5	179.01	32.5	745.5	993.3	971.2	22.08	44.987						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	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		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	2.2	60.1	60.2					
100.0	100.0	100.0	100.0	0.2	0.2	87.92	2.2	60.1	60.2	59.9	0.30	198.088		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	2.2	60.1	60.2	59.5	0.65	92.159		
300.0	300.0	300.0	300.0	0.5	0.5	87.92	2.2	60.1	60.2	59.2	1.00	60.048		
400.0	400.0	400.0	400.0	0.7	0.7	87.92	2.2	60.1	60.2	58.8	1.35	44.531 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	179.14	2.2	60.1	61.9	60.2	1.70	36.429		
600.0	599.9	597.6	597.6	1.0	1.0	179.18	2.3	61.8	67.6	65.5	2.04	33.068		
700.0	699.8	694.8	694.6	1.2	1.2	179.19	2.5	66.7	76.7	74.3	2.39	32.124 SF		
800.0	799.7	791.2	790.7	1.4	1.4	179.18	2.8	74.9	89.2	86.5	2.73	32.664		
900.0	899.7	886.7	885.5	1.6	1.6	179.17	3.3	86.2	105.0	101.9	3.07	34.184		
1,000.0	999.6	982.4	980.1	1.8	1.9	179.14	3.9	100.4	123.9	120.5	3.41	36.310		
1,100.0	1,099.5	1,080.4	1,077.0	2.0	2.2	179.12	4.6	115.8	143.5	139.8	3.76	38.213		
1,200.0	1,199.4	1,178.5	1,173.8	2.1	2.5	179.11	5.2	131.2	163.2	159.1	4.10	39.796		
1,300.0	1,299.3	1,276.5	1,270.6	2.3	2.8	179.09	5.9	146.6	182.8	178.4	4.44	41.135		
1,400.0	1,399.3	1,374.6	1,367.5	2.5	3.1	179.08	6.5	161.9	202.5	197.7	4.79	42.282		
1,500.0	1,499.2	1,472.6	1,464.3	2.7	3.4	179.08	7.2	177.3	222.2	217.0	5.13	43.276		
1,600.0	1,599.1	1,570.7	1,561.1	2.9	3.7	179.07	7.9	192.7	241.8	236.3	5.48	44.145		
1,700.0	1,699.0	1,668.7	1,658.0	3.1	4.0	179.06	8.5	208.0	261.5	255.6	5.82	44.911		
1,800.0	1,798.9	1,766.8	1,754.8	3.3	4.3	179.06	9.2	223.4	281.1	275.0	6.17	45.592		
1,900.0	1,898.8	1,864.8	1,851.6	3.5	4.6	179.05	9.8	238.8	300.8	294.3	6.51	46.201		
2,000.0	1,998.8	1,962.9	1,948.5	3.6	4.9	179.05	10.5	254.2	320.4	313.6	6.85	46.749		
2,100.0	2,098.7	2,060.9	2,045.3	3.8	5.2	179.05	11.2	269.5	340.1	332.9	7.20	47.245		
2,200.0	2,198.6	2,159.0	2,142.1	4.0	5.6	179.04	11.8	284.9	359.7	352.2	7.54	47.695		
2,300.0	2,298.5	2,257.0	2,239.0	4.2	5.9	179.04	12.5	300.3	379.4	371.5	7.89	48.107		
2,400.0	2,398.4	2,355.1	2,335.8	4.4	6.2	179.04	13.1	315.7	399.1	390.8	8.23	48.484		
2,500.0	2,498.4	2,453.1	2,432.7	4.6	6.5	179.04	13.8	331.0	418.7	410.1	8.57	48.830		
2,600.0	2,598.3	2,551.2	2,529.5	4.8	6.8	179.03	14.5	346.4	438.4	429.4	8.92	49.150		
2,700.0	2,698.2	2,649.2	2,626.3	5.0	7.1	179.03	15.1	361.8	458.0	448.8	9.26	49.447		
2,800.0	2,798.1	2,747.3	2,723.2	5.1	7.5	179.03	15.8	377.2	477.7	468.1	9.61	49.722		
2,900.0	2,898.0	2,845.3	2,820.0	5.3	7.8	179.03	16.4	392.5	497.3	487.4	9.95	49.978		
3,000.0	2,998.0	2,943.4	2,916.8	5.5	8.1	179.03	17.1	407.9	517.0	506.7	10.30	50.217		
3,100.0	3,097.9	3,041.4	3,013.7	5.7	8.4	179.03	17.8	423.3	536.6	526.0	10.64	50.441		
3,200.0	3,197.8	3,139.5	3,110.5	5.9	8.7	179.02	18.4	438.6	556.3	545.3	10.98	50.650		
3,300.0	3,297.7	3,237.5	3,207.3	6.1	9.1	179.02	19.1	454.0	576.0	564.6	11.33	50.847		
3,400.0	3,397.6	3,335.6	3,304.2	6.3	9.4	179.02	19.7	469.4	595.6	583.9	11.67	51.033		
3,500.0	3,497.5	3,433.6	3,401.0	6.5	9.7	179.02	20.4	484.8	615.3	603.3	12.02	51.207		
3,600.0	3,597.5	3,531.7	3,497.8	6.6	10.0	179.02	21.1	500.1	634.9	622.6	12.36	51.372		
