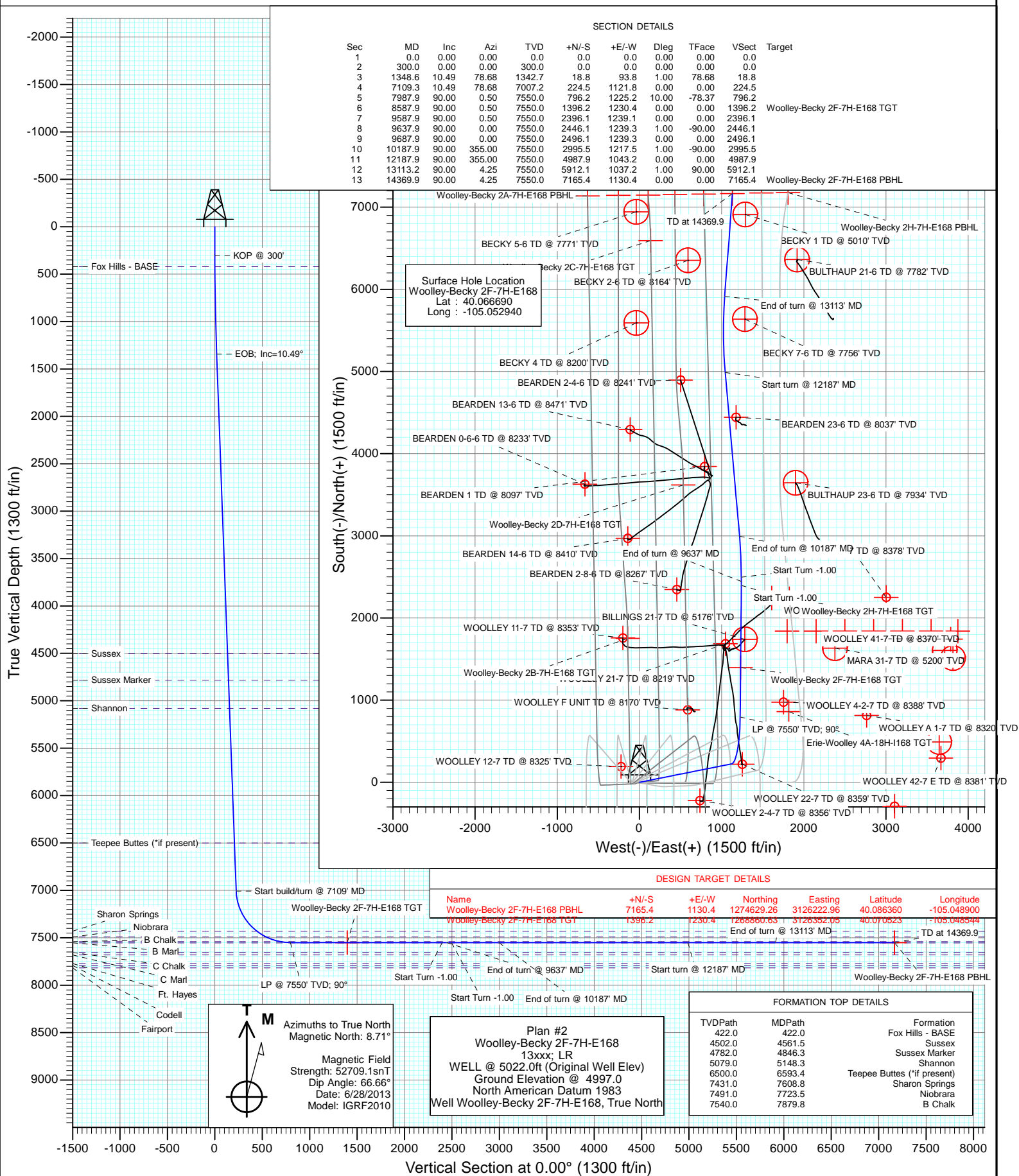




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky)
Well: Woolley-Becky 2F-7H-E168
Wellbore: Hz
Design: Plan #2



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2F-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 2F-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,458.27 ft	Latitude:	40.066690
	+E/-W	0.0 ft	Easting:	3,125,128.71 ft	Longitude:	-105.052940
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,997.0 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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,348.6	10.49	78.68	1,342.7	18.8	93.8	1.00	1.00	0.00	78.68	
7,109.3	10.49	78.68	7,007.2	224.5	1,121.8	0.00	0.00	0.00	0.00	
7,987.9	90.00	0.50	7,550.0	796.2	1,225.2	10.00	9.05	-8.90	-78.37	
8,587.9	90.00	0.50	7,550.0	1,396.2	1,230.4	0.00	0.00	0.00	0.00	Woolley-Becky 2F-7H
9,587.9	90.00	0.50	7,550.0	2,396.1	1,239.1	0.00	0.00	0.00	0.00	
9,637.9	90.00	0.00	7,550.0	2,446.1	1,239.3	1.00	0.00	-1.00	-90.00	
9,687.9	90.00	0.00	7,550.0	2,496.1	1,239.3	0.00	0.00	0.00	0.00	
10,187.9	90.00	355.00	7,550.0	2,995.5	1,217.5	1.00	0.00	-1.00	-90.00	
12,187.9	90.00	355.00	7,550.0	4,987.9	1,043.2	0.00	0.00	0.00	0.00	
13,113.2	90.00	4.25	7,550.0	5,912.1	1,037.2	1.00	0.00	1.00	90.00	
14,369.9	90.00	4.25	7,550.0	7,165.4	1,130.4	0.00	0.00	0.00	0.00	Woolley-Becky 2F-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2F-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	KOP @ 300'
400.0	1.00	78.68	400.0	0.2	0.9	0.2	1.00	1.00	
422.0	1.22	78.68	422.0	0.3	1.3	0.3	1.00	1.00	Fox Hills - BASE
500.0	2.00	78.68	500.0	0.7	3.4	0.7	1.00	1.00	
600.0	3.00	78.68	599.9	1.5	7.7	1.5	1.00	1.00	
700.0	4.00	78.68	699.7	2.7	13.7	2.7	1.00	1.00	
800.0	5.00	78.68	799.4	4.3	21.4	4.3	1.00	1.00	
900.0	6.00	78.68	898.9	6.2	30.8	6.2	1.00	1.00	
1,000.0	7.00	78.68	998.3	8.4	41.9	8.4	1.00	1.00	
1,100.0	8.00	78.68	1,097.4	10.9	54.7	10.9	1.00	1.00	
1,200.0	9.00	78.68	1,196.3	13.8	69.2	13.8	1.00	1.00	
1,300.0	10.00	78.68	1,294.9	17.1	85.4	17.1	1.00	1.00	
1,348.6	10.49	78.68	1,342.7	18.8	93.8	18.8	1.00	1.00	EOB; Inc=10.49°
1,400.0	10.49	78.68	1,393.3	20.6	103.0	20.6	0.00	0.00	
1,500.0	10.49	78.68	1,491.6	24.2	120.8	24.2	0.00	0.00	
1,600.0	10.49	78.68	1,590.0	27.8	138.7	27.8	0.00	0.00	
1,700.0	10.49	78.68	1,688.3	31.3	156.5	31.3	0.00	0.00	
1,800.0	10.49	78.68	1,786.6	34.9	174.4	34.9	0.00	0.00	
1,900.0	10.49	78.68	1,884.9	38.5	192.2	38.5	0.00	0.00	
2,000.0	10.49	78.68	1,983.3	42.0	210.1	42.0	0.00	0.00	
2,100.0	10.49	78.68	2,081.6	45.6	227.9	45.6	0.00	0.00	
2,200.0	10.49	78.68	2,179.9	49.2	245.8	49.2	0.00	0.00	
2,300.0	10.49	78.68	2,278.3	52.8	263.6	52.8	0.00	0.00	
2,400.0	10.49	78.68	2,376.6	56.3	281.5	56.3	0.00	0.00	
2,500.0	10.49	78.68	2,474.9	59.9	299.3	59.9	0.00	0.00	
2,600.0	10.49	78.68	2,573.3	63.5	317.1	63.5	0.00	0.00	
2,700.0	10.49	78.68	2,671.6	67.0	335.0	67.0	0.00	0.00	
2,800.0	10.49	78.68	2,769.9	70.6	352.8	70.6	0.00	0.00	
2,900.0	10.49	78.68	2,868.2	74.2	370.7	74.2	0.00	0.00	
3,000.0	10.49	78.68	2,966.6	77.8	388.5	77.8	0.00	0.00	
3,100.0	10.49	78.68	3,064.9	81.3	406.4	81.3	0.00	0.00	
3,200.0	10.49	78.68	3,163.2	84.9	424.2	84.9	0.00	0.00	
3,300.0	10.49	78.68	3,261.6	88.5	442.1	88.5	0.00	0.00	
3,400.0	10.49	78.68	3,359.9	92.0	459.9	92.0	0.00	0.00	
3,500.0	10.49	78.68	3,458.2	95.6	477.8	95.6	0.00	0.00	
3,600.0	10.49	78.68	3,556.6	99.2	495.6	99.2	0.00	0.00	
3,700.0	10.49	78.68	3,654.9	102.8	513.4	102.8	0.00	0.00	
3,800.0	10.49	78.68	3,753.2	106.3	531.3	106.3	0.00	0.00	
3,900.0	10.49	78.68	3,851.5	109.9	549.1	109.9	0.00	0.00	
4,000.0	10.49	78.68	3,949.9	113.5	567.0	113.5	0.00	0.00	
4,100.0	10.49	78.68	4,048.2	117.0	584.8	117.0	0.00	0.00	
4,200.0	10.49	78.68	4,146.5	120.6	602.7	120.6	0.00	0.00	
4,300.0	10.49	78.68	4,244.9	124.2	620.5	124.2	0.00	0.00	
4,400.0	10.49	78.68	4,343.2	127.8	638.4	127.8	0.00	0.00	
4,500.0	10.49	78.68	4,441.5	131.3	656.2	131.3	0.00	0.00	
4,561.5	10.49	78.68	4,502.0	133.5	667.2	133.5	0.00	0.00	Sussex
4,600.0	10.49	78.68	4,539.9	134.9	674.1	134.9	0.00	0.00	
4,700.0	10.49	78.68	4,638.2	138.5	691.9	138.5	0.00	0.00	
4,800.0	10.49	78.68	4,736.5	142.0	709.7	142.0	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2F-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
4,846.3	10.49	78.68	4,782.0	143.7	718.0	143.7	0.00	0.00	Sussex Marker
4,900.0	10.49	78.68	4,834.8	145.6	727.6	145.6	0.00	0.00	
5,000.0	10.49	78.68	4,933.2	149.2	745.4	149.2	0.00	0.00	
5,100.0	10.49	78.68	5,031.5	152.8	763.3	152.8	0.00	0.00	
5,148.3	10.49	78.68	5,079.0	154.5	771.9	154.5	0.00	0.00	Shannon
5,200.0	10.49	78.68	5,129.8	156.3	781.1	156.3	0.00	0.00	
5,300.0	10.49	78.68	5,228.2	159.9	799.0	159.9	0.00	0.00	
5,400.0	10.49	78.68	5,326.5	163.5	816.8	163.5	0.00	0.00	
5,500.0	10.49	78.68	5,424.8	167.0	834.7	167.0	0.00	0.00	
5,600.0	10.49	78.68	5,523.2	170.6	852.5	170.6	0.00	0.00	
5,700.0	10.49	78.68	5,621.5	174.2	870.4	174.2	0.00	0.00	
5,800.0	10.49	78.68	5,719.8	177.8	888.2	177.8	0.00	0.00	
5,900.0	10.49	78.68	5,818.1	181.3	906.0	181.3	0.00	0.00	
6,000.0	10.49	78.68	5,916.5	184.9	923.9	184.9	0.00	0.00	
6,100.0	10.49	78.68	6,014.8	188.5	941.7	188.5	0.00	0.00	
6,200.0	10.49	78.68	6,113.1	192.0	959.6	192.0	0.00	0.00	
6,300.0	10.49	78.68	6,211.5	195.6	977.4	195.6	0.00	0.00	
6,400.0	10.49	78.68	6,309.8	199.2	995.3	199.2	0.00	0.00	
6,500.0	10.49	78.68	6,408.1	202.8	1,013.1	202.8	0.00	0.00	
6,593.4	10.49	78.68	6,500.0	206.1	1,029.8	206.1	0.00	0.00	Teepee Buttes (*if present)
6,600.0	10.49	78.68	6,506.5	206.3	1,031.0	206.3	0.00	0.00	
6,700.0	10.49	78.68	6,604.8	209.9	1,048.8	209.9	0.00	0.00	
6,800.0	10.49	78.68	6,703.1	213.5	1,066.7	213.5	0.00	0.00	
6,900.0	10.49	78.68	6,801.4	217.0	1,084.5	217.0	0.00	0.00	
7,000.0	10.49	78.68	6,899.8	220.6	1,102.3	220.6	0.00	0.00	
7,100.0	10.49	78.68	6,998.1	224.2	1,120.2	224.2	0.00	0.00	
7,109.3	10.49	78.68	7,007.2	224.5	1,121.8	224.5	0.00	0.00	Start build/turn @ 7109' MD
7,200.0	15.16	42.47	7,095.8	234.9	1,138.0	234.9	10.00	5.15	
7,300.0	23.46	25.17	7,190.2	262.6	1,155.3	262.6	10.00	8.30	
7,400.0	32.69	16.90	7,278.3	306.6	1,171.7	306.6	10.00	9.23	
7,500.0	42.25	12.01	7,357.6	365.5	1,186.6	365.5	10.00	9.55	
7,600.0	51.94	8.65	7,425.6	437.4	1,199.5	437.4	10.00	9.70	
7,608.8	52.80	8.40	7,431.0	444.3	1,200.5	444.3	10.00	9.74	Sharon Springs
7,700.0	61.71	6.10	7,480.3	520.4	1,210.1	520.4	10.00	9.77	
7,723.5	64.01	5.57	7,491.0	541.1	1,212.2	541.1	10.00	9.80	Niobrara
7,800.0	71.52	3.97	7,519.9	611.7	1,218.1	611.7	10.00	9.81	
7,879.8	79.37	2.45	7,540.0	688.8	1,222.4	688.8	10.00	9.83	B Chalk
7,900.0	81.35	2.08	7,543.4	708.6	1,223.2	708.6	10.00	9.84	
7,987.9	90.00	0.50	7,550.0	796.2	1,225.2	796.2	10.00	9.84	LP @ 7550' TVD; 90°
8,000.0	90.00	0.50	7,550.0	808.3	1,225.3	808.3	0.00	0.00	
8,100.0	90.00	0.50	7,550.0	908.3	1,226.1	908.3	0.00	0.00	
8,200.0	90.00	0.50	7,550.0	1,008.3	1,227.0	1,008.3	0.00	0.00	
8,300.0	90.00	0.50	7,550.0	1,108.3	1,227.9	1,108.3	0.00	0.00	
8,400.0	90.00	0.50	7,550.0	1,208.3	1,228.8	1,208.3	0.00	0.00	
8,500.0	90.00	0.50	7,550.0	1,308.3	1,229.6	1,308.3	0.00	0.00	
8,587.9	90.00	0.50	7,550.0	1,396.2	1,230.4	1,396.2	0.00	0.00	
8,600.0	90.00	0.50	7,550.0	1,408.2	1,230.5	1,408.2	0.00	0.00	
8,700.0	90.00	0.50	7,550.0	1,508.2	1,231.4	1,508.2	0.00	0.00	
8,800.0	90.00	0.50	7,550.0	1,608.2	1,232.3	1,608.2	0.00	0.00	
8,900.0	90.00	0.50	7,550.0	1,708.2	1,233.1	1,708.2	0.00	0.00	
9,000.0	90.00	0.50	7,550.0	1,808.2	1,234.0	1,808.2	0.00	0.00	
9,100.0	90.00	0.50	7,550.0	1,908.2	1,234.9	1,908.2	0.00	0.00	

Cathedral Energy Services

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2F-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
9,200.0	90.00	0.50	7,550.0	2,008.2	1,235.7	2,008.2	0.00	0.00	
9,300.0	90.00	0.50	7,550.0	2,108.2	1,236.6	2,108.2	0.00	0.00	
9,400.0	90.00	0.50	7,550.0	2,208.2	1,237.5	2,208.2	0.00	0.00	
9,500.0	90.00	0.50	7,550.0	2,308.2	1,238.4	2,308.2	0.00	0.00	
9,587.9	90.00	0.50	7,550.0	2,396.1	1,239.1	2,396.1	0.00	0.00	Start Turn -1.00
9,600.0	90.00	0.38	7,550.0	2,408.2	1,239.2	2,408.2	1.00	0.00	
9,637.9	90.00	0.00	7,550.0	2,446.1	1,239.3	2,446.1	1.00	0.00	End of turn @ 9637' MD
9,687.9	90.00	0.00	7,550.0	2,496.1	1,239.3	2,496.1	0.00	0.00	Start Turn -1.00
9,700.0	90.00	359.88	7,550.0	2,508.2	1,239.3	2,508.2	1.00	0.00	
9,800.0	90.00	358.88	7,550.0	2,608.2	1,238.2	2,608.2	1.00	0.00	
9,900.0	90.00	357.88	7,550.0	2,708.2	1,235.4	2,708.2	1.00	0.00	
10,000.0	90.00	356.88	7,550.0	2,808.1	1,230.8	2,808.1	1.00	0.00	
10,100.0	90.00	355.88	7,550.0	2,907.9	1,224.5	2,907.9	1.00	0.00	
10,187.9	90.00	355.00	7,550.0	2,995.5	1,217.5	2,995.5	1.00	0.00	End of turn @ 10187' MD
10,200.0	90.00	355.00	7,550.0	3,007.5	1,216.5	3,007.5	0.00	0.00	
10,300.0	90.00	355.00	7,550.0	3,107.1	1,207.8	3,107.1	0.00	0.00	
10,400.0	90.00	355.00	7,550.0	3,206.8	1,199.1	3,206.8	0.00	0.00	
10,500.0	90.00	355.00	7,550.0	3,306.4	1,190.3	3,306.4	0.00	0.00	
10,600.0	90.00	355.00	7,550.0	3,406.0	1,181.6	3,406.0	0.00	0.00	
10,700.0	90.00	355.00	7,550.0	3,505.6	1,172.9	3,505.6	0.00	0.00	
10,800.0	90.00	355.00	7,550.0	3,605.2	1,164.2	3,605.2	0.00	0.00	
10,900.0	90.00	355.00	7,550.0	3,704.9	1,155.5	3,704.9	0.00	0.00	
11,000.0	90.00	355.00	7,550.0	3,804.5	1,146.8	3,804.5	0.00	0.00	
11,100.0	90.00	355.00	7,550.0	3,904.1	1,138.0	3,904.1	0.00	0.00	
11,200.0	90.00	355.00	7,550.0	4,003.7	1,129.3	4,003.7	0.00	0.00	
11,300.0	90.00	355.00	7,550.0	4,103.3	1,120.6	4,103.3	0.00	0.00	
11,400.0	90.00	355.00	7,550.0	4,203.0	1,111.9	4,203.0	0.00	0.00	
11,500.0	90.00	355.00	7,550.0	4,302.6	1,103.2	4,302.6	0.00	0.00	
11,600.0	90.00	355.00	7,550.0	4,402.2	1,094.5	4,402.2	0.00	0.00	
11,700.0	90.00	355.00	7,550.0	4,501.8	1,085.8	4,501.8	0.00	0.00	
11,800.0	90.00	355.00	7,550.0	4,601.4	1,077.0	4,601.4	0.00	0.00	
11,900.0	90.00	355.00	7,550.0	4,701.1	1,068.3	4,701.1	0.00	0.00	
12,000.0	90.00	355.00	7,550.0	4,800.7	1,059.6	4,800.7	0.00	0.00	
12,100.0	90.00	355.00	7,550.0	4,900.3	1,050.9	4,900.3	0.00	0.00	
12,187.9	90.00	355.00	7,550.0	4,987.9	1,043.2	4,987.9	0.00	0.00	Start turn @ 12187' MD
12,200.0	90.00	355.12	7,550.0	4,999.9	1,042.2	4,999.9	1.00	0.00	
12,300.0	90.00	356.12	7,550.0	5,099.6	1,034.6	5,099.6	1.00	0.00	
12,400.0	90.00	357.12	7,550.0	5,199.5	1,028.7	5,199.5	1.00	0.00	
12,500.0	90.00	358.12	7,550.0	5,299.4	1,024.5	5,299.4	1.00	0.00	
12,600.0	90.00	359.12	7,550.0	5,399.3	1,022.1	5,399.3	1.00	0.00	
12,700.0	90.00	0.12	7,550.0	5,499.3	1,021.4	5,499.3	1.00	0.00	
12,800.0	90.00	1.12	7,550.0	5,599.3	1,022.5	5,599.3	1.00	0.00	
12,900.0	90.00	2.12	7,550.0	5,699.3	1,025.4	5,699.3	1.00	0.00	
13,000.0	90.00	3.12	7,550.0	5,799.2	1,029.9	5,799.2	1.00	0.00	
13,100.0	90.00	4.12	7,550.0	5,899.0	1,036.2	5,899.0	1.00	0.00	
13,113.2	90.00	4.25	7,550.0	5,912.1	1,037.2	5,912.1	1.00	0.00	End of turn @ 13113' MD
13,200.0	90.00	4.25	7,550.0	5,998.7	1,043.6	5,998.7	0.00	0.00	
13,300.0	90.00	4.25	7,550.0	6,098.4	1,051.1	6,098.4	0.00	0.00	
13,400.0	90.00	4.25	7,550.0	6,198.2	1,058.5	6,198.2	0.00	0.00	
13,500.0	90.00	4.25	7,550.0	6,297.9	1,065.9	6,297.9	0.00	0.00	
13,600.0	90.00	4.25	7,550.0	6,397.6	1,073.3	6,397.6	0.00	0.00	
13,700.0	90.00	4.25	7,550.0	6,497.3	1,080.7	6,497.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2F-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
13,800.0	90.00	4.25	7,550.0	6,597.0	1,088.1	6,597.0	0.00	0.00	
13,900.0	90.00	4.25	7,550.0	6,696.8	1,095.5	6,696.8	0.00	0.00	
14,000.0	90.00	4.25	7,550.0	6,796.5	1,103.0	6,796.5	0.00	0.00	
14,100.0	90.00	4.25	7,550.0	6,896.2	1,110.4	6,896.2	0.00	0.00	
14,200.0	90.00	4.25	7,550.0	6,995.9	1,117.8	6,995.9	0.00	0.00	
14,300.0	90.00	4.25	7,550.0	7,095.7	1,125.2	7,095.7	0.00	0.00	
14,369.9	90.00	4.25	7,550.0	7,165.4	1,130.4	7,165.4	0.00	0.00	TD at 14369.9

