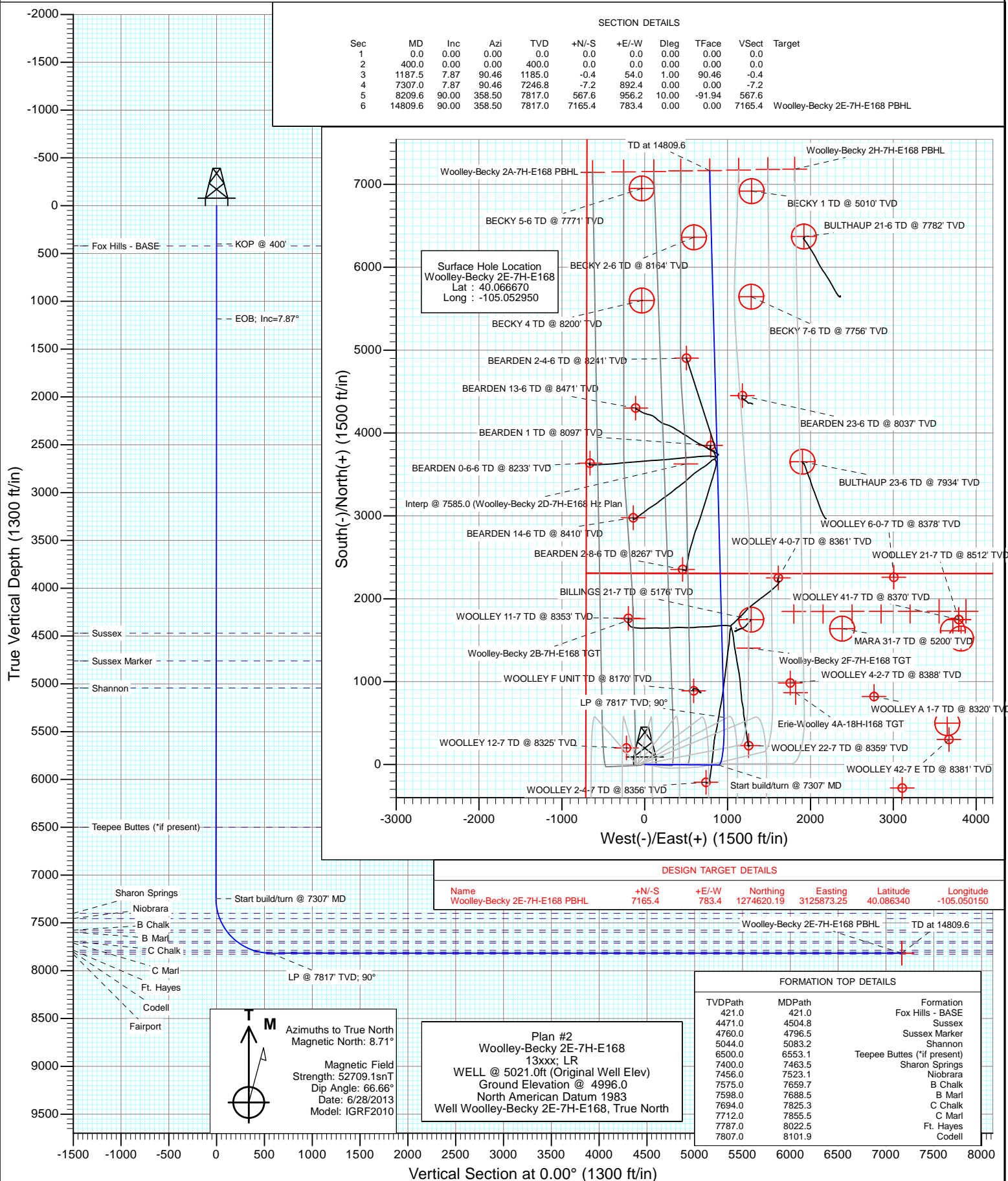




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky)
Well: Woolley-Becky 2E-7H-E168
Wellbore: Hz
Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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

Site		S7-T1N-R68W (Woolley-Sosa/Becky)			
Site Position:		Northing:	1,265,219.42 ft	Latitude:	40.060530
From:	Lat/Long	Easting:	3,126,139.27 ft	Longitude:	-105.049370
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Woolley-Becky 2E-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,450.97 ft	Latitude:	40.066670
	+E/-W	0.0 ft	Easting:	3,125,125.95 ft	Longitude:	-105.052950
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,996.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/28/2013	8.71	66.66	52,709

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

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	
1,187.5	7.87	90.46	1,185.0	-0.4	54.0	1.00	1.00	0.00	90.46	
7,307.0	7.87	90.46	7,246.8	-7.2	892.4	0.00	0.00	0.00	0.00	
8,209.6	90.00	358.50	7,817.0	567.6	956.2	10.00	9.10	-10.19	-91.94	
14,809.6	90.00	358.50	7,817.0	7,165.4	783.4	0.00	0.00	0.00	0.00	Woolley-Becky 2E-7H

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
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'
421.0	0.21	90.46	421.0	0.0	0.0	0.0	1.00	1.00	Fox Hills - BASE
500.0	1.00	90.46	500.0	0.0	0.9	0.0	1.00	1.00	
600.0	2.00	90.46	600.0	0.0	3.5	0.0	1.00	1.00	
700.0	3.00	90.46	699.9	-0.1	7.9	-0.1	1.00	1.00	
800.0	4.00	90.46	799.7	-0.1	14.0	-0.1	1.00	1.00	
900.0	5.00	90.46	899.4	-0.2	21.8	-0.2	1.00	1.00	
1,000.0	6.00	90.46	998.9	-0.3	31.4	-0.3	1.00	1.00	
1,100.0	7.00	90.46	1,098.3	-0.3	42.7	-0.3	1.00	1.00	
1,187.5	7.87	90.46	1,185.0	-0.4	54.0	-0.4	1.00	1.00	EOB; Inc=7.87°
1,200.0	7.87	90.46	1,197.4	-0.4	55.7	-0.4	0.00	0.00	
1,300.0	7.87	90.46	1,296.5	-0.6	69.4	-0.6	0.00	0.00	
1,400.0	7.87	90.46	1,395.5	-0.7	83.1	-0.7	0.00	0.00	
1,500.0	7.87	90.46	1,494.6	-0.8	96.8	-0.8	0.00	0.00	
1,600.0	7.87	90.46	1,593.6	-0.9	110.5	-0.9	0.00	0.00	
1,700.0	7.87	90.46	1,692.7	-1.0	124.2	-1.0	0.00	0.00	
1,800.0	7.87	90.46	1,791.7	-1.1	137.9	-1.1	0.00	0.00	
1,900.0	7.87	90.46	1,890.8	-1.2	151.6	-1.2	0.00	0.00	
2,000.0	7.87	90.46	1,989.9	-1.3	165.3	-1.3	0.00	0.00	
2,100.0	7.87	90.46	2,088.9	-1.4	179.0	-1.4	0.00	0.00	
2,200.0	7.87	90.46	2,188.0	-1.6	192.7	-1.6	0.00	0.00	
2,300.0	7.87	90.46	2,287.0	-1.7	206.4	-1.7	0.00	0.00	
2,400.0	7.87	90.46	2,386.1	-1.8	220.1	-1.8	0.00	0.00	
2,500.0	7.87	90.46	2,485.1	-1.9	233.8	-1.9	0.00	0.00	
2,600.0	7.87	90.46	2,584.2	-2.0	247.5	-2.0	0.00	0.00	
2,700.0	7.87	90.46	2,683.3	-2.1	261.2	-2.1	0.00	0.00	
2,800.0	7.87	90.46	2,782.3	-2.2	274.9	-2.2	0.00	0.00	
2,900.0	7.87	90.46	2,881.4	-2.3	288.6	-2.3	0.00	0.00	
3,000.0	7.87	90.46	2,980.4	-2.4	302.3	-2.4	0.00	0.00	
3,100.0	7.87	90.46	3,079.5	-2.5	316.0	-2.5	0.00	0.00	
3,200.0	7.87	90.46	3,178.5	-2.7	329.7	-2.7	0.00	0.00	
3,300.0	7.87	90.46	3,277.6	-2.8	343.4	-2.8	0.00	0.00	
3,400.0	7.87	90.46	3,376.7	-2.9	357.1	-2.9	0.00	0.00	
3,500.0	7.87	90.46	3,475.7	-3.0	370.8	-3.0	0.00	0.00	
3,600.0	7.87	90.46	3,574.8	-3.1	384.5	-3.1	0.00	0.00	
3,700.0	7.87	90.46	3,673.8	-3.2	398.2	-3.2	0.00	0.00	
3,800.0	7.87	90.46	3,772.9	-3.3	411.9	-3.3	0.00	0.00	
3,900.0	7.87	90.46	3,871.9	-3.4	425.6	-3.4	0.00	0.00	
4,000.0	7.87	90.46	3,971.0	-3.5	439.3	-3.5	0.00	0.00	
4,100.0	7.87	90.46	4,070.1	-3.7	453.1	-3.7	0.00	0.00	
4,200.0	7.87	90.46	4,169.1	-3.8	466.8	-3.8	0.00	0.00	
4,300.0	7.87	90.46	4,268.2	-3.9	480.5	-3.9	0.00	0.00	
4,400.0	7.87	90.46	4,367.2	-4.0	494.2	-4.0	0.00	0.00	
4,500.0	7.87	90.46	4,466.3	-4.1	507.9	-4.1	0.00	0.00	
4,504.8	7.87	90.46	4,471.0	-4.1	508.5	-4.1	0.00	0.00	Sussex
4,600.0	7.87	90.46	4,565.3	-4.2	521.6	-4.2	0.00	0.00	
4,700.0	7.87	90.46	4,664.4	-4.3	535.3	-4.3	0.00	0.00	
4,796.5	7.87	90.46	4,760.0	-4.4	548.5	-4.4	0.00	0.00	Sussex Marker

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	7.87	90.46	4,763.5	-4.4	549.0	-4.4	0.00	0.00	
4,900.0	7.87	90.46	4,862.5	-4.5	562.7	-4.5	0.00	0.00	
5,000.0	7.87	90.46	4,961.6	-4.6	576.4	-4.6	0.00	0.00	
5,083.2	7.87	90.46	5,044.0	-4.7	587.8	-4.7	0.00	0.00	Shannon
5,100.0	7.87	90.46	5,060.6	-4.8	590.1	-4.8	0.00	0.00	
5,200.0	7.87	90.46	5,159.7	-4.9	603.8	-4.9	0.00	0.00	
5,300.0	7.87	90.46	5,258.7	-5.0	617.5	-5.0	0.00	0.00	
5,400.0	7.87	90.46	5,357.8	-5.1	631.2	-5.1	0.00	0.00	
5,500.0	7.87	90.46	5,456.9	-5.2	644.9	-5.2	0.00	0.00	
5,600.0	7.87	90.46	5,555.9	-5.3	658.6	-5.3	0.00	0.00	
5,700.0	7.87	90.46	5,655.0	-5.4	672.3	-5.4	0.00	0.00	
5,800.0	7.87	90.46	5,754.0	-5.5	686.0	-5.5	0.00	0.00	
5,900.0	7.87	90.46	5,853.1	-5.6	699.7	-5.6	0.00	0.00	
6,000.0	7.87	90.46	5,952.1	-5.8	713.4	-5.8	0.00	0.00	
6,100.0	7.87	90.46	6,051.2	-5.9	727.1	-5.9	0.00	0.00	
6,200.0	7.87	90.46	6,150.3	-6.0	740.8	-6.0	0.00	0.00	
6,300.0	7.87	90.46	6,249.3	-6.1	754.5	-6.1	0.00	0.00	
6,400.0	7.87	90.46	6,348.4	-6.2	768.2	-6.2	0.00	0.00	
6,500.0	7.87	90.46	6,447.4	-6.3	781.9	-6.3	0.00	0.00	
6,553.1	7.87	90.46	6,500.0	-6.4	789.1	-6.4	0.00	0.00	Teepee Buttes (*if present)
6,600.0	7.87	90.46	6,546.5	-6.4	795.6	-6.4	0.00	0.00	
6,700.0	7.87	90.46	6,645.5	-6.5	809.3	-6.5	0.00	0.00	
6,800.0	7.87	90.46	6,744.6	-6.6	823.0	-6.6	0.00	0.00	
6,900.0	7.87	90.46	6,843.7	-6.7	836.7	-6.7	0.00	0.00	
7,000.0	7.87	90.46	6,942.7	-6.9	850.4	-6.9	0.00	0.00	
7,100.0	7.87	90.46	7,041.8	-7.0	864.1	-7.0	0.00	0.00	
7,200.0	7.87	90.46	7,140.8	-7.1	877.8	-7.1	0.00	0.00	
7,300.0	7.87	90.46	7,239.9	-7.2	891.5	-7.2	0.00	0.00	
7,307.0	7.87	90.46	7,246.8	-7.2	892.4	-7.2	0.00	0.00	Start build/turn @ 7307' MD
7,400.0	11.96	39.23	7,338.6	0.2	904.9	0.2	10.00	4.39	
7,463.5	17.24	24.96	7,400.0	13.9	913.0	13.9	10.00	8.31	Sharon Springs
7,500.0	20.54	20.15	7,434.5	24.8	917.5	24.8	10.00	9.05	
7,523.1	22.68	17.81	7,456.0	32.8	920.3	32.8	10.00	9.28	Niobrara
7,600.0	29.99	12.36	7,524.9	65.8	929.0	65.8	10.00	9.50	
7,659.7	35.77	9.56	7,575.0	97.6	935.1	97.6	10.00	9.67	B Chalk
7,688.5	38.58	8.48	7,598.0	114.8	937.8	114.8	10.00	9.74	B Marl
7,700.0	39.70	8.09	7,606.9	122.0	938.8	122.0	10.00	9.76	
7,800.0	49.50	5.28	7,678.0	191.6	946.8	191.6	10.00	9.81	
7,825.3	51.99	4.70	7,694.0	211.1	948.5	211.1	10.00	9.84	C Chalk
7,855.5	54.97	4.06	7,712.0	235.3	950.4	235.3	10.00	9.85	C Marl
7,900.0	59.36	3.20	7,736.1	272.6	952.7	272.6	10.00	9.87	
8,000.0	69.24	1.50	7,779.4	362.6	956.4	362.6	10.00	9.88	
8,022.5	71.47	1.16	7,787.0	383.8	956.9	383.8	10.00	9.89	Ft. Hayes
8,100.0	79.14	0.02	7,806.6	458.6	957.6	458.6	10.00	9.90	
8,101.9	79.33	359.99	7,807.0	460.5	957.6	460.5	10.00	9.90	Codell
8,200.0	89.04	358.63	7,816.9	558.0	956.4	558.0	10.00	9.90	
8,209.6	90.00	358.50	7,817.0	567.6	956.2	567.6	10.00	9.91	LP @ 7817' TVD; 90°
8,300.0	90.00	358.50	7,817.0	657.9	953.8	657.9	0.00	0.00	
8,400.0	90.00	358.50	7,817.0	757.9	951.2	757.9	0.00	0.00	
8,500.0	90.00	358.50	7,817.0	857.9	948.6	857.9	0.00	0.00	
8,600.0	90.00	358.50	7,817.0	957.8	946.0	957.8	0.00	0.00	
8,700.0	90.00	358.50	7,817.0	1,057.8	943.4	1,057.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
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Project:	DJ Wattenberg	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	358.50	7,817.0	1,157.8	940.8	1,157.8	0.00	0.00	
8,900.0	90.00	358.50	7,817.0	1,257.7	938.1	1,257.7	0.00	0.00	
9,000.0	90.00	358.50	7,817.0	1,357.7	935.5	1,357.7	0.00	0.00	
9,100.0	90.00	358.50	7,817.0	1,457.7	932.9	1,457.7	0.00	0.00	
9,200.0	90.00	358.50	7,817.0	1,557.6	930.3	1,557.6	0.00	0.00	
9,300.0	90.00	358.50	7,817.0	1,657.6	927.7	1,657.6	0.00	0.00	
9,400.0	90.00	358.50	7,817.0	1,757.6	925.0	1,757.6	0.00	0.00	
9,500.0	90.00	358.50	7,817.0	1,857.5	922.4	1,857.5	0.00	0.00	
9,600.0	90.00	358.50	7,817.0	1,957.5	919.8	1,957.5	0.00	0.00	
9,700.0	90.00	358.50	7,817.0	2,057.5	917.2	2,057.5	0.00	0.00	
9,800.0	90.00	358.50	7,817.0	2,157.4	914.6	2,157.4	0.00	0.00	
9,900.0	90.00	358.50	7,817.0	2,257.4	912.0	2,257.4	0.00	0.00	
10,000.0	90.00	358.50	7,817.0	2,357.4	909.3	2,357.4	0.00	0.00	
10,100.0	90.00	358.50	7,817.0	2,457.3	906.7	2,457.3	0.00	0.00	
10,200.0	90.00	358.50	7,817.0	2,557.3	904.1	2,557.3	0.00	0.00	
10,300.0	90.00	358.50	7,817.0	2,657.3	901.5	2,657.3	0.00	0.00	
10,400.0	90.00	358.50	7,817.0	2,757.2	898.9	2,757.2	0.00	0.00	
10,500.0	90.00	358.50	7,817.0	2,857.2	896.3	2,857.2	0.00	0.00	
10,600.0	90.00	358.50	7,817.0	2,957.2	893.6	2,957.2	0.00	0.00	
10,700.0	90.00	358.50	7,817.0	3,057.1	891.0	3,057.1	0.00	0.00	
10,800.0	90.00	358.50	7,817.0	3,157.1	888.4	3,157.1	0.00	0.00	
10,900.0	90.00	358.50	7,817.0	3,257.1	885.8	3,257.1	0.00	0.00	
11,000.0	90.00	358.50	7,817.0	3,357.0	883.2	3,357.0	0.00	0.00	
11,100.0	90.00	358.50	7,817.0	3,457.0	880.5	3,457.0	0.00	0.00	
11,200.0	90.00	358.50	7,817.0	3,557.0	877.9	3,557.0	0.00	0.00	
11,300.0	90.00	358.50	7,817.0	3,656.9	875.3	3,656.9	0.00	0.00	
11,400.0	90.00	358.50	7,817.0	3,756.9	872.7	3,756.9	0.00	0.00	
11,500.0	90.00	358.50	7,817.0	3,856.8	870.1	3,856.8	0.00	0.00	
11,600.0	90.00	358.50	7,817.0	3,956.8	867.5	3,956.8	0.00	0.00	
11,700.0	90.00	358.50	7,817.0	4,056.8	864.8	4,056.8	0.00	0.00	
11,800.0	90.00	358.50	7,817.0	4,156.7	862.2	4,156.7	0.00	0.00	
11,900.0	90.00	358.50	7,817.0	4,256.7	859.6	4,256.7	0.00	0.00	
12,000.0	90.00	358.50	7,817.0	4,356.7	857.0	4,356.7	0.00	0.00	
12,100.0	90.00	358.50	7,817.0	4,456.6	854.4	4,456.6	0.00	0.00	
12,200.0	90.00	358.50	7,817.0	4,556.6	851.8	4,556.6	0.00	0.00	
12,300.0	90.00	358.50	7,817.0	4,656.6	849.1	4,656.6	0.00	0.00	
12,400.0	90.00	358.50	7,817.0	4,756.5	846.5	4,756.5	0.00	0.00	
12,500.0	90.00	358.50	7,817.0	4,856.5	843.9	4,856.5	0.00	0.00	
12,600.0	90.00	358.50	7,817.0	4,956.5	841.3	4,956.5	0.00	0.00	
12,700.0	90.00	358.50	7,817.0	5,056.4	838.7	5,056.4	0.00	0.00	
12,800.0	90.00	358.50	7,817.0	5,156.4	836.0	5,156.4	0.00	0.00	
12,900.0	90.00	358.50	7,817.0	5,256.4	833.4	5,256.4	0.00	0.00	
13,000.0	90.00	358.50	7,817.0	5,356.3	830.8	5,356.3	0.00	0.00	
13,100.0	90.00	358.50	7,817.0	5,456.3	828.2	5,456.3	0.00	0.00	
13,200.0	90.00	358.50	7,817.0	5,556.3	825.6	5,556.3	0.00	0.00	
13,300.0	90.00	358.50	7,817.0	5,656.2	823.0	5,656.2	0.00	0.00	
13,400.0	90.00	358.50	7,817.0	5,756.2	820.3	5,756.2	0.00	0.00	
13,500.0	90.00	358.50	7,817.0	5,856.2	817.7	5,856.2	0.00	0.00	
13,600.0	90.00	358.50	7,817.0	5,956.1	815.1	5,956.1	0.00	0.00	
13,700.0	90.00	358.50	7,817.0	6,056.1	812.5	6,056.1	0.00	0.00	
13,800.0	90.00	358.50	7,817.0	6,156.1	809.9	6,156.1	0.00	0.00	
13,900.0	90.00	358.50	7,817.0	6,256.0	807.3	6,256.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	358.50	7,817.0	6,356.0	804.6	6,356.0	0.00	0.00	
14,100.0	90.00	358.50	7,817.0	6,456.0	802.0	6,456.0	0.00	0.00	
14,200.0	90.00	358.50	7,817.0	6,555.9	799.4	6,555.9	0.00	0.00	
14,300.0	90.00	358.50	7,817.0	6,655.9	796.8	6,655.9	0.00	0.00	
14,400.0	90.00	358.50	7,817.0	6,755.9	794.2	6,755.9	0.00	0.00	
14,500.0	90.00	358.50	7,817.0	6,855.8	791.5	6,855.8	0.00	0.00	
14,600.0	90.00	358.50	7,817.0	6,955.8	788.9	6,955.8	0.00	0.00	
14,700.0	90.00	358.50	7,817.0	7,055.8	786.3	7,055.8	0.00	0.00	
14,800.0	90.00	358.50	7,817.0	7,155.7	783.7	7,155.7	0.00	0.00	
14,809.6	90.00	358.50	7,817.0	7,165.4	783.4	7,165.4	0.00	0.00	TD at 14809.6 - Woolley-Becky 2E-7H-E168 PE

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
Woolley-Becky 2E-7H-E - plan hits target center - Point	0.00	0.00	7,817.0	7,165.4	783.4	1,274,620.19	3,125,873.25	40.086340	-105.050150

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
421.0	421.0	Fox Hills - BASE			
4,504.8	4,471.0	Sussex			
4,796.5	4,760.0	Sussex Marker			
5,083.2	5,044.0	Shannon			
6,553.1	6,500.0	Teepee Buttes (*if present)			
7,463.5	7,400.0	Sharon Springs			
7,523.1	7,456.0	Niobrara			
7,659.7	7,575.0	B Chalk			
7,688.5	7,598.0	B Marl			
7,825.3	7,694.0	C Chalk			
7,855.5	7,712.0	C Marl			
8,022.5	7,787.0	Ft. Hayes			
8,101.9	7,807.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
1,187.5	1,185.0	-0.4	54.0	EOB; Inc=7.87°
7,307.0	7,246.8	-7.2	892.4	Start build/turn @ 7307' MD
8,209.6	7,817.0	567.6	956.2	LP @ 7817' TVD; 90°
14,809.6	7,817.0	7,165.4	783.4	TD at 14809.6

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S7-T1N-R68W (Woolley-Sosa/Becky)