3,700.0	3,697.4	3,629.7	3,594.7	6.8	10.3	179.02	21.7	515.5	654.6	641.9	12.70	51.528		
3,800.0	3,797.3	3,727.8	3,691.5	7.0	10.7	179.02	22.4	530.9	674.2	661.2	13.05	51.676		
3,900.0	3,897.2	3,825.8	3,788.3	7.2	11.0	179.02	23.0	546.3	693.9	680.5	13.39	51.816		
4,000.0	3,997.1	3,923.9	3,885.2	7.4	11.3	179.02	23.7	561.6	713.5	699.8	13.74	51.950		
4,100.0	4,097.1	4,021.9	3,982.0	7.6	11.6	179.02	24.3	577.0	733.2	719.1	14.08	52.076		
4,200.0	4,197.0	4,120.0	4,078.8	7.8	11.9	179.02	25.0	592.4	752.9	738.4	14.42	52.197		
4,300.0	4,296.9	4,218.0	4,175.7	8.0	12.3	179.02	25.7	607.8	772.5	757.7	14.77	52.312		
4,400.0	4,396.8	4,316.1	4,272.5	8.2	12.6	179.01	26.3	623.1	792.2	777.1	15.11	52.422		
4,500.0	4,496.7	4,414.1	4,369.3	8.3	12.9	179.01	27.0	638.5	811.8	796.4	15.46	52.527		
4,600.0	4,596.7	4,512.2	4,466.2	8.5	13.2	179.01	27.6	653.9	831.5	815.7	15.80	52.627		
4,700.0	4,696.6	4,610.2	4,563.0	8.7	13.5	179.01	28.3	669.2	851.1	835.0	16.14	52.723		
4,800.0	4,796.5	4,708.3	4,659.8	8.9	13.9	179.01	29.0	684.6	870.8	854.3	16.49	52.815		
4,900.0	4,896.4	4,806.3	4,756.7	9.1	14.2	179.01	29.6	700.0	890.5	873.6	16.83	52.904		
5,000.0	4,996.3	4,904.4	4,853.5	9.3	14.5	179.01	30.3	715.4	910.1	892.9	17.18	52.989		
5,100.0	5,096.3	5,002.4	4,950.3	9.5	14.8	179.01	30.9	730.7	929.8	912.2	17.52	53.070		

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 1C-19H-B2689
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 1C-19H-B2689	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 #4	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											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,200.0	5,196.2	5,100.5	5,047.2	9.7	15.1	179.01	31.6	746.1	949.4	931.6	17.86	53.148						
5,300.0	5,296.1	5,198.5	5,144.0	9.8	15.5	179.01	32.3	761.5	969.1	950.9	18.21	53.224						
5,400.0	5,396.0	5,296.6	5,240.8	10.0	15.8	179.01	32.9	776.9	988.7	970.2	18.55	53.296						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1K-19H-B2681 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	87.92	2.9	80.0	80.0					
100.0	100.0	100.0	100.0	0.2	0.2	87.92	2.9	80.0	80.0	79.7	0.30	263.504		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	2.9	80.0	80.0	79.4	0.65	122.593		
300.0	300.0	300.0	300.0	0.5	0.5	87.92	2.9	80.0	80.0	79.0	1.00	79.878 CC, ES		
400.0	400.0	397.2	397.2	0.7	0.7	87.92	3.0	81.6	81.7	80.4	1.35	60.590		
500.0	500.0	494.1	494.0	0.9	0.9	179.13	3.1	86.5	88.5	86.9	1.69	52.429		
600.0	599.9	590.2	589.7	1.0	1.1	179.16	3.4	94.6	101.0	98.9	2.03	49.720		
700.0	699.8	685.3	684.2	1.2	1.3	179.18	3.8	105.8	116.7	114.3	2.37	49.234 SF		
800.0	799.7	779.4	777.1	1.4	1.6	179.20	4.3	120.0	135.7	133.0	2.71	50.111		
900.0	899.7	872.1	868.3	1.6	1.9	179.21	5.0	136.9	157.9	154.9	3.04	51.884		
1,000.0	999.6	967.5	961.6	1.8	2.3	179.22	5.7	156.6	182.5	179.1	3.38	53.944		
1,100.0	1,099.5	1,064.4	1,056.4	2.0	2.6	179.23	6.4	176.7	207.2	203.5	3.72	55.632		
1,200.0	1,199.4	1,161.3	1,151.2	2.1	3.0	179.23	7.1	196.8	231.9	227.9	4.07	57.037		
1,300.0	1,299.3	1,258.2	1,246.0	2.3	3.4	179.24	7.8	217.0	256.6	252.2	4.41	58.225		
1,400.0	1,399.3	1,355.1	1,340.7	2.5	3.8	179.24	8.6	237.1	281.4	276.6	4.75	59.244		