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
- Shape									Latitude Longitude
Woolley-Becky 2F-7H-E	- plan hits target center	0.00	0.00	7,550.0	1,396.2	1,230.4	1,268,860.63	3,126,352.05	40.070523 -105.048544
- Point									
Woolley-Becky 2F-7H-E	- plan hits target center	0.00	0.00	7,550.0	7,165.4	1,130.4	1,274,629.26	3,126,222.96	40.086360 -105.048900
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
422.0	422.0	Fox Hills - BASE				
4,561.5	4,502.0	Sussex				
4,846.3	4,782.0	Sussex Marker				
5,148.3	5,079.0	Shannon				
6,593.4	6,500.0	Teepee Buttes (*if present)				
7,608.8	7,431.0	Sharon Springs				
7,723.5	7,491.0	Niobrara				
7,879.8	7,540.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	0.0	0.0	KOP @ 300'	
1,348.6	1,342.7	18.8	93.8	EOB; Inc=10.49°	
7,109.3	7,007.2	224.5	1,121.8	Start build/turn @ 7109' MD	
7,987.9	7,550.0	796.2	1,225.2	LP @ 7550' TVD; 90°	
9,587.9	7,550.0	1,396.2	1,230.4	Start Turn -1.00	
9,637.9	7,550.0	2,396.1	1,239.1	End of turn @ 9637' MD	
9,687.9	7,550.0	2,446.1	1,239.3	Start Turn -1.00	
10,187.9	7,550.0	2,496.1	1,239.3	End of turn @ 10187' MD	
12,187.9	7,550.0	2,995.5	1,217.5	Start turn @ 12187' MD	
13,113.2	7,550.0	4,987.9	1,043.2	End of turn @ 13113' MD	
14,369.9	7,550.0	5,912.1	1,037.2	TD at 14369.9	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2F-7H-E168

Hz

Plan #2

Anticollision Report

22 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	7/15/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,369.9	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	11,060.1	7,505.3	353.1	271.1	4.306	CC, ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,100.0	7,505.8	355.3	272.6	4.297	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	11,609.4	7,498.1	77.4	-14.0	0.847	Level 1, CC, ES, SF
BEARDEN 24-6 (EXISTING) - ENCANA WELL - PLAN O						Out of range
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O						Out of range
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BECKY 1 (EXISTING) - FOUNDATION WELL - NO SUR						Out of range
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,520.1	7,488.0	478.0	350.5	3.749	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	12,844.6	7,489.0	259.2	144.1	2.252	CC, ES, 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 UNIT 1 (EXISTING) - EXISTING - EXISTING						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	300.0	373.0	294.7	293.5	260.503	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	2,200.0	2,252.9	490.9	482.7	59.282	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	8,860.8	7,593.9	197.2	150.4	4.215	CC, ES, SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,298.6	7,447.8	112.5	69.5	2.616	CC
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,300.0	7,449.1	112.5	69.5	2.615	ES, SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,393.4	4,681.5	192.7	154.2	5.011	CC
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,400.0	4,687.1	192.7	154.2	5.006	ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,422.3	7,663.0	365.1	305.6	6.140	CC, ES, SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY						Out of range
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	200.0	198.0	34.4	33.8	56.582	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	500.0	495.8	45.2	43.6	27.398	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #1	300.0	298.0	28.0	27.0	29.263	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #1	500.0	497.2	33.8	32.1	20.400	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #2	300.0	299.0	26.2	25.3	27.366	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #2	800.0	799.9	44.6	41.9	16.497	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #2	300.0	299.0	19.6	18.6	20.447	CC, ES