Woolley-Becky 2E-7H-E168

Hz

Plan #2

Anticollision Report

11 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	7/11/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,809.6	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,490.5	7,774.6	76.1	-7.8	0.907	Level 1, CC, ES, SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,073.4	7,764.8	320.8	227.0	3.420	CC, ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,100.0	7,766.0	321.9	227.6	3.415	SF
BEARDEN 24-6 (EXISTING) - ENCANA WELL - PLAN O						Out of range
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,555.3	7,913.5	338.8	225.4	2.987	CC, ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	10,001.2	7,978.6	449.9	378.3	6.283	CC, ES, SF
BECKY 1 (EXISTING) - FOUNDATION WELL - NO SUR						Out of range
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	14,010.2	7,756.0	211.0	83.6	1.657	CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV						Out of range
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,275.8	7,756.0	462.0	347.5	4.033	CC, ES
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,300.0	7,756.0	462.7	347.7	4.024	SF
BILLINGS 21-7 (EXISTING) - KPK WELL - SURVEYS						Out of range
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
Sosa 11-18 - DD - DD						Out of range
Sosa 11-18 - DD - Plan #1						Out of range
Sosa 12-18 - DD - DD						Out of range
Sosa 12-18 - DD - Plan #3						Out of range
Sosa 21-18 - DD (Gyro) - DD						Out of range
Sosa 21-18 - DD (MWD) - DD						Out of range
Sosa 21-18 - DD (MWD) - Plan #2						Out of range
Sosa 22-18 - DD - DD						Out of range
Sosa 22-18 - DD - Plan #2						Out of range
Sosa A #1 (Existing) - DD - DD						Out of range
THOMAS 14-7(EXISTING) - EXISTING - NO SURVEY						Out of range
THOMAS 24-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
THOMAS 24-7 (Existing) - Existing - NO SURVEYS						Out of range
THOMAS 2-8-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS						Out of range
Thomas 7-14 (Existing) - Existing - NO SURVEYS						Out of range
THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	400.0	474.0	297.4	295.9	200.653	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	2,500.0	2,559.1	497.4	488.3	54.764	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,281.6	7,852.0	170.4	123.8	3.660	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,300.0	7,852.0	171.4	124.5	3.658	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,865.2	7,979.6	305.0	261.7	7.045	CC, ES, SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	5,000.0	5,351.0	262.3	222.2	6.536	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	6,391.1	6,758.6	217.5	187.7	7.311	CC, ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,541.0	7,850.4	360.0	324.7	10.197	CC, ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,600.0	7,850.0	364.8	328.7	10.099	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	200.0	199.0	30.8	30.2	50.543	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	500.0	497.3	38.6	36.9	23.287	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #1	300.0	299.0	26.2	25.3	27.366	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #1	600.0	598.0	33.7	31.7	16.744	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #1	400.0	400.0	22.4	21.1	17.105	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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky)						
Woolley-Becky 2C-7H-E168 - Hz - Plan #1	900.0	901.4	36.3	33.3	11.903	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #1	400.0	400.0	18.3	17.0	13.984	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #1	14,809.6	14,523.7	419.7	205.4	1.959	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #1	266.3	267.3	7.8	7.0	9.246	CC
Woolley-Becky 2F-7H-E168 - Hz - Plan #1	300.0	301.0	7.8	6.8	8.116	ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #1	14,809.6	14,347.5	440.2	235.8	2.154	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	232.0	233.0	8.4	7.7	11.592	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	300.0	300.9	8.6	7.7	8.964	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	700.0	700.0	18.2	15.9	7.741	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	166.3	167.3	15.8	15.3	31.867	CC
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	200.0	201.0	15.8	15.2	25.754	ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	1,200.0	1,195.6	45.9	41.8	11.146	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	200.0	198.0	97.6	97.0	160.628	CC, ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	900.0	885.2	150.0	146.9	48.395	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	300.0	298.0	92.7	91.7	96.908	CC
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	400.0	397.5	93.0	91.7	71.257	ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	1,000.0	991.2	141.6	138.1	40.436	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	400.0	398.0	87.6	86.3	67.071	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	3,700.0	3,670.7	490.2	474.8	31.931	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	400.0	398.0	82.7	81.4	63.349	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	4,700.0	4,679.7	493.1	471.2	22.527	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #1	400.0	398.0	67.6	66.3	51.753	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #1	7,832.4	7,947.6	185.8	157.3	6.522	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	744.9	746.6	59.2	56.7	23.313	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	800.0	802.1	59.3	56.6	21.602	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	7,878.3	7,949.7	159.9	131.1	5.551	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	963.0	966.1	42.5	39.0	12.268	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	1,000.0	1,003.2	42.6	38.9	11.695	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	1,500.0	1,502.7	58.9	52.0	8.534	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 100-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
11,000.0	7,817.0	7,764.0	7,761.4	64.0	13.8	-82.09	3,845.1	794.3	496.2	421.5	74.74	6.640	
11,100.0	7,817.0	7,766.2	7,763.6	65.6	13.8	-83.71	3,845.2	794.3	397.7	321.1	76.69	5.186	
11,200.0	7,817.0	7,768.3	7,765.8	67.3	13.8	-85.34	3,845.2	794.3	300.2	221.6	78.60	3.820	
11,300.0	7,817.0	7,770.5	7,768.0	69.0	13.8	-86.96	3,845.3	794.3	205.1	124.6	80.46	2.549	
11,400.0	7,817.0	7,772.7	7,770.1	70.6	13.8	-88.58	3,845.3	794.3	118.2	35.9	82.27	1.437 Level 3	
11,490.5	7,817.0	7,774.6	7,772.1	72.1	13.8	-90.04	3,845.4	794.3	76.1	-7.8	83.86	0.907 Level 1, CC, ES, SF	
11,500.0	7,817.0	7,774.8	7,772.3	72.3	13.8	-90.20	3,845.4	794.3	76.6	-7.4	84.02	0.912 Level 1	
11,600.0	7,817.0	7,776.9	7,774.4	74.0	13.8	-91.80	3,845.4	794.3	133.3	47.6	85.72	1.555	
11,700.0	7,817.0	7,779.1	7,776.5	75.7	13.8	-93.40	3,845.5	794.3	222.8	135.5	87.35	2.551	
11,800.0	7,817.0	7,781.2	7,778.6	77.3	13.8	-94.98	3,845.5	794.3	318.6	229.7	88.92	3.584	
11,900.0	7,817.0	7,783.3	7,780.7	79.0	13.8	-96.55	3,845.5	794.3	416.4	326.0	90.42	4.605	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - 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					
11,700.0	7,817.0	7,748.8	7,746.4	75.7	13.8	86.67	4,437.8	1,175.6	492.0	404.8	87.20	5.643					
11,800.0	7,817.0	7,753.1	7,750.6	77.3	13.8	87.44	4,438.0	1,175.7	421.4	332.4	88.98	4.735					
11,900.0	7,817.0	7,757.4	7,754.9	79.0	13.8	88.20	4,438.2	1,175.7	364.6	273.9	90.76	4.017					
12,000.0	7,817.0	7,761.7	7,759.2	80.7	13.8	88.97	4,438.3	1,175.7	329.1	236.6	92.52	3.557					
12,073.4	7,817.0	7,764.8	7,762.4	82.0	13.8	89.53	4,438.5	1,175.8	320.8	227.0	93.81	3.420 CC, ES					
12,100.0	7,817.0	7,766.0	7,763.5	82.4	13.8	89.74	4,438.5	1,175.8	321.9	227.6	94.27	3.415 SF					
12,200.0	7,817.0	7,770.3	7,767.8	84.1	13.8	90.50	4,438.7	1,175.8	344.8	248.8	96.01	3.592					
12,300.0	7,817.0	7,774.6	7,772.1	85.8	13.8	91.27	4,438.9	1,175.8	392.6	294.9	97.73	4.018					
12,400.0	7,817.0	7,778.9	7,776.4	87.5	13.8	92.03	4,439.1	1,175.9	457.6	358.1	99.43	4.602					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN ONLY											Offset Site Error:		0.0 ft	
Survey Program: 775-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		
12,200.0	7,817.0	7,913.5	7,787.0	84.1	25.6	-90.00	4,902.9	503.8	490.9	383.7	107.26	4.577		
12,300.0	7,817.0	7,913.5	7,787.0	85.8	25.6	-90.00	4,902.9	503.8	424.2	315.2	108.99	3.892		
12,400.0	7,817.0	7,913.5	7,787.0	87.5	25.6	-90.00	4,902.9	503.8	372.7	262.0	110.72	3.366		
12,500.0	7,817.0	7,913.5	7,787.0	89.2	25.6	-90.00	4,902.9	503.8	343.3	230.8	112.46	3.053		
12,555.3	7,817.0	7,913.5	7,787.0	90.1	25.6	-90.00	4,902.9	503.8	338.8	225.4	113.42	2.987	CC, ES, SF	
12,600.0	7,817.0	7,913.5	7,787.0	90.9	25.6	-90.00	4,902.9	503.8	341.7	227.6	114.19	2.993		
12,700.0	7,817.0	7,913.5	7,787.0	92.6	25.6	-90.00	4,902.9	503.8	368.4	252.5	115.93	3.178		
12,800.0	7,817.0	7,913.5	7,787.0	94.3	25.6	-90.00	4,902.9	503.8	417.9	300.3	117.66	3.552		
12,900.0	7,817.0	7,913.5	7,787.0	96.0	25.6	-90.00	4,902.9	503.8	483.3	363.9	119.40	4.048		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 76-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis			
9,800.0	7,817.0	7,976.2	7,783.8	44.7	27.9	-89.59	2,346.7	459.6	492.8	424.6	68.24	7.222		
9,900.0	7,817.0	7,977.4	7,785.0	46.3	27.9	-89.75	2,346.8	459.6	461.1	391.2	69.91	6.596		
10,000.0	7,817.0	7,978.6	7,786.2	47.8	27.9	-89.90	2,346.8	459.6	449.9	378.3	71.58	6.285		
10,001.2	7,817.0	7,978.6	7,786.2	47.9	27.9	-89.90	2,346.8	459.6	449.9	378.3	71.60	6.283	CC, ES, SF	
10,100.0	7,817.0	7,979.8	7,787.4	49.4	27.9	-90.05	2,346.8	459.6	460.6	387.3	73.26	6.287		
10,200.0	7,817.0	7,981.0	7,788.6	51.0	27.9	-90.21	2,346.8	459.6	491.8	416.9	74.95	6.562		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:													8164-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)								
13,600.0	7,817.0	7,756.0	7,756.0	108.0	13.5	-90.00	6,360.6	593.5	461.3	341.0	120.21	3.837						
13,700.0	7,817.0	7,756.0	7,756.0	109.8	13.5	-90.00	6,360.6	593.5	375.1	253.2	121.95	3.076						
13,800.0	7,817.0	7,756.0	7,756.0	111.5	13.5	-90.00	6,360.6	593.5	297.8	174.1	123.69	2.408						
13,900.0	7,817.0	7,756.0	7,756.0	113.2	13.5	-90.00	6,360.6	593.5	238.0	112.6	125.43	1.897						
14,000.0	7,817.0	7,756.0	7,756.0	114.9	13.5	-90.00	6,360.6	593.5	211.2	84.0	127.17	1.661						
14,010.2	7,817.0	7,756.0	7,756.0	115.1	13.5	-90.00	6,360.6	593.5	211.0	83.6	127.35	1.657	CC, ES, SF					
14,100.0	7,817.0	7,756.0	7,756.0	116.6	13.5	-90.00	6,360.6	593.5	229.3	100.4	128.92	1.779						
14,200.0	7,817.0	7,756.0	7,756.0	118.4	13.5	-90.00	6,360.6	593.5	283.8	153.1	130.66	2.172						
14,300.0	7,817.0	7,756.0	7,756.0	120.1	13.5	-90.00	6,360.6	593.5	358.5	226.1	132.40	2.707						
14,400.0	7,817.0	7,756.0	7,756.0	121.8	13.5	-90.00	6,360.6	593.5	443.2	309.1	134.15	3.304						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS			Offset Site Error:		0.0 ft
Survey Program:											7756-Geolink MWD			Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)					
13,100.0	7,817.0	7,756.0	7,756.0	99.5	13.5	89.88	5,644.1	1,285.5	494.4	382.9	111.51	4.434				
13,200.0	7,817.0	7,756.0	7,756.0	101.2	13.5	89.88	5,644.1	1,285.5	468.2	355.0	113.25	4.135				
13,275.8	7,817.0	7,756.0	7,756.0	102.5	13.5	89.88	5,644.1	1,285.5	462.0	347.5	114.56	4.033 CC, ES				
13,300.0	7,817.0	7,756.0	7,756.0	102.9	13.5	89.88	5,644.1	1,285.5	462.7	347.7	114.98	4.024 SF				
13,400.0	7,817.0	7,756.0	7,756.0	104.6	13.5	89.88	5,644.1	1,285.5	478.4	361.7	116.72	4.099				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8325-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	74.0	74.0	0.0	0.1	-48.12	198.5	-221.4	297.4						
100.0	100.0	174.0	174.0	0.1	0.3	-48.12	198.5	-221.4	297.4	296.9	0.43	683.931			
200.0	200.0	274.0	274.0	0.3	0.5	-48.12	198.5	-221.4	297.4	296.6	0.78	379.362			
300.0	300.0	374.0	374.0	0.5	0.7	-48.12	198.5	-221.4	297.4	296.2	1.13	262.476			
400.0	400.0	474.0	474.0	0.7	0.8	-48.12	198.5	-221.4	297.4	295.9	1.48	200.653 CC, ES			
500.0	500.0	574.0	574.0	0.8	1.0	-138.68	198.5	-221.4	298.0	296.2	1.83	162.746			
600.0	600.0	674.0	674.0	1.0	1.2	-139.00	198.5	-221.4	300.0	297.8	2.18	137.522			
700.0	699.9	773.9	773.9	1.2	1.4	-139.52	198.5	-221.4	303.3	300.8	2.53	119.700			
800.0	799.7	873.7	873.7	1.4	1.5	-140.23	198.5	-221.4	308.0	305.1	2.89	106.583			
900.0	899.4	973.4	973.4	1.6	1.7	-141.10	198.5	-221.4	314.0	310.8	3.25	96.653			
1,000.0	998.9	1,072.9	1,072.9	1.8	1.9	-142.13	198.5	-221.4	321.6	318.0	3.61	88.996			
1,100.0	1,098.3	1,172.3	1,172.3	2.1	2.0	-143.28	198.5	-221.4	330.6	326.6	3.98	83.029			
1,200.0	1,197.4	1,271.4	1,271.4	2.3	2.2	-144.53	198.5	-221.4	341.2	336.8	4.35	78.360			
1,300.0	1,296.5	1,370.5	1,370.5	2.6	2.4	-145.82	198.5	-221.4	352.4	347.7	4.73	74.551			
1,400.0	1,395.5	1,469.5	1,469.5	2.9	2.6	-147.03	198.5	-221.4	363.9	358.8	5.10	71.351			
1,500.0	1,494.6	1,568.6	1,568.6	3.2	2.7	-148.16	198.5	-221.4	375.5	370.0	5.47	68.635			
1,600.0	1,593.6	1,667.6	1,667.6	3.4	2.9	-149.23	198.5	-221.4	387.2	381.4	5.84	66.310			
1,700.0	1,692.7	1,766.7	1,766.7	3.7	3.1	-150.23	198.5	-221.4	399.1	392.9	6.21	64.301			
1,800.0	1,791.7	1,865.7	1,865.7	4.0	3.3	-151.18	198.5	-221.4	411.1	404.5	6.57	62.551			
1,900.0	1,890.8	1,964.8	1,964.8	4.3	3.4	-152.07	198.5	-221.4	423.1	416.2	6.93	61.017			
2,000.0	1,989.9	2,063.9	2,063.9	4.6	3.6	-152.91	198.5	-221.4	435.3	428.0	7.30	59.663			
2,100.0	2,088.9	2,162.9	2,162.9	4.9	3.8	-153.71	198.5	-221.4	447.6	439.9	7.66	58.460			
2,200.0	2,188.0	2,262.0	2,262.0	5.2	3.9	-154.46	198.5	-221.4	459.9	451.9	8.01	57.386			
2,300.0	2,287.0	2,361.0	2,361.0	5.5	4.1	-155.18	198.5	-221.4	472.4	464.0	8.37	56.422			
2,400.0	2,386.1	2,460.1	2,460.1	5.8	4.3	-155.86	198.5	-221.4	484.8	476.1	8.73	55.552			
2,500.0	2,485.1	2,559.1	2,559.1	6.0	4.5	-156.50	198.5	-221.4	497.4	488.3	9.08	54.764 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8512-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	
8,900.0	7,817.0	7,852.0	7,852.0	31.9	13.7	90.00	1,643.6	1,098.5	417.9	377.3	40.55	10.306	
9,000.0	7,817.0	7,852.0	7,852.0	33.2	13.7	90.00	1,643.6	1,098.5	329.1	287.0	42.09	7.819	
9,100.0	7,817.0	7,852.0	7,852.0	34.5	13.7	90.00	1,643.6	1,098.5	249.0	205.3	43.66	5.703	
9,200.0	7,817.0	7,852.0	7,852.0	35.9	13.7	90.00	1,643.6	1,098.5	188.9	143.6	45.24	4.175	
9,281.6	7,817.0	7,852.0	7,852.0	37.0	13.7	90.00	1,643.6	1,098.5	170.4	123.8	46.55	3.660 CC, ES	
9,300.0	7,817.0	7,852.0	7,852.0	37.3	13.7	90.00	1,643.6	1,098.5	171.4	124.5	46.84	3.658 SF	
9,400.0	7,817.0	7,852.0	7,852.0	38.7	13.7	90.00	1,643.6	1,098.5	207.5	159.0	48.46	4.282	
9,500.0	7,817.0	7,852.0	7,852.0	40.2	13.7	90.00	1,643.6	1,098.5	277.0	226.9	50.09	5.530	
9,600.0	7,817.0	7,852.0	7,852.0	41.7	13.7	90.00	1,643.6	1,098.5	361.1	309.4	51.73	6.981	
9,700.0	7,817.0	7,852.0	7,852.0	43.2	13.7	90.00	1,643.6	1,098.5	451.8	398.4	53.38	8.464	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
6,800.0	6,744.6	7,001.6	6,779.1	18.8	28.1	-28.98	226.3	1,255.2	491.1	450.7	40.33	12.177	
6,900.0	6,843.7	7,100.6	6,878.1	19.1	28.2	-29.69	226.0	1,256.2	479.8	439.2	40.61	11.814	
7,000.0	6,942.7	7,200.0	6,977.5	19.4	28.3	-30.38	225.4	1,257.4	468.6	427.7	40.92	11.452	
7,100.0	7,041.8	7,299.9	7,077.4	19.7	28.4	-31.01	224.1	1,258.9	457.5	416.2	41.23	11.095	
7,200.0	7,140.8	7,400.9	7,178.4	20.0	28.5	-31.73	222.9	1,260.0	446.0	404.5	41.53	10.741	
7,300.0	7,239.9	7,503.1	7,280.5	20.3	28.6	-32.62	222.2	1,260.2	434.2	392.4	41.81	10.387	
7,400.0	7,338.6	7,605.7	7,383.1	20.6	28.7	19.19	221.8	1,259.1	417.8	376.2	41.61	10.040	
7,500.0	7,434.5	7,700.4	7,477.9	20.9	28.8	41.84	221.6	1,257.5	392.8	351.6	41.24	9.526	
7,600.0	7,524.9	7,788.7	7,566.2	21.2	28.8	56.36	221.4	1,256.4	362.6	321.5	41.10	8.822	
7,700.0	7,606.9	7,869.6	7,647.0	21.5	28.9	70.08	221.4	1,255.8	332.2	290.6	41.65	7.976	
7,800.0	7,678.0	7,940.2	7,717.6	21.9	29.0	83.15	221.5	1,255.4	310.0	267.3	42.71	7.258	
7,865.2	7,717.5	7,979.6	7,757.0	22.2	29.0	90.35	221.7	1,255.2	305.0	261.7	43.29	7.045 CC, ES, SF	
7,900.0	7,736.1	7,998.3	7,775.7	22.3	29.0	93.50	221.8	1,255.1	306.6	263.1	43.48	7.050	
8,000.0	7,779.4	8,041.9	7,819.3	22.9	29.0	99.17	222.0	1,254.9	329.9	286.0	43.94	7.509	
8,100.0	7,806.6	8,069.6	7,847.0	23.6	29.1	98.95	222.2	1,254.8	379.8	335.0	44.75	8.487	
8,200.0	7,816.9	8,080.4	7,857.8	24.3	29.1	91.70	222.3	1,254.8	449.1	403.0	46.11	9.741	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
3,900.0	3,871.9	4,328.8	4,030.9	10.2	26.8	-30.27	217.3	831.6	477.6	448.5	29.08	16.421		
4,000.0	3,971.0	4,418.9	4,112.6	10.5	27.5	-26.72	179.3	828.2	442.0	411.5	30.57	14.459		
4,100.0	4,070.1	4,520.4	4,202.9	10.8	28.3	-21.62	133.3	823.7	406.3	373.9	32.42	12.532		
4,200.0	4,169.1	4,610.1	4,281.8	11.1	29.1	-16.13	91.0	818.4	371.8	337.6	34.16	10.882		
4,300.0	4,268.2	4,692.3	4,354.5	11.4	29.7	-10.42	52.8	813.6	341.4	305.7	35.73	9.556		
4,400.0	4,367.2	4,775.1	4,429.0	11.7	30.4	-4.34	16.9	809.9	317.3	280.2	37.14	8.545		
4,500.0	4,466.3	4,864.4	4,510.9	12.0	31.0	2.29	-18.3	806.4	298.9	260.6	38.39	7.787		
4,600.0	4,565.3	4,959.3	4,599.5	12.3	31.6	9.32	-52.3	802.6	285.2	245.8	39.41	7.237		
4,700.0	4,664.4	5,054.9	4,689.7	12.6	32.1	16.37	-83.5	797.8	274.5	234.4	40.10	6.844		
4,800.0	4,763.5	5,150.2	4,780.4	12.9	32.6	23.29	-112.3	793.4	268.0	227.6	40.44	6.628		
4,900.0	4,862.5	5,249.3	4,876.0	13.1	33.1	29.90	-138.1	789.5	264.4	224.0	40.44	6.539		
5,000.0	4,961.6	5,351.0	4,975.2	13.4	33.5	35.98	-160.4	786.0	262.3	222.2	40.14	6.536 SF		
5,100.0	5,060.6	5,452.0	5,074.5	13.7	33.8	41.26	-178.4	783.3	260.9	221.2	39.67	6.577		
5,200.0	5,159.7	5,554.7	5,176.0	14.0	34.1	46.33	-194.4	780.5	260.1	221.1	39.02	6.665		
5,300.0	5,258.7	5,661.1	5,281.6	14.3	34.3	50.99	-206.6	777.6	257.9	219.6	38.27	6.739		
5,400.0	5,357.8	5,765.4	5,385.5	14.6	34.5	55.27	-215.4	774.4	254.7	217.3	37.45	6.802		
5,500.0	5,456.9	5,868.2	5,488.1	14.9	34.7	59.02	-220.8	772.3	250.5	213.9	36.66	6.833		
5,600.0	5,555.9	5,972.3	5,592.2	15.2	34.8	62.56	-223.8	770.6	245.5	209.7	35.87	6.846		
5,700.0	5,655.0	6,075.2	5,695.0	15.5	34.8	66.04	-224.4	768.7	239.3	204.2	35.04	6.829		
5,800.0	5,754.0	6,173.8	5,793.6	15.8	34.9	69.46	-224.3	766.9	233.3	199.0	34.21	6.819		
5,900.0	5,853.1	6,272.3	5,892.1	16.1	34.9	73.03	-224.3	765.2	228.2	194.9	33.31	6.851		
6,000.0	5,952.1	6,370.9	5,990.7	16.4	35.0	76.76	-224.4	763.5	224.3	191.9	32.38	6.927		
6,100.0	6,051.2	6,469.7	6,089.4	16.7	35.0	80.58	-224.5	761.9	221.4	189.9	31.48	7.034		
6,200.0	6,150.3	6,569.2	6,189.0	17.0	35.1	84.45	-224.5	760.5	219.4	188.8	30.67	7.155		
6,300.0	6,249.3	6,669.1	6,288.8	17.3	35.1	88.22	-224.0	759.7	218.0	187.9	30.07	7.250		
6,391.1	6,339.5	6,758.6	6,378.3	17.6	35.2	91.58	-223.5	759.2	217.5	187.7	29.75	7.311 CC, ES		
6,400.0	6,348.4	6,767.4	6,387.1	17.6	35.2	91.91	-223.5	759.2	217.5	187.8	29.73	7.316		
6,500.0	6,447.4	6,865.7	6,485.5	17.9	35.3	95.62	-223.3	758.5	218.2	188.5	29.69	7.352		
6,600.0	6,546.5	6,964.4	6,584.1	18.2	35.3	99.32	-223.2	757.8	220.1	190.1	29.97	7.344		
6,700.0	6,645.5	7,063.0	6,682.7	18.5	35.4	102.97	-223.3	756.9	223.0	192.5	30.57	7.297		
6,800.0	6,744.6	7,161.4	6,781.2	18.8	35.5	106.55	-223.5	755.8	227.1	195.6	31.42	7.227		
6,900.0	6,843.7	7,260.1	6,879.8	19.1	35.5	110.06	-223.8	754.4	232.1	199.7	32.46	7.152		
7,000.0	6,942.7	7,358.8	6,978.5	19.4	35.6	113.43	-224.1	752.9	238.1	204.5	33.60	7.086		
7,100.0	7,041.8	7,457.7	7,077.5	19.7	35.7	116.67	-224.3	751.3	244.9	210.1	34.79	7.039		
7,200.0	7,140.8	7,556.6	7,176.3	20.0	35.7	119.78	-224.4	749.5	252.4	216.4	35.98	7.014		
7,300.0	7,239.9	7,655.6	7,275.3	20.3	35.8	122.75	-224.4	747.6	260.6	223.4	37.15	7.014		
7,400.0	7,338.6	7,754.5	7,374.1	20.6	35.9	176.02	-224.2	745.7	275.2	237.9	37.31	7.376		
7,500.0	7,434.5	7,851.0	7,470.7	20.9	35.9	-164.21	-223.8	743.8	303.3	266.7	36.64	8.279		
7,600.0	7,524.9	7,942.8	7,562.4	21.2	36.0	-156.60	-223.1	742.1	344.1	308.7	35.38	9.724		
7,700.0	7,606.9	8,026.8	7,646.4	21.5	36.0	-152.64	-222.4	741.1	397.1	363.2	33.91	11.710		
7,800.0	7,678.0	8,099.5	7,719.1	21.9	36.1	-149.31	-221.7	740.6	461.9	429.1	32.84	14.066		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GYRO		Offset Site Error:		0.0 ft
Survey Program:													100-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
8,200.0	7,816.9	7,852.8	7,850.7	24.3	13.8	-90.65	889.5	587.8	495.9	464.9	30.98	16.008					
8,300.0	7,817.0	7,852.2	7,850.0	25.2	13.8	-91.44	889.5	587.8	433.2	401.1	32.14	13.480					
8,400.0	7,817.0	7,851.5	7,849.3	26.1	13.8	-91.32	889.5	587.8	386.6	353.2	33.40	11.576					
8,500.0	7,817.0	7,850.7	7,848.6	27.1	13.8	-91.20	889.5	587.8	362.3	327.6	34.73	10.432					
8,541.0	7,817.0	7,850.4	7,848.3	27.6	13.8	-91.16	889.5	587.7	360.0	324.7	35.30	10.197 CC, ES					
8,600.0	7,817.0	7,850.0	7,847.8	28.2	13.8	-91.08	889.5	587.7	364.8	328.7	36.12	10.099 SF					
8,700.0	7,817.0	7,849.2	7,847.1	29.4	13.8	-90.96	889.5	587.7	393.5	356.0	37.56	10.477					
8,800.0	7,817.0	7,848.4	7,846.3	30.6	13.8	-90.84	889.5	587.7	443.5	404.4	39.04	11.359					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2A-7H-E168 - 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		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	-90.00	0.0	-30.8	30.8					
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-30.8	30.8	30.5	0.26	118.188		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.8	30.8	30.2	0.61	50.543 CC, ES		
300.0	300.0	298.5	298.5	0.5	0.5	-90.77	-0.4	-31.5	31.5	30.6	0.96	32.906		
400.0	400.0	398.0	398.0	0.7	0.7	-92.90	-1.7	-33.7	33.8	32.5	1.31	25.798		
500.0	500.0	497.3	497.2	0.8	0.8	173.80	-3.9	-37.5	38.6	36.9	1.66	23.287 SF		
600.0	600.0	596.3	596.0	1.0	1.0	171.10	-6.8	-42.6	46.7	44.7	2.01	23.303		
700.0	699.9	695.7	695.2	1.2	1.2	170.00	-9.5	-48.7	57.5	55.1	2.35	24.444		
800.0	799.7	795.0	794.2	1.4	1.4	170.92	-10.5	-55.0	69.9	67.2	2.70	25.913		
900.0	899.4	894.0	893.0	1.6	1.6	172.21	-10.8	-61.3	84.0	80.9	3.04	27.618		
1,000.0	998.9	992.7	991.5	1.8	1.8	173.25	-11.0	-67.6	99.8	96.4	3.38	29.504		
1,100.0	1,098.3	1,091.1	1,089.8	2.1	2.0	174.09	-11.3	-73.9	117.4	113.6	3.72	31.524		
1,200.0	1,197.4	1,189.2	1,187.7	2.3	2.2	174.78	-11.5	-80.2	136.7	132.6	4.06	33.635		
1,300.0	1,296.5	1,287.2	1,285.5	2.6	2.4	175.33	-11.8	-86.4	156.6	152.2	4.41	35.534		
1,400.0	1,395.5	1,385.2	1,383.2	2.9	2.6	175.75	-12.1	-92.7	176.6	171.8	4.75	37.161		
1,500.0	1,494.6	1,483.2	1,481.0	3.2	2.8	176.09	-12.3	-98.9	196.5	191.4	5.10	38.571		
1,600.0	1,593.6	1,581.1	1,578.8	3.4	3.0	176.37	-12.6	-105.2	216.5	211.1	5.44	39.803		
1,700.0	1,692.7	1,679.1	1,676.6	3.7	3.2	176.60	-12.8	-111.5	236.5	230.7	5.78	40.890		
1,800.0	1,791.7	1,777.1	1,774.4	4.0	3.4	176.79	-13.1	-117.7	256.5	250.3	6.13	41.856		
1,900.0	1,890.8	1,875.1	1,872.1	4.3	3.7	176.96	-13.4	-124.0	276.5	270.0	6.47	42.719		
2,000.0	1,989.9	1,973.1	1,969.9	4.6	3.9	177.10	-13.6	-130.2	296.4	289.6	6.82	43.496		
2,100.0	2,088.9	2,071.0	2,067.7	4.9	4.1	177.23	-13.9	-136.5	316.4	309.3	7.16	44.198		
2,200.0	2,188.0	2,169.0	2,165.5	5.2	4.3	177.34	-14.2	-142.7	336.4	328.9	7.50	44.837		
2,300.0	2,287.0	2,267.0	2,263.3	5.5	4.5	177.44	-14.4	-149.0	356.4	348.6	7.85	45.419		
2,400.0	2,386.1	2,365.0	2,361.0	5.8	4.7	177.52	-14.7	-155.3	376.4	368.2	8.19	45.953		
2,500.0	2,485.1	2,463.0	2,458.8	6.0	4.9	177.60	-14.9	-161.5	396.4	387.9	8.53	46.444		
2,600.0	2,584.2	2,560.9	2,556.6	6.3	5.1	177.68	-15.2	-167.8	416.4	407.5	8.88	46.897		
2,700.0	2,683.3	2,658.9	2,654.4	6.6	5.3	177.74	-15.5	-174.0	436.4	427.1	9.22	47.316		
2,800.0	2,782.3	2,756.9	2,752.2	6.9	5.5	177.80	-15.7	-180.3	456.4	446.8	9.57	47.706		
2,900.0	2,881.4	2,854.9	2,849.9	7.2	5.7	177.85	-16.0	-186.5	476.4	466.4	9.91	48.068		
3,000.0	2,980.4	2,952.9	2,947.7	7.5	5.9	177.90	-16.2	-192.8	496.4	486.1	10.25	48.406		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2B-7H-E168 - 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		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	-73.87	7.3	-25.2	26.2					
100.0	100.0	99.0	99.0	0.1	0.1	-73.87	7.3	-25.2	26.2	26.0	0.26	100.663		
200.0	200.0	199.0	199.0	0.3	0.3	-73.87	7.3	-25.2	26.2	25.6	0.61	43.048		
300.0	300.0	299.0	299.0	0.5	0.5	-73.87	7.3	-25.2	26.2	25.3	0.96	27.366 CC, ES		
400.0	400.0	398.8	398.8	0.7	0.7	-75.55	6.6	-25.7	26.6	25.3	1.31	20.335		
500.0	500.0	498.5	498.5	0.8	0.8	-171.10	4.7	-27.4	28.7	27.0	1.66	17.274		
600.0	600.0	598.0	597.9	1.0	1.0	-178.12	1.3	-30.2	33.7	31.7	2.01	16.744 SF		
700.0	699.9	698.0	697.8	1.2	1.2	176.91	-1.9	-33.1	41.0	38.7	2.36	17.354		
800.0	799.7	798.1	797.8	1.4	1.4	175.32	-3.7	-35.2	49.3	46.5	2.71	18.172		
900.0	899.4	898.0	897.7	1.6	1.6	175.62	-4.1	-36.4	58.3	55.3	3.06	19.093		
1,000.0	998.9	997.4	997.1	1.8	1.7	176.15	-4.3	-37.5	69.0	65.6	3.40	20.296		
1,100.0	1,098.3	1,096.7	1,096.4	2.1	1.9	176.61	-4.5	-38.6	81.4	77.6	3.74	21.750		
1,200.0	1,197.4	1,195.7	1,195.4	2.3	2.1	177.00	-4.6	-39.7	95.5	91.4	4.08	23.384		
1,300.0	1,296.5	1,294.6	1,294.3	2.6	2.2	177.32	-4.8	-40.7	110.3	105.8	4.43	24.891		
1,400.0	1,395.5	1,393.5	1,393.1	2.9	2.4	177.56	-4.9	-41.8	125.0	120.3	4.78	26.180		
1,500.0	1,494.6	1,492.4	1,492.0	3.2	2.6	177.75	-5.1	-42.9	139.8	134.7	5.12	27.295		
1,600.0	1,593.6	1,591.3	1,590.9	3.4	2.8	177.90	-5.3	-44.0	154.6	149.1	5.47	28.269		
1,700.0	1,692.7	1,690.2	1,689.8	3.7	2.9	178.02	-5.4	-45.1	169.4	163.6	5.82	29.127		
1,800.0	1,791.7	1,789.1	1,788.7	4.0	3.1	178.13	-5.6	-46.1	184.2	178.0	6.16	29.889		
1,900.0	1,890.8	1,888.0	1,887.6	4.3	3.3	178.22	-5.7	-47.2	198.9	192.4	6.51	30.570		
2,000.0	1,989.9	1,986.9	1,986.5	4.6	3.5	178.30	-5.9	-48.3	213.7	206.9	6.85	31.182		
2,100.0	2,088.9	2,085.8	2,085.4	4.9	3.6	178.37	-6.0	-49.4	228.5	221.3	7.20	31.735		
2,200.0	2,188.0	2,184.7	2,184.3	5.2	3.8	178.42	-6.2	-50.5	243.3	235.7	7.55	32.237		
2,300.0	2,287.0	2,283.6	2,283.2	5.5	4.0	178.48	-6.4	-51.6	258.1	250.2	7.89	32.696		
2,400.0	2,386.1	2,382.5	2,382.1	5.8	4.2	178.52	-6.5	-52.6	272.8	264.6	8.24	33.116		
2,500.0	2,485.1	2,481.4	2,481.0	6.0	4.3	178.57	-6.7	-53.7	287.6	279.0	8.59	33.502		
2,600.0	2,584.2	2,580.3	2,579.9	6.3	4.5	178.60	-6.8	-54.8	302.4	293.5	8.93	33.858		
2,700.0	2,683.3	2,679.2	2,678.8	6.6	4.7	178.64	-7.0	-55.9	317.2	307.9	9.28	34.187		
2,800.0	2,782.3	2,778.1	2,777.7	6.9	4.8	178.67	-7.2	-57.0	332.0	322.3	9.62	34.493		
2,900.0	2,881.4	2,877.0	2,876.6	7.2	5.0	178.70	-7.3	-58.0	346.7	336.8	9.97	34.778		
3,000.0	2,980.4	2,975.9	2,975.5	7.5	5.2	178.73	-7.5	-59.1	361.5	351.2	10.32	35.043		
3,100.0	3,079.5	3,074.8	3,074.4	7.8	5.4	178.75	-7.6	-60.2	376.3	365.6	10.66	35.291		
3,200.0	3,178.5	3,173.7	3,173.3	8.1	5.5	178.77	-7.8	-61.3	391.1	380.1	11.01	35.524		
3,300.0	3,277.6	3,272.6	3,272.2	8.4	5.7	178.79	-8.0	-62.4	405.9	394.5	11.36	35.742		
3,400.0	3,376.7	3,371.5	3,371.1	8.7	5.9	178.81	-8.1	-63.5	420.7	409.0	11.70	35.948		
3,500.0	3,475.7	3,470.4	3,469.9	9.0	6.1	178.83	-8.3	-64.5	435.4	423.4	12.05	36.141		
3,600.0	3,574.8	3,569.3	3,568.8	9.3	6.2	178.85	-8.4	-65.6	450.2	437.8	12.39	36.324		
3,700.0	3,673.8	3,668.2	3,667.7	9.6	6.4	178.86	-8.6	-66.7	465.0	452.3	12.74	36.497		
3,800.0	3,772.9	3,767.1	3,766.6	9.9	6.6	178.88	-8.8	-67.8	479.8	466.7	13.09	36.661		
3,900.0	3,871.9	3,866.0	3,865.5	10.2	6.8	178.89	-8.9	-68.9	494.6	481.1	13.43	36.816		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #1													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	-90.00	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-22.4	22.4	22.1	0.26	85.525		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-22.4	22.4	21.8	0.61	36.654		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-22.4	22.4	21.4	0.96	23.325		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-22.4	22.4	21.1	1.31	17.105 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	179.56	0.0	-22.4	23.3	21.6	1.66	14.032		
600.0	600.0	600.0	600.0	1.0	1.0	179.60	0.0	-22.4	25.9	23.9	2.01	12.899		
700.0	699.9	700.4	700.4	1.2	1.2	179.59	0.0	-21.5	29.4	27.0	2.36	12.470		
800.0	799.7	800.9	800.8	1.4	1.4	179.47	-0.2	-18.9	32.8	30.1	2.70	12.151		
900.0	899.4	901.4	901.3	1.6	1.5	179.27	-0.3	-14.5	36.3	33.3	3.05	11.903 SF		
1,000.0	998.9	1,001.4	1,001.1	1.8	1.7	179.08	-0.6	-9.1	40.5	37.1	3.40	11.926		
1,100.0	1,098.3	1,101.2	1,100.8	2.1	1.9	178.96	-0.8	-3.7	46.5	42.7	3.74	12.412		
1,200.0	1,197.4	1,200.9	1,200.3	2.3	2.1	178.90	-1.0	1.7	54.1	50.0	4.09	13.239		
1,300.0	1,296.5	1,300.6	1,299.8	2.6	2.3	178.87	-1.3	7.1	62.5	58.0	4.44	14.075		
1,400.0	1,395.5	1,400.2	1,399.3	2.9	2.5	178.85	-1.5	12.5	70.8	66.0	4.79	14.790		
1,500.0	1,494.6	1,499.9	1,498.8	3.2	2.7	178.83	-1.7	17.8	79.1	74.0	5.14	15.407		
1,600.0	1,593.6	1,599.5	1,598.4	3.4	2.9	178.82	-2.0	23.2	87.5	82.0	5.48	15.946		
1,700.0	1,692.7	1,699.2	1,697.9	3.7	3.1	178.81	-2.2	28.6	95.8	90.0	5.83	16.421		
1,800.0	1,791.7	1,798.8	1,797.4	4.0	3.3	178.80	-2.4	34.0	104.1	97.9	6.18	16.842		
1,900.0	1,890.8	1,898.5	1,896.9	4.3	3.5	178.79	-2.7	39.4	112.5	105.9	6.53	17.218		
2,000.0	1,989.9	1,998.1	1,996.4	4.6	3.7	178.78	-2.9	44.7	120.8	113.9	6.88	17.556		
2,100.0	2,088.9	2,097.8	2,095.9	4.9	3.9	178.78	-3.2	50.1	129.1	121.9	7.23	17.862		
2,200.0	2,188.0	2,197.4	2,195.4	5.2	4.0	178.77	-3.4	55.5	137.4	129.9	7.58	18.139		
2,300.0	2,287.0	2,297.1	2,294.9	5.5	4.2	178.77	-3.6	60.9	145.8	137.9	7.93	18.392		
2,400.0	2,386.1	2,396.7	2,394.4	5.8	4.4	178.76	-3.9	66.3	154.1	145.8	8.28	18.624		
2,500.0	2,485.1	2,496.4	2,493.9	6.0	4.6	178.76	-4.1	71.7	162.4	153.8	8.62	18.837		
2,600.0	2,584.2	2,596.0	2,593.4	6.3	4.8	178.75	-4.3	77.0	170.8	161.8	8.97	19.033		
2,700.0	2,683.3	2,695.7	2,692.9	6.6	5.0	178.75	-4.6	82.4	179.1	169.8	9.32	19.215		
2,800.0	2,782.3	2,795.3	2,792.4	6.9	5.2	178.75	-4.8	87.8	187.4	177.8	9.67	19.383		
2,900.0	2,881.4	2,895.0	2,891.9	7.2	5.4	178.75	-5.0	93.2	195.8	185.8	10.02	19.540		
3,000.0	2,980.4	2,994.6	2,991.4	7.5	5.6	178.74	-5.3	98.6	204.1	193.7	10.37	19.687		
3,100.0	3,079.5	3,094.3	3,091.0	7.8	5.8	178.74	-5.5	103.9	212.4	201.7	10.72	19.823		
3,200.0	3,178.5	3,193.9	3,190.5	8.1	6.0	178.74	-5.7	109.3	220.8	209.7	11.07	19.952		
3,300.0	3,277.6	3,293.6	3,290.0	8.4	6.2	178.74	-6.0	114.7	229.1	217.7	11.41	20.072		
3,400.0	3,376.7	3,393.3	3,389.5	8.7	6.4	178.74	-6.2	120.1	237.4	225.7	11.76	20.185		
3,500.0	3,475.7	3,492.9	3,489.0	9.0	6.6	178.73	-6.4	125.5	245.8	233.7	12.11	20.292		
3,600.0	3,574.8	3,592.6	3,588.5	9.3	6.8	178.73	-6.7	130.8	254.1	241.6	12.46	20.393		
3,700.0	3,673.8	3,692.2	3,688.0	9.6	7.0	178.73	-6.9	136.2	262.4	249.6	12.81	20.488		
3,800.0	3,772.9	3,791.9	3,787.5	9.9	7.2	178.73	-7.1	141.6	270.8	257.6	13.16	20.578		
3,900.0	3,871.9	3,891.5	3,887.0	10.2	7.4	178.73	-7.4	147.0	279.1	265.6	13.51	20.664		
4,000.0	3,971.0	3,991.2	3,986.5	10.5	7.6	178.73	-7.6	152.4	287.4	273.6	13.85	20.745		
4,100.0	4,070.1	4,090.8	4,086.0	10.8	7.8	178.73	-7.8	157.8	295.8	281.5	14.20	20.822		
4,200.0	4,169.1	4,190.5	4,185.5	11.1	8.0	178.72	-8.1	163.1	304.1	289.5	14.55	20.896		
4,300.0	4,268.2	4,290.1	4,285.0	11.4	8.2	178.72	-8.3	168.5	312.4	297.5	14.90	20.966		
4,400.0	4,367.2	4,389.8	4,384.5	11.7	8.4	178.72	-8.5	173.9	320.7	305.5	15.25	21.033		
4,500.0	4,466.3	4,489.4	4,484.0	12.0	8.6	178.72	-8.8	179.3	329.1	313.5	15.60	21.097		
4,600.0	4,565.3	4,589.1	4,583.6	12.3	8.8	178.72	-9.0	184.7	337.4	321.5	15.95	21.158		
4,700.0	4,664.4	4,688.7	4,683.1	12.6	9.0	178.72	-9.2	190.0	345.7	329.4	16.30	21.217		
4,800.0	4,763.5	4,788.4	4,782.6	12.9	9.2	178.72	-9.5	195.4	354.1	337.4	16.64	21.273		
4,900.0	4,862.5	4,888.0	4,882.1	13.1	9.4	178.72	-9.7	200.8	362.4	345.4	16.99	21.326		
5,000.0	4,961.6	4,987.7	4,981.6	13.4	9.6	178.72	-9.9	206.2	370.7	353.4	17.34	21.378		
5,100.0	5,060.6	5,087.3	5,081.1	13.7	9.8	178.72	-10.2	211.6	379.1	361.4	17.69	21.428		