1,500.0	1,499.2	1,452.0	1,435.5	2.7	4.2	179.24	9.3	257.3	306.1	301.0	5.09	60.126		
1,600.0	1,599.1	1,548.9	1,530.3	2.9	4.6	179.24	10.0	277.4	330.8	325.4	5.43	60.898		
1,700.0	1,699.0	1,645.8	1,625.1	3.1	5.0	179.25	10.7	297.5	355.5	349.7	5.77	61.580		
1,800.0	1,798.9	1,742.6	1,719.8	3.3	5.3	179.25	11.5	317.7	380.2	374.1	6.11	62.185		
1,900.0	1,898.8	1,839.5	1,814.6	3.5	5.7	179.25	12.2	337.8	405.0	398.5	6.46	62.727		
2,000.0	1,998.8	1,936.4	1,909.4	3.6	6.1	179.25	12.9	358.0	429.7	422.9	6.80	63.214		
2,100.0	2,098.7	2,033.3	2,004.2	3.8	6.5	179.25	13.6	378.1	454.4	447.3	7.14	63.655		
2,200.0	2,198.6	2,130.2	2,099.0	4.0	6.9	179.25	14.4	398.2	479.1	471.6	7.48	64.056		
2,300.0	2,298.5	2,227.1	2,193.7	4.2	7.3	179.25	15.1	418.4	503.8	496.0	7.82	64.422		
2,400.0	2,398.4	2,324.0	2,288.5	4.4	7.7	179.25	15.8	438.5	528.5	520.4	8.16	64.758		
2,500.0	2,498.4	2,420.9	2,383.3	4.6	8.1	179.25	16.5	458.7	553.3	544.8	8.50	65.066		
2,600.0	2,598.3	2,517.8	2,478.1	4.8	8.5	179.26	17.2	478.8	578.0	569.1	8.84	65.351		
2,700.0	2,698.2	2,614.7	2,572.8	5.0	8.9	179.26	18.0	498.9	602.7	593.5	9.19	65.615		
2,800.0	2,798.1	2,711.6	2,667.6	5.1	9.3	179.26	18.7	519.1	627.4	617.9	9.53	65.860		
2,900.0	2,898.0	2,808.5	2,762.4	5.3	9.7	179.26	19.4	539.2	652.1	642.3	9.87	66.088		
3,000.0	2,998.0	2,905.4	2,857.2	5.5	10.1	179.26	20.1	559.4	676.9	666.7	10.21	66.301		
3,100.0	3,097.9	3,002.3	2,952.0	5.7	10.5	179.26	20.9	579.5	701.6	691.0	10.55	66.500		
3,200.0	3,197.8	3,099.2	3,046.7	5.9	10.9	179.26	21.6	599.6	726.3	715.4	10.89	66.687		
3,300.0	3,297.7	3,196.1	3,141.5	6.1	11.3	179.26	22.3	619.8	751.0	739.8	11.23	66.862		
3,400.0	3,397.6	3,293.0	3,236.3	6.3	11.7	179.26	23.0	639.9	775.7	764.2	11.57	67.028		
3,500.0	3,497.5	3,389.9	3,331.1	6.5	12.1	179.26	23.8	660.1	800.5	788.5	11.91	67.183		
3,600.0	3,597.5	3,486.8	3,425.8	6.6	12.5	179.26	24.5	680.2	825.2	812.9	12.26	67.330		
3,700.0	3,697.4	3,583.7	3,520.6	6.8	12.8	179.26	25.2	700.3	849.9	837.3	12.60	67.469		
3,800.0	3,797.3	3,680.6	3,615.4	7.0	13.2	179.26	25.9	720.5	874.6	861.7	12.94	67.601		
3,900.0	3,897.2	3,777.5	3,710.2	7.2	13.6	179.26	26.7	740.6	899.3	886.1	13.28	67.726		
4,000.0	3,997.1	3,874.4	3,805.0	7.4	14.0	179.26	27.4	760.8	924.1	910.4	13.62	67.845		
4,100.0	4,097.1	3,971.3	3,899.7	7.6	14.4	179.26	28.1	780.9	948.8	934.8	13.96	67.958		
4,200.0	4,197.0	4,068.2	3,994.5	7.8	14.8	179.26	28.8	801.0	973.5	959.2	14.30	68.065		
4,300.0	4,296.9	4,165.1	4,089.3	8.0	15.2	179.26	29.6	821.2	998.2	983.6	14.64	68.168		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - Regnier 1L-19H-B268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	87.92	3.3	90.0	90.1					
100.0	100.0	100.0	100.0	0.2	0.2	87.92	3.3	90.0	90.1	89.8	0.30	296.672		
200.0	200.0	200.0	200.0	0.3	0.3	87.92	3.3	90.0	90.1	89.4	0.65	138.024 CC, ES		
300.0	300.0	296.9	296.9	0.5	0.5	87.91	3.3	91.7	91.8	90.8	1.00	91.786		
400.0	400.0	393.6	393.5	0.7	0.7	87.91	3.5	96.6	96.9	95.5	1.36	71.075		
500.0	500.0	489.7	489.2	0.9	0.9	179.10	3.8	104.7	107.0	105.3	1.68	63.672		
600.0	599.9	584.6	583.5	1.0	1.2	179.11	4.3	115.8	122.7	120.7	2.02	60.743		
700.0	699.8	678.5	676.3	1.2	1.4	179.12	4.8	129.9	141.7	139.3	2.36	60.098 SF		