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky)						
Woolley-Becky 2D-7H-E168 - Hz - Plan #2	1,000.0	1,001.4	40.6	37.2	11.945	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	300.0	299.0	7.8	6.8	8.145	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,369.9	14,807.8	440.7	234.0	2.132	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	233.8	233.8	9.2	8.5	12.606	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	300.0	299.9	9.3	8.4	9.741	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	14,369.9	14,752.0	434.0	222.0	2.047	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	200.0	200.0	11.2	10.6	18.327	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	1,400.0	1,395.1	39.0	33.5	7.146	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	200.0	197.0	100.7	100.1	166.218	CC, ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	1,000.0	982.1	178.6	175.1	50.959	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	300.0	297.0	95.3	94.4	99.872	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	1,100.0	1,089.3	166.6	162.7	42.386	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	300.0	297.0	90.7	89.8	95.009	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	1,300.0	1,295.5	162.7	158.0	34.194	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	300.0	297.0	85.4	84.4	89.401	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	4,300.0	4,280.6	493.5	473.8	24.992	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #2	300.0	297.0	70.8	69.9	74.175	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #2	7,700.0	7,624.0	498.0	465.9	15.515	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	300.0	297.0	65.4	64.4	68.462	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	500.0	499.0	65.7	64.1	39.671	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	7,664.8	7,617.5	138.8	106.7	4.330	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	1,200.6	1,206.2	50.0	45.6	11.341	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	1,700.0	1,707.0	50.6	42.4	6.163	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	2,200.0	2,206.0	63.7	50.9	4.982	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,800.0	7,550.0	7,502.6	7,500.1	69.3	13.3	-89.36	3,833.5	789.8	438.5	361.0	77.49	5.658	
10,900.0	7,550.0	7,503.6	7,501.1	70.9	13.3	-89.54	3,833.5	789.8	387.6	308.4	79.23	4.893	
11,000.0	7,550.0	7,504.7	7,502.2	72.5	13.3	-89.71	3,833.5	789.8	358.1	277.2	80.96	4.424	
11,060.1	7,550.0	7,505.3	7,502.9	73.5	13.3	-89.82	3,833.5	789.8	353.1	271.1	82.00	4.306 CC, ES	
11,100.0	7,550.0	7,505.8	7,503.3	74.1	13.3	-89.89	3,833.5	789.8	355.3	272.6	82.69	4.297 SF	
11,200.0	7,550.0	7,506.9	7,504.4	75.7	13.3	-90.06	3,833.6	789.8	379.8	295.4	84.43	4.498	
11,300.0	7,550.0	7,507.9	7,505.5	77.4	13.3	-90.24	3,833.6	789.8	426.9	340.7	86.16	4.954	
11,400.0	7,550.0	7,509.0	7,506.5	79.0	13.3	-90.41	3,833.6	789.8	490.1	402.2	87.90	5.576	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		
11,200.0	7,550.0	7,478.0	7,475.9	75.7	13.3	74.74	4,417.3	1,170.6	416.1	334.5	81.64	5.097		
11,300.0	7,550.0	7,482.7	7,480.6	77.4	13.3	78.03	4,417.5	1,170.6	318.5	234.2	84.36	3.776		
11,400.0	7,550.0	7,487.6	7,485.4	79.0	13.3	81.50	4,417.8	1,170.7	223.0	136.1	86.91	2.566		
11,500.0	7,550.0	7,492.5	7,490.4	80.6	13.3	85.12	4,418.0	1,170.7	133.9	44.7	89.22	1.501		
11,600.0	7,550.0	7,497.6	7,495.5	82.3	13.3	88.89	4,418.3	1,170.8	78.0	-13.2	91.23	0.855 Level 1		
11,609.4	7,550.0	7,498.1	7,496.0	82.4	13.3	89.25	4,418.3	1,170.8	77.4	-14.0	91.40	0.847 Level 1, CC, ES, SF		
11,700.0	7,550.0	7,502.8	7,500.7	83.9	13.4	92.74	4,418.6	1,170.8	119.1	26.2	92.88	1.282 Level 3		
11,800.0	7,550.0	7,508.0	7,505.9	85.6	13.4	96.56	4,418.8	1,170.9	205.5	111.3	94.15	2.183		
11,900.0	7,550.0	7,513.2	7,511.1	87.3	13.4	100.30	4,419.1	1,170.9	300.4	205.3	95.03	3.161		
12,000.0	7,550.0	7,518.4	7,516.3	88.9	13.4	103.93	4,419.4	1,170.9	397.7	302.1	95.55	4.162		
12,100.0	7,550.0	7,523.6	7,521.4	90.6	13.4	107.43	4,419.7	1,171.0	496.0	400.3	95.73	5.182		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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						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)				
13,400.0	7,550.0	7,488.0	7,488.0	112.9	13.1	-90.00	6,353.4	590.7	492.9	367.5	125.42	3.930		
13,500.0	7,550.0	7,488.0	7,488.0	114.6	13.1	-90.00	6,353.4	590.7	478.4	351.3	127.17	3.762		
13,520.1	7,550.0	7,488.0	7,488.0	114.9	13.1	-90.00	6,353.4	590.7	478.0	350.5	127.52	3.749	CC, ES, SF	
13,600.0	7,550.0	7,488.0	7,488.0	116.3	13.1	-90.00	6,353.4	590.7	484.6	355.7	128.91	3.759		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 (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					
12,500.0	7,550.0	7,489.0	7,489.0	97.3	13.1	90.00	5,636.9	1,282.7	424.9	316.9	108.05	3.933					
12,600.0	7,550.0	7,489.0	7,489.0	99.0	13.1	90.00	5,636.9	1,282.7	352.6	242.5	110.13	3.201					
12,700.0	7,550.0	7,489.0	7,489.0	100.7	13.1	90.00	5,636.9	1,282.7	295.2	183.0	112.19	2.631					
12,800.0	7,550.0	7,489.0	7,489.0	102.4	13.1	90.00	5,636.9	1,282.7	262.8	148.6	114.22	2.301					
12,844.6	7,550.0	7,489.0	7,489.0	103.2	13.1	90.00	5,636.9	1,282.7	259.2	144.1	115.12	2.252 CC, ES, SF					
12,900.0	7,550.0	7,489.0	7,489.0	104.2	13.1	90.00	5,636.9	1,282.7	264.8	148.6	116.23	2.278					
13,000.0	7,550.0	7,489.0	7,489.0	105.9	13.1	90.00	5,636.9	1,282.7	300.4	182.2	118.20	2.541					
13,100.0	7,550.0	7,489.0	7,489.0	107.6	13.1	90.00	5,636.9	1,282.7	359.8	239.6	120.15	2.994					
13,200.0	7,550.0	7,489.0	7,489.0	109.4	13.1	90.00	5,636.9	1,282.7	433.7	311.7	121.92	3.557					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	73.0	73.0	0.0	0.1	-49.53	191.2	-224.2	294.7						
100.0	100.0	173.0	173.0	0.1	0.3	-49.53	191.2	-224.2	294.7	294.2	0.43	680.476			
200.0	200.0	273.0	273.0	0.3	0.5	-49.53	191.2	-224.2	294.7	293.9	0.78	376.769			
300.0	300.0	373.0	373.0	0.5	0.7	-49.53	191.2	-224.2	294.7	293.5	1.13	260.503 CC, ES			
400.0	400.0	473.0	473.0	0.7	0.8	-128.35	191.2	-224.2	295.2	293.7	1.48	199.387			
500.0	500.0	573.0	573.0	0.8	1.0	-128.73	191.2	-224.2	296.8	295.0	1.83	162.029			
600.0	599.9	672.9	672.9	1.0	1.2	-129.36	191.2	-224.2	299.6	297.4	2.19	136.964			
700.0	699.7	772.7	772.7	1.2	1.3	-130.22	191.2	-224.2	303.5	301.0	2.55	119.100			
800.0	799.4	872.4	872.4	1.4	1.5	-131.29	191.2	-224.2	308.6	305.7	2.92	105.841			
900.0	898.9	971.9	971.9	1.7	1.7	-132.55	191.2	-224.2	315.1	311.8	3.29	95.730			
1,000.0	998.3	1,071.3	1,071.3	1.9	1.9	-133.97	191.2	-224.2	322.8	319.2	3.67	87.886			
1,100.0	1,097.4	1,170.4	1,170.4	2.2	2.0	-135.52	191.2	-224.2	332.1	328.0	4.06	81.742			
1,200.0	1,196.3	1,269.3	1,269.3	2.5	2.2	-137.17	191.2	-224.2	342.8	338.4	4.46	76.920			
1,300.0	1,294.9	1,367.9	1,367.9	2.8	2.4	-138.88	191.2	-224.2	355.2	350.3	4.86	73.150			
1,400.0	1,393.3	1,466.3	1,466.3	3.1	2.6	-140.67	191.2	-224.2	369.0	363.7	5.25	70.236			
1,500.0	1,491.6	1,564.6	1,564.6	3.5	2.7	-142.38	191.2	-224.2	383.3	377.7	5.65	67.865			
1,600.0	1,590.0	1,663.0	1,663.0	3.8	2.9	-143.97	191.2	-224.2	398.0	392.0	6.04	65.913			
1,700.0	1,688.3	1,761.3	1,761.3	4.2	3.1	-145.45	191.2	-224.2	412.9	406.5	6.42	64.291			
1,800.0	1,786.6	1,859.6	1,859.6	4.5	3.2	-146.82	191.2	-224.2	428.1	421.3	6.80	62.934			
1,900.0	1,884.9	1,957.9	1,957.9	4.9	3.4	-148.10	191.2	-224.2	443.5	436.4	7.18	61.791			
2,000.0	1,983.3	2,056.3	2,056.3	5.2	3.6	-149.30	191.2	-224.2	459.2	451.6	7.55	60.821			
2,100.0	2,081.6	2,154.6	2,154.6	5.6	3.8	-150.42	191.2	-224.2	475.0	467.1	7.92	59.993			
2,200.0	2,179.9	2,252.9	2,252.9	6.0	3.9	-151.46	191.2	-224.2	490.9	482.7	8.28	59.282 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 - GYRO		Offset Site Error:		0.0 ft	
Survey Program: 100-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)								
8,500.0	7,550.0	7,584.3	7,581.6	35.2	13.3	-89.30	1,670.5	1,035.3	411.1	370.1	40.99	10.029						
8,600.0	7,550.0	7,587.0	7,584.4	36.4	13.3	-90.10	1,670.6	1,035.4	326.9	284.4	42.59	7.677						
8,700.0	7,550.0	7,589.7	7,587.0	37.7	13.3	-90.88	1,670.7	1,035.5	254.5	210.3	44.20	5.758						
8,800.0	7,550.0	7,592.3	7,589.6	39.1	13.3	-91.64	1,670.8	1,035.6	206.4	160.6	45.81	4.505						
8,860.8	7,550.0	7,593.9	7,591.2	39.9	13.3	-92.09	1,670.8	1,035.7	197.2	150.4	46.80	4.215	CC, ES, SF					
8,900.0	7,550.0	7,594.9	7,592.2	40.4	13.3	-92.37	1,670.8	1,035.7	201.1	153.6	47.43	4.239						
9,000.0	7,550.0	7,597.3	7,594.6	41.8	13.3	-93.09	1,670.9	1,035.8	241.4	192.3	49.06	4.920						
9,100.0	7,550.0	7,600.0	7,597.3	43.2	13.3	-93.86	1,671.0	1,035.9	309.9	259.3	50.68	6.116						
9,200.0	7,550.0	7,602.2	7,599.5	44.7	13.3	-94.50	1,671.0	1,036.0	392.2	339.9	52.31	7.499						
9,300.0	7,550.0	7,604.6	7,601.9	46.2	13.3	-95.21	1,671.1	1,036.1	481.3	427.4	53.93	8.925						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		
5,100.0	5,031.5	5,294.4	5,074.6	16.5	26.3	-1.93	264.7	1,240.5	490.2	455.5	34.70	14.128		
5,200.0	5,129.8	5,392.2	5,171.3	16.9	26.6	-0.26	250.8	1,242.6	471.0	435.8	35.18	13.387		
5,300.0	5,228.2	5,491.1	5,269.5	17.2	26.8	1.29	238.7	1,243.9	451.9	416.2	35.63	12.681		
5,400.0	5,326.5	5,590.2	5,368.1	17.6	27.0	2.62	229.2	1,244.5	432.7	396.7	36.04	12.008		
5,500.0	5,424.8	5,685.3	5,463.0	18.0	27.2	3.68	222.5	1,244.7	413.8	377.4	36.39	11.369		
5,600.0	5,523.2	5,777.7	5,555.2	18.3	27.3	4.44	218.4	1,245.6	396.0	359.4	36.69	10.795		
5,700.0	5,621.5	5,887.6	5,665.1	18.7	27.4	4.84	217.4	1,245.6	377.8	340.8	36.95	10.224		
5,800.0	5,719.8	5,980.6	5,758.1	19.1	27.4	5.07	217.3	1,244.6	358.6	321.4	37.20	9.639		
5,900.0	5,818.1	6,075.2	5,852.8	19.4	27.5	5.39	217.0	1,244.9	340.7	303.3	37.45	9.098		
6,000.0	5,916.5	6,173.8	5,951.3	19.8	27.6	5.71	217.0	1,245.6	323.3	285.6	37.70	8.576		
6,100.0	6,014.8	6,271.7	6,049.3	20.2	27.6	5.95	217.5	1,246.2	305.9	267.9	37.95	8.061		
6,200.0	6,113.1	6,369.0	6,146.6	20.5	27.7	6.25	218.0	1,247.2	288.8	250.6	38.20	7.560		
6,300.0	6,211.5	6,468.0	6,245.5	20.9	27.7	6.61	218.4	1,248.4	271.9	233.5	38.45	7.072		
6,400.0	6,309.8	6,567.6	6,345.1	21.3	27.8	7.03	218.7	1,249.2	254.7	216.0	38.71	6.580		
6,500.0	6,408.1	6,666.0	6,443.6	21.6	27.9	7.50	219.0	1,249.9	237.3	198.3	38.98	6.088		
6,600.0	6,506.5	6,764.4	6,541.9	22.0	28.0	8.09	219.2	1,250.5	219.9	180.7	39.26	5.603		
6,700.0	6,604.8	6,862.7	6,640.2	22.4	28.0	8.82	219.2	1,251.3	202.7	163.1	39.54	5.125		
6,800.0	6,703.1	6,961.0	6,738.5	22.7	28.1	9.73	219.1	1,252.1	185.5	145.7	39.84	4.656		
6,900.0	6,801.4	7,059.3	6,836.8	23.1	28.2	10.86	218.9	1,253.0	168.5	128.4	40.16	4.196		
7,000.0	6,899.8	7,157.4	6,934.9	23.5	28.3	12.30	218.5	1,254.0	151.7	111.2	40.51	3.746		
7,100.0	6,998.1	7,255.4	7,032.9	23.8	28.4	14.36	217.4	1,255.4	135.4	94.5	40.90	3.310		
7,200.0	7,095.8	7,353.9	7,131.4	24.2	28.5	17.31	216.1	1,256.8	120.3	78.5	41.81	2.877		
7,298.6	7,188.9	7,447.8	7,225.3	24.7	28.6	19.23	215.2	1,257.4	112.5	69.5	43.03	2.616 CC		
7,300.0	7,190.2	7,449.1	7,226.6	24.7	28.6	19.64	215.2	1,257.4	112.5	69.5	43.03	2.615 ES, SF		
7,400.0	7,278.3	7,538.2	7,315.7	25.2	28.6	116.14	214.7	1,257.1	125.5	83.5	41.93	2.992		
7,500.0	7,357.6	7,618.1	7,395.5	25.8	28.7	134.94	214.5	1,256.1	166.2	128.0	38.23	4.349		
7,600.0	7,425.6	7,685.6	7,463.0	26.4	28.8	146.03	214.3	1,254.9	229.9	195.8	34.11	6.740		
7,700.0	7,480.3	7,739.8	7,517.3	27.1	28.8	151.75	214.2	1,254.2	309.3	278.7	30.61	10.104		
7,800.0	7,519.9	7,779.2	7,556.6	27.9	28.8	153.15	214.1	1,253.7	399.1	370.7	28.48	14.014		
7,900.0	7,543.4	7,802.5	7,579.9	28.8	28.9	146.79	214.1	1,253.5	495.5	465.0	30.46	16.269		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		
3,500.0	3,458.2	3,919.2	3,659.5	10.7	23.7	-27.85	380.3	854.5	499.9	476.3	23.67	21.118		
3,600.0	3,556.6	4,001.7	3,734.5	11.0	24.3	-25.73	347.1	847.2	452.8	428.1	24.71	18.326		
3,700.0	3,654.9	4,087.7	3,812.8	11.4	24.9	-22.87	312.0	840.9	407.0	381.1	25.92	15.705		
3,800.0	3,753.2	4,171.5	3,888.8	11.8	25.6	-19.29	277.0	835.2	362.2	334.9	27.27	13.280		
3,900.0	3,851.5	4,253.5	3,962.9	12.1	26.2	-14.62	242.1	831.7	320.7	291.9	28.82	11.127		
4,000.0	3,949.9	4,339.7	4,040.8	12.5	26.9	-8.49	205.3	828.3	282.2	251.6	30.62	9.218		
4,100.0	4,048.2	4,427.6	4,120.4	12.9	27.5	-0.75	168.3	825.1	248.2	215.5	32.64	7.603		
4,200.0	4,146.5	4,517.2	4,200.1	13.2	28.3	9.81	127.5	821.0	219.1	184.1	35.02	6.257		
4,300.0	4,244.9	4,602.8	4,275.4	13.6	29.0	22.27	87.1	816.1	199.1	161.9	37.20	5.352		
4,393.4	4,336.7	4,681.5	4,344.9	13.9	29.7	34.74	50.4	811.4	192.7	154.2	38.45	5.011 CC		
4,400.0	4,343.2	4,687.1	4,349.9	14.0	29.7	35.62	47.9	811.1	192.7	154.2	38.50	5.006 ES, SF		
4,500.0	4,441.5	4,775.8	4,429.7	14.3	30.4	48.76	9.3	807.1	200.1	161.6	38.43	5.206		
4,600.0	4,539.9	4,870.4	4,516.6	14.7	31.0	60.59	-27.8	803.4	216.4	179.3	37.14	5.828		
4,700.0	4,638.2	4,968.6	4,608.2	15.1	31.6	70.59	-62.8	799.4	237.8	202.6	35.19	6.757		
4,800.0	4,736.5	5,065.5	4,699.7	15.4	32.2	78.71	-94.1	794.4	261.5	228.4	33.14	7.892		
4,900.0	4,834.8	5,168.2	4,797.8	15.8	32.7	85.58	-124.6	789.9	287.0	255.8	31.17	9.208		
5,000.0	4,933.2	5,273.5	4,899.5	16.2	33.2	91.17	-151.2	785.8	311.2	281.7	29.55	10.531		
5,100.0	5,031.5	5,384.9	5,008.5	16.5	33.6	95.96	-174.1	782.3	332.8	304.5	28.28	11.770		
5,200.0	5,129.8	5,488.4	5,110.5	16.9	33.9	99.72	-191.6	779.6	352.4	324.9	27.51	12.812		
5,300.0	5,228.2	5,601.4	5,222.2	17.2	34.2	103.41	-207.6	776.4	370.7	343.7	26.99	13.736		
5,400.0	5,326.5	5,707.9	5,328.1	17.6	34.4	106.62	-218.2	773.3	385.8	359.0	26.85	14.371		
5,500.0	5,424.8	5,820.5	5,440.4	18.0	34.6	109.77	-225.9	770.3	398.8	371.8	26.99	14.775		
5,600.0	5,523.2	5,928.1	5,548.0	18.3	34.7	112.51	-230.1	768.6	409.6	382.2	27.40	14.947		
5,700.0	5,621.5	6,035.6	5,655.4	18.7	34.8	115.21	-231.7	766.6	418.9	390.9	28.00	14.964		
5,800.0	5,719.8	6,135.4	5,755.3	19.1	34.8	117.66	-231.6	764.8	427.6	398.9	28.70	14.899		
5,900.0	5,818.1	6,232.8	5,852.6	19.4	34.9	119.94	-231.5	763.1	436.9	407.4	29.46	14.829		
6,000.0	5,916.5	6,330.3	5,950.1	19.8	35.0	122.12	-231.6	761.4	447.1	416.8	30.27	14.769		
6,100.0	6,014.8	6,428.5	6,048.3	20.2	35.0	124.21	-231.8	759.8	457.9	426.8	31.10	14.723		
6,200.0	6,113.1	6,527.9	6,147.7	20.5	35.1	126.22	-231.9	758.2	469.3	437.3	31.94	14.692		
6,300.0	6,211.5	6,629.4	6,249.2	20.9	35.1	128.13	-231.6	757.2	480.6	447.8	32.78	14.663		
6,400.0	6,309.8	6,727.8	6,347.6	21.3	35.2	129.88	-231.0	756.6	491.9	458.3	33.57	14.652		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 4-0-7 (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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,550.0	7,655.5	7,574.3	43.2	19.3	88.01	2,227.1	1,602.6	486.9	432.8	54.07	9.005	
9,200.0	7,550.0	7,657.8	7,576.6	44.7	19.3	88.38	2,227.2	1,602.6	427.4	371.6	55.73	7.668	
9,300.0	7,550.0	7,660.2	7,579.0	46.2	19.3	88.74	2,227.2	1,602.7	385.0	327.6	57.41	6.706	
9,400.0	7,550.0	7,662.5	7,581.3	47.6	19.3	89.11	2,227.3	1,602.7	365.7	306.7	59.08	6.190	
9,422.3	7,550.0	7,663.0	7,581.9	48.0	19.3	89.19	2,227.3	1,602.7	365.1	305.6	59.46	6.140 CC, ES, SF	
9,500.0	7,550.0	7,664.9	7,583.7	49.1	19.3	89.48	2,227.3	1,602.7	373.3	312.5	60.77	6.143	
9,600.0	7,550.0	7,667.2	7,586.1	50.7	19.3	89.85	2,227.4	1,602.8	406.0	343.6	62.40	6.507	
9,700.0	7,550.0	7,669.6	7,588.5	52.2	19.3	90.23	2,227.4	1,602.8	459.3	395.4	63.85	7.193	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-102.24	-7.3	-33.6	34.4					
100.0	100.0	98.0	98.0	0.1	0.1	-102.24	-7.3	-33.6	34.4	34.1	0.26	132.597		
200.0	200.0	198.0	198.0	0.3	0.3	-102.24	-7.3	-33.6	34.4	33.8	0.61	56.582 CC, ES		
300.0	300.0	297.4	297.4	0.5	0.5	-102.65	-7.7	-34.3	35.2	34.2	0.96	36.773		
400.0	400.0	396.8	396.7	0.7	0.7	177.56	-9.0	-36.5	38.5	37.2	1.30	29.525		
500.0	500.0	495.8	495.7	0.8	0.8	176.19	-11.1	-40.2	45.2	43.6	1.65	27.398 SF		
600.0	599.9	594.5	594.2	1.0	1.0	174.89	-14.1	-45.3	55.4	53.4	2.00	27.736		
700.0	699.7	693.8	693.3	1.2	1.2	174.60	-16.8	-51.4	68.1	65.8	2.34	29.066		
800.0	799.4	793.0	792.2	1.4	1.4	175.69	-17.8	-57.7	82.2	79.5	2.69	30.606		
900.0	898.9	891.7	890.8	1.7	1.6	176.96	-18.0	-64.0	98.0	95.0	3.03	32.351		
1,000.0	998.3	990.2	989.0	1.9	1.8	177.91	-18.3	-70.3	115.5	112.1	3.37	34.278		
1,100.0	1,097.4	1,088.3	1,086.9	2.2	2.0	178.62	-18.6	-76.5	134.7	131.0	3.71	36.337		
1,200.0	1,196.3	1,186.0	1,184.5	2.5	2.2	179.17	-18.8	-82.8	155.7	151.7	4.05	38.495		
1,300.0	1,294.9	1,283.4	1,281.7	2.8	2.4	179.59	-19.1	-89.0	178.4	174.0	4.38	40.732		
1,400.0	1,393.3	1,380.5	1,378.5	3.1	2.6	179.92	-19.3	-95.2	202.6	197.9	4.72	42.940		
1,500.0	1,491.6	1,477.4	1,475.3	3.5	2.8	-179.82	-19.6	-101.4	227.0	221.9	5.06	44.857		
1,600.0	1,590.0	1,574.4	1,572.1	3.8	3.0	-179.61	-19.9	-107.6	251.3	245.9	5.40	46.531		
1,700.0	1,688.3	1,671.4	1,668.9	4.2	3.2	-179.44	-20.1	-113.8	275.7	270.0	5.74	48.007		
1,800.0	1,786.6	1,768.4	1,765.6	4.5	3.4	-179.30	-20.4	-120.0	300.1	294.0	6.08	49.317		
1,900.0	1,884.9	1,865.4	1,862.4	4.9	3.6	-179.18	-20.6	-126.2	324.5	318.0	6.43	50.488		
2,000.0	1,983.3	1,962.3	1,959.2	5.2	3.8	-179.07	-20.9	-132.3	348.9	342.1	6.77	51.540		
2,100.0	2,081.6	2,059.3	2,056.0	5.6	4.0	-178.98	-21.1	-138.5	373.2	366.1	7.11	52.492		
2,200.0	2,179.9	2,156.3	2,152.8	6.0	4.2	-178.90	-21.4	-144.7	397.6	390.2	7.45	53.356		
2,300.0	2,278.3	2,253.3	2,249.5	6.3	4.4	-178.83	-21.7	-150.9	422.0	414.2	7.79	54.144		
2,400.0	2,376.6	2,350.2	2,346.3	6.7	4.6	-178.76	-21.9	-157.1	446.4	438.3	8.14	54.866		
2,500.0	2,474.9	2,447.2	2,443.1	7.0	4.8	-178.71	-22.2	-163.3	470.8	462.3	8.48	55.529		
2,600.0	2,573.3	2,544.2	2,539.9	7.4	5.0	-178.66	-22.4	-169.5	495.2	486.3	8.82	56.142		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	-90.00	0.0	-28.0	28.1					
100.0	100.0	98.0	98.0	0.1	0.1	-90.00	0.0	-28.0	28.0	27.7	0.26	107.986		
200.0	200.0	198.0	198.0	0.3	0.3	-90.00	0.0	-28.0	28.0	27.4	0.61	46.080		
300.0	300.0	298.0	298.0	0.5	0.5	-90.00	0.0	-28.0	28.0	27.0	0.96	29.263 CC, ES		
400.0	400.0	397.7	397.7	0.7	0.7	-170.26	-0.6	-28.5	29.4	28.1	1.31	22.519		
500.0	500.0	497.2	497.1	0.8	0.8	-174.26	-2.6	-30.2	33.8	32.1	1.65	20.400 SF		
600.0	599.9	596.3	596.2	1.0	1.0	-179.02	-5.9	-32.9	41.3	39.3	2.01	20.600		
700.0	699.7	696.4	696.1	1.2	1.2	177.78	-9.2	-35.9	51.0	48.6	2.35	21.655		
800.0	799.4	796.5	796.2	1.4	1.4	176.86	-11.0	-37.9	61.3	58.6	2.70	22.678		
900.0	898.9	896.4	896.1	1.7	1.5	177.19	-11.4	-39.2	72.1	69.1	3.05	23.685		
1,000.0	998.3	995.6	995.3	1.9	1.7	177.64	-11.6	-40.3	84.5	81.2	3.39	24.949		
1,100.0	1,097.4	1,094.6	1,094.3	2.2	1.9	178.00	-11.7	-41.4	98.7	94.9	3.73	26.454		
1,200.0	1,196.3	1,193.3	1,193.0	2.5	2.1	178.30	-11.9	-42.4	114.5	110.5	4.07	28.142		
1,300.0	1,294.9	1,291.8	1,291.5	2.8	2.2	178.55	-12.1	-43.5	132.1	127.7	4.41	29.973		
1,400.0	1,393.3	1,389.9	1,389.6	3.1	2.4	178.75	-12.2	-44.6	151.2	146.4	4.75	31.839		
1,500.0	1,491.6	1,488.1	1,487.7	3.5	2.6	178.91	-12.4	-45.7	170.5	165.4	5.09	33.471		
1,600.0	1,590.0	1,586.2	1,585.9	3.8	2.8	179.04	-12.5	-46.7	189.8	184.3	5.44	34.896		
1,700.0	1,688.3	1,684.3	1,684.0	4.2	2.9	179.14	-12.7	-47.8	209.0	203.3	5.78	36.152		
1,800.0	1,786.6	1,782.4	1,782.1	4.5	3.1	179.23	-12.8	-48.9	228.3	222.2	6.13	37.267		
1,900.0	1,884.9	1,880.6	1,880.2	4.9	3.3	179.30	-13.0	-49.9	247.6	241.1	6.47	38.263		
2,000.0	1,983.3	1,978.7	1,978.3	5.2	3.4	179.37	-13.2	-51.0	266.9	260.1	6.82	39.159		
2,100.0	2,081.6	2,076.8	2,076.5	5.6	3.6	179.42	-13.3	-52.1	286.2	279.0	7.16	39.968		
2,200.0	2,179.9	2,174.9	2,174.6	6.0	3.8	179.47	-13.5	-53.2	305.4	297.9	7.50	40.703		
2,300.0	2,278.3	2,273.0	2,272.7	6.3	4.0	179.51	-13.6	-54.2	324.7	316.9	7.85	41.374		
2,400.0	2,376.6	2,371.2	2,370.8	6.7	4.1	179.55	-13.8	-55.3	344.0	335.8	8.19	41.988		
2,500.0	2,474.9	2,469.3	2,468.9	7.0	4.3	179.58	-14.0	-56.4	363.3	354.8	8.54	42.553		
2,600.0	2,573.3	2,567.4	2,567.0	7.4	4.5	179.61	-14.1	-57.5	382.6	373.7	8.88	43.074		
2,700.0	2,671.6	2,665.5	2,665.2	7.8	4.6	179.64	-14.3	-58.5	401.9	392.6	9.23	43.557		
2,800.0	2,769.9	2,763.7	2,763.3	8.1	4.8	179.66	-14.4	-59.6	421.1	411.6	9.57	44.004		
2,900.0	2,868.2	2,861.8	2,861.4	8.5	5.0	179.68	-14.6	-60.7	440.4	430.5	9.91	44.421		
3,000.0	2,966.6	2,959.9	2,959.5	8.8	5.2	179.70	-14.7	-61.7	459.7	449.4	10.26	44.809		
3,100.0	3,064.9	3,058.0	3,057.6	9.2	5.3	179.72	-14.9	-62.8	479.0	468.4	10.60	45.172		
3,200.0	3,163.2	3,156.2	3,155.7	9.6	5.5	179.74	-15.1	-63.9	498.3	487.3	10.95	45.513		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-106.13	-7.3	-25.2	26.2					
100.0	100.0	99.0	99.0	0.1	0.1	-106.13	-7.3	-25.2	26.2	26.0	0.26	100.663		
200.0	200.0	199.0	199.0	0.3	0.3	-106.13	-7.3	-25.2	26.2	25.6	0.61	43.048		
300.0	300.0	299.0	299.0	0.5	0.5	-106.13	-7.3	-25.2	26.2	25.3	0.96	27.366 CC, ES		
400.0	400.0	399.0	399.0	0.7	0.7	175.34	-7.3	-25.2	27.1	25.8	1.31	20.726		
500.0	500.0	499.0	499.0	0.8	0.8	175.75	-7.3	-25.2	29.7	28.0	1.66	17.939		
600.0	599.9	598.9	598.9	1.0	1.0	176.29	-7.3	-25.2	34.1	32.0	2.00	16.994		
700.0	699.7	699.4	699.3	1.2	1.2	176.68	-7.2	-24.3	39.3	36.9	2.35	16.706		
800.0	799.4	799.9	799.9	1.4	1.4	176.77	-6.9	-21.7	44.6	41.9	2.70	16.497 SF		
900.0	898.9	900.0	899.8	1.7	1.5	176.76	-6.5	-17.9	50.3	47.3	3.05	16.511		
1,000.0	998.3	999.7	999.5	1.9	1.7	176.84	-6.0	-14.0	57.8	54.4	3.39	17.027		
1,100.0	1,097.4	1,099.3	1,099.0	2.2	1.9	176.98	-5.6	-10.2	67.0	63.2	3.74	17.917		
1,200.0	1,196.3	1,198.7	1,198.3	2.5	2.1	177.15	-5.2	-6.3	77.9	73.8	4.08	19.088		
1,300.0	1,294.9	1,297.8	1,297.4	2.8	2.3	177.33	-4.8	-2.5	90.6	86.1	4.42	20.475		
1,400.0	1,393.3	1,396.8	1,396.3	3.1	2.4	177.50	-4.3	1.4	104.7	100.0	4.77	21.967		
1,500.0	1,491.6	1,495.8	1,495.2	3.5	2.6	177.64	-3.9	5.2	119.1	114.0	5.12	23.283		
1,600.0	1,590.0	1,594.8	1,594.1	3.8	2.8	177.75	-3.5	9.0	133.5	128.0	5.46	24.432		
1,700.0	1,688.3	1,693.7	1,693.0	4.2	3.0	177.83	-3.1	12.9	147.8	142.0	5.81	25.444		
1,800.0	1,786.6	1,792.7	1,791.9	4.5	3.2	177.91	-2.6	16.7	162.2	156.0	6.16	26.342		
1,900.0	1,884.9	1,891.7	1,890.8	4.9	3.4	177.97	-2.2	20.5	176.6	170.1	6.51	27.144		
2,000.0	1,983.3	1,990.6	1,989.7	5.2	3.5	178.02	-1.8	24.4	190.9	184.1	6.85	27.865		
2,100.0	2,081.6	2,089.6	2,088.6	5.6	3.7	178.06	-1.4	28.2	205.3	198.1	7.20	28.516		
2,200.0	2,179.9	2,188.5	2,187.4	6.0	3.9	178.10	-0.9	32.0	219.7	212.1	7.55	29.108		
2,300.0	2,278.3	2,287.5	2,286.3	6.3	4.1	178.13	-0.5	35.9	234.0	226.2	7.89	29.647		
2,400.0	2,376.6	2,386.5	2,385.2	6.7	4.3	178.16	-0.1	39.7	248.4	240.2	8.24	30.141		
2,500.0	2,474.9	2,485.4	2,484.1	7.0	4.5	178.19	0.3	43.6	262.8	254.2	8.59	30.595		
2,600.0	2,573.3	2,584.4	2,583.0	7.4	4.7	178.21	0.8	47.4	277.2	268.2	8.94	31.014		
2,700.0	2,671.6	2,683.3	2,681.9	7.8	4.8	178.24	1.2	51.2	291.5	282.2	9.28	31.402		
2,800.0	2,769.9	2,782.3	2,780.8	8.1	5.0	178.25	1.6	55.1	305.9	296.3	9.63	31.762		
2,900.0	2,868.2	2,881.3	2,879.7	8.5	5.2	178.27	2.0	58.9	320.3	310.3	9.98	32.097		
3,000.0	2,966.6	2,980.2	2,978.5	8.8	5.4	178.29	2.5	62.7	334.6	324.3	10.33	32.409		
3,100.0	3,064.9	3,079.2	3,077.4	9.2	5.6	178.30	2.9	66.6	349.0	338.3	10.67	32.701		
3,200.0	3,163.2	3,178.2	3,176.3	9.6	5.8	178.32	3.3	70.4	363.4	352.4	11.02	32.975		
3,300.0	3,261.6	3,277.1	3,275.2	9.9	5.9	178.33	3.7	74.2	377.7	366.4	11.37	33.231		
3,400.0	3,359.9	3,376.1	3,374.1	10.3	6.1	178.34	4.2	78.1	392.1	380.4	11.71	33.473		
3,500.0	3,458.2	3,475.0	3,473.0	10.7	6.3	178.35	4.6	81.9	406.5	394.4	12.06	33.701		
3,600.0	3,556.6	3,574.0	3,571.9	11.0	6.5	178.36	5.0	85.7	420.9	408.4	12.41	33.916		
3,700.0	3,654.9	3,673.0	3,670.7	11.4	6.7	178.37	5.4	89.6	435.2	422.5	12.76	34.119		
3,800.0	3,753.2	3,771.9	3,769.6	11.8	6.9	178.38	5.9	93.4	449.6	436.5	13.10	34.312		
3,900.0	3,851.5	3,870.9	3,868.5	12.1	7.1	178.39	6.3	97.2	464.0	450.5	13.45	34.495		
4,000.0	3,949.9	3,969.9	3,967.4	12.5	7.2	178.40	6.7	101.1	478.3	464.5	13.80	34.668		
4,100.0	4,048.2	4,068.8	4,066.3	12.9	7.4	178.40	7.1	104.9	492.7	478.6	14.14	34.833		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.6	19.6					
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-19.6	19.6	19.3	0.26	75.210		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-19.6	19.6	19.0	0.61	32.164		
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-19.6	19.6	18.6	0.96	20.447	CC, ES	
400.0	400.0	399.0	399.0	0.7	0.7	-169.16	0.0	-19.6	20.4	19.1	1.31	15.643		
500.0	500.0	499.0	499.0	0.8	0.8	-170.38	0.0	-19.6	23.0	21.4	1.66	13.905		
600.0	599.9	599.3	599.3	1.0	1.0	-172.03	0.0	-18.7	26.5	24.5	2.00	13.207		
700.0	699.7	699.8	699.7	1.2	1.2	-173.98	0.0	-16.1	29.9	27.6	2.35	12.722		
800.0	799.4	800.2	800.1	1.4	1.4	-176.15	-0.1	-11.7	33.4	30.7	2.70	12.374		
900.0	898.9	900.8	900.4	1.7	1.6	-178.46	-0.1	-5.6	37.0	33.9	3.05	12.124		
1,000.0	998.3	1,001.4	1,000.7	1.9	1.8	179.13	-0.2	2.3	40.6	37.2	3.40	11.945	SF	
1,100.0	1,097.4	1,101.4	1,100.3	2.2	2.0	176.86	-0.2	11.4	44.9	41.1	3.75	11.971		
1,200.0	1,196.3	1,201.2	1,199.7	2.5	2.2	175.14	-0.3	20.4	50.9	46.8	4.10	12.417		
1,300.0	1,294.9	1,300.9	1,299.0	2.8	2.4	173.97	-0.4	29.5	58.8	54.3	4.46	13.186		
1,400.0	1,393.3	1,400.4	1,398.2	3.1	2.6	173.24	-0.4	38.5	68.1	63.3	4.81	14.147		
1,500.0	1,491.6	1,500.0	1,497.3	3.5	2.9	172.70	-0.5	47.5	77.6	72.5	5.18	15.002		
1,600.0	1,590.0	1,599.5	1,596.4	3.8	3.1	172.28	-0.6	56.6	87.2	81.7	5.54	15.744		
1,700.0	1,688.3	1,699.1	1,695.6	4.2	3.3	171.94	-0.6	65.6	96.7	90.8	5.90	16.393		
1,800.0	1,786.6	1,798.6	1,794.7	4.5	3.5	171.66	-0.7	74.6	106.3	100.0	6.27	16.966		
1,900.0	1,884.9	1,898.1	1,893.8	4.9	3.8	171.43	-0.8	83.7	115.9	109.2	6.63	17.474		
2,000.0	1,983.3	1,997.7	1,992.9	5.2	4.0	171.24	-0.8	92.7	125.4	118.4	7.00	17.928		
2,100.0	2,081.6	2,097.2	2,092.1	5.6	4.2	171.07	-0.9	101.7	135.0	127.6	7.36	18.336		
2,200.0	2,179.9	2,196.8	2,191.2	6.0	4.5	170.92	-1.0	110.8	144.5	136.8	7.73	18.705		
2,300.0	2,278.3	2,296.3	2,290.3	6.3	4.7	170.80	-1.0	119.8	154.1	146.0	8.09	19.039		
2,400.0	2,376.6	2,395.9	2,389.5	6.7	4.9	170.68	-1.1	128.8	163.7	155.2	8.46	19.344		
2,500.0	2,474.9	2,495.4	2,488.6	7.0	5.2	170.58	-1.2	137.9	173.2	164.4	8.83	19.624		
2,600.0	2,573.3	2,594.9	2,587.7	7.4	5.4	170.49	-1.2	146.9	182.8	173.6	9.19	19.880		
2,700.0	2,671.6	2,694.5	2,686.9	7.8	5.6	170.41	-1.3	155.9	192.4	182.8	9.56	20.117		
2,800.0	2,769.9	2,794.0	2,786.0	8.1	5.9	170.34	-1.4	165.0	201.9	192.0	9.93	20.335		
2,900.0	2,868.2	2,893.6	2,885.1	8.5	6.1	170.27	-1.5	174.0	211.5	201.2	10.30	20.538		
3,000.0	2,966.6	2,993.1	2,984.2	8.8	6.3	170.21	-1.5	183.0	221.1	210.4	10.67	20.727		
3,100.0	3,064.9	3,092.6	3,083.4	9.2	6.6	170.16	-1.6	192.0	230.6	219.6	11.03	20.902		
3,200.0	3,163.2	3,192.2	3,182.5	9.6	6.8	170.11	-1.7	201.1	240.2	228.8	11.40	21.067		
3,300.0	3,261.6	3,291.7	3,281.6	9.9	7.0	170.06	-1.7	210.1	249.8	238.0	11.77	21.220		
3,400.0	3,359.9	3,391.3	3,380.8	10.3	7.3	170.01	-1.8	219.1	259.3	247.2	12.14	21.365		
3,500.0	3,458.2	3,490.8	3,479.9	10.7	7.5	169.97	-1.9	228.2	268.9	256.4	12.51	21.500		
3,600.0	3,556.6	3,590.3	3,579.0	11.0	7.7	169.94	-1.9	237.2	278.5	265.6	12.87	21.628		
3,700.0	3,654.9	3,689.9	3,678.2	11.4	8.0	169.90	-2.0	246.2	288.0	274.8	13.24	21.749		
3,800.0	3,753.2	3,789.4	3,777.3	11.8	8.2	169.87	-2.1	255.3	297.6	284.0	13.61	21.863		
3,900.0	3,851.5	3,889.0	3,876.4	12.1	8.4	169.84	-2.1	264.3	307.2	293.2	13.98	21.971		
4,000.0	3,949.9	3,988.5	3,975.6	12.5	8.7	169.81	-2.2	273.3	316.7	302.4	14.35	22.073		
4,100.0	4,048.2	4,088.1	4,074.7	12.9	8.9	169.78	-2.3	282.4	326.3	311.6	14.72	22.170		
4,200.0	4,146.5	4,187.6	4,173.8	13.2	9.1	169.75	-2.3	291.4	335.9	320.8	15.09	22.262		
4,300.0	4,244.9	4,287.1	4,272.9	13.6	9.4	169.73	-2.4	300.4	345.4	330.0	15.46	22.350		
4,400.0	4,343.2	4,386.7	4,372.1	14.0	9.6	169.71	-2.5	309.5	355.0	339.2	15.82	22.433		
4,500.0	4,441.5	4,486.2	4,471.2	14.3	9.8	169.68	-2.5	318.5	364.6	348.4	16.19	22.513		
4,600.0	4,539.9	4,585.8	4,570.3	14.7	10.1	169.66	-2.6	327.5	374.1	357.6	16.56	22.589		
4,700.0	4,638.2	4,685.3	4,669.5	15.1	10.3	169.64	-2.7	336.6	383.7	366.8	16.93	22.662		
4,800.0	4,736.5	4,784.8	4,768.6	15.4	10.5	169.62	-2.7	345.6	393.3	376.0	17.30	22.732		
4,900.0	4,834.8	4,884.4	4,867.7	15.8	10.8	169.61	-2.8	354.6	402.8	385.2	17.67	22.798		
5,000.0	4,933.2	4,983.9	4,966.9	16.2	11.0	169.59	-2.9	363.6	412.4	394.4	18.04	22.862		
5,100.0	5,031.5	5,083.5	5,066.0	16.5	11.2	169.57	-2.9	372.7	422.0	403.6	18.41	22.924		