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - 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	
5,200.0	5,159.7	5,187.0	5,180.6	14.0	10.0	178.72	-10.4	217.0	387.4	369.4	18.04	21.475	
5,300.0	5,258.7	5,286.6	5,280.1	14.3	10.2	178.72	-10.6	222.3	395.7	377.3	18.39	21.521	
5,400.0	5,357.8	5,386.3	5,379.6	14.6	10.4	178.71	-10.9	227.7	404.1	385.3	18.74	21.565	
5,500.0	5,456.9	5,486.0	5,479.1	14.9	10.5	178.71	-11.1	233.1	412.4	393.3	19.09	21.608	
5,600.0	5,555.9	5,585.6	5,578.6	15.2	10.7	178.71	-11.3	238.5	420.7	401.3	19.43	21.649	
5,700.0	5,655.0	5,685.3	5,678.1	15.5	10.9	178.71	-11.6	243.9	429.1	409.3	19.78	21.688	
5,800.0	5,754.0	5,784.9	5,777.6	15.8	11.1	178.71	-11.8	249.2	437.4	417.3	20.13	21.726	
5,900.0	5,853.1	5,884.6	5,877.1	16.1	11.3	178.71	-12.0	254.6	445.7	425.2	20.48	21.763	
6,000.0	5,952.1	5,984.2	5,976.6	16.4	11.5	178.71	-12.3	260.0	454.1	433.2	20.83	21.799	
6,100.0	6,051.2	6,083.9	6,076.2	16.7	11.7	178.71	-12.5	265.4	462.4	441.2	21.18	21.834	
6,200.0	6,150.3	6,183.5	6,175.7	17.0	11.9	178.71	-12.7	270.8	470.7	449.2	21.53	21.867	
6,300.0	6,249.3	6,283.2	6,275.2	17.3	12.1	178.71	-13.0	276.1	479.1	457.2	21.88	21.899	
6,400.0	6,348.4	6,382.8	6,374.7	17.6	12.3	178.71	-13.2	281.5	487.4	465.2	22.22	21.930	
6,500.0	6,447.4	6,482.5	6,474.2	17.9	12.5	178.71	-13.4	286.9	495.7	473.1	22.57	21.961	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2D-7H-E168 - Hz - Plan #1													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	-66.55	7.3	-16.8	18.3					
100.0	100.0	100.0	100.0	0.1	0.1	-66.55	7.3	-16.8	18.3	0.26	69.920			
200.0	200.0	200.0	200.0	0.3	0.3	-66.55	7.3	-16.8	18.3	0.61	29.966			
300.0	300.0	300.0	300.0	0.5	0.5	-66.55	7.3	-16.8	18.3	0.96	19.069			
400.0	400.0	400.0	400.0	0.7	0.7	-66.55	7.3	-16.8	18.3	1.31	13.984 CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	-158.03	7.3	-16.8	19.1	1.66	11.527			
600.0	600.0	600.3	600.3	1.0	1.0	-159.83	7.3	-15.9	20.7	2.01	10.330			
700.0	699.9	700.6	700.6	1.2	1.2	-161.36	7.3	-13.3	22.4	2.36	9.491			
800.0	799.7	801.0	800.9	1.4	1.4	-162.68	7.2	-8.9	24.0	2.71	8.869			
900.0	899.4	901.4	901.1	1.6	1.6	-163.82	7.2	-2.7	25.7	3.06	8.390			
1,000.0	998.9	1,001.8	1,001.1	1.8	1.8	-164.83	7.1	5.1	27.3	3.41	8.014			
1,100.0	1,098.3	1,101.7	1,100.7	2.1	2.0	-166.25	7.0	13.6	30.1	3.76	8.004			
1,200.0	1,197.4	1,201.6	1,200.3	2.3	2.2	-168.05	7.0	22.1	34.6	4.11	8.416			
1,300.0	1,296.5	1,301.5	1,299.8	2.6	2.4	-169.61	6.9	30.5	39.8	4.46	8.913			
1,400.0	1,395.5	1,401.4	1,399.3	2.9	2.6	-170.82	6.8	39.0	44.9	4.81	9.342			
1,500.0	1,494.6	1,501.2	1,498.8	3.2	2.8	-171.78	6.8	47.5	50.1	5.16	9.717			
1,600.0	1,593.6	1,601.1	1,598.3	3.4	3.1	-172.56	6.7	55.9	55.3	5.51	10.047			
1,700.0	1,692.7	1,700.9	1,697.8	3.7	3.3	-173.20	6.6	64.4	60.6	5.86	10.340			
1,800.0	1,791.7	1,800.8	1,797.3	4.0	3.5	-173.74	6.6	72.8	65.8	6.21	10.600			
1,900.0	1,890.8	1,900.7	1,896.8	4.3	3.7	-174.20	6.5	81.3	71.0	6.56	10.834			
2,000.0	1,989.9	2,000.5	1,996.3	4.6	4.0	-174.60	6.4	89.8	76.3	6.90	11.044			
2,100.0	2,088.9	2,100.4	2,095.8	4.9	4.2	-174.95	6.4	98.2	81.5	7.25	11.235			
2,200.0	2,188.0	2,200.2	2,195.3	5.2	4.4	-175.25	6.3	106.7	86.7	7.60	11.409			
2,300.0	2,287.0	2,300.1	2,294.8	5.5	4.6	-175.52	6.2	115.1	92.0	7.95	11.567			
2,400.0	2,386.1	2,400.0	2,394.3	5.8	4.9	-175.76	6.2	123.6	97.2	8.30	11.713			
2,500.0	2,485.1	2,499.8	2,493.8	6.0	5.1	-175.98	6.1	132.1	102.5	8.65	11.847			
2,600.0	2,584.2	2,599.7	2,593.3	6.3	5.3	-176.17	6.0	140.5	107.7	9.00	11.970			
2,700.0	2,683.3	2,699.6	2,692.8	6.6	5.5	-176.35	6.0	149.0	113.0	9.35	12.085			
2,800.0	2,782.3	2,799.4	2,792.3	6.9	5.8	-176.51	5.9	157.4	118.2	9.70	12.191			
2,900.0	2,881.4	2,899.3	2,891.8	7.2	6.0	-176.66	5.8	165.9	123.5	10.04	12.290			
3,000.0	2,980.4	2,999.1	2,991.3	7.5	6.2	-176.80	5.8	174.4	128.7	10.39	12.383			
3,100.0	3,079.5	3,099.0	3,090.8	7.8	6.4	-176.92	5.7	182.8	134.0	10.74	12.469			
3,200.0	3,178.5	3,198.9	3,190.3	8.1	6.7	-177.04	5.6	191.3	139.2	11.09	12.551			
3,300.0	3,277.6	3,298.7	3,289.8	8.4	6.9	-177.15	5.6	199.8	144.5	11.44	12.627			
3,400.0	3,376.7	3,398.6	3,389.3	8.7	7.1	-177.24	5.5	208.2	149.7	11.79	12.698			
3,500.0	3,475.7	3,498.4	3,488.8	9.0	7.4	-177.34	5.4	216.7	155.0	12.14	12.766			
3,600.0	3,574.8	3,598.3	3,588.3	9.3	7.6	-177.42	5.4	225.1	160.2	12.49	12.830			
3,700.0	3,673.8	3,698.2	3,687.8	9.6	7.8	-177.51	5.3	233.6	165.5	12.84	12.890			
3,800.0	3,772.9	3,798.0	3,787.3	9.9	8.0	-177.58	5.2	242.1	170.7	13.19	12.948			
3,900.0	3,871.9	3,897.9	3,886.8	10.2	8.3	-177.65	5.2	250.5	176.0	13.53	13.002			
4,000.0	3,971.0	3,997.8	3,986.3	10.5	8.5	-177.72	5.1	259.0	181.2	13.88	13.053			
4,100.0	4,070.1	4,097.6	4,085.8	10.8	8.7	-177.79	5.0	267.4	186.5	14.23	13.102			
4,200.0	4,169.1	4,197.5	4,185.3	11.1	8.9	-177.85	5.0	275.9	191.7	14.58	13.149			
4,300.0	4,268.2	4,297.3	4,284.9	11.4	9.2	-177.90	4.9	284.4	197.0	14.93	13.194			
4,400.0	4,367.2	4,397.2	4,384.4	11.7	9.4	-177.96	4.8	292.8	202.3	15.28	13.236			
4,500.0	4,466.3	4,497.1	4,483.9	12.0	9.6	-178.01	4.8	301.3	207.5	15.63	13.277			
4,600.0	4,565.3	4,596.9	4,583.4	12.3	9.9	-178.06	4.7	309.7	212.8	15.98	13.316			
4,700.0	4,664.4	4,696.8	4,682.9	12.6	10.1	-178.10	4.6	318.2	218.0	16.33	13.353			
4,800.0	4,763.5	4,796.7	4,782.4	12.9	10.3	-178.15	4.6	326.7	223.3	16.68	13.389			
4,900.0	4,862.5	4,896.5	4,881.9	13.1	10.5	-178.19	4.5	335.1	228.5	17.03	13.423			
5,000.0	4,961.6	4,996.4	4,981.4	13.4	10.8	-178.23	4.4	343.6	233.8	17.37	13.456			
5,100.0	5,060.6	5,096.2	5,080.9	13.7	11.0	-178.27	4.4	352.0	239.0	17.72	13.487			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2D-7H-E168 - Hz - Plan #1													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	5,159.7	5,196.1	5,180.4	14.0	11.2	-178.31	4.3	360.5	244.3	226.2	18.07	13.517		
5,300.0	5,258.7	5,296.0	5,279.9	14.3	11.5	-178.34	4.2	369.0	249.6	231.1	18.42	13.546		
5,400.0	5,357.8	5,395.8	5,379.4	14.6	11.7	-178.38	4.2	377.4	254.8	236.0	18.77	13.575		
5,500.0	5,456.9	5,495.7	5,478.9	14.9	11.9	-178.41	4.1	385.9	260.1	240.9	19.12	13.602		
5,600.0	5,555.9	5,595.5	5,578.4	15.2	12.1	-178.44	4.0	394.3	265.3	245.9	19.47	13.628		
5,700.0	5,655.0	5,695.4	5,677.9	15.5	12.4	-178.47	4.0	402.8	270.6	250.8	19.82	13.653		
5,800.0	5,754.0	5,795.3	5,777.4	15.8	12.6	-178.50	3.9	411.3	275.8	255.7	20.17	13.677		
5,900.0	5,853.1	5,895.1	5,876.9	16.1	12.8	-178.53	3.8	419.7	281.1	260.6	20.52	13.701		
6,000.0	5,952.1	5,995.0	5,976.4	16.4	13.1	-178.55	3.8	428.2	286.4	265.5	20.87	13.723		
6,100.0	6,051.2	6,094.9	6,075.9	16.7	13.3	-178.58	3.7	436.7	291.6	270.4	21.22	13.745		
6,200.0	6,150.3	6,194.7	6,175.4	17.0	13.5	-178.60	3.6	445.1	296.9	275.3	21.56	13.766		
6,300.0	6,249.3	6,294.6	6,274.9	17.3	13.7	-178.63	3.6	453.6	302.1	280.2	21.91	13.787		
6,400.0	6,348.4	6,394.4	6,374.4	17.6	14.0	-178.65	3.5	462.0	307.4	285.1	22.26	13.807		
6,500.0	6,447.4	6,494.3	6,473.9	17.9	14.2	-178.67	3.4	470.5	312.6	290.0	22.61	13.826		
6,600.0	6,546.5	6,594.2	6,573.4	18.2	14.4	-178.69	3.4	479.0	317.9	294.9	22.96	13.845		
6,700.0	6,645.5	6,694.0	6,672.9	18.5	14.7	-178.72	3.3	487.4	323.1	299.8	23.31	13.863		
6,800.0	6,744.6	6,793.9	6,772.4	18.8	14.9	-178.74	3.2	495.9	328.4	304.7	23.66	13.881		
6,900.0	6,843.7	6,893.7	6,871.9	19.1	15.1	-178.76	3.2	504.3	333.7	309.7	24.01	13.898		
7,000.0	6,942.7	6,993.6	6,971.4	19.4	15.3	-178.77	3.1	512.8	338.9	314.6	24.36	13.914		
7,100.0	7,041.8	7,091.6	7,069.0	19.7	15.6	-178.33	5.8	521.0	344.3	319.6	24.71	13.934		
7,200.0	7,140.8	7,185.3	7,160.8	20.0	15.8	-175.61	22.5	528.5	351.1	325.9	25.15	13.959		
7,300.0	7,239.9	7,271.4	7,241.7	20.3	16.0	-171.13	51.0	534.9	361.3	335.5	25.84	13.985		
7,400.0	7,338.6	7,350.0	7,311.2	20.6	16.2	-114.54	87.2	540.1	376.1	349.1	27.01	13.923		
7,500.0	7,434.5	7,426.6	7,373.5	20.9	16.5	-90.76	131.4	544.5	392.7	364.3	28.38	13.837		
7,600.0	7,524.9	7,500.0	7,427.2	21.2	16.7	-79.17	181.2	548.1	409.8	380.2	29.59	13.849		
7,700.0	7,606.9	7,572.3	7,473.5	21.5	17.1	-71.93	236.6	551.0	425.8	395.4	30.44	13.991		
7,800.0	7,678.0	7,650.0	7,515.1	21.9	17.6	-66.86	302.1	553.3	440.0	409.1	30.91	14.238		
7,900.0	7,736.1	7,712.5	7,542.0	22.3	18.0	-63.64	358.6	554.5	451.3	420.5	30.86	14.626		
8,000.0	7,779.4	7,781.4	7,564.2	22.9	18.5	-61.44	423.7	555.1	459.4	428.8	30.64	14.994		
8,100.0	7,806.6	7,850.0	7,578.5	23.6	19.1	-60.25	490.8	555.0	463.8	433.5	30.37	15.271		
8,200.0	7,816.9	7,918.3	7,584.7	24.3	19.8	-59.98	558.7	554.3	464.4	434.1	30.25	15.350		
8,300.0	7,817.0	8,009.8	7,585.0	25.2	20.7	-59.97	650.2	552.5	463.6	431.5	32.10	14.444		
8,400.0	7,817.0	8,109.8	7,585.0	26.1	21.9	-59.93	750.2	550.6	463.0	428.7	34.32	13.490		
8,500.0	7,817.0	8,209.8	7,585.0	27.1	23.1	-59.88	850.2	548.7	462.4	425.7	36.66	12.612		
8,600.0	7,817.0	8,309.8	7,585.0	28.2	24.3	-59.84	950.2	546.8	461.8	422.7	39.09	11.812		
8,700.0	7,817.0	8,409.8	7,585.0	29.4	25.7	-59.80	1,050.2	544.9	461.2	419.6	41.60	11.085		
8,800.0	7,817.0	8,509.8	7,585.0	30.6	27.0	-59.75	1,150.1	542.9	460.6	416.4	44.17	10.426		
8,900.0	7,817.0	8,609.8	7,585.0	31.9	28.5	-59.71	1,250.1	541.0	460.0	413.2	46.80	9.829		
9,000.0	7,817.0	8,709.8	7,585.0	33.2	29.9	-59.67	1,350.1	539.1	459.4	409.9	49.46	9.287		
9,100.0	7,817.0	8,809.8	7,585.0	34.5	31.4	-59.62	1,450.1	537.2	458.8	406.6	52.17	8.794		
9,200.0	7,817.0	8,909.8	7,585.0	35.9	32.9	-59.58	1,550.1	535.3	458.2	403.3	54.90	8.346		
9,300.0	7,817.0	9,009.8	7,585.0	37.3	34.4	-59.53	1,650.0	533.3	457.6	399.9	57.66	7.936		
9,400.0	7,817.0	9,109.8	7,585.0	38.7	36.0	-59.49	1,750.0	531.4	457.0	396.5	60.44	7.561		
9,500.0	7,817.0	9,209.8	7,585.0	40.2	37.6	-59.44	1,850.0	529.5	456.4	393.1	63.24	7.217		
9,600.0	7,817.0	9,309.8	7,585.0	41.7	39.2	-59.40	1,950.0	527.6	455.8	389.7	66.05	6.900		
9,700.0	7,817.0	9,409.8	7,585.0	43.2	40.8	-59.36	2,049.9	525.7	455.2	386.3	68.88	6.608		
9,800.0	7,817.0	9,509.8	7,585.0	44.7	42.4	-59.31	2,149.9	523.7	454.6	382.9	71.71	6.339		
9,900.0	7,817.0	9,609.8	7,585.0	46.3	44.0	-59.27	2,249.9	521.8	454.0	379.4	74.56	6.088		
10,000.0	7,817.0	9,709.8	7,585.0	47.8	45.6	-59.22	2,349.9	519.9	453.4	375.9	77.42	5.856		
10,100.0	7,817.0	9,809.8	7,585.0	49.4	47.3	-59.18	2,449.9	518.0	452.8	372.5	80.28	5.640		
10,200.0	7,817.0	9,909.8	7,585.0	51.0	48.9	-59.13	2,549.8	516.1	452.2	369.0	83.15	5.438		
10,300.0	7,817.0	10,009.8	7,585.0	52.6	50.6	-59.08	2,649.8	514.1	451.6	365.5	86.03	5.249		