800.0	799.7	771.1	767.3	1.4	1.8	179.12	5.5	146.7	163.8	161.2	2.69	60.854		
900.0	899.7	862.2	856.3	1.6	2.2	179.12	6.2	166.2	189.1	186.1	3.02	62.532		
1,000.0	999.6	955.1	946.5	1.8	2.6	179.12	7.1	188.5	217.1	213.7	3.36	64.625		
1,100.0	1,099.5	1,051.0	1,039.5	2.0	3.0	179.12	8.0	212.0	245.4	241.7	3.70	66.358		
1,200.0	1,199.4	1,146.9	1,132.5	2.1	3.4	179.12	8.9	235.4	273.8	269.7	4.04	67.802		
1,300.0	1,299.3	1,242.8	1,225.4	2.3	3.9	179.12	9.9	258.8	302.1	297.7	4.38	69.024		
1,400.0	1,399.3	1,338.7	1,318.4	2.5	4.3	179.11	10.8	282.3	330.4	325.7	4.72	70.071		
1,500.0	1,499.2	1,434.6	1,411.4	2.7	4.8	179.11	11.7	305.7	358.8	353.7	5.05	70.979		
1,600.0	1,599.1	1,530.5	1,504.4	2.9	5.2	179.11	12.6	329.2	387.1	381.7	5.39	71.773		
1,700.0	1,699.0	1,626.4	1,597.4	3.1	5.7	179.11	13.5	352.6	415.5	409.7	5.73	72.475		
1,800.0	1,798.9	1,722.3	1,690.4	3.3	6.1	179.11	14.4	376.0	443.8	437.7	6.07	73.098		
1,900.0	1,898.8	1,818.2	1,783.4	3.5	6.6	179.11	15.3	399.5	472.2	465.7	6.41	73.655		
2,000.0	1,998.8	1,914.1	1,876.3	3.6	7.0	179.11	16.3	422.9	500.5	493.8	6.75	74.157		
2,100.0	2,098.7	2,010.0	1,969.3	3.8	7.5	179.11	17.2	446.3	528.8	521.8	7.09	74.612		
2,200.0	2,198.6	2,105.9	2,062.3	4.0	7.9	179.11	18.1	469.8	557.2	549.8	7.43	75.025		
2,300.0	2,298.5	2,201.8	2,155.3	4.2	8.4	179.11	19.0	493.2	585.5	577.8	7.77	75.402		
2,400.0	2,398.4	2,297.7	2,248.3	4.4	8.8	179.11	19.9	516.7	613.9	605.8	8.10	75.748		
2,500.0	2,498.4	2,393.6	2,341.3	4.6	9.3	179.11	20.8	540.1	642.2	633.8	8.44	76.066		
2,600.0	2,598.3	2,489.5	2,434.3	4.8	9.7	179.11	21.7	563.5	670.6	661.8	8.78	76.360		
2,700.0	2,698.2	2,585.4	2,527.3	5.0	10.2	179.11	22.7	587.0	698.9	689.8	9.12	76.631		
2,800.0	2,798.1	2,681.3	2,620.2	5.1	10.6	179.11	23.6	610.4	727.2	717.8	9.46	76.884		
2,900.0	2,898.0	2,777.2	2,713.2	5.3	11.1	179.11	24.5	633.9	755.6	745.8	9.80	77.119		
3,000.0	2,998.0	2,873.1	2,806.2	5.5	11.5	179.11	25.4	657.3	783.9	773.8	10.14	77.339		
3,100.0	3,097.9	2,969.0	2,899.2	5.7	12.0	179.11	26.3	680.7	812.3	801.8	10.47	77.544		
3,200.0	3,197.8	3,064.9	2,992.2	5.9	12.4	179.11	27.2	704.2	840.6	829.8	10.81	77.737		
3,300.0	3,297.7	3,160.8	3,085.2	6.1	12.9	179.11	28.1	727.6	868.9	857.8	11.15	77.918		
3,400.0	3,397.6	3,256.7	3,178.2	6.3	13.3	179.11	29.1	751.0	897.3	885.8	11.49	78.088		
3,500.0	3,497.5	3,352.6	3,271.1	6.5	13.8	179.11	30.0	774.5	925.6	913.8	11.83	78.248		
3,600.0	3,597.5	3,448.5	3,364.1	6.6	14.2	179.11	30.9	797.9	954.0	941.8	12.17	78.400		
3,700.0	3,697.4	3,544.4	3,457.1	6.8	14.7	179.11	31.8	821.4	982.3	969.8	12.51	78.544		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER 4-4-19 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 744-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,700.0	7,340.0	7,397.7	7,349.4	33.7	17.9	90.09	-2,553.6	-756.8	989.3	940.9	48.37	20.452		
8,800.0	7,340.0	7,397.6	7,349.3	35.3	17.9	90.06	-2,553.6	-756.8	899.3	849.3	50.01	17.983		
8,900.0	7,340.0	7,397.4	7,349.1	36.9	17.9	90.04	-2,553.6	-756.8	812.0	760.3	51.66	15.716		
9,000.0	7,340.0	7,397.3	7,349.0	38.5	17.9	90.02	-2,553.6	-756.8	728.8	675.5	53.32	13.669		
9,100.0	7,340.0	7,397.1	7,348.8	40.2	17.9	90.00	-2,553.6	-756.8	651.6	596.6	54.98	11.852		