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 #2		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
5,200.0	5,129.8	5,183.0	5,165.1	16.9	11.5	169.56	-3.0	381.7	431.5	412.8	18.78	22.983					
5,300.0	5,228.2	5,282.5	5,264.2	17.2	11.7	169.54	-3.1	390.7	441.1	422.0	19.15	23.039					
5,400.0	5,326.5	5,382.1	5,363.4	17.6	11.9	169.53	-3.1	399.8	450.7	431.2	19.52	23.094					
5,500.0	5,424.8	5,481.6	5,462.5	18.0	12.2	169.51	-3.2	408.8	460.3	440.4	19.88	23.146					
5,600.0	5,523.2	5,581.2	5,561.6	18.3	12.4	169.50	-3.3	417.8	469.8	449.6	20.25	23.197					
5,700.0	5,621.5	5,680.7	5,660.8	18.7	12.6	169.49	-3.4	426.9	479.4	458.8	20.62	23.245					
5,800.0	5,719.8	5,780.3	5,759.9	19.1	12.9	169.48	-3.4	435.9	489.0	468.0	20.99	23.292					
5,900.0	5,818.1	5,879.8	5,859.0	19.4	13.1	169.46	-3.5	444.9	498.5	477.2	21.36	23.337					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 2E-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-158.99	-7.3	-2.8	7.9					
100.0	100.0	99.0	99.0	0.1	0.1	-158.99	-7.3	-2.8	7.8	7.5	0.26	29.961		
200.0	200.0	199.0	199.0	0.3	0.3	-158.99	-7.3	-2.8	7.8	7.2	0.61	12.813		
300.0	300.0	299.0	299.0	0.5	0.5	-158.99	-7.3	-2.8	7.8	6.8	0.96	8.145 CC, ES		
400.0	400.0	399.0	399.0	0.7	0.7	127.42	-7.3	-2.8	8.3	7.0	1.31	6.350		
500.0	500.0	499.1	499.1	0.8	0.8	135.23	-7.3	-1.9	9.6	8.0	1.66	5.795		
600.0	599.9	599.1	599.1	1.0	1.0	139.80	-7.3	0.7	11.3	9.3	2.01	5.616		
700.0	699.7	699.3	699.1	1.2	1.2	142.01	-7.3	5.0	13.3	10.9	2.38	5.601		
800.0	799.4	799.4	799.1	1.4	1.4	142.66	-7.4	11.1	15.6	12.8	2.75	5.660		
900.0	898.9	899.6	898.9	1.7	1.6	142.31	-7.5	19.0	18.1	14.9	3.14	5.754		
1,000.0	998.3	999.7	998.6	1.9	1.8	141.31	-7.5	28.6	20.8	17.3	3.55	5.860		
1,100.0	1,097.4	1,099.9	1,098.2	2.2	2.1	139.94	-7.6	39.9	23.8	19.8	3.99	5.963		
1,200.0	1,196.3	1,200.1	1,197.5	2.5	2.3	138.37	-7.7	53.0	27.1	22.6	4.47	6.060		
1,300.0	1,294.9	1,300.0	1,296.5	2.8	2.6	138.31	-7.8	66.6	31.3	26.3	4.95	6.316		
1,400.0	1,393.3	1,399.9	1,395.4	3.1	2.9	139.85	-8.0	80.3	36.6	31.2	5.41	6.759		
1,500.0	1,491.6	1,499.7	1,494.3	3.5	3.2	141.19	-8.1	94.0	42.1	36.2	5.88	7.164		
1,600.0	1,590.0	1,599.6	1,593.2	3.8	3.4	142.21	-8.2	107.7	47.6	41.3	6.34	7.511		
1,700.0	1,688.3	1,699.4	1,692.1	4.2	3.7	143.03	-8.3	121.4	53.2	46.4	6.81	7.811		
1,800.0	1,786.6	1,799.3	1,791.0	4.5	4.0	143.69	-8.4	135.0	58.7	51.5	7.28	8.072		
1,900.0	1,884.9	1,899.1	1,889.9	4.9	4.3	144.23	-8.5	148.7	64.3	56.6	7.75	8.302		
2,000.0	1,983.3	1,998.9	1,988.8	5.2	4.6	144.69	-8.6	162.4	69.9	61.7	8.21	8.505		
2,100.0	2,081.6	2,098.8	2,087.7	5.6	4.9	145.08	-8.7	176.1	75.4	66.8	8.68	8.687		
2,200.0	2,179.9	2,198.6	2,186.6	6.0	5.2	145.42	-8.8	189.8	81.0	71.9	9.15	8.849		
2,300.0	2,278.3	2,298.5	2,285.5	6.3	5.5	145.71	-8.9	203.4	86.6	77.0	9.62	8.996		
2,400.0	2,376.6	2,398.3	2,384.4	6.7	5.7	145.97	-9.1	217.1	92.2	82.1	10.10	9.128		
2,500.0	2,474.9	2,498.2	2,483.3	7.0	6.0	146.20	-9.2	230.8	97.7	87.2	10.57	9.249		
2,600.0	2,573.3	2,598.0	2,582.2	7.4	6.3	146.40	-9.3	244.5	103.3	92.3	11.04	9.359		
2,700.0	2,671.6	2,697.8	2,681.1	7.8	6.6	146.59	-9.4	258.2	108.9	97.4	11.51	9.460		
2,800.0	2,769.9	2,797.7	2,780.0	8.1	6.9	146.75	-9.5	271.8	114.5	102.5	11.98	9.553		
2,900.0	2,868.2	2,897.5	2,878.9	8.5	7.2	146.90	-9.6	285.5	120.0	107.6	12.45	9.639		
3,000.0	2,966.6	2,997.4	2,977.8	8.8	7.5	147.04	-9.7	299.2	125.6	112.7	12.93	9.719		
3,100.0	3,064.9	3,097.2	3,076.7	9.2	7.8	147.16	-9.8	312.9	131.2	117.8	13.40	9.793		
3,200.0	3,163.2	3,197.1	3,175.6	9.6	8.1	147.28	-9.9	326.5	136.8	122.9	13.87	9.861		
3,300.0	3,261.6	3,296.9	3,274.5	9.9	8.4	147.39	-10.1	340.2	142.4	128.0	14.34	9.926		
3,400.0	3,359.9	3,396.8	3,373.4	10.3	8.7	147.48	-10.2	353.9	148.0	133.1	14.82	9.986		
3,500.0	3,458.2	3,496.6	3,472.3	10.7	9.0	147.57	-10.3	367.6	153.5	138.3	15.29	10.042		
3,600.0	3,556.6	3,596.4	3,571.2	11.0	9.3	147.66	-10.4	381.3	159.1	143.4	15.76	10.095		
3,700.0	3,654.9	3,696.3	3,670.2	11.4	9.6	147.74	-10.5	394.9	164.7	148.5	16.24	10.145		
3,800.0	3,753.2	3,796.1	3,769.1	11.8	9.9	147.81	-10.6	408.6	170.3	153.6	16.71	10.191		
3,900.0	3,851.5	3,896.0	3,868.0	12.1	10.2	147.88	-10.7	422.3	175.9	158.7	17.18	10.236		
4,000.0	3,949.9	3,995.8	3,966.9	12.5	10.5	147.94	-10.8	436.0	181.5	163.8	17.66	10.278		
4,100.0	4,048.2	4,095.7	4,065.8	12.9	10.8	148.00	-10.9	449.7	187.1	168.9	18.13	10.317		
4,200.0	4,146.5	4,195.5	4,164.7	13.2	11.1	148.06	-11.0	463.3	192.6	174.0	18.60	10.355		
4,300.0	4,244.9	4,295.3	4,263.6	13.6	11.4	148.12	-11.2	477.0	198.2	179.2	19.08	10.391		
4,400.0	4,343.2	4,395.2	4,362.5	14.0	11.7	148.17	-11.3	490.7	203.8	184.3	19.55	10.425		
4,500.0	4,441.5	4,495.0	4,461.4	14.3	11.9	148.21	-11.4	504.4	209.4	189.4	20.03	10.457		
4,600.0	4,539.9	4,594.9	4,560.3	14.7	12.2	148.26	-11.5	518.1	215.0	194.5	20.50	10.488		
4,700.0	4,638.2	4,694.7	4,659.2	15.1	12.5	148.30	-11.6	531.7	220.6	199.6	20.97	10.517		
4,800.0	4,736.5	4,794.6	4,758.1	15.4	12.8	148.35	-11.7	545.4	226.2	204.7	21.45	10.545		
4,900.0	4,834.8	4,894.4	4,857.0	15.8	13.1	148.38	-11.8	559.1	231.8	209.8	21.92	10.572		
5,000.0	4,933.2	4,994.3	4,955.9	16.2	13.4	148.42	-11.9	572.8	237.3	214.9	22.39	10.598		
5,100.0	5,031.5	5,094.1	5,054.8	16.5	13.7	148.46	-12.0	586.4	242.9	220.1	22.87	10.623		

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 2E-7H-E168 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,129.8	5,193.9	5,153.7	16.9	14.0	148.49	-12.1	600.1	248.5	225.2	23.34	10.646	
5,300.0	5,228.2	5,293.8	5,252.6	17.2	14.3	148.52	-12.3	613.8	254.1	230.3	23.82	10.669	
5,400.0	5,326.5	5,393.6	5,351.5	17.6	14.6	148.56	-12.4	627.5	259.7	235.4	24.29	10.691	
5,500.0	5,424.8	5,493.5	5,450.4	18.0	14.9	148.59	-12.5	641.2	265.3	240.5	24.77	10.712	
5,600.0	5,523.2	5,593.3	5,549.3	18.3	15.2	148.61	-12.6	654.8	270.9	245.6	25.24	10.732	
5,700.0	5,621.5	5,693.2	5,648.2	18.7	15.5	148.64	-12.7	668.5	276.5	250.7	25.71	10.752	
5,800.0	5,719.8	5,793.0	5,747.1	19.1	15.8	148.67	-12.8	682.2	282.0	255.9	26.19	10.770	
5,900.0	5,818.1	5,892.8	5,846.0	19.4	16.1	148.69	-12.9	695.9	287.6	261.0	26.66	10.788	
6,000.0	5,916.5	5,992.7	5,944.9	19.8	16.4	148.72	-13.0	709.6	293.2	266.1	27.14	10.806	
6,100.0	6,014.8	6,092.5	6,043.8	20.2	16.7	148.74	-13.1	723.2	298.8	271.2	27.61	10.823	
6,200.0	6,113.1	6,192.4	6,142.7	20.5	17.0	148.76	-13.2	736.9	304.4	276.3	28.08	10.839	
6,300.0	6,211.5	6,292.2	6,241.6	20.9	17.3	148.79	-13.4	750.6	310.0	281.4	28.56	10.854	
6,400.0	6,309.8	6,392.1	6,340.5	21.3	17.6	148.81	-13.5	764.3	315.6	286.5	29.03	10.870	
6,500.0	6,408.1	6,491.9	6,439.4	21.6	17.9	148.83	-13.6	777.9	321.2	291.7	29.51	10.884	
6,600.0	6,506.5	6,591.8	6,538.3	22.0	18.2	148.85	-13.7	791.6	326.8	296.8	29.98	10.899	
6,700.0	6,604.8	6,691.6	6,637.2	22.4	18.5	148.87	-13.8	805.3	332.3	301.9	30.46	10.912	
6,800.0	6,703.1	6,791.4	6,736.1	22.7	18.8	148.88	-13.9	819.0	337.9	307.0	30.93	10.926	
6,900.0	6,801.4	6,891.3	6,835.0	23.1	19.1	148.90	-14.0	832.7	343.5	312.1	31.40	10.939	
7,000.0	6,899.8	6,991.1	6,933.9	23.5	19.4	148.92	-14.1	846.3	349.1	317.2	31.88	10.951	
7,100.0	6,998.1	7,091.0	7,032.8	23.8	19.7	148.94	-14.2	860.0	354.7	322.3	32.35	10.963	
7,200.0	7,095.8	7,190.2	7,131.1	24.2	20.0	-175.75	-14.4	873.6	365.1	332.7	32.40	11.269	
7,300.0	7,190.2	7,286.0	7,226.0	24.7	20.2	-160.29	-14.5	886.7	376.6	355.7	31.91	12.149	
7,400.0	7,278.3	7,455.2	7,392.1	25.2	20.7	-156.16	4.4	909.2	416.4	385.2	31.21	13.340	
7,500.0	7,357.6	7,673.7	7,586.3	25.8	21.4	-153.60	98.5	933.6	433.6	404.6	28.92	14.990	
7,600.0	7,425.6	7,902.4	7,737.3	26.4	22.4	-149.35	267.4	950.1	434.6	408.9	25.77	16.867	
7,700.0	7,480.3	8,112.8	7,808.9	27.1	23.7	-143.06	463.9	954.8	420.7	396.3	24.38	17.259	
7,800.0	7,519.9	8,254.0	7,817.0	27.9	24.8	-137.68	604.7	952.2	399.5	373.3	26.19	15.255	
7,900.0	7,543.4	8,350.8	7,817.0	28.8	25.6	-135.11	701.5	949.7	387.6	358.2	29.40	13.184	
7,967.1	7,550.1	8,417.5	7,817.0	29.4	26.3	-134.09	768.1	948.0	385.5	353.5	31.99	12.049	
8,000.0	7,550.0	8,450.4	7,817.0	29.7	26.6	-133.94	801.0	947.1	386.3	353.1	33.28	11.608	
8,100.0	7,550.0	8,550.3	7,817.0	30.7	27.7	-133.58	900.9	944.5	388.9	353.5	35.36	10.996	
8,200.0	7,550.0	8,650.3	7,817.0	31.7	28.8	-133.23	1,000.8	941.9	391.4	353.8	37.54	10.425	
8,300.0	7,550.0	8,750.2	7,817.0	32.8	30.0	-132.89	1,100.7	939.3	393.9	354.1	39.80	9.897	
8,400.0	7,550.0	8,850.1	7,817.0	34.0	31.2	-132.54	1,200.6	936.6	396.5	354.4	42.14	9.409	
8,500.0	7,550.0	8,950.1	7,817.0	35.2	32.5	-132.20	1,300.5	934.0	399.1	354.5	44.54	8.960	
8,600.0	7,550.0	9,050.0	7,817.0	36.4	33.8	-131.87	1,400.4	931.4	401.7	354.7	47.01	8.545	
8,700.0	7,550.0	9,150.0	7,817.0	37.7	35.2	-131.54	1,500.3	928.8	404.3	354.8	49.52	8.164	
8,800.0	7,550.0	9,249.9	7,817.0	39.1	36.6	-131.21	1,600.2	926.2	406.9	354.8	52.09	7.811	
8,900.0	7,550.0	9,349.8	7,817.0	40.4	38.0	-130.89	1,700.1	923.6	409.5	354.8	54.71	7.486	
9,000.0	7,550.0	9,449.8	7,817.0	41.8	39.5	-130.57	1,800.0	920.9	412.2	354.8	57.36	7.186	
9,100.0	7,550.0	9,549.7	7,817.0	43.2	41.0	-130.26	1,899.9	918.3	414.8	354.8	60.06	6.907	
9,200.0	7,550.0	9,649.6	7,817.0	44.7	42.5	-129.95	1,999.8	915.7	417.5	354.7	62.79	6.649	
9,300.0	7,550.0	9,749.6	7,817.0	46.2	44.0	-129.65	2,099.8	913.1	420.2	354.6	65.55	6.410	
9,400.0	7,550.0	9,849.5	7,817.0	47.6	45.5	-129.34	2,199.7	910.5	422.9	354.5	68.35	6.187	
9,500.0	7,550.0	9,949.5	7,817.0	49.1	47.1	-129.05	2,299.6	907.9	425.6	354.4	71.18	5.979	
9,600.0	7,550.0	10,049.4	7,817.0	50.7	48.6	-128.75	2,399.5	905.2	428.3	354.3	73.98	5.789	
9,700.0	7,550.0	10,149.4	7,817.0	52.2	50.2	-128.52	2,499.4	902.6	430.4	353.8	76.59	5.620	
9,800.0	7,550.0	10,249.4	7,817.0	53.7	51.8	-128.38	2,599.3	900.0	431.6	352.7	78.88	5.472	
9,900.0	7,550.0	10,349.4	7,817.0	55.2	53.4	-128.40	2,699.3	897.4	431.5	350.4	81.02	5.325	
10,000.0	7,550.0	10,449.3	7,817.0	56.8	55.0	-128.57	2,799.3	894.8	429.9	346.9	82.99	5.180	
10,100.0	7,550.0	10,549.3	7,817.0	58.3	56.6	-128.90	2,899.2	892.2	427.0	342.3	84.77	5.037	
10,200.0	7,550.0	10,649.1	7,817.0	59.8	58.2	-129.39	2,999.0	889.6	422.8	336.4	86.41	4.893	