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2D-7H-E168 - 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				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,817.0	10,109.8	7,585.0	54.2	52.2	-59.04	2,749.8	512.2	451.0	362.1	88.90	5.073	
10,500.0	7,817.0	10,209.8	7,585.0	55.8	53.9	-58.99	2,849.8	510.3	450.4	358.6	91.79	4.907	
10,600.0	7,817.0	10,309.8	7,585.0	57.4	55.6	-58.95	2,949.8	508.4	449.8	355.1	94.67	4.751	
10,700.0	7,817.0	10,409.8	7,585.0	59.1	57.3	-58.90	3,049.7	506.5	449.2	351.6	97.56	4.604	
10,800.0	7,817.0	10,509.8	7,585.0	60.7	58.9	-58.86	3,149.7	504.5	448.6	348.1	100.45	4.466	
10,900.0	7,817.0	10,609.8	7,585.0	62.3	60.6	-58.81	3,249.7	502.6	448.0	344.6	103.34	4.335	
11,000.0	7,817.0	10,709.8	7,585.0	64.0	62.3	-58.76	3,349.7	500.7	447.4	341.2	106.23	4.211	
11,100.0	7,817.0	10,809.8	7,585.0	65.6	64.0	-58.72	3,449.7	498.8	446.8	337.7	109.12	4.094	
11,200.0	7,817.0	10,909.8	7,585.0	67.3	65.7	-58.67	3,549.6	496.9	446.2	334.2	112.01	3.983	
11,300.0	7,817.0	11,009.8	7,585.0	69.0	67.4	-58.62	3,649.6	495.0	445.6	330.7	114.91	3.878	
11,400.0	7,817.0	11,108.3	7,585.0	70.6	69.1	-58.58	3,748.1	493.0	445.0	327.2	117.78	3.778	
11,424.4	7,817.0	11,131.2	7,585.0	71.0	69.5	-58.58	3,771.0	492.4	445.0	326.5	118.48	3.756	
11,500.0	7,817.0	11,200.0	7,585.0	72.3	70.7	-58.61	3,839.8	490.2	445.5	324.8	120.65	3.692	
11,600.0	7,817.0	11,295.8	7,585.0	74.0	72.3	-58.75	3,935.5	485.6	447.3	323.6	123.70	3.616	
11,700.0	7,817.0	11,390.4	7,585.0	75.7	73.9	-58.98	4,029.8	479.6	450.5	323.6	126.87	3.551	
11,800.0	7,817.0	11,490.3	7,585.0	77.3	75.6	-59.26	4,129.5	472.6	454.2	324.0	130.20	3.489	
11,900.0	7,817.0	11,590.2	7,585.0	79.0	77.3	-59.54	4,229.2	465.7	458.0	324.5	133.54	3.430	
12,000.0	7,817.0	11,690.1	7,585.0	80.7	79.0	-59.82	4,328.8	458.7	461.8	324.9	136.88	3.373	
12,100.0	7,817.0	11,790.0	7,585.0	82.4	80.7	-60.09	4,428.5	451.7	465.5	325.3	140.24	3.320	
12,200.0	7,817.0	11,890.9	7,585.0	84.1	82.4	-60.35	4,529.2	444.7	469.3	325.7	143.63	3.268	
12,300.0	7,817.0	11,998.6	7,585.0	85.8	84.3	-60.56	4,636.6	438.5	472.1	325.0	147.04	3.211	
12,400.0	7,817.0	12,106.3	7,585.0	87.5	86.1	-60.64	4,744.3	434.3	473.2	322.9	150.30	3.148	
12,500.0	7,817.0	12,214.0	7,585.0	89.2	88.0	-60.60	4,852.0	432.1	472.7	319.3	153.39	3.082	
12,600.0	7,817.0	12,318.9	7,585.0	90.9	89.8	-60.46	4,956.8	431.8	470.7	314.4	156.28	3.012	
12,700.0	7,817.0	12,418.8	7,585.0	92.6	91.5	-60.29	5,056.8	431.9	468.3	309.2	159.06	2.944	
12,800.0	7,817.0	12,518.8	7,585.0	94.3	93.3	-60.13	5,156.8	432.0	466.0	304.1	161.83	2.879	
12,900.0	7,817.0	12,618.7	7,585.0	96.0	95.0	-59.96	5,256.7	432.0	463.6	299.0	164.59	2.817	
13,000.0	7,817.0	12,718.7	7,585.0	97.7	96.7	-59.80	5,356.7	432.1	461.3	293.9	167.34	2.757	
13,100.0	7,817.0	12,818.7	7,585.0	99.5	98.5	-59.63	5,456.6	432.2	458.9	288.9	170.07	2.699	
13,200.0	7,817.0	12,918.6	7,585.0	101.2	100.2	-59.45	5,556.6	432.3	456.6	283.8	172.78	2.643	
13,300.0	7,817.0	13,018.6	7,585.0	102.9	101.9	-59.28	5,656.6	432.4	454.3	278.8	175.49	2.589	
13,400.0	7,817.0	13,118.6	7,585.0	104.6	103.7	-59.11	5,756.5	432.5	452.0	273.8	178.18	2.537	
13,500.0	7,817.0	13,218.5	7,585.0	106.3	105.4	-58.93	5,856.5	432.6	449.6	268.8	180.85	2.486	
13,600.0	7,817.0	13,318.5	7,585.0	108.0	107.1	-58.75	5,956.5	432.6	447.3	263.8	183.51	2.438	
13,700.0	7,817.0	13,418.4	7,585.0	109.8	108.9	-58.57	6,056.4	432.7	445.0	258.9	186.15	2.391	
13,800.0	7,817.0	13,518.4	7,585.0	111.5	110.6	-58.39	6,156.4	432.8	442.7	253.9	188.78	2.345	
13,900.0	7,817.0	13,618.4	7,585.0	113.2	112.3	-58.20	6,256.4	432.9	440.4	249.0	191.39	2.301	
14,000.0	7,817.0	13,718.3	7,585.0	114.9	114.1	-58.02	6,356.3	433.0	438.1	244.1	193.98	2.258	
14,100.0	7,817.0	13,818.3	7,585.0	116.6	115.8	-57.83	6,456.3	433.1	435.8	239.3	196.56	2.217	
14,200.0	7,817.0	13,918.3	7,585.0	118.4	117.6	-57.64	6,556.2	433.2	433.5	234.4	199.12	2.177	
14,300.0	7,817.0	14,018.2	7,585.0	120.1	119.3	-57.44	6,656.2	433.3	431.3	229.6	201.66	2.138	
14,400.0	7,817.0	14,118.2	7,585.0	121.8	121.0	-57.25	6,756.2	433.3	429.0	224.8	204.19	2.101	
14,500.0	7,817.0	14,218.2	7,585.0	123.5	122.8	-57.05	6,856.1	433.4	426.7	220.0	206.69	2.064	
14,600.0	7,817.0	14,318.1	7,585.0	125.3	124.5	-56.86	6,956.1	433.5	424.4	215.3	209.17	2.029	
14,700.0	7,817.0	14,418.1	7,585.0	127.0	126.2	-56.65	7,056.1	433.6	422.2	210.5	211.64	1.995	
14,800.0	7,817.0	14,518.0	7,585.0	128.7	128.0	-56.45	7,156.0	433.7	419.9	205.8	214.08	1.961	
14,809.6	7,817.0	14,523.7	7,585.0	128.9	128.1	-56.44	7,161.7	433.7	419.7	205.4	214.28	1.959 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - Hz - Plan #1														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	1.0	1.0	0.0	0.0	21.01	7.3	2.8	7.8						
100.0	100.0	101.0	101.0	0.1	0.1	21.01	7.3	2.8	7.8	7.5	0.26	29.614			
200.0	200.0	201.0	201.0	0.3	0.3	21.01	7.3	2.8	7.8	7.2	0.61	12.740			
266.3	266.3	267.3	267.3	0.4	0.4	21.01	7.3	2.8	7.8	7.0	0.84	9.246 CC			
300.0	300.0	301.0	301.0	0.5	0.5	21.02	7.3	2.8	7.8	6.8	0.96	8.116 ES			
400.0	400.0	400.9	400.9	0.7	0.7	26.21	7.5	3.7	8.3	7.0	1.31	6.341			
500.0	500.0	500.8	500.8	0.8	0.8	-56.44	8.0	6.3	9.6	8.0	1.66	5.787			
600.0	600.0	600.6	600.5	1.0	1.0	-51.85	8.8	10.5	11.3	9.3	2.02	5.606			
700.0	699.9	700.5	700.1	1.2	1.2	-49.59	10.0	16.5	13.3	10.9	2.38	5.587			
800.0	799.7	800.2	799.6	1.4	1.4	-48.88	11.5	24.2	15.5	12.8	2.75	5.642			
900.0	899.4	900.0	898.9	1.6	1.7	-49.18	13.4	33.6	18.0	14.9	3.14	5.731			
1,000.0	998.9	999.7	997.9	1.8	1.9	-50.11	15.5	44.7	20.7	17.2	3.55	5.832			
1,100.0	1,098.3	1,099.3	1,096.7	2.1	2.2	-51.42	18.0	57.4	23.7	19.7	3.99	5.931			
1,200.0	1,197.4	1,198.9	1,195.3	2.3	2.5	-52.93	20.9	71.8	26.9	22.4	4.47	6.023			
1,300.0	1,296.5	1,298.5	1,293.4	2.6	2.8	-52.97	24.1	87.9	31.1	26.1	4.95	6.271			
1,400.0	1,395.5	1,398.0	1,391.3	2.9	3.1	-51.28	27.5	105.6	36.4	31.0	5.41	6.731			
1,500.0	1,494.6	1,497.9	1,489.4	3.2	3.5	-49.69	31.1	123.8	42.2	36.3	5.87	7.182			
1,600.0	1,593.6	1,597.7	1,587.6	3.4	3.8	-48.47	34.7	141.9	47.9	41.6	6.33	7.571			
1,700.0	1,692.7	1,697.5	1,685.7	3.7	4.2	-47.52	38.2	160.0	53.7	46.9	6.79	7.909			
1,800.0	1,791.7	1,797.4	1,783.8	4.0	4.5	-46.75	41.8	178.1	59.5	52.2	7.25	8.204			
1,900.0	1,890.8	1,897.2	1,881.9	4.3	4.9	-46.12	45.4	196.2	65.3	57.5	7.71	8.465			
2,000.0	1,989.9	1,997.0	1,980.0	4.6	5.3	-45.59	48.9	214.4	71.0	62.9	8.17	8.697			
2,100.0	2,088.9	2,096.8	2,078.1	4.9	5.6	-45.15	52.5	232.5	76.8	68.2	8.63	8.904			
2,200.0	2,188.0	2,196.7	2,176.2	5.2	6.0	-44.76	56.1	250.6	82.7	73.6	9.09	9.089			
2,300.0	2,287.0	2,296.5	2,274.3	5.5	6.3	-44.42	59.7	268.7	88.5	78.9	9.56	9.257			
2,400.0	2,386.1	2,396.3	2,372.4	5.8	6.7	-44.13	63.2	286.8	94.3	84.3	10.02	9.409			
2,500.0	2,485.1	2,496.2	2,470.5	6.0	7.1	-43.87	66.8	305.0	100.1	89.6	10.48	9.548			
2,600.0	2,584.2	2,596.0	2,568.6	6.3	7.4	-43.64	70.4	323.1	105.9	95.0	10.95	9.675			
2,700.0	2,683.3	2,695.8	2,666.7	6.6	7.8	-43.43	73.9	341.2	111.7	100.3	11.41	9.792			
2,800.0	2,782.3	2,795.7	2,764.8	6.9	8.2	-43.25	77.5	359.3	117.5	105.7	11.87	9.899			
2,900.0	2,881.4	2,895.5	2,862.9	7.2	8.5	-43.08	81.1	377.4	123.3	111.0	12.34	9.999			
3,000.0	2,980.4	2,995.3	2,961.0	7.5	8.9	-42.92	84.6	395.6	129.2	116.4	12.80	10.091			
3,100.0	3,079.5	3,095.1	3,059.2	7.8	9.3	-42.78	88.2	413.7	135.0	121.7	13.26	10.176			
3,200.0	3,178.5	3,195.0	3,157.3	8.1	9.6	-42.65	91.8	431.8	140.8	127.1	13.73	10.256			
3,300.0	3,277.6	3,294.8	3,255.4	8.4	10.0	-42.53	95.3	449.9	146.6	132.4	14.19	10.331			
3,400.0	3,376.7	3,394.6	3,353.5	8.7	10.4	-42.43	98.9	468.0	152.5	137.8	14.66	10.400			
3,500.0	3,475.7	3,494.5	3,451.6	9.0	10.7	-42.32	102.5	486.2	158.3	143.2	15.12	10.466			
3,600.0	3,574.8	3,594.3	3,549.7	9.3	11.1	-42.23	106.0	504.3	164.1	148.5	15.59	10.527			
3,700.0	3,673.8	3,694.1	3,647.8	9.6	11.5	-42.14	109.6	522.4	169.9	153.9	16.05	10.585			
3,800.0	3,772.9	3,794.0	3,745.9	9.9	11.9	-42.06	113.2	540.5	175.7	159.2	16.52	10.640			
3,900.0	3,871.9	3,893.8	3,844.0	10.2	12.2	-41.98	116.7	558.6	181.6	164.6	16.98	10.691			
4,000.0	3,971.0	3,993.6	3,942.1	10.5	12.6	-41.91	120.3	576.8	187.4	169.9	17.45	10.740			
4,100.0	4,070.1	4,093.4	4,040.2	10.8	13.0	-41.84	123.9	594.9	193.2	175.3	17.91	10.786			
4,200.0	4,169.1	4,193.3	4,138.3	11.1	13.3	-41.78	127.5	613.0	199.0	180.7	18.38	10.830			
4,300.0	4,268.2	4,293.1	4,236.4	11.4	13.7	-41.72	131.0	631.1	204.9	186.0	18.84	10.872			
4,400.0	4,367.2	4,392.9	4,334.5	11.7	14.1	-41.66	134.6	649.2	210.7	191.4	19.31	10.912			
4,500.0	4,466.3	4,492.8	4,432.6	12.0	14.4	-41.61	138.2	667.4	216.5	196.7	19.77	10.950			
4,600.0	4,565.3	4,592.6	4,530.8	12.3	14.8	-41.56	141.7	685.5	222.3	202.1	20.24	10.986			
4,700.0	4,664.4	4,692.4	4,628.9	12.6	15.2	-41.51	145.3	703.6	228.2	207.5	20.70	11.020			
4,800.0	4,763.5	4,792.3	4,727.0	12.9	15.6	-41.46	148.9	721.7	234.0	212.8	21.17	11.053			
4,900.0	4,862.5	4,892.1	4,825.1	13.1	15.9	-41.42	152.4	739.8	239.8	218.2	21.64	11.084			
5,000.0	4,961.6	4,991.9	4,923.2	13.4	16.3	-41.38	156.0	758.0	245.6	223.5	22.10	11.115			