9,200.0	7,340.0	7,396.9	7,348.6	41.8	17.9	89.98	-2,553.6	-756.8	582.6	525.9	56.64	10.285		
9,300.0	7,340.0	7,396.8	7,348.5	43.5	17.9	89.96	-2,553.6	-756.8	523.9	465.6	58.32	8.983		
9,400.0	7,340.0	7,396.6	7,348.3	45.2	17.9	89.94	-2,553.6	-756.8	479.1	419.0	60.01	7.983		
9,500.0	7,340.0	7,396.5	7,348.2	46.8	17.9	89.92	-2,553.6	-756.8	452.3	390.6	61.70	7.330		
9,574.7	7,340.0	7,396.4	7,348.0	48.1	17.9	89.90	-2,553.6	-756.8	446.0	383.1	62.96	7.084 CC, ES		
9,600.0	7,340.0	7,396.3	7,348.0	48.5	17.9	89.90	-2,553.6	-756.8	446.8	383.4	63.39	7.047 SF		
9,700.0	7,340.0	7,396.2	7,347.9	50.2	17.9	89.88	-2,553.6	-756.8	463.3	398.2	65.09	7.118		
9,800.0	7,340.0	7,396.0	7,347.7	51.9	17.9	89.86	-2,553.6	-756.8	499.7	432.9	66.80	7.481		
9,900.0	7,340.0	7,395.9	7,347.5	53.6	17.9	89.84	-2,553.6	-756.8	552.0	483.5	68.50	8.059		
10,000.0	7,340.0	7,395.7	7,347.4	55.3	17.9	89.82	-2,553.6	-756.8	616.3	546.1	70.21	8.777		
10,100.0	7,340.0	7,395.6	7,347.3	57.0	17.9	89.80	-2,553.6	-756.8	689.1	617.2	71.92	9.581		
10,200.0	7,340.0	7,395.4	7,347.1	58.7	17.9	89.78	-2,553.6	-756.8	768.0	694.4	73.64	10.430		
10,300.0	7,340.0	7,395.3	7,347.0	60.4	17.9	89.77	-2,553.6	-756.8	851.4	776.0	75.37	11.296		
10,400.0	7,340.0	7,395.1	7,346.8	62.1	17.9	89.76	-2,553.6	-756.8	937.2	860.1	77.09	12.157		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	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											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)	(ft)							
11,000.0	7,340.0	7,358.0	7,355.5	72.4	13.1	-90.28	-4,221.4	648.2	969.5	884.4	85.08	11.395						
11,100.0	7,340.0	7,356.8	7,354.2	74.1	13.1	-90.20	-4,221.4	648.2	947.8	861.0	86.80	10.919						
11,200.0	7,340.0	7,355.5	7,353.0	75.9	13.1	-90.12	-4,221.4	648.2	936.3	847.8	88.53	10.576						
11,258.0	7,340.0	7,354.8	7,352.2	76.9	13.1	-90.08	-4,221.4	648.2	934.5	845.0	89.53	10.438	CC, ES					
11,300.0	7,340.0	7,354.2	7,351.7	77.6	13.1	-90.04	-4,221.4	648.2	935.5	845.2	90.26	10.364						
11,400.0	7,340.0	7,353.0	7,350.4	79.3	13.1	-89.97	-4,221.4	648.2	945.3	853.3	91.99	10.276	SF					
11,500.0	7,340.0	7,351.7	7,349.2	81.1	13.1	-89.89	-4,221.4	648.2	965.4	871.6	93.72	10.300						
11,600.0	7,340.0	7,350.4	7,347.9	82.8	13.0	-89.81	-4,221.5	648.2	995.1	899.7	95.45	10.425						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 31-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,096.3	5,073.4	5,066.7	9.5	9.7	-62.46	-764.2	-562.8	848.5	829.8	18.68	45.426		
5,200.0	5,196.2	5,185.6	5,178.9	9.7	9.9	-62.60	-765.4	-565.6	848.7	829.7	19.06	44.523		
5,300.0	5,296.1	5,290.9	5,284.2	9.8	10.1	-62.76	-765.7	-567.2	847.8	828.4	19.43	43.631		
5,400.0	5,396.0	5,394.2	5,387.4	10.0	10.2	-62.95	-765.8	-568.3	846.5	826.7	19.80	42.758		
5,500.0	5,495.9	5,492.1	5,485.3	10.2	10.4	-63.15	-765.9	-569.0	845.1	824.9	20.15	41.933		
5,600.0	5,595.8	5,590.8	5,584.1	10.4	10.6	-63.35	-766.2	-569.8	843.9	823.4	20.51	41.144		
5,700.0	5,695.8	5,685.4	5,678.6	10.6	10.7	-63.54	-766.8	-570.7	843.1	822.2	20.86	40.415		
5,800.0	5,795.7	5,787.0	5,780.2	10.8	10.9	-63.76	-767.8	-571.6	842.6	821.4	21.22	39.703		
5,900.0	5,895.6	5,891.4	5,884.6	11.0	11.1	-64.04	-768.8	-571.7	841.7	820.1	21.58	38.997		