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 2E-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	7,550.0	10,748.9	7,817.0	61.4	59.9	-129.92	3,098.7	886.9	418.1	329.7	88.44	4.728		
10,400.0	7,550.0	10,848.7	7,817.0	62.9	61.5	-130.46	3,198.5	884.3	413.5	323.0	90.41	4.573		
10,500.0	7,550.0	10,948.6	7,817.0	64.5	63.1	-131.01	3,298.3	881.7	408.8	316.5	92.33	4.428		
10,600.0	7,550.0	11,048.4	7,817.0	66.1	64.8	-131.58	3,398.1	879.1	404.2	310.1	94.18	4.292		
10,700.0	7,550.0	11,148.2	7,817.0	67.7	66.4	-132.16	3,497.9	876.5	399.7	303.7	95.97	4.165		
10,800.0	7,550.0	11,248.0	7,817.0	69.3	68.1	-132.75	3,597.6	873.9	395.2	297.5	97.69	4.045		
10,900.0	7,550.0	11,347.8	7,817.0	70.9	69.8	-133.36	3,697.4	871.3	390.7	291.4	99.34	3.933		
11,000.0	7,550.0	11,447.6	7,817.0	72.5	71.4	-133.98	3,797.2	868.6	386.3	285.4	100.91	3.828		
11,100.0	7,550.0	11,547.4	7,817.0	74.1	73.1	-134.62	3,897.0	866.0	381.9	279.5	102.40	3.730		
11,200.0	7,550.0	11,647.2	7,817.0	75.7	74.8	-135.27	3,996.8	863.4	377.6	273.8	103.81	3.638		
11,300.0	7,550.0	11,747.1	7,817.0	77.4	76.5	-135.93	4,096.5	860.8	373.3	268.2	105.12	3.551		
11,400.0	7,550.0	11,846.9	7,817.0	79.0	78.1	-136.61	4,196.3	858.2	369.1	262.7	106.35	3.471		
11,500.0	7,550.0	11,946.7	7,817.0	80.6	79.8	-137.31	4,296.1	855.6	364.9	257.4	107.48	3.395		
11,600.0	7,550.0	12,046.5	7,817.0	82.3	81.5	-138.02	4,395.9	853.0	360.8	252.3	108.51	3.325		
11,700.0	7,550.0	12,146.3	7,817.0	83.9	83.2	-138.75	4,495.7	850.4	356.8	247.3	109.43	3.260		
11,800.0	7,550.0	12,246.1	7,817.0	85.6	84.9	-139.49	4,595.4	847.7	352.8	242.5	110.24	3.200		
11,900.0	7,550.0	12,345.9	7,817.0	87.3	86.6	-140.26	4,695.2	845.1	348.8	237.9	110.94	3.144		
12,000.0	7,550.0	12,445.8	7,817.0	88.9	88.3	-141.03	4,795.0	842.5	344.9	233.4	111.52	3.093		
12,100.0	7,550.0	12,545.6	7,817.0	90.6	90.0	-141.83	4,894.8	839.9	341.1	229.2	111.98	3.046		
12,200.0	7,550.0	12,645.4	7,817.0	92.3	91.7	-142.64	4,994.6	837.3	337.4	225.0	112.37	3.003		
12,300.0	7,550.0	12,745.3	7,817.0	93.9	93.4	-143.30	5,094.4	834.7	334.4	221.0	113.39	2.949		
12,400.0	7,550.0	12,845.2	7,817.0	95.6	95.1	-143.74	5,194.3	832.1	332.4	217.6	114.83	2.895		
12,500.0	7,550.0	12,945.2	7,817.0	97.3	96.8	-143.94	5,294.3	829.4	331.5	214.8	116.76	2.839		
12,537.9	7,550.0	12,983.1	7,817.0	98.0	97.5	-143.96	5,332.2	828.5	331.4	213.8	117.63	2.818		
12,600.0	7,550.0	13,045.2	7,817.0	99.0	98.5	-143.91	5,394.2	826.8	331.6	212.4	119.22	2.782		
12,700.0	7,550.0	13,145.2	7,817.0	100.7	100.2	-143.65	5,494.2	824.2	332.8	210.5	122.26	2.722		
12,800.0	7,550.0	13,245.1	7,817.0	102.4	101.9	-143.16	5,594.1	821.6	335.0	209.1	125.90	2.661		
12,900.0	7,550.0	13,344.9	7,817.0	104.2	103.7	-142.45	5,693.9	819.0	338.3	208.2	130.13	2.600		
13,000.0	7,550.0	13,444.7	7,817.0	105.9	105.4	-141.53	5,793.6	816.4	342.7	207.8	134.94	2.540		
13,100.0	7,550.0	13,544.3	7,817.0	107.6	107.1	-140.43	5,893.2	813.8	348.4	208.1	140.28	2.483		
13,200.0	7,550.0	13,643.8	7,817.0	109.4	108.8	-139.19	5,992.6	811.2	354.8	209.0	145.88	2.432		
13,300.0	7,550.0	13,743.3	7,817.0	111.1	110.5	-137.99	6,092.1	808.6	361.5	210.1	151.42	2.387		
13,400.0	7,550.0	13,842.8	7,817.0	112.9	112.2	-136.84	6,191.5	806.0	368.3	211.4	156.89	2.347		
13,500.0	7,550.0	13,942.3	7,817.0	114.6	113.9	-135.72	6,291.0	803.3	375.2	212.9	162.30	2.312		
13,600.0	7,550.0	14,041.8	7,817.0	116.3	115.6	-134.65	6,390.5	800.7	382.3	214.7	167.64	2.281		
13,700.0	7,550.0	14,141.3	7,817.0	118.1	117.4	-133.62	6,489.9	798.1	389.5	216.6	172.91	2.253		
13,800.0	7,550.0	14,240.8	7,817.0	119.8	119.1	-132.62	6,589.4	795.5	396.9	218.7	178.12	2.228		
13,900.0	7,550.0	14,340.3	7,817.0	121.6	120.8	-131.66	6,688.9	792.9	404.3	221.0	183.27	2.206		
14,000.0	7,550.0	14,439.8	7,817.0	123.3	122.5	-130.74	6,788.3	790.3	411.9	223.5	188.36	2.187		
14,100.0	7,550.0	14,539.3	7,817.0	125.1	124.2	-129.85	6,887.8	787.7	419.5	226.1	193.38	2.169		
14,200.0	7,550.0	14,638.7	7,817.0	126.8	125.9	-128.99	6,987.2	785.1	427.3	228.9	198.35	2.154		
14,300.0	7,550.0	14,738.2	7,817.0	128.5	127.7	-128.16	7,086.7	782.5	435.1	231.9	203.26	2.141		
14,369.9	7,550.0	14,807.8	7,817.0	129.8	128.9	-127.60	7,156.2	780.7	440.7	234.0	206.67	2.132 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	0.0	0.0	0.0	0.0	142.46	-7.3	5.6	9.2						
100.0	100.0	100.0	100.0	0.1	0.1	142.46	-7.3	5.6	9.2	8.9	0.26	35.094			
200.0	200.0	200.0	200.0	0.3	0.3	142.46	-7.3	5.6	9.2	8.6	0.61	15.040			
233.8	233.8	233.8	233.8	0.4	0.4	142.46	-7.3	5.6	9.2	8.5	0.73	12.606 CC			
300.0	300.0	299.9	299.9	0.5	0.5	141.56	-7.3	5.8	9.3	8.4	0.96	9.741 ES			
400.0	400.0	399.8	399.8	0.7	0.7	60.75	-7.6	7.5	10.3	9.0	1.31	7.834			
500.0	500.0	499.6	499.6	0.8	0.8	61.08	-8.2	11.0	11.7	10.0	1.67	7.011			
600.0	599.9	599.5	599.2	1.0	1.0	63.06	-9.1	16.1	13.6	11.6	2.03	6.691			
700.0	699.7	699.2	698.8	1.2	1.2	65.91	-10.3	22.9	16.0	13.6	2.42	6.641			
800.0	799.4	799.0	798.1	1.4	1.5	69.03	-11.8	31.5	19.1	16.2	2.83	6.745			
900.0	898.9	898.7	897.3	1.7	1.7	72.09	-13.7	41.7	22.7	19.4	3.27	6.934			
1,000.0	998.3	998.3	996.2	1.9	2.0	74.90	-15.8	53.7	26.9	23.2	3.76	7.165			
1,100.0	1,097.4	1,097.9	1,094.8	2.2	2.2	77.39	-18.2	67.3	31.8	27.5	4.29	7.412			
1,200.0	1,196.3	1,197.4	1,193.1	2.5	2.5	79.57	-20.9	82.6	37.3	32.5	4.88	7.657			
1,300.0	1,294.9	1,296.9	1,291.0	2.8	2.9	81.46	-23.8	99.5	43.5	38.0	5.51	7.891			
1,400.0	1,393.3	1,396.2	1,388.6	3.1	3.2	82.86	-27.1	118.1	50.3	44.1	6.19	8.130			
1,500.0	1,491.6	1,495.5	1,485.7	3.5	3.6	82.63	-30.7	138.4	57.9	51.1	6.87	8.428			
1,600.0	1,590.0	1,594.6	1,582.3	3.8	4.0	81.15	-34.6	160.3	66.4	58.8	7.56	8.784			
1,700.0	1,688.3	1,693.5	1,678.3	4.2	4.5	78.89	-38.7	183.7	75.8	67.5	8.23	9.204			
1,800.0	1,786.6	1,792.1	1,773.5	4.5	5.0	76.19	-43.1	208.7	86.2	77.3	8.89	9.699			
1,900.0	1,884.9	1,891.4	1,869.1	4.9	5.5	73.28	-47.7	235.4	97.7	88.1	9.52	10.256			
2,000.0	1,983.3	1,992.2	1,966.0	5.2	6.0	70.39	-50.9	262.9	108.3	98.1	10.14	10.682			
2,100.0	2,081.6	2,093.2	2,063.2	5.6	6.5	67.50	-52.3	290.6	117.7	107.0	10.72	10.977			
2,200.0	2,179.9	2,194.1	2,160.2	6.0	7.0	64.53	-52.0	318.3	126.1	114.8	11.27	11.185			
2,300.0	2,278.3	2,293.6	2,255.8	6.3	7.5	61.79	-51.1	345.7	134.3	122.5	11.79	11.390			
2,400.0	2,376.6	2,393.1	2,351.4	6.7	8.0	59.37	-50.1	373.1	142.7	130.4	12.29	11.613			
2,500.0	2,474.9	2,492.5	2,447.0	7.0	8.5	57.22	-49.1	400.5	151.4	138.6	12.78	11.848			
2,600.0	2,573.3	2,592.0	2,542.6	7.4	9.0	55.30	-48.2	427.9	160.2	147.0	13.26	12.087			
2,700.0	2,671.6	2,691.5	2,638.2	7.8	9.5	53.59	-47.2	455.3	169.3	155.5	13.73	12.328			
2,800.0	2,769.9	2,790.9	2,733.9	8.1	10.1	52.05	-46.3	482.7	178.4	164.2	14.20	12.568			
2,900.0	2,868.2	2,890.4	2,829.5	8.5	10.6	50.66	-45.3	510.1	187.7	173.0	14.66	12.803			
3,000.0	2,966.6	2,989.9	2,925.1	8.8	11.1	49.40	-44.4	537.5	197.1	182.0	15.12	13.034			
3,100.0	3,064.9	3,089.4	3,020.7	9.2	11.6	48.26	-43.4	564.9	206.5	191.0	15.58	13.260			
3,200.0	3,163.2	3,189.2	3,116.6	9.6	12.1	47.22	-42.4	592.4	216.1	200.0	16.03	13.478			
3,300.0	3,261.6	3,292.6	3,216.4	9.9	12.6	46.28	-41.0	620.0	224.6	208.1	16.49	13.618			
3,400.0	3,359.9	3,396.4	3,316.8	10.3	13.1	45.49	-38.8	645.9	231.5	214.5	16.97	13.640			
3,500.0	3,458.2	3,500.4	3,417.9	10.7	13.6	44.83	-35.8	670.3	236.6	219.1	17.45	13.555			
3,600.0	3,556.6	3,604.6	3,519.5	11.0	14.0	44.27	-32.0	693.0	239.9	221.9	17.94	13.371			
3,700.0	3,654.9	3,708.6	3,621.3	11.4	14.4	43.78	-27.5	713.9	241.4	223.0	18.44	13.096			
3,800.0	3,753.2	3,808.6	3,719.3	11.8	14.8	43.35	-22.8	733.4	242.2	223.3	18.93	12.799			
3,900.0	3,851.5	3,908.6	3,817.2	12.1	15.2	42.93	-18.1	752.8	243.0	223.6	19.41	12.522			
4,000.0	3,949.9	4,008.6	3,915.2	12.5	15.6	42.50	-13.5	772.3	243.9	224.0	19.89	12.258			
4,100.0	4,048.2	4,108.5	4,013.1	12.9	15.9	42.08	-8.8	791.7	244.7	224.3	20.36	12.019			
4,200.0	4,146.5	4,208.5	4,111.1	13.2	16.3	41.66	-4.1	811.2	245.5	224.7	20.83	11.788			
4,300.0	4,244.9	4,308.5	4,209.1	13.6	16.7	41.25	0.6	830.6	246.4	225.1	21.29	11.571			
4,400.0	4,343.2	4,408.5	4,307.0	14.0	17.1	40.84	5.2	850.1	247.3	225.5	21.75	11.367			
4,500.0	4,441.5	4,508.5	4,405.0	14.3	17.5	40.43	9.9	869.5	248.1	225.9	22.21	11.174			
4,600.0	4,539.9	4,608.4	4,502.9	14.7	17.9	40.02	14.6	889.0	249.0	226.4	22.66	10.992			
4,700.0	4,638.2	4,708.4	4,600.9	15.1	18.3	39.62	19.3	908.4	249.9	226.8	23.10	10.820			
4,800.0	4,736.5	4,808.4	4,698.9	15.4	18.7	39.22	23.9	927.8	250.9	227.3	23.54	10.657			
4,900.0	4,834.8	4,908.4	4,796.8	15.8	19.1	38.82	28.6	947.3	251.8	227.8	23.98	10.502			
5,000.0	4,933.2	5,008.4	4,894.8	16.2	19.4	38.42	33.3	966.7	252.7	228.3	24.41	10.355			