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - Hz - Plan #1													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		
5,100.0	5,060.6	5,091.7	5,021.3	13.7	16.7	-41.34	159.6	776.1	251.5	228.9	22.57	11.144		
5,200.0	5,159.7	5,191.6	5,119.4	14.0	17.0	-41.30	163.1	794.2	257.3	234.3	23.03	11.171		
5,300.0	5,258.7	5,291.4	5,217.5	14.3	17.4	-41.26	166.7	812.3	263.1	239.6	23.50	11.198		
5,400.0	5,357.8	5,391.2	5,315.6	14.6	17.8	-41.23	170.3	830.5	269.0	245.0	23.96	11.223		
5,500.0	5,456.9	5,491.1	5,413.7	14.9	18.1	-41.20	173.8	848.6	274.8	250.4	24.43	11.248		
5,600.0	5,555.9	5,590.9	5,511.8	15.2	18.5	-41.17	177.4	866.7	280.6	255.7	24.89	11.272		
5,700.0	5,655.0	5,690.7	5,609.9	15.5	18.9	-41.13	181.0	884.8	286.4	261.1	25.36	11.294		
5,800.0	5,754.0	5,790.6	5,708.0	15.8	19.3	-41.11	184.5	902.9	292.3	266.4	25.83	11.316		
5,900.0	5,853.1	5,890.4	5,806.1	16.1	19.6	-41.08	188.1	921.1	298.1	271.8	26.29	11.338		
6,000.0	5,952.1	5,990.2	5,904.3	16.4	20.0	-41.05	191.7	939.2	303.9	277.2	26.76	11.358		
6,100.0	6,051.2	6,090.0	6,002.4	16.7	20.4	-41.02	195.3	957.3	309.7	282.5	27.22	11.378		
6,200.0	6,150.3	6,189.9	6,100.5	17.0	20.7	-41.00	198.8	975.4	315.6	287.9	27.69	11.397		
6,300.0	6,249.3	6,289.7	6,198.6	17.3	21.1	-40.97	202.4	993.5	321.4	293.2	28.16	11.415		
6,400.0	6,348.4	6,389.5	6,296.7	17.6	21.5	-40.95	206.0	1,011.7	327.2	298.6	28.62	11.433		
6,500.0	6,447.4	6,489.4	6,394.8	17.9	21.8	-40.93	209.5	1,029.8	333.1	304.0	29.09	11.450		
6,600.0	6,546.5	6,589.2	6,492.9	18.2	22.2	-40.91	213.1	1,047.9	338.9	309.3	29.55	11.467		
6,700.0	6,645.5	6,689.0	6,591.0	18.5	22.6	-40.89	216.7	1,066.0	344.7	314.7	30.02	11.483		
6,800.0	6,744.6	6,788.9	6,689.1	18.8	23.0	-40.87	220.2	1,084.1	350.5	320.1	30.48	11.499		
6,900.0	6,843.7	6,888.7	6,787.2	19.1	23.3	-40.85	223.8	1,102.3	356.4	325.4	30.95	11.514		
7,000.0	6,942.7	6,988.5	6,885.3	19.4	23.7	-40.83	227.4	1,120.4	362.2	330.8	31.42	11.529		
7,100.0	7,041.8	7,088.3	6,983.4	19.7	24.1	-40.81	230.9	1,138.5	368.0	336.1	31.88	11.543		
7,200.0	7,140.8	7,165.5	7,059.1	20.0	24.4	-41.08	236.1	1,152.5	376.1	343.8	32.35	11.627		
7,300.0	7,239.9	7,233.3	7,124.6	20.3	24.7	-42.21	248.7	1,164.7	392.0	359.0	33.01	11.873		
7,400.0	7,338.6	7,300.0	7,187.1	20.6	25.0	5.74	268.6	1,176.4	411.1	377.3	33.82	12.153		
7,500.0	7,434.5	7,363.6	7,244.1	20.9	25.3	22.28	294.4	1,187.1	426.6	393.1	33.48	12.743		
7,600.0	7,524.9	7,427.9	7,298.6	21.2	25.6	28.24	326.9	1,197.5	438.1	406.0	32.04	13.671		
7,700.0	7,606.9	7,500.0	7,355.1	21.5	26.0	31.39	370.4	1,208.2	445.2	415.5	29.73	14.975		
7,800.0	7,678.0	7,550.0	7,390.8	21.9	26.3	33.58	404.6	1,215.1	447.7	420.6	27.07	16.538		
7,900.0	7,736.1	7,620.1	7,435.7	22.3	26.8	35.79	457.8	1,223.9	445.7	421.0	24.69	18.051		
8,000.0	7,779.4	7,684.7	7,471.1	22.9	27.3	38.14	511.3	1,230.9	439.5	415.8	23.65	18.579		
8,100.0	7,806.6	7,750.0	7,500.7	23.6	27.8	40.90	569.1	1,236.8	429.4	404.6	24.80	17.314		
8,200.0	7,816.9	7,816.0	7,523.8	24.3	28.3	44.17	630.7	1,241.6	416.1	387.9	28.17	14.772		
8,300.0	7,817.0	7,884.5	7,540.2	25.2	28.9	46.46	697.1	1,245.2	404.5	374.1	30.39	13.309		
8,400.0	7,817.0	7,956.3	7,548.9	26.1	29.5	47.77	768.3	1,247.5	400.3	368.0	32.34	12.380		
8,409.6	7,817.0	7,963.4	7,549.3	26.2	29.6	47.84	775.3	1,247.6	400.3	367.8	32.52	12.310		
8,500.0	7,817.0	8,043.3	7,550.0	27.1	30.3	48.19	855.3	1,248.4	402.1	367.9	34.28	11.731		
8,600.0	7,817.0	8,143.2	7,550.0	28.2	31.3	48.52	955.2	1,249.3	404.7	368.3	36.42	11.113		
8,700.0	7,817.0	8,243.2	7,550.0	29.4	32.4	48.84	1,055.1	1,250.2	407.4	368.7	38.66	10.538		
8,800.0	7,817.0	8,343.1	7,550.0	30.6	33.5	49.17	1,155.1	1,251.0	410.0	369.0	40.97	10.006		
8,900.0	7,817.0	8,443.1	7,550.0	31.9	34.7	49.48	1,255.0	1,251.9	412.7	369.3	43.37	9.515		
9,000.0	7,817.0	8,543.0	7,550.0	33.2	35.9	49.79	1,354.9	1,252.8	415.3	369.5	45.82	9.063		
9,100.0	7,817.0	8,642.9	7,550.0	34.5	37.2	50.10	1,454.9	1,253.6	418.0	369.6	48.34	8.647		
9,200.0	7,817.0	8,742.9	7,550.0	35.9	38.5	50.41	1,554.8	1,254.5	420.7	369.8	50.91	8.263		
9,300.0	7,817.0	8,842.8	7,550.0	37.3	39.8	50.71	1,654.7	1,255.4	423.4	369.8	53.53	7.910		
9,400.0	7,817.0	8,942.8	7,550.0	38.7	41.2	51.01	1,754.7	1,256.3	426.1	369.9	56.19	7.583		
9,500.0	7,817.0	9,042.7	7,550.0	40.2	42.6	51.30	1,854.6	1,257.1	428.8	369.9	58.89	7.281		
9,600.0	7,817.0	9,142.6	7,550.0	41.7	44.0	51.59	1,954.5	1,258.0	431.5	369.9	61.63	7.002		
9,700.0	7,817.0	9,242.6	7,550.0	43.2	45.4	51.88	2,054.5	1,258.9	434.3	369.9	64.40	6.743		
9,800.0	7,817.0	9,342.5	7,550.0	44.7	46.9	52.16	2,154.4	1,259.8	437.0	369.8	67.21	6.502		
9,900.0	7,817.0	9,442.5	7,550.0	46.3	48.4	52.44	2,254.4	1,260.6	439.8	369.7	70.04	6.278		
10,000.0	7,817.0	9,542.4	7,550.0	47.8	49.9	52.71	2,354.3	1,261.5	442.5	369.6	72.91	6.070		
10,100.0	7,817.0	9,645.4	7,550.0	49.4	51.4	52.97	2,457.3	1,262.1	445.1	369.3	75.83	5.870		

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - 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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,200.0	7,817.0	9,745.4	7,550.0	51.0	53.0	53.17	2,557.3	1,262.1	447.2	368.5	78.69	5.684		
10,300.0	7,817.0	9,845.6	7,550.0	52.6	54.5	53.38	2,657.5	1,262.1	449.3	367.8	81.57	5.508		
10,400.0	7,817.0	9,952.3	7,550.0	54.2	56.2	53.51	2,764.2	1,261.1	450.6	366.1	84.50	5.333		
10,500.0	7,817.0	10,059.1	7,550.0	55.8	57.8	53.49	2,870.9	1,258.0	450.4	363.1	87.29	5.160		
10,600.0	7,817.0	10,165.8	7,550.0	57.4	59.5	53.31	2,977.5	1,253.0	448.7	358.8	89.94	4.989		
10,700.0	7,817.0	10,270.5	7,550.0	59.1	61.1	53.00	3,082.0	1,246.2	445.6	353.2	92.40	4.823		
10,800.0	7,817.0	10,370.4	7,550.0	60.7	62.6	52.66	3,181.6	1,239.2	442.1	347.4	94.74	4.667		
10,900.0	7,817.0	10,470.3	7,550.0	62.3	64.2	52.32	3,281.3	1,232.2	438.7	341.6	97.06	4.520		
11,000.0	7,817.0	10,570.2	7,550.0	64.0	65.8	51.97	3,380.9	1,225.3	435.2	335.9	99.34	4.381		
11,100.0	7,817.0	10,670.1	7,550.0	65.6	67.4	51.61	3,480.6	1,218.3	431.8	330.2	101.59	4.250		
11,200.0	7,817.0	10,770.0	7,550.0	67.3	69.0	51.25	3,580.3	1,211.3	428.4	324.6	103.81	4.127		
11,300.0	7,817.0	10,869.9	7,550.0	69.0	70.6	50.88	3,679.9	1,204.4	425.0	319.0	106.00	4.009		
11,400.0	7,817.0	10,969.8	7,550.0	70.6	72.2	50.51	3,779.6	1,197.4	421.6	313.5	108.15	3.899		
11,500.0	7,817.0	11,069.7	7,550.0	72.3	73.8	50.13	3,879.2	1,190.4	418.3	308.0	110.26	3.794		
11,600.0	7,817.0	11,169.6	7,550.0	74.0	75.4	49.74	3,978.9	1,183.4	414.9	302.6	112.33	3.694		
11,700.0	7,817.0	11,269.5	7,550.0	75.7	77.0	49.35	4,078.6	1,176.5	411.6	297.2	114.36	3.599		
11,800.0	7,817.0	11,369.4	7,550.0	77.3	78.7	48.95	4,178.2	1,169.5	408.3	292.0	116.34	3.509		
11,900.0	7,817.0	11,469.3	7,550.0	79.0	80.3	48.54	4,277.9	1,162.5	405.0	286.7	118.29	3.424		
12,000.0	7,817.0	11,569.2	7,550.0	80.7	82.0	48.13	4,377.6	1,155.6	401.8	281.6	120.18	3.343		
12,100.0	7,817.0	11,669.1	7,550.0	82.4	83.6	47.71	4,477.2	1,148.6	398.5	276.5	122.03	3.266		
12,200.0	7,817.0	11,769.0	7,550.0	84.1	85.3	47.29	4,576.9	1,141.6	395.3	271.5	123.83	3.192		
12,300.0	7,817.0	11,868.9	7,550.0	85.8	86.9	46.86	4,676.5	1,134.7	392.1	266.5	125.58	3.123		
12,400.0	7,817.0	11,968.8	7,550.0	87.5	88.6	46.42	4,776.2	1,127.7	388.9	261.7	127.27	3.056		
12,500.0	7,817.0	12,068.7	7,550.0	89.2	90.3	45.97	4,875.9	1,120.7	385.8	256.9	128.91	2.993		
12,600.0	7,817.0	12,168.6	7,550.0	90.9	91.9	45.52	4,975.5	1,113.8	382.7	252.2	130.49	2.933		
12,700.0	7,817.0	12,268.6	7,550.0	92.6	93.6	45.06	5,075.2	1,106.8	379.6	247.6	132.01	2.875		
12,800.0	7,817.0	12,368.5	7,550.0	94.3	95.3	44.59	5,174.8	1,099.8	376.5	243.0	133.47	2.821		
12,900.0	7,817.0	12,467.2	7,550.0	96.0	96.9	44.12	5,273.4	1,093.0	373.5	238.6	134.88	2.769		
13,000.0	7,817.0	12,562.8	7,550.0	97.7	98.5	43.80	5,368.8	1,087.5	371.3	234.8	136.52	2.720		
13,100.0	7,817.0	12,658.5	7,550.0	99.5	100.2	43.65	5,464.5	1,083.7	370.4	231.8	138.53	2.673		
13,134.4	7,817.0	12,691.5	7,550.0	100.0	100.7	43.64	5,497.4	1,082.7	370.3	231.0	139.32	2.658		
13,200.0	7,817.0	12,754.3	7,550.0	101.2	101.8	43.67	5,560.2	1,081.4	370.5	229.6	140.95	2.629		
13,300.0	7,817.0	12,850.0	7,550.0	102.9	103.4	43.88	5,655.9	1,080.8	371.9	228.1	143.80	2.586		
13,400.0	7,817.0	12,945.6	7,550.0	104.6	105.1	44.26	5,751.5	1,081.7	374.4	227.3	147.09	2.545		
13,500.0	7,817.0	13,041.0	7,550.0	106.3	106.7	44.81	5,846.9	1,084.2	378.1	227.3	150.81	2.507		
13,600.0	7,817.0	13,140.3	7,550.0	108.0	108.4	45.47	5,946.1	1,087.9	382.5	227.6	154.90	2.470		
13,700.0	7,817.0	13,240.1	7,550.0	109.8	110.1	46.12	6,045.8	1,091.6	387.1	228.1	159.00	2.434		
13,800.0	7,817.0	13,339.9	7,550.0	111.5	111.9	46.76	6,145.5	1,095.3	391.6	228.5	163.11	2.401		
13,900.0	7,817.0	13,439.7	7,550.0	113.2	113.6	47.39	6,245.3	1,098.9	396.3	229.0	167.22	2.370		
14,000.0	7,817.0	13,539.5	7,550.0	114.9	115.3	48.00	6,345.0	1,102.6	400.9	229.6	171.32	2.340		
14,100.0	7,817.0	13,639.3	7,550.0	116.6	117.0	48.59	6,444.7	1,106.3	405.6	230.2	175.43	2.312		
14,200.0	7,817.0	13,739.1	7,550.0	118.4	118.8	49.17	6,544.5	1,110.0	410.4	230.9	179.52	2.286		
14,300.0	7,817.0	13,838.9	7,550.0	120.1	120.5	49.74	6,644.2	1,113.7	415.2	231.6	183.62	2.261		
14,400.0	7,817.0	13,938.7	7,550.0	121.8	122.2	50.30	6,743.9	1,117.4	420.0	232.3	187.71	2.238		
14,500.0	7,817.0	14,038.5	7,550.0	123.5	124.0	50.84	6,843.7	1,121.0	424.9	233.1	191.79	2.215		
14,600.0	7,817.0	14,138.3	7,550.0	125.3	125.7	51.37	6,943.4	1,124.7	429.8	233.9	195.87	2.194		
14,700.0	7,817.0	14,238.1	7,550.0	127.0	127.4	51.89	7,043.1	1,128.4	434.8	234.8	199.94	2.174		
14,800.0	7,817.0	14,337.9	7,550.0	128.7	129.1	52.39	7,142.9	1,132.1	439.7	235.7	204.01	2.156		
14,809.6	7,817.0	14,347.5	7,550.0	128.9	129.3	52.44	7,152.5	1,132.4	440.2	235.8	204.40	2.154 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2G-7H-E168 - Hz - Plan #1														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	1.0	1.0	0.0	0.0	90.00	0.0	8.4	8.4						
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	8.4	8.4	8.1	0.26	31.859			
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	8.4	8.4	7.8	0.61	13.706			
232.0	232.0	233.0	233.0	0.4	0.4	90.00	0.0	8.4	8.4	7.7	0.72	11.592 CC			
300.0	300.0	300.9	300.9	0.5	0.5	90.26	0.0	8.6	8.6	7.7	0.96	8.964 ES			
400.0	400.0	400.7	400.7	0.7	0.7	91.91	-0.3	10.3	10.4	9.0	1.31	7.892			
500.0	500.0	500.5	500.4	0.8	0.8	3.71	-1.0	13.8	13.0	11.3	1.66	7.814			
600.0	600.0	600.2	600.0	1.0	1.0	6.29	-1.9	18.9	15.6	13.6	2.01	7.762			
700.0	699.9	700.0	699.5	1.2	1.2	9.02	-3.1	25.8	18.2	15.9	2.36	7.741 SF			
800.0	799.7	799.5	798.7	1.4	1.5	11.84	-4.6	34.3	20.9	18.2	2.70	7.746			
900.0	899.4	899.1	897.7	1.6	1.7	14.69	-6.4	44.6	23.7	20.7	3.06	7.769			
1,000.0	998.9	998.6	996.5	1.8	2.0	17.54	-8.5	56.5	26.6	23.2	3.41	7.803			
1,100.0	1,098.3	1,098.1	1,095.0	2.1	2.2	20.36	-10.9	70.1	29.7	25.9	3.78	7.841			
1,200.0	1,197.4	1,197.5	1,193.2	2.3	2.5	23.13	-13.6	85.4	32.8	28.7	4.17	7.877			
1,300.0	1,296.5	1,296.8	1,291.0	2.6	2.9	25.11	-16.6	102.3	37.1	32.6	4.57	8.128			
1,400.0	1,395.5	1,395.9	1,388.3	2.9	3.2	26.01	-19.8	120.9	43.1	38.1	4.97	8.678			
1,500.0	1,494.6	1,494.9	1,485.1	3.2	3.6	26.11	-23.4	141.1	50.8	45.4	5.36	9.462			
1,600.0	1,593.6	1,593.5	1,581.2	3.4	4.0	25.71	-27.2	162.8	60.0	54.3	5.75	10.437			
1,700.0	1,692.7	1,691.8	1,676.7	3.7	4.5	25.04	-31.3	186.1	71.0	64.8	6.13	11.571			
1,800.0	1,791.7	1,789.8	1,771.3	4.0	5.0	24.25	-35.7	210.9	83.6	77.1	6.51	12.839			
1,900.0	1,890.8	1,888.1	1,865.9	4.3	5.4	23.36	-40.2	237.3	97.6	90.8	6.88	14.196			
2,000.0	1,989.9	1,987.7	1,961.6	4.6	5.9	21.96	-43.5	264.5	111.6	104.4	7.23	15.430			
2,100.0	2,088.9	2,087.3	2,057.5	4.9	6.4	20.12	-45.0	291.8	125.1	117.5	7.57	16.534			
2,200.0	2,188.0	2,186.9	2,153.2	5.2	6.9	17.93	-44.8	319.1	138.3	130.4	7.88	17.546			
2,300.0	2,287.0	2,285.9	2,248.3	5.5	7.5	15.87	-43.8	346.4	151.5	143.3	8.19	18.493			
2,400.0	2,386.1	2,384.8	2,343.5	5.8	8.0	14.13	-42.9	373.7	164.8	156.3	8.51	19.377			
2,500.0	2,485.1	2,483.8	2,438.7	6.0	8.5	12.66	-41.9	400.9	178.3	169.4	8.83	20.200			
2,600.0	2,584.2	2,582.8	2,533.8	6.3	9.0	11.39	-41.0	428.2	191.8	182.7	9.15	20.967			
2,700.0	2,683.3	2,681.8	2,629.0	6.6	9.5	10.29	-40.0	455.5	205.5	196.0	9.48	21.682			
2,800.0	2,782.3	2,780.8	2,724.1	6.9	10.0	9.33	-39.1	482.8	219.2	209.4	9.81	22.349			
2,900.0	2,881.4	2,879.8	2,819.3	7.2	10.5	8.48	-38.1	510.0	233.0	222.8	10.14	22.973			
3,000.0	2,980.4	2,978.8	2,914.5	7.5	11.0	7.72	-37.2	537.3	246.8	236.3	10.47	23.557			
3,100.0	3,079.5	3,077.8	3,009.6	7.8	11.5	7.05	-36.2	564.6	260.6	249.8	10.81	24.105			
3,200.0	3,178.5	3,176.8	3,104.8	8.1	12.1	6.44	-35.3	591.8	274.5	263.3	11.15	24.620			
3,300.0	3,277.6	3,280.6	3,204.8	8.4	12.6	5.81	-33.9	619.6	287.6	276.1	11.50	25.019			
3,400.0	3,376.7	3,384.9	3,305.7	8.7	13.1	5.13	-31.8	645.9	299.0	287.2	11.84	25.253			
3,500.0	3,475.7	3,489.7	3,407.4	9.0	13.5	4.37	-28.8	670.6	308.8	296.6	12.19	25.338			
3,600.0	3,574.8	3,594.6	3,509.8	9.3	14.0	3.54	-25.1	693.7	316.9	304.3	12.53	25.285			
3,700.0	3,673.8	3,699.8	3,612.7	9.6	14.4	2.64	-20.6	715.0	323.3	310.4	12.88	25.104			
3,800.0	3,772.9	3,799.6	3,710.5	9.9	14.7	1.75	-15.9	734.4	328.9	315.7	13.22	24.883			
3,900.0	3,871.9	3,899.3	3,808.2	10.2	15.1	0.89	-11.3	753.8	334.6	321.1	13.56	24.674			
4,000.0	3,971.0	3,999.1	3,905.9	10.5	15.5	0.07	-6.6	773.2	340.4	326.5	13.91	24.473			
4,100.0	4,070.1	4,098.8	4,003.6	10.8	15.9	-0.73	-2.0	792.6	346.2	332.0	14.26	24.281			
4,200.0	4,169.1	4,198.5	4,101.3	11.1	16.3	-1.51	2.7	812.0	352.1	337.5	14.61	24.097			
4,300.0	4,268.2	4,298.2	4,199.0	11.4	16.7	-2.26	7.4	831.4	358.1	343.1	14.97	23.920			
4,400.0	4,367.2	4,397.9	4,296.7	11.7	17.1	-2.98	12.0	850.8	364.1	348.8	15.33	23.749			
4,500.0	4,466.3	4,497.6	4,394.4	12.0	17.5	-3.68	16.7	870.2	370.2	354.5	15.70	23.585			
4,600.0	4,565.3	4,597.3	4,492.1	12.3	17.8	-4.36	21.4	889.6	376.3	360.3	16.06	23.426			
4,700.0	4,664.4	4,697.1	4,589.8	12.6	18.2	-5.01	26.0	909.0	382.5	366.1	16.44	23.273			
4,800.0	4,763.5	4,796.8	4,687.5	12.9	18.6	-5.64	30.7	928.4	388.8	371.9	16.81	23.124			
4,900.0	4,862.5	4,896.5	4,785.2	13.1	19.0	-6.26	35.3	947.8	395.0	377.8	17.19	22.981			
5,000.0	4,961.6	4,996.2	4,882.9	13.4	19.4	-6.85	40.0	967.2	401.4	383.8	17.57	22.842			