6,000.0	5,995.5	5,998.7	5,991.9	11.2	11.2	-64.36	-769.3	-571.0	840.1	818.1	21.95	38.267		
6,100.0	6,095.4	6,098.7	6,091.9	11.4	11.4	-64.63	-769.1	-570.7	838.1	815.8	22.31	37.562		
6,200.0	6,195.4	6,198.6	6,191.8	11.5	11.5	-64.89	-768.9	-570.4	836.0	813.4	22.67	36.880		
6,300.0	6,295.3	6,296.1	6,289.3	11.7	11.7	-65.14	-768.8	-570.2	834.2	811.2	23.02	36.231		
6,400.0	6,395.2	6,400.0	6,393.2	11.9	11.9	-65.41	-768.5	-570.0	832.2	808.8	23.39	35.578		
6,500.0	6,495.1	6,494.4	6,487.7	12.1	12.0	-65.65	-768.3	-569.8	830.2	806.5	23.74	34.972		
6,600.0	6,595.0	6,599.4	6,592.6	12.3	12.2	-65.92	-768.2	-569.8	828.5	804.4	24.11	34.365		
6,700.0	6,694.8	6,689.4	6,682.6	12.5	12.4	-0.86	-768.3	-570.1	823.9	799.5	24.37	33.808		
6,800.0	6,793.3	6,790.1	6,783.3	12.7	12.5	12.42	-768.7	-571.0	807.5	783.2	24.33	33.193		
6,900.0	6,888.4	6,890.4	6,883.6	12.9	12.7	17.54	-768.3	-572.3	778.2	754.2	23.98	32.453		
7,000.0	6,978.4	6,977.6	6,970.8	13.2	12.9	21.85	-767.6	-573.7	736.8	713.5	23.38	31.523		
7,100.0	7,061.5	7,063.5	7,056.7	13.6	13.0	27.07	-767.0	-575.2	685.1	662.3	22.71	30.161		
7,200.0	7,136.1	7,140.6	7,133.8	14.1	13.1	34.12	-766.1	-576.4	623.8	601.5	22.35	27.914		
7,300.0	7,200.8	7,205.2	7,198.3	14.7	13.2	43.72	-764.9	-577.5	555.6	532.8	22.86	24.309		
7,400.0	7,254.2	7,255.5	7,248.6	15.5	13.3	55.75	-764.0	-578.5	483.8	459.2	24.63	19.643		
7,500.0	7,295.3	7,294.2	7,287.3	16.5	13.4	68.96	-763.4	-579.3	412.7	385.5	27.18	15.186		
7,600.0	7,323.4	7,321.1	7,314.2	17.6	13.4	80.49	-763.0	-579.9	348.7	319.3	29.40	11.861		
7,700.0	7,337.9	7,334.5	7,327.6	18.8	13.5	87.51	-762.9	-580.1	301.7	270.7	30.97	9.742		
7,800.0	7,340.0	7,335.3	7,328.4	20.1	13.5	88.87	-762.9	-580.1	283.1	250.8	32.31	8.760		
7,804.3	7,340.0	7,335.3	7,328.4	20.1	13.5	88.86	-762.9	-580.1	283.0	250.7	32.37	8.743 CC, ES, SF		
7,900.0	7,340.0	7,334.0	7,327.1	21.4	13.5	88.61	-762.9	-580.1	298.8	265.1	33.71	8.863		
8,000.0	7,340.0	7,332.7	7,325.8	22.8	13.5	88.35	-762.9	-580.1	344.1	309.0	35.16	9.788		
8,100.0	7,340.0	7,331.5	7,324.6	24.3	13.5	88.09	-762.9	-580.1	409.3	372.7	36.64	11.171		
8,200.0	7,340.0	7,330.2	7,323.3	25.8	13.5	87.82	-762.9	-580.0	486.5	448.3	38.16	12.748		
8,300.0	7,340.0	7,328.8	7,321.9	27.3	13.5	87.56	-762.9	-580.0	570.8	531.1	39.71	14.375		
8,400.0	7,340.0	7,327.5	7,320.6	28.9	13.5	87.29	-763.0	-580.0	659.5	618.2	41.28	15.978		
8,500.0	7,340.0	7,326.2	7,319.3	30.4	13.5	87.02	-763.0	-580.0	751.0	708.2	42.86	17.522		
8,600.0	7,340.0	7,324.9	7,318.0	32.0	13.5	86.75	-763.0	-579.9	844.5	800.0	44.46	18.994		
8,700.0	7,340.0	7,323.5	7,316.6	33.7	13.5	86.48	-763.0	-579.9	939.3	893.2	46.08	20.386		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 32-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
7,900.0	7,340.0	7,329.4	7,327.5	21.4	12.9	-90.53	-1,798.8	-271.0	933.3	899.7	33.66	27.729		
8,000.0	7,340.0	7,329.3	7,327.4	22.8	12.9	-90.46	-1,798.8	-271.0	833.5	798.4	35.11	23.741		
8,100.0	7,340.0	7,329.3	7,327.4	24.3	12.9	-90.39	-1,798.8	-271.0	733.7	697.1	36.60	20.047		
8,200.0	7,340.0	7,329.2	7,327.3	25.8	12.9	-90.31	-1,798.8	-271.0	634.0	595.9	38.12	16.631		
8,300.0	7,340.0	7,329.1	7,327.2	27.3	12.9	-90.24	-1,798.8	-271.0	534.4	494.8	39.68	13.470		