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	5,031.5	5,108.3	4,992.7	16.5	19.8	38.03	38.0	986.2	253.7	228.9	24.83	10.216		
5,200.0	5,129.8	5,208.3	5,090.7	16.9	20.2	37.64	42.6	1,005.6	254.7	229.4	25.26	10.084		
5,300.0	5,228.2	5,308.3	5,188.7	17.2	20.6	37.26	47.3	1,025.1	255.7	230.0	25.67	9.958		
5,400.0	5,326.5	5,408.3	5,286.6	17.6	21.0	36.87	52.0	1,044.5	256.6	230.6	26.09	9.838		
5,500.0	5,424.8	5,508.3	5,384.6	18.0	21.4	36.49	56.7	1,064.0	257.6	231.2	26.50	9.724		
5,600.0	5,523.2	5,608.2	5,482.5	18.3	21.8	36.12	61.3	1,083.4	258.7	231.8	26.90	9.615		
5,700.0	5,621.5	5,708.2	5,580.5	18.7	22.2	35.74	66.0	1,102.9	259.7	232.4	27.30	9.512		
5,800.0	5,719.8	5,808.2	5,678.5	19.1	22.6	35.37	70.7	1,122.3	260.7	233.0	27.70	9.413		
5,900.0	5,818.1	5,908.2	5,776.4	19.4	23.0	35.00	75.4	1,141.7	261.8	233.7	28.09	9.318		
6,000.0	5,916.5	6,008.2	5,874.4	19.8	23.4	34.64	80.0	1,161.2	262.8	234.3	28.48	9.228		
6,100.0	6,014.8	6,108.2	5,972.3	20.2	23.7	34.28	84.7	1,180.6	263.9	235.0	28.87	9.142		
6,200.0	6,113.1	6,208.1	6,070.3	20.5	24.1	33.92	89.4	1,200.1	265.0	235.7	29.25	9.060		
6,300.0	6,211.5	6,308.1	6,168.3	20.9	24.5	33.56	94.1	1,219.5	266.1	236.4	29.63	8.981		
6,400.0	6,309.8	6,408.1	6,266.2	21.3	24.9	33.21	98.7	1,239.0	267.2	237.2	30.00	8.906		
6,500.0	6,408.1	6,508.1	6,364.2	21.6	25.3	32.86	103.4	1,258.4	268.3	237.9	30.37	8.833		
6,600.0	6,506.5	6,608.1	6,462.1	22.0	25.7	32.51	108.1	1,277.9	269.4	238.7	30.74	8.764		
6,700.0	6,604.8	6,708.0	6,560.1	22.4	26.1	32.16	112.8	1,297.3	270.5	239.4	31.10	8.698		
6,800.0	6,703.1	6,808.0	6,658.1	22.7	26.5	31.82	117.4	1,316.8	271.7	240.2	31.46	8.634		
6,900.0	6,801.4	6,908.0	6,756.0	23.1	26.9	31.48	122.1	1,336.2	272.8	241.0	31.82	8.573		
7,000.0	6,899.8	7,008.0	6,854.0	23.5	27.3	31.15	126.8	1,355.6	274.0	241.8	32.18	8.515		
7,100.0	6,998.1	7,108.0	6,951.9	23.8	27.7	30.81	131.5	1,375.1	275.1	242.6	32.53	8.459		
7,200.0	7,095.8	7,207.6	7,049.6	24.2	28.1	66.94	136.1	1,394.5	278.7	245.4	33.32	8.365		
7,300.0	7,190.2	7,304.8	7,144.8	24.7	28.4	86.49	140.7	1,413.4	289.0	254.0	34.97	8.264		
7,400.0	7,278.3	7,396.4	7,234.5	25.2	28.8	98.29	145.0	1,431.2	308.9	272.2	36.65	8.427		
7,500.0	7,357.6	7,510.7	7,346.0	25.8	29.3	108.64	156.1	1,453.3	339.3	301.1	38.18	8.886		
7,600.0	7,425.6	7,662.8	7,487.2	26.4	29.9	117.70	204.2	1,480.9	370.7	332.0	38.65	9.592		
7,700.0	7,480.3	7,846.3	7,633.7	27.1	30.8	124.45	309.6	1,509.1	396.7	359.0	37.70	10.521		
7,800.0	7,519.9	8,059.5	7,753.0	27.9	32.0	128.40	483.4	1,531.4	411.0	374.9	36.04	11.404		
7,900.0	7,543.4	8,284.4	7,802.7	28.8	33.5	128.97	701.1	1,539.4	409.0	374.4	34.62	11.813		
8,000.0	7,550.0	8,394.3	7,803.0	29.7	34.4	128.94	811.0	1,538.5	402.6	369.9	32.72	12.304		
8,100.0	7,550.0	8,494.3	7,803.0	30.7	35.2	129.09	911.0	1,537.6	401.3	366.3	34.92	11.492		
8,200.0	7,550.0	8,594.3	7,803.0	31.7	36.1	129.25	1,011.0	1,536.7	399.9	362.7	37.17	10.760		
8,300.0	7,550.0	8,694.3	7,803.0	32.8	37.1	129.41	1,110.9	1,535.8	398.6	359.1	39.46	10.101		
8,400.0	7,550.0	8,794.2	7,803.0	34.0	38.1	129.57	1,210.9	1,535.0	397.2	355.4	41.78	9.507		
8,500.0	7,550.0	8,894.2	7,803.0	35.2	39.2	129.73	1,310.9	1,534.1	395.9	351.7	44.13	8.970		
8,600.0	7,550.0	8,994.2	7,803.0	36.4	40.3	129.89	1,410.9	1,533.2	394.5	348.0	46.50	8.484		
8,700.0	7,550.0	9,094.2	7,803.0	37.7	41.4	130.05	1,510.9	1,532.3	393.2	344.3	48.88	8.044		
8,800.0	7,550.0	9,194.2	7,803.0	39.1	42.6	130.22	1,610.9	1,531.5	391.9	340.6	51.27	7.642		
8,900.0	7,550.0	9,294.2	7,803.0	40.4	43.9	130.38	1,710.8	1,530.6	390.5	336.9	53.67	7.276		
9,000.0	7,550.0	9,394.2	7,803.0	41.8	45.1	130.55	1,810.8	1,529.7	389.2	333.1	56.07	6.941		
9,100.0	7,550.0	9,494.1	7,803.0	43.2	46.5	130.72	1,910.8	1,528.9	387.9	329.4	58.48	6.633		
9,200.0	7,550.0	9,594.1	7,803.0	44.7	47.8	130.89	2,010.8	1,528.0	386.6	325.7	60.88	6.350		
9,300.0	7,550.0	9,694.1	7,803.0	46.2	49.1	131.06	2,110.8	1,527.1	385.2	322.0	63.28	6.088		
9,400.0	7,550.0	9,794.1	7,803.0	47.6	50.5	131.23	2,210.7	1,526.2	383.9	318.2	65.67	5.846		
9,500.0	7,550.0	9,894.1	7,803.0	49.1	51.9	131.40	2,310.7	1,525.4	382.6	314.6	68.06	5.622		
9,600.0	7,550.0	9,994.1	7,803.0	50.7	53.4	131.57	2,410.7	1,524.5	381.3	310.9	70.37	5.419		
9,700.0	7,550.0	10,094.1	7,803.0	52.2	54.8	131.67	2,510.7	1,523.6	380.6	308.1	72.52	5.248		
9,737.9	7,550.0	10,132.0	7,803.0	52.8	55.4	131.68	2,548.6	1,523.3	380.5	307.2	73.25	5.195		
9,800.0	7,550.0	10,194.1	7,803.0	53.7	56.3	131.65	2,610.7	1,522.7	380.7	306.3	74.48	5.112		
9,900.0	7,550.0	10,294.0	7,803.0	55.2	57.8	131.46	2,710.7	1,521.9	382.2	305.6	76.59	4.990		
10,000.0	7,550.0	10,394.0	7,803.0	56.8	59.3	131.12	2,810.6	1,521.0	385.0	306.1	78.87	4.881		
10,100.0	7,550.0	10,493.8	7,803.0	58.3	60.8	130.62	2,910.4	1,520.1	389.1	307.8	81.31	4.785		

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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				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	7,550.0	10,593.6	7,803.0	59.8	62.3	129.97	3,010.2	1,519.3	394.6	310.6	84.00	4.697		
10,300.0	7,550.0	10,693.2	7,803.0	61.4	63.8	129.25	3,109.9	1,518.4	400.6	313.2	87.44	4.582		
10,400.0	7,550.0	10,792.9	7,803.0	62.9	65.4	128.55	3,209.5	1,517.5	406.7	315.8	90.91	4.474		
10,500.0	7,550.0	10,892.6	7,803.0	64.5	66.9	127.87	3,309.2	1,516.7	412.9	318.5	94.39	4.375		
10,600.0	7,550.0	10,992.3	7,803.0	66.1	68.5	127.21	3,408.9	1,515.8	419.1	321.2	97.89	4.282		
10,700.0	7,550.0	11,092.0	7,803.0	67.7	70.0	126.58	3,508.6	1,514.9	425.4	324.0	101.41	4.195		
10,800.0	7,550.0	11,191.7	7,803.0	69.3	71.6	125.96	3,608.3	1,514.0	431.8	326.8	104.94	4.114		
10,900.0	7,550.0	11,291.4	7,803.0	70.9	73.2	125.35	3,708.0	1,513.2	438.1	329.6	108.49	4.039		
11,000.0	7,550.0	11,391.1	7,803.0	72.5	74.8	124.77	3,807.7	1,512.3	444.6	332.5	112.05	3.968		
11,100.0	7,550.0	11,490.8	7,803.0	74.1	76.4	124.20	3,907.4	1,511.4	451.0	335.4	115.61	3.901		
11,200.0	7,550.0	11,590.5	7,803.0	75.7	78.0	123.65	4,007.1	1,510.6	457.6	338.4	119.19	3.839		
11,300.0	7,550.0	11,690.2	7,803.0	77.4	79.6	123.11	4,106.7	1,509.7	464.1	341.3	122.78	3.780		
11,400.0	7,550.0	11,789.9	7,803.0	79.0	81.3	122.59	4,206.4	1,508.8	470.7	344.3	126.37	3.725		
11,500.0	7,550.0	11,889.5	7,803.0	80.6	82.9	122.09	4,306.1	1,508.0	477.3	347.4	129.97	3.673		
11,600.0	7,550.0	11,989.2	7,803.0	82.3	84.5	121.59	4,405.8	1,507.1	484.0	350.4	133.58	3.624		
11,700.0	7,550.0	12,088.9	7,803.0	83.9	86.1	121.11	4,505.5	1,506.2	490.7	353.5	137.19	3.577		
11,800.0	7,550.0	12,188.6	7,803.0	85.6	87.8	120.65	4,605.2	1,505.3	497.5	356.7	140.80	3.533		
13,500.0	7,550.0	13,885.1	7,803.0	114.6	116.2	120.87	6,301.6	1,490.5	494.3	296.8	197.56	2.502		
13,600.0	7,550.0	13,984.7	7,803.0	116.3	117.9	121.37	6,401.2	1,489.7	487.2	287.7	199.55	2.442		
13,700.0	7,550.0	14,084.4	7,803.0	118.1	119.5	121.89	6,500.9	1,488.8	480.2	278.7	201.46	2.383		
13,800.0	7,550.0	14,184.1	7,803.0	119.8	121.2	122.41	6,600.5	1,487.9	473.1	269.8	203.30	2.327		
13,900.0	7,550.0	14,283.7	7,803.0	121.6	122.9	122.96	6,700.2	1,487.1	466.2	261.1	205.05	2.273		
14,000.0	7,550.0	14,383.4	7,803.0	123.3	124.6	123.52	6,799.8	1,486.2	459.2	252.5	206.71	2.222		
14,100.0	7,550.0	14,483.0	7,803.0	125.1	126.3	124.10	6,899.5	1,485.3	452.3	244.1	208.27	2.172		
14,200.0	7,550.0	14,582.7	7,803.0	126.8	128.0	124.70	6,999.1	1,484.5	445.5	235.8	209.73	2.124		
14,300.0	7,550.0	14,682.3	7,803.0	128.5	129.7	125.31	7,098.8	1,483.6	438.7	227.6	211.09	2.078		
14,369.9	7,550.0	14,752.0	7,803.0	129.8	130.9	125.75	7,168.5	1,483.0	434.0	222.0	211.97	2.047 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		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	90.00	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	11.2	11.2	10.9	0.26	42.762		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	11.2	11.2	10.6	0.61	18.327 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	90.00	0.0	12.1	12.1	11.1	0.96	12.562		
400.0	400.0	399.6	399.5	0.7	0.7	12.02	0.0	14.7	13.8	12.5	1.31	10.567		
500.0	500.0	499.3	499.1	0.8	0.8	13.82	0.0	19.0	15.6	14.0	1.66	9.430		
600.0	599.9	599.0	598.7	1.0	1.0	16.35	0.0	25.1	17.5	15.5	2.01	8.718		
700.0	699.7	698.6	698.0	1.2	1.3	19.37	0.0	32.9	19.5	17.1	2.36	8.250		
800.0	799.4	798.2	797.2	1.4	1.5	22.70	0.0	42.4	21.6	18.8	2.72	7.935		
900.0	898.9	897.8	896.1	1.7	1.7	26.21	0.0	53.6	23.8	20.8	3.09	7.716		
1,000.0	998.3	997.4	994.8	1.9	2.0	29.77	0.0	66.6	26.3	22.8	3.48	7.558		
1,100.0	1,097.4	1,096.9	1,093.2	2.2	2.3	33.32	0.0	81.2	29.0	25.1	3.91	7.432		
1,200.0	1,196.3	1,196.3	1,191.3	2.5	2.6	36.77	0.0	97.6	32.0	27.6	4.37	7.321		
1,300.0	1,294.9	1,295.7	1,289.1	2.8	3.0	40.08	0.0	115.7	35.3	30.4	4.89	7.212		
1,400.0	1,393.3	1,395.1	1,386.4	3.1	3.4	43.00	0.0	135.4	39.0	33.5	5.46	7.146 SF		
1,500.0	1,491.6	1,494.4	1,483.4	3.5	3.8	44.34	0.0	156.8	44.1	38.1	6.02	7.322		
1,600.0	1,590.0	1,593.5	1,579.8	3.8	4.2	44.31	0.0	179.8	50.6	44.1	6.56	7.719		
1,700.0	1,688.3	1,692.3	1,675.5	4.2	4.7	43.37	0.0	204.4	58.7	51.6	7.07	8.298		
1,800.0	1,786.6	1,790.9	1,770.6	4.5	5.2	41.90	0.0	230.7	68.1	60.6	7.54	9.035		
1,900.0	1,884.9	1,889.2	1,864.9	4.9	5.7	40.18	0.0	258.4	79.1	71.2	7.99	9.911		
2,000.0	1,983.3	1,987.8	1,959.0	5.2	6.2	38.44	0.0	287.7	91.5	83.1	8.41	10.890		
2,100.0	2,081.6	2,086.9	2,053.6	5.6	6.8	37.05	0.0	317.3	104.2	95.4	8.83	11.798		
2,200.0	2,179.9	2,186.1	2,148.2	6.0	7.3	35.96	0.0	346.9	116.9	107.6	9.26	12.620		
2,300.0	2,278.3	2,285.3	2,242.9	6.3	7.9	35.09	0.0	376.6	129.6	119.9	9.70	13.366		
2,400.0	2,376.6	2,384.5	2,337.5	6.7	8.4	34.37	0.0	406.2	142.4	132.2	10.14	14.046		
2,500.0	2,474.9	2,483.6	2,432.1	7.0	9.0	33.77	0.0	435.9	155.1	144.6	10.58	14.667		
2,600.0	2,573.3	2,582.8	2,526.8	7.4	9.5	33.26	0.0	465.5	167.9	156.9	11.02	15.237		
2,700.0	2,671.6	2,682.0	2,621.4	7.8	10.1	32.83	0.0	495.2	180.7	169.3	11.47	15.761		
2,800.0	2,769.9	2,781.1	2,716.1	8.1	10.7	32.45	0.0	524.8	193.5	181.6	11.91	16.245		
2,900.0	2,868.2	2,880.3	2,810.7	8.5	11.2	32.12	0.0	554.4	206.4	194.0	12.36	16.693		
3,000.0	2,966.6	2,979.5	2,905.3	8.8	11.8	31.82	0.0	584.1	219.2	206.4	12.81	17.109		
3,100.0	3,064.9	3,078.6	3,000.0	9.2	12.3	31.56	0.0	613.7	232.0	218.8	13.26	17.496		
3,200.0	3,163.2	3,177.8	3,094.6	9.6	12.9	31.33	0.0	643.4	244.8	231.1	13.71	17.857		
3,300.0	3,261.6	3,277.0	3,189.2	9.9	13.5	31.12	0.0	673.0	257.7	243.5	14.16	18.194		
3,400.0	3,359.9	3,376.1	3,283.9	10.3	14.0	30.93	0.0	702.7	270.5	255.9	14.61	18.510		
3,500.0	3,458.2	3,475.3	3,378.5	10.7	14.6	30.76	0.0	732.3	283.4	268.3	15.07	18.807		
3,600.0	3,556.6	3,574.5	3,473.1	11.0	15.1	30.60	0.0	761.9	296.2	280.7	15.52	19.086		
3,700.0	3,654.9	3,673.6	3,567.8	11.4	15.7	30.45	0.0	791.6	309.0	293.1	15.97	19.349		
3,800.0	3,753.2	3,772.8	3,662.4	11.8	16.3	30.32	0.0	821.2	321.9	305.5	16.43	19.598		
3,900.0	3,851.5	3,872.0	3,757.0	12.1	16.8	30.20	0.0	850.9	334.7	317.9	16.88	19.832		
4,000.0	3,949.9	3,971.2	3,851.7	12.5	17.4	30.08	0.0	880.5	347.6	330.3	17.33	20.055		
4,100.0	4,048.2	4,070.3	3,946.3	12.9	18.0	29.98	0.0	910.2	360.4	342.7	17.79	20.265		
4,200.0	4,146.5	4,169.5	4,040.9	13.2	18.5	29.88	0.0	939.8	373.3	355.1	18.24	20.465		
4,300.0	4,244.9	4,268.7	4,135.6	13.6	19.1	29.79	0.0	969.4	386.2	367.5	18.70	20.655		
4,400.0	4,343.2	4,367.8	4,230.2	14.0	19.7	29.70	0.0	999.1	399.0	379.9	19.15	20.836		
4,500.0	4,441.5	4,467.0	4,324.8	14.3	20.2	29.62	0.0	1,028.7	411.9	392.3	19.60	21.009		
4,600.0	4,539.9	4,566.2	4,419.5	14.7	20.8	29.55	0.0	1,058.4	424.7	404.7	20.06	21.173		
4,700.0	4,638.2	4,665.3	4,514.1	15.1	21.4	29.47	0.0	1,088.0	437.6	417.1	20.51	21.330		
4,800.0	4,736.5	4,764.5	4,608.7	15.4	21.9	29.41	0.0	1,117.6	450.4	429.5	20.97	21.480		
4,900.0	4,834.8	4,863.7	4,703.4	15.8	22.5	29.34	0.0	1,147.3	463.3	441.9	21.42	21.624		
5,000.0	4,933.2	4,962.8	4,798.0	16.2	23.1	29.28	0.0	1,176.9	476.1	454.3	21.88	21.762		
5,100.0	5,031.5	5,062.0	4,892.7	16.5	23.6	29.23	0.0	1,206.6	489.0	466.7	22.34	21.894		