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2G-7H-E168 - 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		
5,100.0	5,060.6	5,095.9	4,980.6	13.7	19.8	-7.43	44.7	986.6	407.7	389.8	17.96	22.708		
5,200.0	5,159.7	5,195.6	5,078.3	14.0	20.2	-7.99	49.3	1,006.0	414.1	395.8	18.34	22.577		
5,300.0	5,258.7	5,295.3	5,176.0	14.3	20.6	-8.53	54.0	1,025.4	420.6	401.8	18.73	22.451		
5,400.0	5,357.8	5,395.1	5,273.7	14.6	21.0	-9.06	58.7	1,044.7	427.0	407.9	19.13	22.329		
5,500.0	5,456.9	5,494.8	5,371.4	14.9	21.3	-9.57	63.3	1,064.1	433.6	414.0	19.52	22.210		
5,600.0	5,555.9	5,594.5	5,469.1	15.2	21.7	-10.06	68.0	1,083.5	440.1	420.2	19.92	22.095		
5,700.0	5,655.0	5,694.2	5,566.8	15.5	22.1	-10.54	72.6	1,102.9	446.7	426.4	20.32	21.983		
5,800.0	5,754.0	5,793.9	5,664.5	15.8	22.5	-11.01	77.3	1,122.3	453.3	432.6	20.72	21.874		
5,900.0	5,853.1	5,893.6	5,762.2	16.1	22.9	-11.46	82.0	1,141.7	459.9	438.8	21.13	21.769		
6,000.0	5,952.1	5,993.3	5,859.9	16.4	23.3	-11.90	86.6	1,161.1	466.6	445.1	21.54	21.666		
6,100.0	6,051.2	6,093.1	5,957.6	16.7	23.7	-12.33	91.3	1,180.5	473.3	451.4	21.95	21.567		
6,200.0	6,150.3	6,192.8	6,055.2	17.0	24.1	-12.74	96.0	1,199.9	480.0	457.7	22.36	21.470		
6,300.0	6,249.3	6,292.5	6,152.9	17.3	24.5	-13.15	100.6	1,219.3	486.8	464.0	22.77	21.376		
6,400.0	6,348.4	6,392.2	6,250.6	17.6	24.9	-13.54	105.3	1,238.7	493.5	470.3	23.19	21.285		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2H-7H-E168 - Hz - Plan #1														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	1.0	1.0	0.0	0.0	62.50	7.3	14.0	15.8						
100.0	100.0	101.0	101.0	0.1	0.1	62.50	7.3	14.0	15.8	15.5	0.26	59.864			
166.3	166.3	167.3	167.3	0.2	0.2	62.50	7.3	14.0	15.8	15.3	0.50	31.867 CC			
200.0	200.0	201.0	201.0	0.3	0.3	62.50	7.3	14.0	15.8	15.2	0.61	25.754 ES			
300.0	300.0	300.7	300.7	0.5	0.5	63.91	7.3	14.9	16.6	15.6	0.96	17.224			
400.0	400.0	400.4	400.4	0.7	0.7	67.39	7.3	17.5	19.0	17.7	1.32	14.421			
500.0	500.0	500.0	499.9	0.8	0.8	-19.64	7.3	21.8	22.2	20.6	1.66	13.393			
600.0	600.0	599.6	599.3	1.0	1.0	-17.13	7.3	27.9	25.6	23.6	2.01	12.716			
700.0	699.9	699.1	698.4	1.2	1.3	-15.23	7.3	35.7	28.9	26.6	2.36	12.253			
800.0	799.7	798.5	797.4	1.4	1.5	-13.76	7.3	45.2	32.3	29.6	2.71	11.915			
900.0	899.4	897.8	896.1	1.6	1.7	-12.60	7.3	56.4	35.7	32.6	3.06	11.657			
1,000.0	998.9	997.2	994.6	1.8	2.0	-11.66	7.3	69.4	39.1	35.7	3.41	11.452			
1,100.0	1,098.3	1,096.4	1,092.7	2.1	2.3	-10.90	7.4	84.0	42.5	38.7	3.76	11.285			
1,200.0	1,197.4	1,195.6	1,190.6	2.3	2.6	-10.27	7.4	100.3	45.9	41.8	4.12	11.146 SF			
1,300.0	1,296.5	1,294.7	1,288.0	2.6	3.0	-9.55	7.4	118.2	50.3	45.9	4.47	11.261			
1,400.0	1,395.5	1,393.6	1,385.0	2.9	3.4	-8.69	7.4	137.9	56.5	51.7	4.82	11.721			
1,500.0	1,494.6	1,492.2	1,481.3	3.2	3.8	-7.80	7.4	159.1	64.4	59.2	5.17	12.456			
1,600.0	1,593.6	1,590.6	1,577.0	3.4	4.2	-6.95	7.4	181.9	74.0	68.5	5.52	13.412			
1,700.0	1,692.7	1,688.6	1,671.9	3.7	4.7	-6.19	7.5	206.3	85.3	79.4	5.86	14.550			
1,800.0	1,791.7	1,786.2	1,766.0	4.0	5.1	-5.52	7.5	232.1	98.3	92.1	6.21	15.838			
1,900.0	1,890.8	1,884.1	1,860.0	4.3	5.6	-4.94	7.5	259.6	112.8	106.3	6.55	17.222			
2,000.0	1,989.9	1,983.0	1,954.9	4.6	6.2	-4.48	7.5	287.5	127.7	120.8	6.90	18.503			
2,100.0	2,088.9	2,081.9	2,049.7	4.9	6.7	-4.11	7.6	315.5	142.5	135.2	7.25	19.661			
2,200.0	2,188.0	2,180.8	2,144.6	5.2	7.2	-3.82	7.6	343.4	157.3	149.7	7.59	20.714			
2,300.0	2,287.0	2,279.7	2,239.5	5.5	7.7	-3.57	7.6	371.3	172.1	164.2	7.94	21.674			
2,400.0	2,386.1	2,378.6	2,334.3	5.8	8.2	-3.37	7.6	399.3	187.0	178.7	8.29	22.554			
2,500.0	2,485.1	2,477.5	2,429.2	6.0	8.8	-3.19	7.7	427.2	201.8	193.2	8.64	23.362			
2,600.0	2,584.2	2,576.4	2,524.0	6.3	9.3	-3.04	7.7	455.2	216.7	207.7	8.99	24.109			
2,700.0	2,683.3	2,675.2	2,618.9	6.6	9.8	-2.91	7.7	483.1	231.5	222.2	9.33	24.799			
2,800.0	2,782.3	2,774.1	2,713.8	6.9	10.4	-2.79	7.8	511.0	246.3	236.6	9.68	25.441			
2,900.0	2,881.4	2,873.0	2,808.6	7.2	10.9	-2.69	7.8	539.0	261.2	251.1	10.03	26.037			
3,000.0	2,980.4	2,971.9	2,903.5	7.5	11.4	-2.60	7.8	566.9	276.0	265.6	10.38	26.594			
3,100.0	3,079.5	3,070.8	2,998.4	7.8	11.9	-2.52	7.8	594.9	290.8	280.1	10.73	27.114			
3,200.0	3,178.5	3,169.7	3,093.2	8.1	12.5	-2.44	7.9	622.8	305.7	294.6	11.07	27.602			
3,300.0	3,277.6	3,268.6	3,188.1	8.4	13.0	-2.37	7.9	650.8	320.5	309.1	11.42	28.060			
3,400.0	3,376.7	3,367.5	3,282.9	8.7	13.5	-2.31	7.9	678.7	335.4	323.6	11.77	28.492			
3,500.0	3,475.7	3,466.4	3,377.8	9.0	14.1	-2.26	7.9	706.6	350.2	338.1	12.12	28.898			
3,600.0	3,574.8	3,565.3	3,472.7	9.3	14.6	-2.20	8.0	734.6	365.1	352.6	12.47	29.282			
3,700.0	3,673.8	3,664.2	3,567.5	9.6	15.1	-2.16	8.0	762.5	379.9	367.1	12.82	29.644			
3,800.0	3,772.9	3,763.1	3,662.4	9.9	15.7	-2.11	8.0	790.5	394.7	381.6	13.16	29.988			
3,900.0	3,871.9	3,861.9	3,757.3	10.2	16.2	-2.07	8.0	818.4	409.6	396.1	13.51	30.314			
4,000.0	3,971.0	3,960.8	3,852.1	10.5	16.7	-2.03	8.1	846.3	424.4	410.6	13.86	30.624			
4,100.0	4,070.1	4,059.7	3,947.0	10.8	17.3	-2.00	8.1	874.3	439.3	425.1	14.21	30.918			
4,200.0	4,169.1	4,158.6	4,041.8	11.1	17.8	-1.96	8.1	902.2	454.1	439.6	14.56	31.199			
4,300.0	4,268.2	4,257.5	4,136.7	11.4	18.3	-1.93	8.1	930.2	469.0	454.1	14.90	31.466			
4,400.0	4,367.2	4,356.4	4,231.6	11.7	18.9	-1.90	8.2	958.1	483.8	468.6	15.25	31.721			
4,500.0	4,466.3	4,455.3	4,326.4	12.0	19.4	-1.88	8.2	986.0	498.7	483.1	15.60	31.965			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2A-7H-E168 - 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		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	-90.34	-0.6	-97.6	97.6					
100.0	100.0	98.0	98.0	0.1	0.1	-90.34	-0.6	-97.6	97.6	97.3	0.26	376.421		
200.0	200.0	198.0	198.0	0.3	0.3	-90.34	-0.6	-97.6	97.6	97.0	0.61	160.628 CC, ES		
300.0	300.0	296.9	296.9	0.5	0.5	-89.98	0.0	-98.1	98.1	97.2	0.95	102.734		
400.0	400.0	395.7	395.7	0.7	0.7	-88.89	1.9	-99.8	99.8	98.5	1.30	76.519		
500.0	500.0	494.4	494.3	0.8	0.8	-177.62	5.1	-102.5	103.6	101.9	1.66	62.482		
600.0	600.0	592.8	592.5	1.0	1.0	-175.47	9.6	-106.4	110.5	108.4	2.01	54.827		
700.0	699.9	690.7	690.1	1.2	1.2	-173.11	15.2	-111.4	120.5	118.1	2.37	50.733		
800.0	799.7	788.1	787.1	1.4	1.5	-170.78	22.1	-117.4	133.6	130.9	2.74	48.841		
900.0	899.4	885.2	883.6	1.6	1.7	-168.59	30.2	-124.4	150.0	146.9	3.10	48.395 SF		
1,000.0	998.9	983.4	981.1	1.8	2.0	-166.85	38.7	-131.8	168.6	165.1	3.46	48.650		
1,100.0	1,098.3	1,081.2	1,078.3	2.1	2.2	-165.56	47.1	-139.2	188.9	185.1	3.83	49.322		
1,200.0	1,197.4	1,178.7	1,175.2	2.3	2.5	-164.65	55.6	-146.6	210.9	206.7	4.20	50.264		
1,300.0	1,296.5	1,276.1	1,271.9	2.6	2.7	-163.99	64.0	-153.9	233.6	229.0	4.57	51.121		
1,400.0	1,395.5	1,373.4	1,368.6	2.9	3.0	-163.45	72.4	-161.3	256.3	251.4	4.94	51.839		
1,500.0	1,494.6	1,470.8	1,465.3	3.2	3.2	-163.00	80.8	-168.6	279.1	273.7	5.32	52.449		
1,600.0	1,593.6	1,568.2	1,562.0	3.4	3.5	-162.62	89.2	-176.0	301.8	296.1	5.70	52.971		
1,700.0	1,692.7	1,665.5	1,658.7	3.7	3.7	-162.29	97.6	-183.3	324.6	318.5	6.08	53.423		
1,800.0	1,791.7	1,762.9	1,755.5	4.0	4.0	-162.00	106.0	-190.7	347.3	340.9	6.45	53.818		
1,900.0	1,890.8	1,860.2	1,852.2	4.3	4.2	-161.75	114.5	-198.0	370.1	363.3	6.83	54.165		
2,000.0	1,989.9	1,957.6	1,948.9	4.6	4.5	-161.53	122.9	-205.4	392.9	385.7	7.21	54.472		
2,100.0	2,088.9	2,055.0	2,045.6	4.9	4.7	-161.33	131.3	-212.7	415.7	408.1	7.59	54.746		
2,200.0	2,188.0	2,152.3	2,142.3	5.2	5.0	-161.15	139.7	-220.1	438.5	430.5	7.97	54.992		
2,300.0	2,287.0	2,249.7	2,239.0	5.5	5.3	-160.99	148.1	-227.4	461.3	452.9	8.35	55.213		
2,400.0	2,386.1	2,347.0	2,335.8	5.8	5.5	-160.85	156.5	-234.7	484.1	475.3	8.74	55.414		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2B-7H-E168 - 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		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	-86.66	5.4	-92.5	92.7					
100.0	100.0	98.0	98.0	0.1	0.1	-86.66	5.4	-92.5	92.7	92.4	0.26	357.613		
200.0	200.0	198.0	198.0	0.3	0.3	-86.66	5.4	-92.5	92.7	92.1	0.61	152.602		
300.0	300.0	298.0	298.0	0.5	0.5	-86.66	5.4	-92.5	92.7	91.7	0.96	96.908 CC		
400.0	400.0	397.5	397.5	0.7	0.7	-86.18	6.2	-92.8	93.0	91.7	1.30	71.257 ES		
500.0	500.0	496.9	496.8	0.8	0.8	-175.22	8.6	-93.5	94.7	93.1	1.66	57.184		
600.0	600.0	596.1	595.9	1.0	1.0	-173.03	12.7	-94.6	99.0	97.0	2.01	49.164		
700.0	699.9	695.0	694.7	1.2	1.2	-170.34	18.5	-96.3	105.8	103.4	2.38	44.529		
800.0	799.7	793.5	792.9	1.4	1.4	-167.40	25.8	-98.4	115.4	112.6	2.75	41.997		
900.0	899.4	892.3	891.3	1.6	1.6	-164.62	34.3	-100.8	127.5	124.4	3.12	40.834		
1,000.0	998.9	991.2	989.8	1.8	1.8	-162.51	42.9	-103.2	141.6	138.1	3.50	40.436 SF		
1,100.0	1,098.3	1,089.9	1,088.1	2.1	2.1	-160.97	51.5	-105.7	157.4	153.5	3.88	40.547		
1,200.0	1,197.4	1,188.3	1,186.1	2.3	2.3	-159.90	60.0	-108.1	174.9	170.6	4.27	40.999		
1,300.0	1,296.5	1,286.6	1,284.0	2.6	2.5	-159.14	68.5	-110.6	193.1	188.4	4.66	41.450		
1,400.0	1,395.5	1,384.9	1,381.9	2.9	2.7	-158.51	77.0	-113.0	211.3	206.2	5.05	41.817		
1,500.0	1,494.6	1,483.2	1,479.8	3.2	3.0	-157.98	85.5	-115.4	229.5	224.1	5.45	42.119		
1,600.0	1,593.6	1,581.5	1,577.7	3.4	3.2	-157.53	94.0	-117.9	247.7	241.9	5.85	42.370		
1,700.0	1,692.7	1,679.8	1,675.6	3.7	3.4	-157.14	102.6	-120.3	266.0	259.8	6.25	42.583		
1,800.0	1,791.7	1,778.1	1,773.5	4.0	3.7	-156.80	111.1	-122.7	284.3	277.6	6.65	42.763		
1,900.0	1,890.8	1,876.4	1,871.4	4.3	3.9	-156.50	119.6	-125.2	302.5	295.5	7.05	42.918		
2,000.0	1,989.9	1,974.7	1,969.3	4.6	4.1	-156.24	128.1	-127.6	320.8	313.4	7.45	43.053		
2,100.0	2,088.9	2,073.0	2,067.2	4.9	4.3	-156.00	136.6	-130.0	339.1	331.2	7.85	43.170		
2,200.0	2,188.0	2,171.3	2,165.1	5.2	4.6	-155.79	145.2	-132.5	357.4	349.1	8.26	43.273		
2,300.0	2,287.0	2,269.6	2,263.0	5.5	4.8	-155.60	153.7	-134.9	375.7	367.0	8.66	43.365		
2,400.0	2,386.1	2,367.9	2,360.9	5.8	5.0	-155.43	162.2	-137.3	394.0	384.9	9.07	43.446		
2,500.0	2,485.1	2,466.3	2,458.8	6.0	5.3	-155.27	170.7	-139.8	412.3	402.8	9.47	43.518		
2,600.0	2,584.2	2,564.6	2,556.7	6.3	5.5	-155.12	179.2	-142.2	430.6	420.7	9.88	43.584		
2,700.0	2,683.3	2,662.9	2,654.7	6.6	5.7	-154.99	187.7	-144.6	448.9	438.6	10.29	43.642		
2,800.0	2,782.3	2,761.2	2,752.6	6.9	5.9	-154.87	196.3	-147.1	467.2	456.5	10.69	43.696		
2,900.0	2,881.4	2,859.5	2,850.5	7.2	6.2	-154.75	204.8	-149.5	485.5	474.4	11.10	43.744		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2C-7H-E168 - 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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-90.41	-0.6	-87.6	87.6					
100.0	100.0	98.0	98.0	0.1	0.1	-90.41	-0.6	-87.6	87.6	87.3	0.26	337.841		
200.0	200.0	198.0	198.0	0.3	0.3	-90.41	-0.6	-87.6	87.6	87.0	0.61	144.165		
300.0	300.0	298.0	298.0	0.5	0.5	-90.41	-0.6	-87.6	87.6	86.6	0.96	91.550		
400.0	400.0	398.0	398.0	0.7	0.7	-90.41	-0.6	-87.6	87.6	86.3	1.31	67.071 CC, ES		
500.0	500.0	498.4	498.4	0.8	0.8	179.66	0.2	-87.3	88.2	86.5	1.66	53.273		
600.0	600.0	598.8	598.7	1.0	1.0	-178.74	2.7	-86.6	90.1	88.1	2.01	44.891		
700.0	699.9	699.0	698.9	1.2	1.2	-176.21	6.9	-85.4	93.5	91.2	2.37	39.529		
800.0	799.7	799.0	798.7	1.4	1.4	-172.96	12.7	-83.7	98.5	95.8	2.73	36.050		
900.0	899.4	898.8	898.1	1.6	1.6	-169.26	20.2	-81.6	105.4	102.3	3.11	33.840		
1,000.0	998.9	998.2	997.1	1.8	1.8	-165.58	29.0	-79.1	114.3	110.8	3.51	32.599		
1,100.0	1,098.3	1,097.4	1,095.9	2.1	2.0	-162.64	37.7	-76.6	125.2	121.3	3.90	32.073		
1,200.0	1,197.4	1,196.4	1,194.5	2.3	2.2	-160.40	46.5	-74.1	138.1	133.8	4.31	32.029		
1,300.0	1,296.5	1,295.4	1,293.1	2.6	2.5	-158.67	55.2	-71.6	151.7	147.0	4.73	32.089		
1,400.0	1,395.5	1,394.4	1,391.6	2.9	2.7	-157.22	64.0	-69.1	165.4	160.3	5.15	32.129		
1,500.0	1,494.6	1,493.3	1,490.2	3.2	2.9	-155.99	72.8	-66.6	179.2	173.7	5.57	32.154		
1,600.0	1,593.6	1,592.3	1,588.7	3.4	3.2	-154.95	81.5	-64.1	193.1	187.1	6.00	32.167		
1,700.0	1,692.7	1,691.3	1,687.3	3.7	3.4	-154.04	90.3	-61.6	207.1	200.6	6.44	32.171		
1,800.0	1,791.7	1,790.3	1,785.9	4.0	3.6	-153.24	99.0	-59.1	221.1	214.2	6.87	32.170		
1,900.0	1,890.8	1,889.2	1,884.4	4.3	3.8	-152.54	107.8	-56.6	235.1	227.8	7.31	32.163		
2,000.0	1,989.9	1,988.2	1,983.0	4.6	4.1	-151.92	116.5	-54.1	249.1	241.4	7.75	32.154		
2,100.0	2,088.9	2,087.2	2,081.5	4.9	4.3	-151.37	125.3	-51.6	263.2	255.0	8.19	32.143		
2,200.0	2,188.0	2,186.1	2,180.1	5.2	4.5	-150.87	134.0	-49.1	277.3	268.7	8.63	32.130		
2,300.0	2,287.0	2,285.1	2,278.6	5.5	4.8	-150.42	142.8	-46.6	291.5	282.4	9.07	32.117		
2,400.0	2,386.1	2,384.1	2,377.2	5.8	5.0	-150.01	151.6	-44.1	305.6	296.1	9.52	32.102		
2,500.0	2,485.1	2,483.1	2,475.7	6.0	5.2	-149.64	160.3	-41.6	319.7	309.8	9.96	32.088		
2,600.0	2,584.2	2,582.0	2,574.3	6.3	5.5	-149.30	169.1	-39.1	333.9	323.5	10.41	32.073		
2,700.0	2,683.3	2,681.0	2,672.8	6.6	5.7	-148.99	177.8	-36.6	348.1	337.2	10.86	32.059		
2,800.0	2,782.3	2,780.0	2,771.4	6.9	5.9	-148.70	186.6	-34.1	362.3	351.0	11.31	32.044		
2,900.0	2,881.4	2,879.0	2,869.9	7.2	6.2	-148.43	195.3	-31.6	376.5	364.7	11.75	32.030		
3,000.0	2,980.4	2,977.9	2,968.5	7.5	6.4	-148.19	204.1	-29.1	390.7	378.5	12.20	32.016		
3,100.0	3,079.5	3,076.9	3,067.0	7.8	6.6	-147.96	212.8	-26.6	404.9	392.2	12.65	32.003		
3,200.0	3,178.5	3,175.9	3,165.6	8.1	6.9	-147.74	221.6	-24.1	419.1	406.0	13.10	31.990		
3,300.0	3,277.6	3,274.9	3,264.2	8.4	7.1	-147.54	230.3	-21.6	433.3	419.7	13.55	31.977		
3,400.0	3,376.7	3,373.8	3,362.7	8.7	7.3	-147.36	239.1	-19.1	447.5	433.5	14.00	31.965		
3,500.0	3,475.7	3,472.8	3,461.3	9.0	7.6	-147.18	247.9	-16.6	461.7	447.3	14.45	31.953		
3,600.0	3,574.8	3,571.8	3,559.8	9.3	7.8	-147.01	256.6	-14.1	476.0	461.1	14.90	31.942		
3,700.0	3,673.8	3,670.7	3,658.4	9.6	8.0	-146.86	265.4	-11.6	490.2	474.8	15.35	31.931 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2D-7H-E168 - 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		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	-86.29	5.3	-82.5	82.7					
100.0	100.0	98.0	98.0	0.1	0.1	-86.29	5.3	-82.5	82.7	82.4	0.26	319.092		
200.0	200.0	198.0	198.0	0.3	0.3	-86.29	5.3	-82.5	82.7	82.1	0.61	136.164		
300.0	300.0	298.0	298.0	0.5	0.5	-86.29	5.3	-82.5	82.7	81.7	0.96	86.469		
400.0	400.0	398.0	398.0	0.7	0.7	-86.29	5.3	-82.5	82.7	81.4	1.31	63.349 CC, ES		
500.0	500.0	498.0	498.0	0.8	0.8	-176.79	5.3	-82.5	83.6	81.9	1.65	50.516		
600.0	600.0	598.8	598.8	1.0	1.0	-176.42	6.0	-82.0	85.7	83.7	2.00	42.753		
700.0	699.9	699.6	699.6	1.2	1.2	-175.20	8.1	-80.4	88.6	86.2	2.36	37.600		
800.0	799.7	800.3	800.2	1.4	1.4	-173.24	11.5	-77.6	92.3	89.6	2.71	34.046		
900.0	899.4	901.0	900.6	1.6	1.6	-170.67	16.3	-73.8	97.0	94.0	3.08	31.548		
1,000.0	998.9	1,001.5	1,000.8	1.8	1.8	-167.67	22.5	-68.8	102.8	99.4	3.45	29.784		
1,100.0	1,098.3	1,101.8	1,100.7	2.1	2.0	-164.38	30.0	-62.8	109.9	106.0	3.85	28.545		
1,200.0	1,197.4	1,201.7	1,199.9	2.3	2.2	-161.03	38.8	-55.8	118.3	114.1	4.27	27.721		
1,300.0	1,296.5	1,301.0	1,298.6	2.6	2.5	-158.14	47.7	-48.7	127.7	123.0	4.71	27.120		
1,400.0	1,395.5	1,400.4	1,397.4	2.9	2.7	-155.64	56.7	-41.5	137.3	132.1	5.16	26.606		
1,500.0	1,494.6	1,499.8	1,496.1	3.2	3.0	-153.47	65.6	-34.3	147.1	141.5	5.62	26.165		
1,600.0	1,593.6	1,599.2	1,594.8	3.4	3.2	-151.58	74.6	-27.2	157.1	151.0	6.09	25.782		
1,700.0	1,692.7	1,698.5	1,693.5	3.7	3.5	-149.92	83.6	-20.0	167.2	160.7	6.57	25.448		
1,800.0	1,791.7	1,797.9	1,792.2	4.0	3.7	-148.44	92.5	-12.9	177.5	170.5	7.06	25.155		
1,900.0	1,890.8	1,897.3	1,890.9	4.3	4.0	-147.13	101.5	-5.7	187.9	180.4	7.55	24.897		
2,000.0	1,989.9	1,996.7	1,989.6	4.6	4.2	-145.96	110.4	1.5	198.4	190.3	8.04	24.668		
2,100.0	2,088.9	2,096.0	2,088.3	4.9	4.5	-144.90	119.4	8.6	208.9	200.4	8.54	24.465		
2,200.0	2,188.0	2,195.4	2,187.0	5.2	4.7	-143.94	128.4	15.8	219.5	210.5	9.04	24.284		
2,300.0	2,287.0	2,294.8	2,285.7	5.5	5.0	-143.08	137.3	22.9	230.2	220.6	9.54	24.121		
2,400.0	2,386.1	2,394.1	2,384.4	5.8	5.3	-142.29	146.3	30.1	240.9	230.9	10.05	23.974		
2,500.0	2,485.1	2,493.5	2,483.1	6.0	5.5	-141.56	155.2	37.3	251.7	241.1	10.56	23.841		
2,600.0	2,584.2	2,592.9	2,581.9	6.3	5.8	-140.90	164.2	44.4	262.4	251.4	11.06	23.721		
2,700.0	2,683.3	2,692.3	2,680.6	6.6	6.0	-140.29	173.2	51.6	273.3	261.7	11.57	23.611		
2,800.0	2,782.3	2,791.6	2,779.3	6.9	6.3	-139.73	182.1	58.7	284.1	272.0	12.08	23.511		
2,900.0	2,881.4	2,891.0	2,878.0	7.2	6.6	-139.20	191.1	65.9	295.0	282.4	12.60	23.419		
3,000.0	2,980.4	2,990.4	2,976.7	7.5	6.8	-138.72	200.0	73.1	305.9	292.8	13.11	23.334		
3,100.0	3,079.5	3,089.7	3,075.4	7.8	7.1	-138.27	209.0	80.2	316.8	303.2	13.62	23.256		
3,200.0	3,178.5	3,189.1	3,174.1	8.1	7.4	-137.84	217.9	87.4	327.7	313.6	14.14	23.184		
3,300.0	3,277.6	3,288.5	3,272.8	8.4	7.6	-137.45	226.9	94.5	338.7	324.0	14.65	23.117		
3,400.0	3,376.7	3,387.9	3,371.5	8.7	7.9	-137.08	235.9	101.7	349.7	334.5	15.17	23.055		
3,500.0	3,475.7	3,487.2	3,470.2	9.0	8.1	-136.73	244.8	108.9	360.6	345.0	15.68	22.998		
3,600.0	3,574.8	3,586.6	3,568.9	9.3	8.4	-136.40	253.8	116.0	371.6	355.4	16.20	22.944		
3,700.0	3,673.8	3,686.0	3,667.6	9.6	8.7	-136.10	262.7	123.2	382.6	365.9	16.71	22.893		
3,800.0	3,772.9	3,785.4	3,766.4	9.9	8.9	-135.80	271.7	130.4	393.6	376.4	17.23	22.846		
3,900.0	3,871.9	3,884.7	3,865.1	10.2	9.2	-135.53	280.7	137.5	404.7	386.9	17.75	22.802		
4,000.0	3,971.0	3,984.1	3,963.8	10.5	9.5	-135.27	289.6	144.7	415.7	397.4	18.26	22.760		
4,100.0	4,070.1	4,083.5	4,062.5	10.8	9.7	-135.02	298.6	151.8	426.7	408.0	18.78	22.721		
4,200.0	4,169.1	4,182.8	4,161.2	11.1	10.0	-134.79	307.5	159.0	437.8	418.5	19.30	22.684		
4,300.0	4,268.2	4,282.2	4,259.9	11.4	10.3	-134.56	316.5	166.2	448.8	429.0	19.82	22.649		
4,400.0	4,367.2	4,381.6	4,358.6	11.7	10.5	-134.35	325.5	173.3	459.9	439.6	20.34	22.616		
4,500.0	4,466.3	4,481.0	4,457.3	12.0	10.8	-134.15	334.4	180.5	471.0	450.1	20.85	22.585		
4,600.0	4,565.3	4,580.3	4,556.0	12.3	11.0	-133.96	343.4	187.6	482.0	460.7	21.37	22.555		
4,700.0	4,664.4	4,679.7	4,654.7	12.6	11.3	-133.77	352.3	194.8	493.1	471.2	21.89	22.527 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2E-7H-E168 - 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		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	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.62	-0.7	-67.6	67.6					
100.0	100.0	98.0	98.0	0.1	0.1	-90.62	-0.7	-67.6	67.6	67.3	0.26	260.683		
200.0	200.0	198.0	198.0	0.3	0.3	-90.62	-0.7	-67.6	67.6	67.0	0.61	111.240		
300.0	300.0	298.0	298.0	0.5	0.5	-90.62	-0.7	-67.6	67.6	66.6	0.96	70.641		
400.0	400.0	398.0	398.0	0.7	0.7	-90.62	-0.7	-67.6	67.6	66.3	1.31	51.753 CC, ES		
500.0	500.0	498.0	498.0	0.8	0.8	178.93	-0.7	-67.6	68.4	66.8	1.65	41.366		
600.0	600.0	598.0	598.0	1.0	1.0	178.97	-0.7	-67.6	71.1	69.1	2.00	35.476		
700.0	699.9	697.9	697.9	1.2	1.2	179.03	-0.7	-67.6	75.4	73.1	2.35	32.082		
800.0	799.7	797.7	797.7	1.4	1.3	179.10	-0.7	-67.6	81.5	78.8	2.70	30.217		
900.0	899.4	897.4	897.4	1.6	1.5	179.18	-0.7	-67.6	89.4	86.3	3.04	29.359		
1,000.0	998.9	996.9	996.9	1.8	1.7	179.26	-0.7	-67.6	98.9	95.6	3.39	29.198		
1,100.0	1,098.3	1,097.8	1,097.7	2.1	1.9	179.60	-0.2	-66.9	109.6	105.9	3.74	29.345		
1,200.0	1,197.4	1,198.7	1,198.7	2.3	2.1	-179.60	1.4	-64.8	120.6	116.5	4.08	29.546		
1,300.0	1,296.5	1,299.9	1,299.8	2.6	2.2	-178.46	4.0	-61.3	130.9	126.5	4.44	29.517		
1,400.0	1,395.5	1,401.3	1,401.0	2.9	2.4	-177.00	7.7	-56.4	140.0	135.2	4.79	29.194		
1,500.0	1,494.6	1,502.8	1,502.2	3.2	2.6	-175.26	12.6	-50.0	147.7	142.6	5.16	28.635		
1,600.0	1,593.6	1,604.4	1,603.3	3.4	2.8	-173.23	18.5	-42.2	154.4	148.8	5.54	27.883		
1,700.0	1,692.7	1,706.0	1,704.2	3.7	3.1	-170.91	25.5	-32.9	160.0	154.0	5.93	26.971		
1,800.0	1,791.7	1,807.6	1,804.9	4.0	3.3	-168.29	33.6	-22.3	164.6	158.3	6.35	25.926		
1,900.0	1,890.8	1,909.0	1,905.2	4.3	3.6	-165.34	42.7	-10.2	168.5	161.7	6.80	24.774		
2,000.0	1,989.9	2,009.2	2,004.1	4.6	3.9	-162.17	52.6	2.9	172.0	164.7	7.29	23.600		
2,100.0	2,088.9	2,108.7	2,102.2	4.9	4.1	-159.12	62.5	16.0	175.8	168.1	7.80	22.552		
2,200.0	2,188.0	2,208.2	2,200.3	5.2	4.4	-156.20	72.4	29.0	180.2	171.9	8.33	21.623		
2,300.0	2,287.0	2,307.7	2,298.5	5.5	4.7	-153.43	82.3	42.1	185.0	176.1	8.89	20.803		
2,400.0	2,386.1	2,407.2	2,396.6	5.8	5.0	-150.81	92.2	55.2	190.3	180.8	9.47	20.082		
2,500.0	2,485.1	2,506.7	2,494.7	6.0	5.3	-148.33	102.1	68.3	195.9	185.8	10.07	19.451		
2,600.0	2,584.2	2,606.2	2,592.8	6.3	5.7	-145.99	112.0	81.3	201.8	191.2	10.68	18.899		
2,700.0	2,683.3	2,705.7	2,691.0	6.6	6.0	-143.79	121.9	94.4	208.1	196.8	11.30	18.417		
2,800.0	2,782.3	2,805.2	2,789.1	6.9	6.3	-141.72	131.8	107.5	214.7	202.7	11.93	17.997		
2,900.0	2,881.4	2,904.7	2,887.2	7.2	6.6	-139.77	141.7	120.6	221.5	208.9	12.56	17.632		
3,000.0	2,980.4	3,004.1	2,985.4	7.5	6.9	-137.94	151.6	133.7	228.6	215.4	13.20	17.314		
3,100.0	3,079.5	3,103.6	3,083.5	7.8	7.2	-136.23	161.5	146.7	235.8	222.0	13.84	17.037		
3,200.0	3,178.5	3,203.1	3,181.6	8.1	7.6	-134.61	171.4	159.8	243.3	228.8	14.49	16.797		
3,300.0	3,277.6	3,302.6	3,279.8	8.4	7.9	-133.09	181.3	172.9	251.0	235.9	15.13	16.587		
3,400.0	3,376.7	3,402.1	3,377.9	8.7	8.2	-131.67	191.3	186.0	258.8	243.1	15.78	16.405		
3,500.0	3,475.7	3,501.6	3,476.0	9.0	8.5	-130.33	201.2	199.1	266.8	250.4	16.42	16.247		
3,600.0	3,574.8	3,601.1	3,574.1	9.3	8.9	-129.06	211.1	212.1	274.9	257.9	17.07	16.109		
3,700.0	3,673.8	3,700.6	3,672.3	9.6	9.2	-127.87	221.0	225.2	283.2	265.5	17.71	15.989		
3,800.0	3,772.9	3,800.1	3,770.4	9.9	9.5	-126.75	230.9	238.3	291.5	273.2	18.35	15.885		
3,900.0	3,871.9	3,899.6	3,868.5	10.2	9.9	-125.69	240.8	251.4	300.0	281.0	18.99	15.795		
4,000.0	3,971.0	3,999.1	3,966.7	10.5	10.2	-124.68	250.7	264.5	308.6	288.9	19.63	15.716		
4,100.0	4,070.1	4,098.5	4,064.8	10.8	10.5	-123.74	260.6	277.5	317.2	297.0	20.27	15.648		
4,200.0	4,169.1	4,198.0	4,162.9	11.1	10.9	-122.84	270.5	290.6	326.0	305.1	20.91	15.589		
4,300.0	4,268.2	4,297.5	4,261.0	11.4	11.2	-121.99	280.4	303.7	334.8	313.2	21.54	15.539		
4,400.0	4,367.2	4,397.0	4,359.2	11.7	11.5	-121.18	290.3	316.8	343.6	321.5	22.18	15.495		
4,500.0	4,466.3	4,496.5	4,457.3	12.0	11.8	-120.41	300.2	329.9	352.6	329.8	22.81	15.458		
4,600.0	4,565.3	4,596.0	4,555.4	12.3	12.2	-119.69	310.1	342.9	361.6	338.2	23.44	15.426		
4,700.0	4,664.4	4,695.5	4,653.6	12.6	12.5	-118.99	320.0	356.0	370.7	346.6	24.07	15.400		
4,800.0	4,763.5	4,795.0	4,751.7	12.9	12.8	-118.33	329.9	369.1	379.8	355.1	24.70	15.377		
4,900.0	4,862.5	4,894.5	4,849.8	13.1	13.2	-117.70	339.8	382.2	388.9	363.6	25.32	15.358		
5,000.0	4,961.6	4,994.0	4,947.9	13.4	13.5	-117.10	349.7	395.3	398.1	372.2	25.95	15.343		
5,100.0	5,060.6	5,093.5	5,046.1	13.7	13.8	-116.53	359.6	408.3	407.4	380.8	26.57	15.331		