8,400.0	7,340.0	7,329.1	7,327.2	28.9	12.9	-90.17	-1,798.8	-271.0	435.1	393.8	41.25	10.546		
8,500.0	7,340.0	7,329.0	7,327.1	30.4	12.9	-90.10	-1,798.8	-271.0	336.0	293.2	42.85	7.842		
8,600.0	7,340.0	7,328.9	7,327.0	32.0	12.9	-90.03	-1,798.8	-271.0	237.8	193.4	44.46	5.349		
8,700.0	7,340.0	7,328.9	7,327.0	33.7	12.9	-89.95	-1,798.8	-271.0	142.1	96.0	46.09	3.084		
8,800.0	7,340.0	7,328.8	7,326.9	35.3	12.9	-89.88	-1,798.8	-271.0	62.0	14.2	47.73	1.298 Level 3		
8,832.0	7,340.0	7,328.8	7,326.9	35.8	12.9	-89.86	-1,798.8	-271.0	53.1	4.9	48.24	1.102 Level 2, CC, ES, SF		
8,900.0	7,340.0	7,328.7	7,326.8	36.9	12.9	-89.81	-1,798.8	-271.0	86.3	36.9	49.33	1.749		
9,000.0	7,340.0	7,328.7	7,326.8	38.5	12.9	-89.75	-1,798.8	-271.0	175.7	124.8	50.89	3.452		
9,100.0	7,340.0	7,328.6	7,326.7	40.2	12.9	-89.71	-1,798.8	-271.0	272.2	219.7	52.46	5.189		
9,200.0	7,340.0	7,328.6	7,326.7	41.8	12.9	-89.68	-1,798.8	-271.0	370.3	316.2	54.08	6.848		
9,300.0	7,340.0	7,328.5	7,326.6	43.5	12.9	-89.63	-1,798.8	-271.0	469.2	413.4	55.75	8.415		
9,400.0	7,340.0	7,328.5	7,326.5	45.2	12.9	-89.58	-1,798.8	-271.0	568.5	511.0	57.44	9.897		
9,500.0	7,340.0	7,328.4	7,326.5	46.8	12.9	-89.53	-1,798.8	-271.0	668.0	608.8	59.13	11.296		
9,600.0	7,340.0	7,328.4	7,326.4	48.5	12.9	-89.49	-1,798.8	-271.0	767.6	706.7	60.83	12.619		
9,700.0	7,340.0	7,328.3	7,326.4	50.2	12.9	-89.44	-1,798.8	-271.0	867.3	804.8	62.52	13.871		
9,800.0	7,340.0	7,328.3	7,326.3	51.9	12.9	-89.39	-1,798.8	-271.0	967.0	902.8	64.23	15.057		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - REGNIER FARMS 33-19 - ENCANA - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,200.0	7,340.0	7,340.9	7,338.2	41.8	13.1	91.74	-3,118.7	-367.3	954.2	900.1	54.07	17.647		
9,300.0	7,340.0	7,340.7	7,338.0	43.5	13.1	91.58	-3,118.7	-367.3	854.5	798.8	55.76	15.326		
9,400.0	7,340.0	7,340.5	7,337.8	45.2	13.1	91.41	-3,118.7	-367.3	755.0	697.5	57.45	13.142		
9,500.0	7,340.0	7,340.3	7,337.6	46.8	13.1	91.24	-3,118.7	-367.3	655.5	596.4	59.14	11.084		
9,600.0	7,340.0	7,340.1	7,337.4	48.5	13.1	91.07	-3,118.7	-367.3	556.3	495.4	60.84	9.143		
9,700.0	7,340.0	7,339.9	7,337.2	50.2	13.1	90.91	-3,118.7	-367.3	457.3	394.8	62.54	7.312		
9,800.0	7,340.0	7,339.6	7,337.0	51.9	13.1	90.74	-3,118.7	-367.3	359.0	294.8	64.25	5.588		
9,900.0	7,340.0	7,339.4	7,336.7	53.6	13.1	90.58	-3,118.7	-367.3	261.9	196.0	65.96	3.971		
10,000.0	7,340.0	7,339.2	7,336.5	55.3	13.1	90.42	-3,118.7	-367.3	168.4	100.7	67.67	2.488		
10,100.0	7,340.0	7,339.0	7,336.3	57.0	13.1	90.25	-3,118.7	-367.3	89.9	20.5	69.38	1.295 Level 3		
10,151.4	7,340.0	7,338.9	7,336.2	57.9	13.1	90.17	-3,118.7	-367.3	73.7	3.5	70.26	1.049 Level 2, CC, ES, SF		
10,200.0	7,340.0	7,338.8	7,336.1	58.7	13.1	90.09	-3,118.7	-367.3	88.3	17.2	71.10	1.243 Level 2		
10,300.0	7,340.0	7,338.6	7,335.9	60.4	13.1	89.93	-3,118.7	-367.3	165.9	93.0	72.86	2.276		
10,400.0	7,340.0	7,338.4	7,335.7	62.1	13.1	89.77	-3,118.7	-367.3	258.8	184.2	74.68	3.466		
10,500.0	7,340.0	7,338.2	7,335.5	63.8	13.1	89.62	-3,118.7	-367.3	355.4	279.0	76.42	4.650		
10,600.0	7,340.0	7,338.0	7,335.3	65.5	13.1	89.47	-3,118.7	-367.3	453.4	375.3	78.14	5.803		