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-94.48	-7.9	-100.4	100.7					
100.0	100.0	97.0	97.0	0.1	0.1	-94.48	-7.9	-100.4	100.7	100.4	0.26	390.372		
200.0	200.0	197.0	197.0	0.3	0.3	-94.48	-7.9	-100.4	100.7	100.1	0.61	166.218	CC, ES	
300.0	300.0	296.0	296.0	0.5	0.5	-94.12	-7.3	-100.9	101.2	100.2	0.95	106.093		
400.0	400.0	394.9	394.8	0.7	0.7	-171.75	-5.4	-102.5	103.6	102.3	1.30	79.441		
500.0	500.0	493.5	493.4	0.8	0.8	-170.19	-2.2	-105.3	108.8	107.2	1.66	65.652		
600.0	599.9	591.9	591.6	1.0	1.0	-168.30	2.2	-109.2	117.0	115.0	2.02	58.026		
700.0	699.7	689.7	689.1	1.2	1.2	-166.29	7.9	-114.1	128.1	125.7	2.38	53.833		
800.0	799.4	787.0	786.0	1.4	1.5	-164.29	14.8	-120.1	142.3	139.5	2.75	51.736		
900.0	898.9	884.1	882.5	1.7	1.7	-162.42	22.8	-127.2	159.4	156.2	3.12	51.010		
1,000.0	998.3	982.1	979.9	1.9	1.9	-160.95	31.3	-134.5	178.6	175.1	3.50	50.959	SF	
1,100.0	1,097.4	1,079.9	1,077.0	2.2	2.2	-159.93	39.7	-141.9	199.5	195.6	3.89	51.315		
1,200.0	1,196.3	1,177.3	1,173.7	2.5	2.4	-159.24	48.2	-149.3	222.0	217.7	4.27	51.950		
1,300.0	1,294.9	1,274.3	1,270.1	2.8	2.7	-158.81	56.5	-156.6	246.1	241.5	4.66	52.782		
1,400.0	1,393.3	1,371.0	1,366.2	3.1	3.0	-158.60	64.9	-163.9	271.6	266.6	5.06	53.682		
1,500.0	1,491.6	1,467.6	1,462.2	3.5	3.2	-158.48	73.2	-171.2	297.3	291.8	5.46	54.421		
1,600.0	1,590.0	1,564.3	1,558.2	3.8	3.5	-158.38	81.6	-178.5	323.0	317.1	5.87	55.041		
1,700.0	1,688.3	1,660.9	1,654.2	4.2	3.7	-158.29	90.0	-185.8	348.7	342.4	6.27	55.568		
1,800.0	1,786.6	1,757.6	1,750.2	4.5	4.0	-158.21	98.3	-193.1	374.4	367.7	6.68	56.022		
1,900.0	1,884.9	1,854.2	1,846.2	4.9	4.2	-158.15	106.7	-200.4	400.1	393.0	7.09	56.415		
2,000.0	1,983.3	1,950.9	1,942.2	5.2	4.5	-158.09	115.0	-207.6	425.8	418.2	7.50	56.759		
2,100.0	2,081.6	2,047.5	2,038.2	5.6	4.7	-158.04	123.4	-214.9	451.4	443.5	7.91	57.062		
2,200.0	2,179.9	2,144.1	2,134.2	6.0	5.0	-158.00	131.7	-222.2	477.1	468.8	8.32	57.332		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		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	-91.14	-1.9	-95.3	95.4					
100.0	100.0	97.0	97.0	0.1	0.1	-91.14	-1.9	-95.3	95.3	95.1	0.26	369.745		
200.0	200.0	197.0	197.0	0.3	0.3	-91.14	-1.9	-95.3	95.3	94.7	0.61	157.435		
300.0	300.0	297.0	297.0	0.5	0.5	-91.14	-1.9	-95.3	95.3	94.4	0.95	99.872 CC, ES		
400.0	400.0	396.6	396.6	0.7	0.6	-169.44	-1.1	-95.6	96.4	95.1	1.30	73.965		
500.0	500.0	496.0	496.0	0.8	0.8	-168.30	1.3	-96.2	99.7	98.0	1.66	60.220		
600.0	599.9	595.3	595.2	1.0	1.0	-166.54	5.4	-97.4	105.2	103.2	2.01	52.268		
700.0	699.7	694.3	694.0	1.2	1.2	-164.35	11.1	-99.1	113.1	110.7	2.38	47.534		
800.0	799.4	792.9	792.3	1.4	1.4	-161.96	18.5	-101.2	123.4	120.7	2.76	44.770		
900.0	898.9	891.8	890.8	1.7	1.6	-159.69	27.0	-103.6	136.1	132.9	3.14	43.300		
1,000.0	998.3	990.6	989.2	1.9	1.8	-158.02	35.6	-106.0	150.5	147.0	3.53	42.587		
1,100.0	1,097.4	1,089.3	1,087.5	2.2	2.1	-156.86	44.1	-108.5	166.6	162.7	3.93	42.386 SF		
1,200.0	1,196.3	1,187.7	1,185.5	2.5	2.3	-156.11	52.6	-110.9	184.4	180.0	4.33	42.544		
1,300.0	1,294.9	1,285.8	1,283.2	2.8	2.5	-155.68	61.1	-113.3	203.7	199.0	4.74	42.961		
1,400.0	1,393.3	1,383.6	1,380.6	3.1	2.7	-155.51	69.6	-115.8	224.4	219.2	5.16	43.516		
1,500.0	1,491.6	1,481.4	1,478.0	3.5	3.0	-155.42	78.1	-118.2	245.3	239.7	5.58	43.973		
1,600.0	1,590.0	1,579.2	1,575.4	3.8	3.2	-155.35	86.6	-120.6	266.1	260.1	6.00	44.349		
1,700.0	1,688.3	1,677.0	1,672.8	4.2	3.4	-155.29	95.0	-123.0	287.0	280.6	6.43	44.663		
1,800.0	1,786.6	1,774.8	1,770.2	4.5	3.6	-155.24	103.5	-125.4	307.9	301.0	6.85	44.930		
1,900.0	1,884.9	1,872.6	1,867.6	4.9	3.9	-155.19	112.0	-127.9	328.7	321.5	7.28	45.157		
2,000.0	1,983.3	1,970.4	1,965.0	5.2	4.1	-155.15	120.5	-130.3	349.6	341.9	7.71	45.354		
2,100.0	2,081.6	2,068.2	2,062.4	5.6	4.3	-155.12	128.9	-132.7	370.5	362.3	8.14	45.525		
2,200.0	2,179.9	2,166.0	2,159.8	6.0	4.6	-155.08	137.4	-135.1	391.4	382.8	8.57	45.675		
2,300.0	2,278.3	2,263.8	2,257.2	6.3	4.8	-155.05	145.9	-137.6	412.2	403.2	9.00	45.808		
2,400.0	2,376.6	2,361.6	2,354.6	6.7	5.0	-155.03	154.3	-140.0	433.1	423.7	9.43	45.926		
2,500.0	2,474.9	2,459.4	2,452.0	7.0	5.2	-155.00	162.8	-142.4	454.0	444.1	9.86	46.032		
2,600.0	2,573.3	2,557.2	2,549.4	7.4	5.5	-154.98	171.3	-144.8	474.8	464.5	10.29	46.127		
2,700.0	2,671.6	2,655.0	2,646.8	7.8	5.7	-154.96	179.8	-147.2	495.7	485.0	10.73	46.212		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		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	-95.01	-7.9	-90.4	90.8					
100.0	100.0	97.0	97.0	0.1	0.1	-95.01	-7.9	-90.4	90.7	90.4	0.26	351.742		
200.0	200.0	197.0	197.0	0.3	0.3	-95.01	-7.9	-90.4	90.7	90.1	0.61	149.769		
300.0	300.0	297.0	297.0	0.5	0.5	-95.01	-7.9	-90.4	90.7	89.8	0.95	95.009 CC, ES		
400.0	400.0	397.0	397.0	0.7	0.6	-173.75	-7.9	-90.4	91.6	90.3	1.30	70.243		
500.0	500.0	497.5	497.5	0.8	0.8	-173.45	-7.1	-90.1	93.9	92.2	1.65	56.768		
600.0	599.9	598.0	598.0	1.0	1.0	-172.31	-4.6	-89.4	97.3	95.3	2.01	48.509		
700.0	699.7	698.4	698.3	1.2	1.2	-170.46	-0.4	-88.2	102.0	99.6	2.36	43.127		
800.0	799.4	798.7	798.4	1.4	1.4	-168.05	5.4	-86.6	108.0	105.2	2.73	39.501		
900.0	898.9	898.7	898.1	1.7	1.6	-165.26	12.9	-84.4	115.4	112.3	3.12	37.025		
1,000.0	998.3	998.3	997.2	1.9	1.8	-162.46	21.7	-81.9	124.5	121.0	3.51	35.437		
1,100.0	1,097.4	1,097.5	1,096.1	2.2	2.0	-160.26	30.5	-79.4	135.5	131.6	3.92	34.564		
1,200.0	1,196.3	1,196.6	1,194.8	2.5	2.2	-158.62	39.2	-76.9	148.3	143.9	4.34	34.196		
1,300.0	1,294.9	1,295.5	1,293.2	2.8	2.5	-157.46	48.0	-74.4	162.7	158.0	4.76	34.194 SF		
1,400.0	1,393.3	1,394.3	1,391.5	3.1	2.7	-156.70	56.7	-71.9	178.6	173.4	5.19	34.410		
1,500.0	1,491.6	1,492.9	1,489.8	3.5	2.9	-156.12	65.4	-69.4	194.7	189.1	5.63	34.582		
1,600.0	1,590.0	1,591.6	1,588.1	3.8	3.2	-155.63	74.2	-66.9	210.8	204.7	6.07	34.707		
1,700.0	1,688.3	1,690.3	1,686.3	4.2	3.4	-155.20	82.9	-64.4	226.9	220.4	6.52	34.800		
1,800.0	1,786.6	1,789.0	1,784.6	4.5	3.6	-154.83	91.6	-61.9	243.0	236.1	6.97	34.868		
1,900.0	1,884.9	1,887.7	1,882.8	4.9	3.8	-154.51	100.4	-59.4	259.2	251.7	7.42	34.918		
2,000.0	1,983.3	1,986.3	1,981.1	5.2	4.1	-154.23	109.1	-57.0	275.3	267.4	7.88	34.954		
2,100.0	2,081.6	2,085.0	2,079.4	5.6	4.3	-153.97	117.8	-54.5	291.5	283.1	8.33	34.980		
2,200.0	2,179.9	2,183.7	2,177.6	6.0	4.5	-153.75	126.5	-52.0	307.6	298.8	8.79	34.998		
2,300.0	2,278.3	2,282.4	2,275.9	6.3	4.8	-153.54	135.3	-49.5	323.8	314.5	9.25	35.010		
2,400.0	2,376.6	2,381.0	2,374.1	6.7	5.0	-153.36	144.0	-47.0	339.9	330.2	9.71	35.017		
2,500.0	2,474.9	2,479.7	2,472.4	7.0	5.2	-153.19	152.7	-44.5	356.1	345.9	10.17	35.020		
2,600.0	2,573.3	2,578.4	2,570.7	7.4	5.5	-153.04	161.5	-42.0	372.3	361.6	10.63	35.021		
2,700.0	2,671.6	2,677.1	2,668.9	7.8	5.7	-152.90	170.2	-39.5	388.4	377.3	11.09	35.020		
2,800.0	2,769.9	2,775.8	2,767.2	8.1	5.9	-152.77	178.9	-37.0	404.6	393.1	11.55	35.017		
2,900.0	2,868.2	2,874.4	2,865.4	8.5	6.2	-152.65	187.6	-34.5	420.8	408.8	12.02	35.013		
3,000.0	2,966.6	2,973.1	2,963.7	8.8	6.4	-152.54	196.4	-32.0	437.0	424.5	12.48	35.007		
3,100.0	3,064.9	3,071.8	3,062.0	9.2	6.6	-152.44	205.1	-29.5	453.1	440.2	12.95	35.001		
3,200.0	3,163.2	3,170.5	3,160.2	9.6	6.9	-152.34	213.8	-27.0	469.3	455.9	13.41	34.995		
3,300.0	3,261.6	3,269.2	3,258.5	9.9	7.1	-152.25	222.6	-24.5	485.5	471.6	13.88	34.987		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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	-91.30	-1.9	-85.3	85.4					
100.0	100.0	97.0	97.0	0.1	0.1	-91.30	-1.9	-85.3	85.4	0.26	330.980			
200.0	200.0	197.0	197.0	0.3	0.3	-91.30	-1.9	-85.3	85.4	0.61	140.929			
300.0	300.0	297.0	297.0	0.5	0.5	-91.30	-1.9	-85.3	85.4	0.95	89.401	CC, ES		
400.0	400.0	397.0	397.0	0.7	0.6	-170.09	-1.9	-85.3	86.2	1.30	66.130			
500.0	500.0	497.0	497.0	0.8	0.8	-170.37	-1.9	-85.3	88.8	1.65	53.735			
600.0	599.9	597.9	597.9	1.0	1.0	-170.43	-1.3	-84.8	92.6	2.00	46.213			
700.0	699.7	698.9	698.8	1.2	1.2	-169.85	0.8	-83.2	96.9	2.35	41.151			
800.0	799.4	799.8	799.7	1.4	1.4	-168.72	4.2	-80.4	101.9	2.71	37.575			
900.0	898.9	900.8	900.4	1.7	1.6	-167.15	9.0	-76.6	107.5	3.07	34.958			
1,000.0	998.3	1,001.7	1,001.0	1.9	1.8	-165.23	15.2	-71.6	113.9	3.45	32.987			
1,100.0	1,097.4	1,102.5	1,101.4	2.2	2.0	-163.04	22.8	-65.6	121.0	3.85	31.462			
1,200.0	1,196.3	1,202.7	1,201.0	2.5	2.2	-160.74	31.6	-58.5	129.2	4.26	30.299			
1,300.0	1,294.9	1,302.1	1,299.7	2.8	2.5	-158.86	40.5	-51.4	138.9	4.69	29.604			
1,400.0	1,393.3	1,401.4	1,398.4	3.1	2.7	-157.46	49.5	-44.2	150.2	5.14	29.240			
1,500.0	1,491.6	1,500.7	1,497.0	3.5	3.0	-156.31	58.4	-37.1	161.8	5.60	28.913			
1,600.0	1,590.0	1,600.0	1,595.6	3.8	3.2	-155.31	67.4	-29.9	173.4	6.06	28.603			
1,700.0	1,688.3	1,699.3	1,694.2	4.2	3.5	-154.43	76.3	-22.8	185.1	6.54	28.313			
1,800.0	1,786.6	1,798.6	1,792.8	4.5	3.7	-153.66	85.3	-15.6	196.8	7.02	28.043			
1,900.0	1,884.9	1,897.8	1,891.4	4.9	4.0	-152.98	94.2	-8.5	208.5	7.50	27.793			
2,000.0	1,983.3	1,997.1	1,990.1	5.2	4.2	-152.37	103.2	-1.3	220.3	7.99	27.560			
2,100.0	2,081.6	2,096.4	2,088.7	5.6	4.5	-151.82	112.1	5.9	232.0	8.49	27.346			
2,200.0	2,179.9	2,195.7	2,187.3	6.0	4.7	-151.32	121.1	13.0	243.8	8.98	27.147			
2,300.0	2,278.3	2,295.0	2,285.9	6.3	5.0	-150.87	130.0	20.2	255.6	9.48	26.962			
2,400.0	2,376.6	2,394.2	2,384.5	6.7	5.3	-150.46	139.0	27.3	267.5	9.98	26.791			
2,500.0	2,474.9	2,493.5	2,483.1	7.0	5.5	-150.09	147.9	34.5	279.3	10.49	26.633			
2,600.0	2,573.3	2,592.8	2,581.8	7.4	5.8	-149.74	156.9	41.6	291.2	10.99	26.485			
2,700.0	2,671.6	2,692.1	2,680.4	7.8	6.0	-149.42	165.8	48.8	303.0	11.50	26.347			
2,800.0	2,769.9	2,791.4	2,779.0	8.1	6.3	-149.13	174.8	55.9	314.9	12.01	26.219			
2,900.0	2,868.2	2,890.6	2,877.6	8.5	6.6	-148.86	183.8	63.1	326.8	12.52	26.099			
3,000.0	2,966.6	2,989.9	2,976.2	8.8	6.8	-148.60	192.7	70.2	338.6	13.03	25.986			
3,100.0	3,064.9	3,089.2	3,074.9	9.2	7.1	-148.37	201.7	77.4	350.5	13.54	25.881			
3,200.0	3,163.2	3,188.5	3,173.5	9.6	7.4	-148.15	210.6	84.5	362.4	14.06	25.781			
3,300.0	3,261.6	3,287.8	3,272.1	9.9	7.6	-147.94	219.6	91.7	374.3	14.57	25.688			
3,400.0	3,359.9	3,387.0	3,370.7	10.3	7.9	-147.74	228.5	98.9	386.2	15.09	25.600			
3,500.0	3,458.2	3,486.3	3,469.3	10.7	8.1	-147.56	237.5	106.0	398.1	15.60	25.517			
3,600.0	3,556.6	3,585.6	3,567.9	11.0	8.4	-147.39	246.4	113.2	410.1	16.12	25.439			
3,700.0	3,654.9	3,684.9	3,666.6	11.4	8.7	-147.23	255.4	120.3	422.0	16.64	25.365			
3,800.0	3,753.2	3,784.2	3,765.2	11.8	8.9	-147.07	264.3	127.5	433.9	17.15	25.294			
3,900.0	3,851.5	3,883.4	3,863.8	12.1	9.2	-146.93	273.3	134.6	445.8	17.67	25.227			
4,000.0	3,949.9	3,982.7	3,962.4	12.5	9.5	-146.79	282.2	141.8	457.7	18.19	25.164			
4,100.0	4,048.2	4,082.0	4,061.0	12.9	9.7	-146.66	291.2	148.9	469.7	18.71	25.104			
4,200.0	4,146.5	4,181.3	4,159.6	13.2	10.0	-146.54	300.1	156.1	481.6	19.23	25.046			
4,300.0	4,244.9	4,280.6	4,258.3	13.6	10.2	-146.42	309.1	163.2	493.5	19.75	24.992	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-96.50	-8.0	-70.4	70.9					
100.0	100.0	97.0	97.0	0.1	0.1	-96.50	-8.0	-70.4	70.8	70.6	0.26	274.609		
200.0	200.0	197.0	197.0	0.3	0.3	-96.50	-8.0	-70.4	70.8	70.2	0.61	116.927		
300.0	300.0	297.0	297.0	0.5	0.5	-96.50	-8.0	-70.4	70.8	69.9	0.95	74.175	CC, ES	
400.0	400.0	397.0	397.0	0.7	0.6	-175.24	-8.0	-70.4	71.7	70.4	1.30	54.988		
500.0	500.0	497.0	497.0	0.8	0.8	-175.41	-8.0	-70.4	74.3	72.6	1.65	44.965		
600.0	599.9	596.9	596.9	1.0	1.0	-175.66	-8.0	-70.4	78.6	76.6	2.00	39.314		
700.0	699.7	696.7	696.7	1.2	1.2	-175.97	-8.0	-70.4	84.7	82.4	2.35	36.090		
800.0	799.4	796.4	796.4	1.4	1.3	-176.30	-8.0	-70.4	92.6	89.9	2.69	34.353		
900.0	898.9	895.9	895.9	1.7	1.5	-176.64	-8.0	-70.4	102.1	99.1	3.04	33.596		
1,000.0	998.3	995.3	995.3	1.9	1.7	-176.97	-8.0	-70.4	113.4	110.0	3.38	33.518		
1,100.0	1,097.4	1,096.2	1,096.2	2.2	1.9	-177.10	-7.5	-69.7	125.8	122.0	3.73	33.717		
1,200.0	1,196.3	1,197.5	1,197.4	2.5	2.0	-176.88	-5.9	-67.7	138.3	134.3	4.08	33.930		
1,300.0	1,294.9	1,298.9	1,298.7	2.8	2.2	-176.39	-3.2	-64.2	151.1	146.7	4.42	34.151		
1,400.0	1,393.3	1,400.4	1,400.1	3.1	2.4	-175.69	0.6	-59.3	163.9	159.1	4.78	34.293		
1,500.0	1,491.6	1,502.3	1,501.7	3.5	2.6	-174.79	5.5	-53.0	175.3	170.2	5.14	34.105		
1,600.0	1,590.0	1,604.5	1,603.4	3.8	2.8	-173.70	11.6	-45.3	185.4	179.9	5.51	33.628		
1,700.0	1,688.3	1,706.9	1,705.1	4.2	3.1	-172.42	18.8	-36.0	194.0	188.1	5.90	32.905		
1,800.0	1,786.6	1,809.4	1,806.7	4.5	3.3	-170.95	27.1	-25.4	201.2	194.9	6.29	31.971		
1,900.0	1,884.9	1,912.0	1,908.1	4.9	3.6	-169.28	36.6	-13.3	207.2	200.5	6.71	30.854		
2,000.0	1,983.3	2,012.0	2,006.9	5.2	3.9	-167.56	46.5	-0.6	212.4	205.3	7.15	29.703		
2,100.0	2,081.6	2,111.7	2,105.3	5.6	4.1	-165.92	56.4	12.0	217.8	210.2	7.60	28.646		
2,200.0	2,179.9	2,211.4	2,203.6	6.0	4.4	-164.37	66.2	24.7	223.4	215.3	8.07	27.670		
2,300.0	2,278.3	2,311.0	2,302.0	6.3	4.7	-162.89	76.1	37.3	229.1	220.5	8.56	26.768		
2,400.0	2,376.6	2,410.7	2,400.4	6.7	5.0	-161.48	86.0	49.9	234.9	225.9	9.06	25.935		
2,500.0	2,474.9	2,510.4	2,498.7	7.0	5.3	-160.14	95.8	62.6	240.9	231.4	9.57	25.165		
2,600.0	2,573.3	2,610.0	2,597.1	7.4	5.6	-158.87	105.7	75.2	247.1	236.9	10.10	24.454		
2,700.0	2,671.6	2,709.7	2,695.5	7.8	5.9	-157.65	115.6	87.9	253.3	242.6	10.64	23.797		
2,800.0	2,769.9	2,809.4	2,793.8	8.1	6.3	-156.50	125.5	100.5	259.6	248.4	11.20	23.189		
2,900.0	2,868.2	2,909.0	2,892.2	8.5	6.6	-155.41	135.3	113.1	266.1	254.3	11.76	22.626		
3,000.0	2,966.6	3,008.7	2,990.6	8.8	6.9	-154.36	145.2	125.8	272.6	260.3	12.33	22.106		
3,100.0	3,064.9	3,108.4	3,088.9	9.2	7.2	-153.36	155.1	138.4	279.2	266.3	12.91	21.624		
3,200.0	3,163.2	3,208.0	3,187.3	9.6	7.5	-152.41	165.0	151.0	285.9	272.4	13.50	21.177		
3,300.0	3,261.6	3,307.7	3,285.7	9.9	7.8	-151.51	174.8	163.7	292.7	278.6	14.10	20.762		
3,400.0	3,359.9	3,407.4	3,384.0	10.3	8.2	-150.64	184.7	176.3	299.6	284.9	14.70	20.376		
3,500.0	3,458.2	3,507.0	3,482.4	10.7	8.5	-149.82	194.6	189.0	306.5	291.2	15.31	20.018		
3,600.0	3,556.6	3,606.7	3,580.8	11.0	8.8	-149.03	204.5	201.6	313.5	297.5	15.93	19.684		
3,700.0	3,654.9	3,706.4	3,679.1	11.4	9.1	-148.27	214.3	214.2	320.5	304.0	16.54	19.372		
3,800.0	3,753.2	3,806.0	3,777.5	11.8	9.5	-147.55	224.2	226.9	327.6	310.4	17.17	19.082		
3,900.0	3,851.5	3,905.7	3,875.9	12.1	9.8	-146.86	234.1	239.5	334.7	316.9	17.79	18.810		
4,000.0	3,949.9	4,005.4	3,974.2	12.5	10.1	-146.19	244.0	252.1	341.9	323.5	18.43	18.556		
4,100.0	4,048.2	4,105.0	4,072.6	12.9	10.4	-145.56	253.8	264.8	349.1	330.1	19.06	18.318		
4,200.0	4,146.5	4,204.7	4,171.0	13.2	10.8	-144.95	263.7	277.4	356.4	336.7	19.70	18.094		
4,300.0	4,244.9	4,304.3	4,269.3	13.6	11.1	-144.36	273.6	290.1	363.7	343.4	20.34	17.884		
4,400.0	4,343.2	4,404.0	4,367.7	14.0	11.4	-143.80	283.4	302.7	371.0	350.1	20.98	17.687		
4,500.0	4,441.5	4,503.7	4,466.1	14.3	11.7	-143.26	293.3	315.3	378.4	356.8	21.62	17.501		
4,600.0	4,539.9	4,603.3	4,564.4	14.7	12.1	-142.74	303.2	328.0	385.8	363.5	22.27	17.326		
4,700.0	4,638.2	4,703.0	4,662.8	15.1	12.4	-142.24	313.1	340.6	393.3	370.3	22.92	17.160		
4,800.0	4,736.5	4,802.7	4,761.2	15.4	12.7	-141.76	322.9	353.2	400.7	377.2	23.57	17.004		
4,900.0	4,834.8	4,902.3	4,859.5	15.8	13.0	-141.29	332.8	365.9	408.2	384.0	24.22	16.856		
5,000.0	4,933.2	5,002.0	4,957.9	16.2	13.4	-140.85	342.7	378.5	415.7	390.9	24.87	16.716		
5,100.0	5,031.5	5,101.7	5,056.3	16.5	13.7	-140.42	352.6	391.2	423.3	397.8	25.52	16.584		