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2E-7H-E168 - 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		
5,200.0	5,159.7	5,192.9	5,144.2	14.0	14.2	-115.98	369.5	421.4	416.6	389.5	27.19	15.321		
5,300.0	5,258.7	5,292.4	5,242.3	14.3	14.5	-115.46	379.4	434.5	426.0	398.2	27.82	15.314		
5,400.0	5,357.8	5,391.9	5,340.5	14.6	14.8	-114.96	389.3	447.6	435.3	406.9	28.44	15.309		
5,500.0	5,456.9	5,491.4	5,438.6	14.9	15.2	-114.48	399.2	460.7	444.7	415.6	29.05	15.306		
5,600.0	5,555.9	5,590.9	5,536.7	15.2	15.5	-114.02	409.1	473.7	454.1	424.4	29.67	15.304		
5,700.0	5,655.0	5,690.4	5,634.8	15.5	15.8	-113.58	419.0	486.8	463.6	433.3	30.29	15.304		
5,800.0	5,754.0	5,789.9	5,733.0	15.8	16.2	-113.15	428.9	499.9	473.0	442.1	30.91	15.305		
5,900.0	5,853.1	5,889.4	5,831.1	16.1	16.5	-112.75	438.8	513.0	482.5	451.0	31.52	15.307		
6,000.0	5,952.1	5,988.9	5,929.2	16.4	16.8	-112.36	448.8	526.1	492.0	459.9	32.14	15.311		
7,400.0	7,338.6	8,168.1	7,759.0	20.6	20.5	-148.57	0.2	769.9	443.5	414.6	28.88	15.354		
7,500.0	7,434.5	8,115.9	7,756.7	20.9	20.5	-132.78	52.3	769.6	357.3	328.5	28.79	12.411		
7,600.0	7,524.9	8,064.9	7,749.8	21.2	20.4	-124.20	102.9	768.7	280.3	252.4	27.90	10.047		
7,700.0	7,606.9	8,014.3	7,738.7	21.5	20.4	-114.94	152.2	767.2	219.7	192.4	27.23	8.066		
7,800.0	7,678.0	7,963.9	7,723.3	21.9	20.5	-102.81	200.1	765.2	187.9	160.0	27.93	6.728		
7,832.4	7,698.4	7,947.6	7,717.5	22.0	20.5	-98.20	215.4	764.4	185.8	157.3	28.49	6.522 SF		
7,900.0	7,736.1	7,913.6	7,703.9	22.3	20.5	-87.80	246.4	762.6	194.3	164.6	29.72	6.539		
8,000.0	7,779.4	7,863.4	7,680.6	22.9	20.6	-72.01	290.8	759.5	230.9	200.5	30.37	7.602		
8,100.0	7,806.6	7,813.2	7,653.5	23.6	20.7	-58.28	332.9	755.9	281.7	253.1	28.59	9.855		
8,200.0	7,816.9	7,763.0	7,622.9	24.3	20.8	-47.89	372.4	751.8	336.4	311.1	25.36	13.265		
8,300.0	7,817.0	7,715.9	7,591.2	25.2	20.9	-43.55	406.9	747.6	394.5	369.6	24.97	15.803		
8,400.0	7,817.0	7,675.4	7,561.7	26.1	21.0	-40.45	434.4	743.6	460.3	435.3	25.01	18.407		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-85.21	5.2	-62.5	62.8					
100.0	100.0	98.0	98.0	0.1	0.1	-85.21	5.2	-62.5	62.7	62.5	0.26	242.106		
200.0	200.0	198.0	198.0	0.3	0.3	-85.21	5.2	-62.5	62.7	62.1	0.61	103.313		
300.0	300.0	298.0	298.0	0.5	0.5	-85.21	5.2	-62.5	62.7	61.8	0.96	65.607		
400.0	400.0	398.9	398.9	0.7	0.7	-84.78	5.6	-61.8	62.0	60.7	1.31	47.447		
500.0	500.0	499.8	499.7	0.8	0.8	-173.95	6.9	-59.5	60.7	59.1	1.66	36.611		
600.0	600.0	600.6	600.5	1.0	1.0	-171.83	8.9	-55.6	59.8	57.8	2.01	29.690		
700.0	699.9	701.4	701.1	1.2	1.2	-168.88	11.8	-50.1	59.3	56.9	2.37	24.964		
744.9	744.6	746.6	746.1	1.3	1.3	-167.29	13.4	-47.2	59.2	56.7	2.54	23.313 CC		
800.0	799.7	802.1	801.5	1.4	1.4	-165.14	15.6	-43.1	59.3	56.6	2.75	21.602 ES		
900.0	899.4	902.7	901.6	1.6	1.7	-160.72	20.1	-34.6	60.1	56.9	3.14	19.151		
1,000.0	998.9	1,003.3	1,001.5	1.8	1.9	-155.80	25.5	-24.5	61.7	58.1	3.56	17.340		
1,100.0	1,098.3	1,103.7	1,101.1	2.1	2.2	-150.59	31.7	-12.8	64.3	60.3	4.02	15.996		
1,200.0	1,197.4	1,204.0	1,200.3	2.3	2.5	-145.33	38.6	0.3	68.0	63.5	4.53	14.998		
1,300.0	1,296.5	1,304.2	1,299.1	2.6	2.8	-139.73	46.4	15.0	72.1	67.0	5.11	14.100		
1,400.0	1,395.5	1,404.2	1,397.4	2.9	3.1	-133.53	55.0	31.1	76.3	70.5	5.75	13.259		
1,500.0	1,494.6	1,503.7	1,495.1	3.2	3.5	-127.53	63.9	47.9	81.2	74.8	6.42	12.638		
1,600.0	1,593.6	1,603.3	1,592.8	3.4	3.9	-122.26	72.8	64.6	86.9	79.8	7.10	12.233		
1,700.0	1,692.7	1,702.8	1,690.5	3.7	4.2	-117.67	81.7	81.3	93.2	85.4	7.77	11.985		
1,800.0	1,791.7	1,802.3	1,788.2	4.0	4.6	-113.68	90.6	98.0	100.0	91.6	8.44	11.848		
1,900.0	1,890.8	1,901.9	1,886.0	4.3	4.9	-110.21	99.5	114.8	107.3	98.2	9.10	11.790		
2,000.0	1,989.9	2,001.4	1,983.7	4.6	5.3	-107.19	108.3	131.5	114.9	105.1	9.75	11.786		
2,100.0	2,088.9	2,101.0	2,081.4	4.9	5.7	-104.55	117.2	148.2	122.7	112.4	10.38	11.820		
2,200.0	2,188.0	2,200.5	2,179.1	5.2	6.1	-102.24	126.1	164.9	130.9	119.8	11.02	11.879		
2,300.0	2,287.0	2,300.0	2,276.8	5.5	6.4	-100.19	135.0	181.6	139.1	127.5	11.64	11.956		
2,400.0	2,386.1	2,399.6	2,374.6	5.8	6.8	-98.38	143.9	198.4	147.6	135.3	12.26	12.043		
2,500.0	2,485.1	2,499.1	2,472.3	6.0	7.2	-96.76	152.8	215.1	156.2	143.3	12.87	12.138		
2,600.0	2,584.2	2,598.7	2,570.0	6.3	7.5	-95.31	161.7	231.8	164.9	151.4	13.47	12.236		
2,700.0	2,683.3	2,698.2	2,667.7	6.6	7.9	-94.01	170.6	248.5	173.7	159.6	14.08	12.336		
2,800.0	2,782.3	2,797.7	2,765.4	6.9	8.3	-92.84	179.5	265.3	182.5	167.9	14.68	12.436		
2,900.0	2,881.4	2,897.3	2,863.2	7.2	8.7	-91.77	188.3	282.0	191.5	176.2	15.28	12.535		
3,000.0	2,980.4	2,996.8	2,960.9	7.5	9.0	-90.80	197.2	298.7	200.5	184.6	15.87	12.632		
3,100.0	3,079.5	3,096.3	3,058.6	7.8	9.4	-89.91	206.1	315.4	209.5	193.1	16.46	12.727		
3,200.0	3,178.5	3,195.9	3,156.3	8.1	9.8	-89.10	215.0	332.2	218.6	201.6	17.05	12.820		
3,300.0	3,277.6	3,295.4	3,254.1	8.4	10.2	-88.35	223.9	348.9	227.7	210.1	17.64	12.910		
3,400.0	3,376.7	3,395.0	3,351.8	8.7	10.5	-87.66	232.8	365.6	236.9	218.7	18.23	12.997		
3,500.0	3,475.7	3,494.5	3,449.5	9.0	10.9	-87.02	241.7	382.3	246.1	227.3	18.81	13.081		
3,600.0	3,574.8	3,594.0	3,547.2	9.3	11.3	-86.42	250.6	399.1	255.4	236.0	19.40	13.163		
3,700.0	3,673.8	3,693.6	3,644.9	9.6	11.7	-85.87	259.4	415.8	264.6	244.6	19.98	13.241		
3,800.0	3,772.9	3,793.1	3,742.7	9.9	12.0	-85.36	268.3	432.5	273.9	253.3	20.57	13.317		
3,900.0	3,871.9	3,892.7	3,840.4	10.2	12.4	-84.88	277.2	449.2	283.2	262.0	21.15	13.390		
4,000.0	3,971.0	3,992.2	3,938.1	10.5	12.8	-84.43	286.1	466.0	292.5	270.8	21.73	13.460		
4,100.0	4,070.1	4,091.7	4,035.8	10.8	13.2	-84.00	295.0	482.7	301.8	279.5	22.31	13.528		
4,200.0	4,169.1	4,191.3	4,133.5	11.1	13.5	-83.61	303.9	499.4	311.2	288.3	22.89	13.594		
4,300.0	4,268.2	4,290.8	4,231.3	11.4	13.9	-83.23	312.8	516.1	320.6	297.1	23.47	13.657		
4,400.0	4,367.2	4,390.4	4,329.0	11.7	14.3	-82.88	321.7	532.9	329.9	305.9	24.05	13.717		
4,500.0	4,466.3	4,489.9	4,426.7	12.0	14.7	-82.55	330.5	549.6	339.3	314.7	24.63	13.776		
4,600.0	4,565.3	4,589.4	4,524.4	12.3	15.0	-82.23	339.4	566.3	348.7	323.5	25.21	13.833		
4,700.0	4,664.4	4,689.0	4,622.1	12.6	15.4	-81.93	348.3	583.0	358.1	332.3	25.79	13.887		
4,800.0	4,763.5	4,788.5	4,719.9	12.9	15.8	-81.65	357.2	599.8	367.6	341.2	26.37	13.940		
4,900.0	4,862.5	4,888.1	4,817.6	13.1	16.2	-81.38	366.1	616.5	377.0	350.0	26.94	13.991		
5,000.0	4,961.6	4,987.6	4,915.3	13.4	16.5	-81.12	375.0	633.2	386.4	358.9	27.52	14.040		