10,700.0	7,340.0	7,337.7	7,335.0	67.2	13.1	89.31	-3,118.7	-367.3	552.2	472.3	79.86	6.914		
10,800.0	7,340.0	7,337.5	7,334.8	69.0	13.1	89.16	-3,118.7	-367.3	651.3	569.7	81.58	7.983		
10,900.0	7,340.0	7,337.3	7,334.6	70.7	13.1	89.00	-3,118.7	-367.3	750.7	667.3	83.31	9.011		
11,000.0	7,340.0	7,337.1	7,334.4	72.4	13.1	88.85	-3,118.7	-367.3	850.2	765.1	85.03	9.998		
11,100.0	7,340.0	7,336.9	7,334.2	74.1	13.1	88.69	-3,118.7	-367.3	949.8	863.0	86.76	10.948		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation	Warning				
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis						
7,800.0	7,340.0	7,327.9	7,324.9	20.1	13.0	-89.99	-846.2	695.2	995.5	963.2	32.32	30.802					
7,854.2	7,340.0	7,328.1	7,325.0	20.8	13.0	-90.00	-846.2	695.2	994.1	961.0	33.08	30.050 CC, ES					
7,900.0	7,340.0	7,328.2	7,325.2	21.4	13.0	-90.01	-846.2	695.2	995.1	961.4	33.72	29.510 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Offset Design S19-T2N-R68W (Rasmussen/Regnier) - ROSS 4-2-19 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 101-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)				
7,700.0	7,337.9	7,701.6	7,365.6	18.8	36.1	84.58	-1,442.9	-892.3	980.2	944.1	36.10	27.156		
7,800.0	7,340.0	7,701.7	7,365.7	20.1	36.1	90.36	-1,442.9	-892.3	901.3	863.5	37.78	23.855		
7,900.0	7,340.0	7,699.7	7,363.6	21.4	36.1	90.16	-1,442.9	-892.2	827.0	787.8	39.18	21.109		
8,000.0	7,340.0	7,697.6	7,361.6	22.8	36.1	89.96	-1,442.9	-892.2	758.6	718.0	40.62	18.675		
8,100.0	7,340.0	7,695.5	7,359.5	24.3	36.0	89.75	-1,443.0	-892.2	697.8	655.7	42.11	16.574		
8,200.0	7,340.0	7,693.4	7,357.3	25.8	36.0	89.54	-1,443.0	-892.1	646.9	603.3	43.62	14.830		
8,300.0	7,340.0	7,691.2	7,355.2	27.3	36.0	89.32	-1,443.1	-892.1	608.3	563.1	45.17	13.468		
8,400.0	7,340.0	7,689.0	7,353.0	28.9	36.0	89.10	-1,443.1	-892.0	584.4	537.7	46.73	12.506		
8,492.5	7,340.0	7,686.9	7,350.9	30.3	36.0	88.89	-1,443.2	-892.0	577.1	528.9	48.20	11.972 CC		
8,500.0	7,340.0	7,686.7	7,350.7	30.4	36.0	88.88	-1,443.2	-892.0	577.1	528.8	48.32	11.944 ES		
8,600.0	7,340.0	7,684.4	7,348.4	32.0	36.0	88.65	-1,443.2	-892.0	587.0	537.1	49.92	11.759 SF		
8,700.0	7,340.0	7,682.1	7,346.1	33.7	36.0	88.42	-1,443.3	-891.9	613.2	561.7	51.53	11.899		
8,800.0	7,340.0	7,681.0	7,345.0	35.3	36.0	88.31	-1,443.3	-891.9	653.8	600.7	53.17	12.298		
8,900.0	7,340.0	7,681.0	7,345.0	36.9	36.0	88.30	-1,443.3	-891.9	706.7	652.2	54.52	12.963		
9,000.0	7,340.0	7,675.6	7,339.6	38.5	36.0	87.72	-1,443.4	-891.8	770.2	714.5	55.68	13.832		
9,100.0	7,340.0	7,673.4	7,337.4	40.2	36.0	87.46	-1,443.5	-891.8	841.9	785.1	56.87	14.806		
9,200.0	7,340.0	7,671.3	7,335.3	41.8	36.0	87.20	-1,443.5	-891.7	920.0	861.7	58.25	15.793		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Regnier 1C-19H-B2689
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 1C-19H-B2689	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 #4	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4978.0ft

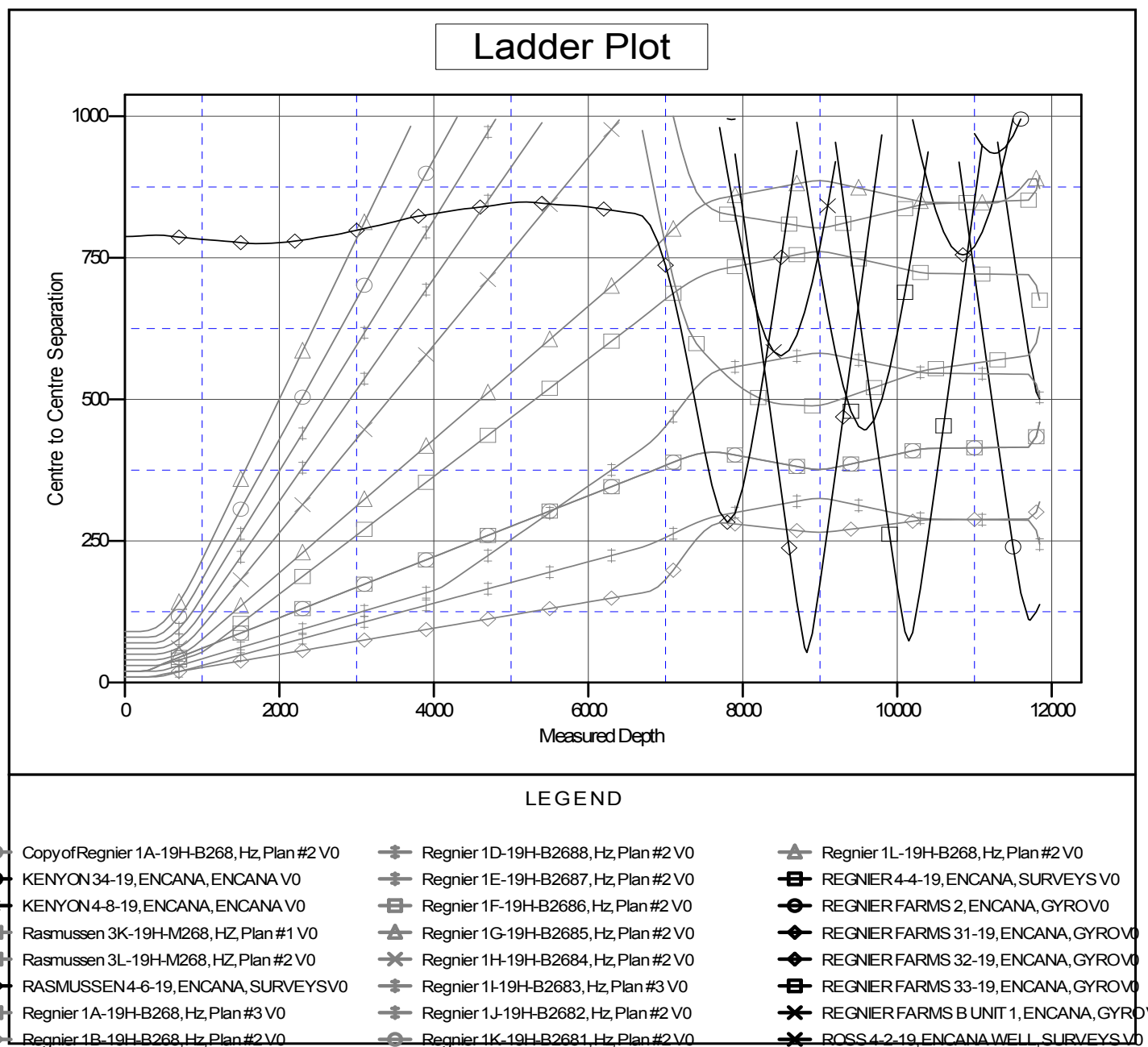
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Regnier 1C-19H-B2689

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°



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