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,060.6	5,087.1	5,013.0	13.7	16.9	-80.88	383.9	649.9	395.9	367.8	28.10	14.088		
5,200.0	5,159.7	5,186.7	5,110.8	14.0	17.3	-80.65	392.8	666.7	405.3	376.6	28.68	14.134		
5,300.0	5,258.7	5,286.2	5,208.5	14.3	17.7	-80.43	401.7	683.4	414.8	385.5	29.25	14.178		
5,400.0	5,357.8	5,385.8	5,306.2	14.6	18.1	-80.21	410.5	700.1	424.2	394.4	29.83	14.221		
5,500.0	5,456.9	5,485.3	5,403.9	14.9	18.4	-80.01	419.4	716.8	433.7	403.3	30.41	14.263		
5,600.0	5,555.9	5,584.8	5,501.6	15.2	18.8	-79.82	428.3	733.6	443.2	412.2	30.98	14.303		
5,700.0	5,655.0	5,684.4	5,599.4	15.5	19.2	-79.63	437.2	750.3	452.6	421.1	31.56	14.343		
5,800.0	5,754.0	5,783.9	5,697.1	15.8	19.6	-79.45	446.1	767.0	462.1	430.0	32.14	14.381		
5,900.0	5,853.1	5,883.5	5,794.8	16.1	19.9	-79.28	455.0	783.7	471.6	438.9	32.71	14.417		
6,000.0	5,952.1	5,983.0	5,892.5	16.4	20.3	-79.12	463.9	800.5	481.1	447.8	33.29	14.453		
6,100.0	6,051.2	6,082.5	5,990.2	16.7	20.7	-78.96	472.8	817.2	490.6	456.7	33.86	14.488		
7,400.0	7,338.6	8,215.6	7,759.0	20.6	25.4	74.73	0.2	1,119.9	474.0	442.9	31.07	15.256		
7,500.0	7,434.5	8,162.0	7,757.1	20.9	25.3	97.37	53.8	1,119.6	383.4	351.0	32.40	11.835		
7,600.0	7,524.9	8,100.8	7,749.0	21.2	25.3	101.92	114.4	1,118.2	298.8	266.9	31.93	9.359		
7,700.0	7,606.9	8,044.8	7,736.0	21.5	25.3	99.72	168.8	1,116.0	225.3	194.5	30.78	7.321		
7,800.0	7,678.0	7,991.0	7,718.7	21.9	25.3	91.55	219.6	1,113.0	173.8	144.3	29.55	5.883		
7,878.3	7,724.7	7,949.7	7,702.2	22.2	25.4	81.25	257.4	1,110.2	159.9	131.1	28.80	5.551 SF		
7,900.0	7,736.1	7,938.3	7,697.2	22.3	25.4	77.89	267.6	1,109.3	160.9	132.4	28.59	5.630		
8,000.0	7,779.4	7,886.3	7,671.9	22.9	25.4	61.19	312.7	1,105.0	189.0	161.7	27.30	6.922		
8,100.0	7,806.6	7,834.7	7,642.9	23.6	25.5	45.62	355.1	1,100.0	239.1	213.8	25.31	9.446		
8,200.0	7,816.9	7,783.4	7,610.4	24.3	25.5	33.61	394.4	1,094.5	296.1	272.2	23.90	12.389		
8,300.0	7,817.0	7,735.6	7,577.1	25.2	25.6	28.44	428.3	1,088.8	357.2	333.9	23.23	15.374		
8,400.0	7,817.0	7,700.0	7,550.6	26.1	25.6	25.29	451.5	1,084.2	426.0	403.1	22.87	18.625		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.78	-0.8	-57.6	57.6					
100.0	100.0	98.0	98.0	0.1	0.1	-90.78	-0.8	-57.6	57.6	57.3	0.26	222.105		
200.0	200.0	198.0	198.0	0.3	0.3	-90.78	-0.8	-57.6	57.6	57.0	0.61	94.778		
300.0	300.0	298.9	298.9	0.5	0.5	-90.46	-0.5	-56.8	56.8	55.8	0.96	59.216		
400.0	400.0	399.8	399.7	0.7	0.7	-89.43	0.5	-54.3	54.4	53.1	1.31	41.376		
500.0	500.0	500.6	500.4	0.8	0.9	-177.98	2.2	-50.3	51.2	49.6	1.66	30.824		
600.0	600.0	601.3	601.0	1.0	1.1	-175.02	4.6	-44.6	48.4	46.3	2.02	23.954		
700.0	699.9	701.9	701.3	1.2	1.3	-170.88	7.6	-37.2	45.9	43.5	2.38	19.236		
800.0	799.7	802.5	801.3	1.4	1.5	-165.47	11.2	-28.3	43.9	41.1	2.77	15.874		
900.0	899.4	902.9	901.1	1.6	1.8	-158.82	15.6	-17.7	42.7	39.5	3.18	13.443		
963.0	962.1	966.1	963.8	1.7	1.9	-154.09	18.7	-10.3	42.5	39.0	3.46	12.268 CC		
1,000.0	998.9	1,003.2	1,000.6	1.8	2.0	-151.17	20.6	-5.6	42.6	38.9	3.64	11.695 ES		
1,100.0	1,098.3	1,103.5	1,099.7	2.1	2.3	-143.00	26.2	8.2	43.7	39.5	4.17	10.478		
1,200.0	1,197.4	1,203.6	1,198.5	2.3	2.7	-134.89	32.5	23.5	46.2	41.4	4.77	9.680		
1,300.0	1,296.5	1,303.5	1,296.7	2.6	3.0	-126.42	39.5	40.4	49.5	44.0	5.45	9.088		
1,400.0	1,395.5	1,403.3	1,394.4	2.9	3.4	-117.31	47.0	58.9	53.5	47.4	6.17	8.681		
1,500.0	1,494.6	1,502.7	1,491.5	3.2	3.8	-107.98	55.2	78.8	58.9	52.0	6.90	8.534 SF		
1,600.0	1,593.6	1,601.9	1,588.0	3.4	4.2	-99.11	64.0	100.1	65.8	58.2	7.58	8.682		
1,700.0	1,692.7	1,701.2	1,684.6	3.7	4.7	-91.91	72.8	121.5	74.1	65.9	8.19	9.040		
1,800.0	1,791.7	1,800.5	1,781.1	4.0	5.1	-86.22	81.6	142.9	83.3	74.5	8.76	9.504		
1,900.0	1,890.8	1,899.7	1,877.6	4.3	5.5	-81.69	90.4	164.4	93.1	83.8	9.30	10.013		
2,000.0	1,989.9	1,999.0	1,974.2	4.6	6.0	-78.04	99.2	185.8	103.5	93.7	9.82	10.534		
2,100.0	2,088.9	2,098.3	2,070.7	4.9	6.4	-75.06	108.0	207.2	114.1	103.8	10.33	11.047		
2,200.0	2,188.0	2,197.6	2,167.2	5.2	6.8	-72.59	116.8	228.6	125.1	114.2	10.84	11.543		
2,300.0	2,287.0	2,296.8	2,263.7	5.5	7.3	-70.53	125.6	250.1	136.2	124.9	11.33	12.016		
2,400.0	2,386.1	2,396.1	2,360.3	5.8	7.7	-68.77	134.4	271.5	147.5	135.6	11.83	12.464		
2,500.0	2,485.1	2,495.4	2,456.8	6.0	8.2	-67.27	143.2	292.9	158.8	146.5	12.33	12.887		
2,600.0	2,584.2	2,594.6	2,553.3	6.3	8.6	-65.97	152.0	314.4	170.3	157.5	12.82	13.285		
2,700.0	2,683.3	2,693.9	2,649.9	6.6	9.0	-64.83	160.8	335.8	181.9	168.5	13.31	13.659		
2,800.0	2,782.3	2,793.2	2,746.4	6.9	9.5	-63.83	169.6	357.2	193.5	179.7	13.81	14.011		
2,900.0	2,881.4	2,892.4	2,842.9	7.2	9.9	-62.94	178.4	378.6	205.1	190.8	14.30	14.343		
3,000.0	2,980.4	2,991.7	2,939.5	7.5	10.4	-62.15	187.2	400.1	216.9	202.1	14.80	14.655		
3,100.0	3,079.5	3,091.0	3,036.0	7.8	10.8	-61.44	196.0	421.5	228.6	213.3	15.29	14.948		
3,200.0	3,178.5	3,190.2	3,132.5	8.1	11.3	-60.79	204.8	442.9	240.4	224.6	15.79	15.225		
3,300.0	3,277.6	3,289.5	3,229.0	8.4	11.7	-60.21	213.6	464.3	252.2	235.9	16.28	15.487		
3,400.0	3,376.7	3,388.8	3,325.6	8.7	12.2	-59.68	222.4	485.8	264.0	247.2	16.78	15.734		
3,500.0	3,475.7	3,488.1	3,422.1	9.0	12.6	-59.20	231.2	507.2	275.9	258.6	17.28	15.968		
3,600.0	3,574.8	3,587.3	3,518.6	9.3	13.1	-58.76	240.0	528.6	287.7	269.9	17.77	16.190		
3,700.0	3,673.8	3,686.6	3,615.2	9.6	13.5	-58.35	248.8	550.0	299.6	281.3	18.27	16.400		
3,800.0	3,772.9	3,785.9	3,711.7	9.9	13.9	-57.97	257.6	571.5	311.5	292.7	18.77	16.600		
3,900.0	3,871.9	3,885.1	3,808.2	10.2	14.4	-57.62	266.4	592.9	323.4	304.1	19.26	16.789		
4,000.0	3,971.0	3,984.4	3,904.7	10.5	14.8	-57.29	275.2	614.3	335.3	315.6	19.76	16.970		
4,100.0	4,070.1	4,083.7	4,001.3	10.8	15.3	-56.99	284.0	635.8	347.3	327.0	20.26	17.142		
4,200.0	4,169.1	4,182.9	4,097.8	11.1	15.7	-56.71	292.8	657.2	359.2	338.4	20.76	17.306		
4,300.0	4,268.2	4,282.2	4,194.3	11.4	16.2	-56.44	301.6	678.6	371.1	349.9	21.25	17.462		
4,400.0	4,367.2	4,381.5	4,290.9	11.7	16.6	-56.19	310.4	700.0	383.1	361.3	21.75	17.612		
4,500.0	4,466.3	4,480.8	4,387.4	12.0	17.1	-55.96	319.2	721.5	395.0	372.8	22.25	17.755		
4,600.0	4,565.3	4,580.0	4,483.9	12.3	17.5	-55.74	328.0	742.9	407.0	384.3	22.75	17.892		
4,700.0	4,664.4	4,679.3	4,580.5	12.6	18.0	-55.54	336.8	764.3	419.0	395.7	23.25	18.023		
4,800.0	4,763.5	4,778.6	4,677.0	12.9	18.4	-55.34	345.6	785.7	431.0	407.2	23.75	18.149		
4,900.0	4,862.5	4,877.8	4,773.5	13.1	18.9	-55.16	354.4	807.2	442.9	418.7	24.25	18.269		
5,000.0	4,961.6	4,977.1	4,870.0	13.4	19.3	-54.98	363.2	828.6	454.9	430.2	24.74	18.385		

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 Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,060.6	5,076.4	4,966.6	13.7	19.8	-54.81	372.0	850.0	466.9	441.7	25.24	18.496	
5,200.0	5,159.7	5,175.6	5,063.1	14.0	20.2	-54.66	380.8	871.4	478.9	453.2	25.74	18.604	
5,300.0	5,258.7	5,274.9	5,159.6	14.3	20.7	-54.51	389.6	892.9	490.9	464.7	26.24	18.707	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5021.0ft (Original Well Elev)

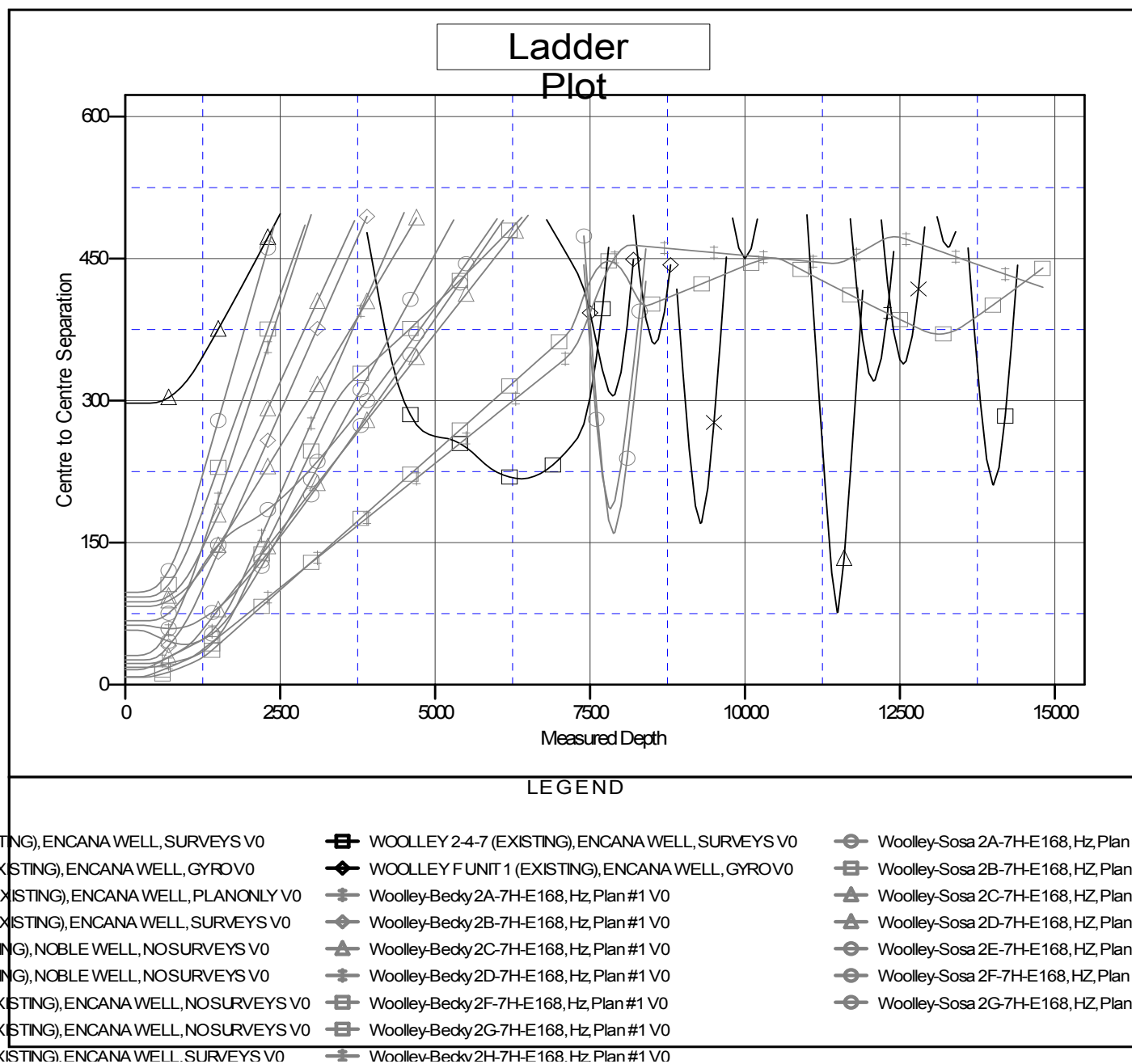
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Woolley-Becky 2E-7H-E168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.29°



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