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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 #2		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
5,200.0	5,129.8	5,201.3	5,154.6	16.9	14.0	-140.00	362.4	403.8	430.8	404.7	26.18	16.458					
5,300.0	5,228.2	5,301.0	5,253.0	17.2	14.3	-139.60	372.3	416.4	438.4	411.6	26.83	16.338					
5,400.0	5,326.5	5,400.7	5,351.4	17.6	14.7	-139.21	382.2	429.1	446.0	418.6	27.49	16.224					
5,500.0	5,424.8	5,500.3	5,449.7	18.0	15.0	-138.83	392.1	441.7	453.7	425.5	28.15	16.116					
5,600.0	5,523.2	5,600.0	5,548.1	18.3	15.3	-138.47	401.9	454.4	461.3	432.5	28.81	16.013					
5,700.0	5,621.5	5,699.7	5,646.5	18.7	15.7	-138.12	411.8	467.0	469.0	439.5	29.47	15.915					
5,800.0	5,719.8	5,799.3	5,744.8	19.1	16.0	-137.78	421.7	479.6	476.7	446.5	30.13	15.822					
5,900.0	5,818.1	5,899.0	5,843.2	19.4	16.3	-137.45	431.6	492.3	484.4	453.6	30.79	15.732					
6,000.0	5,916.5	5,998.7	5,941.6	19.8	16.6	-137.13	441.4	504.9	492.1	460.6	31.45	15.647					
6,100.0	6,014.8	6,098.3	6,039.9	20.2	17.0	-136.82	451.3	517.5	499.8	467.7	32.11	15.565					
7,600.0	7,425.6	7,626.8	7,526.7	26.4	20.9	-103.46	457.2	718.6	492.4	461.5	30.94	15.916					
7,622.4	7,439.1	7,627.8	7,527.4	26.6	20.9	-103.24	456.7	718.7	491.9	460.8	31.12	15.809					
7,700.0	7,480.3	7,624.0	7,524.4	27.1	20.9	-101.16	458.9	718.2	498.0	465.9	32.10	15.515 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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							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	-91.79	-2.0	-65.3	65.4						
100.0	100.0	97.0	97.0	0.1	0.1	-91.79	-2.0	-65.3	65.4	65.1	0.26	253.461			
200.0	200.0	197.0	197.0	0.3	0.3	-91.79	-2.0	-65.3	65.4	64.8	0.61	107.922			
300.0	300.0	297.0	297.0	0.5	0.5	-91.79	-2.0	-65.3	65.4	64.4	0.95	68.462	CC		
400.0	400.0	398.0	398.0	0.7	0.7	-170.28	-1.6	-64.6	65.5	64.2	1.31	50.153			
500.0	500.0	499.0	499.0	0.8	0.8	-169.65	-0.4	-62.3	65.7	64.1	1.66	39.671	ES		
600.0	599.9	600.1	599.9	1.0	1.0	-168.60	1.6	-58.4	66.2	64.2	2.01	32.908			
700.0	699.7	701.1	700.7	1.2	1.2	-167.16	4.5	-52.9	66.8	64.4	2.37	28.201			
800.0	799.4	802.1	801.4	1.4	1.4	-165.33	8.3	-45.9	67.6	64.9	2.73	24.747			
900.0	898.9	903.0	901.9	1.7	1.7	-163.15	12.8	-37.3	68.7	65.6	3.11	22.109			
1,000.0	998.3	1,004.0	1,002.2	1.9	1.9	-160.66	18.2	-27.2	70.1	66.6	3.50	20.025			
1,100.0	1,097.4	1,104.9	1,102.3	2.2	2.2	-157.92	24.4	-15.5	71.9	68.0	3.92	18.330			
1,200.0	1,196.3	1,205.8	1,202.0	2.5	2.5	-154.98	31.5	-2.2	74.1	69.7	4.38	16.914			
1,300.0	1,294.9	1,306.7	1,301.5	2.8	2.8	-151.90	39.4	12.6	76.7	71.8	4.89	15.705			
1,400.0	1,393.3	1,407.4	1,400.5	3.1	3.2	-148.67	48.0	28.9	79.7	74.2	5.45	14.622			
1,500.0	1,491.6	1,507.2	1,498.5	3.5	3.5	-145.42	56.9	45.6	82.6	76.6	6.06	13.631			
1,600.0	1,590.0	1,607.1	1,596.5	3.8	3.9	-142.40	65.8	62.4	85.8	79.1	6.71	12.792			
1,700.0	1,688.3	1,706.9	1,694.6	4.2	4.2	-139.60	74.8	79.2	89.2	81.8	7.38	12.083			
1,800.0	1,786.6	1,806.8	1,792.6	4.5	4.6	-137.01	83.7	96.0	92.8	84.7	8.08	11.483			
1,900.0	1,884.9	1,906.6	1,890.6	4.9	5.0	-134.62	92.6	112.8	96.5	87.8	8.80	10.975			
2,000.0	1,983.3	2,006.5	1,988.7	5.2	5.3	-132.41	101.5	129.5	100.5	90.9	9.53	10.544			
2,100.0	2,081.6	2,106.3	2,086.7	5.6	5.7	-130.37	110.4	146.3	104.5	94.3	10.27	10.178			
2,200.0	2,179.9	2,206.2	2,184.7	6.0	6.1	-128.49	119.3	163.1	108.7	97.7	11.02	9.864			
2,300.0	2,278.3	2,306.0	2,282.7	6.3	6.4	-126.74	128.3	179.9	113.0	101.2	11.78	9.594			
2,400.0	2,376.6	2,405.9	2,380.8	6.7	6.8	-125.13	137.2	196.6	117.4	104.9	12.54	9.362			
2,500.0	2,474.9	2,505.7	2,478.8	7.0	7.2	-123.63	146.1	213.4	121.9	108.6	13.30	9.161			
2,600.0	2,573.3	2,605.6	2,576.8	7.4	7.6	-122.24	155.0	230.2	126.4	112.4	14.07	8.986			
2,700.0	2,671.6	2,705.4	2,674.8	7.8	7.9	-120.95	163.9	247.0	131.0	116.2	14.84	8.832			
2,800.0	2,769.9	2,805.3	2,772.9	8.1	8.3	-119.74	172.8	263.7	135.7	120.1	15.60	8.698			
2,900.0	2,868.2	2,905.1	2,870.9	8.5	8.7	-118.62	181.8	280.5	140.5	124.1	16.37	8.580			
3,000.0	2,966.6	3,005.0	2,968.9	8.8	9.1	-117.57	190.7	297.3	145.3	128.1	17.14	8.475			
3,100.0	3,064.9	3,104.8	3,066.9	9.2	9.4	-116.58	199.6	314.1	150.1	132.2	17.91	8.382			
3,200.0	3,163.2	3,204.7	3,165.0	9.6	9.8	-115.66	208.5	330.8	155.0	136.3	18.67	8.299			
3,300.0	3,261.6	3,304.5	3,263.0	9.9	10.2	-114.80	217.4	347.6	159.9	140.5	19.44	8.225			
3,400.0	3,359.9	3,404.4	3,361.0	10.3	10.6	-113.98	226.3	364.4	164.8	144.6	20.20	8.159			
3,500.0	3,458.2	3,504.2	3,459.1	10.7	10.9	-113.22	235.3	381.2	169.8	148.9	20.97	8.099			
3,600.0	3,556.6	3,604.1	3,557.1	11.0	11.3	-112.50	244.2	398.0	174.8	153.1	21.73	8.046			
3,700.0	3,654.9	3,703.9	3,655.1	11.4	11.7	-111.81	253.1	414.7	179.9	157.4	22.49	7.997			
3,800.0	3,753.2	3,803.8	3,753.1	11.8	12.1	-111.17	262.0	431.5	184.9	161.7	23.25	7.953			
3,900.0	3,851.5	3,903.6	3,851.2	12.1	12.4	-110.56	270.9	448.3	190.0	166.0	24.01	7.913			
4,000.0	3,949.9	4,003.5	3,949.2	12.5	12.8	-109.98	279.8	465.1	195.1	170.3	24.77	7.876			
4,100.0	4,048.2	4,103.3	4,047.2	12.9	13.2	-109.43	288.7	481.8	200.2	174.7	25.53	7.843			
4,200.0	4,146.5	4,203.2	4,145.2	13.2	13.6	-108.91	297.7	498.6	205.4	179.1	26.29	7.813			
4,300.0	4,244.9	4,303.0	4,243.3	13.6	14.0	-108.41	306.6	515.4	210.5	183.5	27.04	7.785			
4,400.0	4,343.2	4,402.9	4,341.3	14.0	14.3	-107.94	315.5	532.2	215.7	187.9	27.80	7.760			
4,500.0	4,441.5	4,502.8	4,439.3	14.3	14.7	-107.49	324.4	548.9	220.9	192.3	28.55	7.736			
4,600.0	4,539.9	4,602.6	4,537.3	14.7	15.1	-107.06	333.3	565.7	226.1	196.8	29.30	7.715			
4,700.0	4,638.2	4,702.5	4,635.4	15.1	15.5	-106.65	342.2	582.5	231.3	201.2	30.06	7.695			
4,800.0	4,736.5	4,802.3	4,733.4	15.4	15.8	-106.26	351.2	599.3	236.5	205.7	30.81	7.676			
4,900.0	4,834.8	4,902.2	4,831.4	15.8	16.2	-105.89	360.1	616.1	241.7	210.2	31.56	7.659			
5,000.0	4,933.2	5,002.0	4,929.5	16.2	16.6	-105.53	369.0	632.8	247.0	214.7	32.31	7.643			
5,100.0	5,031.5	5,101.9	5,027.5	16.5	17.0	-105.18	377.9	649.6	252.2	219.2	33.06	7.629			

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 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,200.0	5,129.8	5,201.7	5,125.5	16.9	17.4	-104.85	386.8	666.4	257.5	223.7	33.81	7.615		
5,300.0	5,228.2	5,301.6	5,223.5	17.2	17.7	-104.54	395.7	683.2	262.7	228.2	34.56	7.603		
5,400.0	5,326.5	5,401.4	5,321.6	17.6	18.1	-104.23	404.7	699.9	268.0	232.7	35.31	7.591		
5,500.0	5,424.8	5,501.3	5,419.6	18.0	18.5	-103.94	413.6	716.7	273.3	237.2	36.06	7.580		
5,600.0	5,523.2	5,601.1	5,517.6	18.3	18.9	-103.66	422.5	733.5	278.6	241.8	36.80	7.570		
5,700.0	5,621.5	5,701.0	5,615.6	18.7	19.2	-103.39	431.4	750.3	283.9	246.3	37.55	7.560		
5,800.0	5,719.8	5,800.8	5,713.7	19.1	19.6	-103.12	440.3	767.0	289.2	250.9	38.30	7.551		
5,900.0	5,818.1	5,900.7	5,811.7	19.4	20.0	-102.87	449.2	783.8	294.5	255.4	39.04	7.543		
6,000.0	5,916.5	6,000.5	5,909.7	19.8	20.4	-102.63	458.2	800.6	299.8	260.0	39.79	7.535		
6,100.0	6,014.8	6,100.4	6,007.8	20.2	20.8	-102.40	467.1	817.4	305.1	264.6	40.53	7.528		
6,200.0	6,113.1	6,200.2	6,105.8	20.5	21.1	-102.17	476.0	834.2	310.4	269.2	41.28	7.521		
6,300.0	6,211.5	6,300.1	6,203.8	20.9	21.5	-101.95	484.9	850.9	315.8	273.7	42.02	7.515		
6,400.0	6,309.8	6,399.9	6,301.8	21.3	21.9	-101.74	493.8	867.7	321.1	278.3	42.76	7.509		
6,500.0	6,408.1	6,499.8	6,399.9	21.6	22.3	-101.53	502.7	884.5	326.4	282.9	43.51	7.503		
6,600.0	6,506.5	6,599.6	6,497.9	22.0	22.6	-101.34	511.6	901.3	331.8	287.5	44.25	7.498		
6,700.0	6,604.8	6,699.5	6,595.9	22.4	23.0	-101.14	520.6	918.0	337.1	292.1	44.99	7.493		
6,800.0	6,703.1	6,799.3	6,693.9	22.7	23.4	-100.96	529.5	934.8	342.5	296.7	45.74	7.488		
6,900.0	6,801.4	6,899.2	6,792.0	23.1	23.8	-100.78	538.4	951.6	347.8	301.3	46.48	7.483		
7,000.0	6,899.8	6,999.0	6,890.0	23.5	24.2	-100.60	547.3	968.4	353.2	305.9	47.22	7.479		
7,100.0	6,998.1	7,098.9	6,988.0	23.8	24.5	-100.43	556.2	985.1	358.5	310.6	47.96	7.475		
7,200.0	7,095.8	7,198.7	7,086.1	24.2	24.9	-65.38	565.1	1,001.9	357.2	308.8	48.45	7.373		
7,300.0	7,190.2	7,343.1	7,228.1	24.7	25.4	-52.59	571.7	1,026.2	337.4	289.5	47.92	7.040		
7,400.0	7,278.3	7,498.4	7,377.8	25.2	25.6	-60.24	541.6	1,051.9	283.0	238.0	44.93	6.298		
7,500.0	7,357.6	7,578.5	7,450.4	25.8	25.6	-81.74	510.4	1,064.3	212.4	174.6	37.83	5.615		
7,600.0	7,425.6	7,611.4	7,478.8	26.4	25.6	-98.87	494.6	1,069.1	153.0	120.5	32.52	4.705		
7,664.8	7,462.7	7,617.5	7,484.0	26.9	25.6	-101.87	491.5	1,070.0	138.8	106.7	32.05	4.330 SF		
7,700.0	7,480.3	7,617.3	7,483.9	27.1	25.6	-100.95	491.6	1,070.0	143.2	110.7	32.50	4.406		
7,800.0	7,519.9	7,607.5	7,475.5	27.9	25.6	-90.14	496.6	1,068.6	193.2	158.1	35.06	5.511		
7,900.0	7,543.4	7,587.8	7,458.5	28.8	25.6	-71.71	506.1	1,065.7	269.3	234.4	34.88	7.721		
8,000.0	7,550.0	7,561.8	7,435.6	29.7	25.6	-55.32	517.7	1,061.8	351.5	321.3	30.20	11.641		
8,100.0	7,550.0	7,537.1	7,413.3	30.7	25.6	-50.97	527.8	1,057.9	436.9	406.9	30.05	14.541		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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		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	-97.61	-8.1	-60.4	61.0					
100.0	100.0	97.0	97.0	0.1	0.1	-97.61	-8.1	-60.4	60.9	60.6	0.26	236.147		
200.0	200.0	197.0	197.0	0.3	0.3	-97.61	-8.1	-60.4	60.9	60.3	0.61	100.550		
300.0	300.0	298.0	298.0	0.5	0.5	-97.41	-7.7	-59.6	60.1	59.1	0.96	62.781		
400.0	400.0	399.0	399.0	0.7	0.7	-175.49	-6.8	-57.2	58.5	57.2	1.31	44.709		
500.0	500.0	500.0	499.8	0.8	0.8	-174.52	-5.1	-53.1	56.9	55.2	1.66	34.282		
600.0	599.9	600.9	600.5	1.0	1.1	-173.14	-2.7	-47.4	55.4	53.4	2.01	27.518		
700.0	699.7	701.8	701.1	1.2	1.3	-171.34	0.3	-40.0	54.0	51.6	2.37	22.785		
800.0	799.4	802.6	801.5	1.4	1.5	-169.08	4.0	-31.1	52.7	50.0	2.73	19.294		
900.0	898.9	903.4	901.7	1.7	1.8	-166.36	8.3	-20.5	51.6	48.5	3.11	16.618		
1,000.0	998.3	1,004.2	1,001.5	1.9	2.0	-163.16	13.3	-8.2	50.8	47.3	3.50	14.499		
1,100.0	1,097.4	1,104.9	1,101.1	2.2	2.3	-159.52	19.0	5.6	50.2	46.3	3.93	12.778		
1,200.0	1,196.3	1,205.6	1,200.4	2.5	2.7	-155.47	25.4	21.1	50.0	45.6	4.40	11.349		
1,200.6	1,196.9	1,206.2	1,201.0	2.5	2.7	-155.45	25.4	21.2	50.0	45.6	4.41	11.341 CC		
1,300.0	1,294.9	1,306.2	1,299.3	2.8	3.0	-151.09	32.4	38.1	50.2	45.3	4.95	10.145		
1,400.0	1,393.3	1,406.8	1,397.9	3.1	3.4	-146.33	40.0	56.8	50.7	45.1	5.58	9.087		
1,500.0	1,491.6	1,507.2	1,495.9	3.5	3.8	-140.33	48.3	77.0	50.6	44.3	6.34	7.976		
1,600.0	1,590.0	1,607.2	1,593.2	3.8	4.3	-133.02	57.2	98.4	50.2	43.0	7.25	6.934		
1,603.8	1,593.7	1,611.1	1,596.9	3.8	4.3	-132.73	57.5	99.3	50.2	43.0	7.28	6.899		
1,700.0	1,688.3	1,707.0	1,690.2	4.2	4.7	-125.58	66.0	120.0	50.6	42.4	8.22	6.163 ES		
1,800.0	1,786.6	1,806.8	1,787.3	4.5	5.1	-118.38	74.9	141.5	51.9	42.7	9.21	5.633		
1,900.0	1,884.9	1,906.6	1,884.3	4.9	5.6	-111.61	83.7	163.0	53.9	43.7	10.18	5.292		
2,000.0	1,983.3	2,006.4	1,981.3	5.2	6.0	-105.40	92.5	184.6	56.6	45.5	11.11	5.095		
2,100.0	2,081.6	2,106.2	2,078.4	5.6	6.4	-99.82	101.4	206.1	59.9	47.9	11.98	5.001		
2,200.0	2,179.9	2,206.0	2,175.4	6.0	6.9	-94.86	110.2	227.7	63.7	50.9	12.79	4.982 SF		
2,300.0	2,278.3	2,305.7	2,272.4	6.3	7.3	-90.49	119.1	249.2	67.9	54.4	13.54	5.016		
2,400.0	2,376.6	2,405.5	2,369.4	6.7	7.8	-86.65	127.9	270.7	72.5	58.3	14.26	5.087		
2,500.0	2,474.9	2,505.3	2,466.5	7.0	8.2	-83.27	136.8	292.3	77.4	62.5	14.93	5.182		
2,600.0	2,573.3	2,605.1	2,563.5	7.4	8.7	-80.31	145.6	313.8	82.5	66.9	15.58	5.294		
2,700.0	2,671.6	2,704.9	2,660.5	7.8	9.1	-77.70	154.5	335.3	87.8	71.6	16.21	5.417		
2,800.0	2,769.9	2,804.7	2,757.6	8.1	9.5	-75.38	163.3	356.9	93.3	76.4	16.82	5.545		
2,900.0	2,868.2	2,904.4	2,854.6	8.5	10.0	-73.33	172.2	378.4	98.9	81.4	17.41	5.677		
3,000.0	2,966.6	3,004.2	2,951.6	8.8	10.4	-71.50	181.0	400.0	104.6	86.6	18.00	5.810		
3,100.0	3,064.9	3,104.0	3,048.7	9.2	10.9	-69.86	189.9	421.5	110.4	91.8	18.58	5.942		
3,200.0	3,163.2	3,203.8	3,145.7	9.6	11.3	-68.38	198.7	443.0	116.3	97.1	19.15	6.072		
3,300.0	3,261.6	3,303.6	3,242.7	9.9	11.8	-67.05	207.6	464.6	122.2	102.5	19.72	6.199		
3,400.0	3,359.9	3,403.4	3,339.7	10.3	12.2	-65.84	216.4	486.1	128.2	108.0	20.28	6.323		
3,500.0	3,458.2	3,503.1	3,436.8	10.7	12.7	-64.74	225.2	507.7	134.3	113.5	20.84	6.444		
3,600.0	3,556.6	3,602.9	3,533.8	11.0	13.1	-63.74	234.1	529.2	140.4	119.0	21.40	6.562		
3,700.0	3,654.9	3,702.7	3,630.8	11.4	13.6	-62.82	242.9	550.7	146.6	124.6	21.96	6.675		
3,800.0	3,753.2	3,802.5	3,727.9	11.8	14.0	-61.97	251.8	572.3	152.8	130.3	22.52	6.785		
3,900.0	3,851.5	3,902.3	3,824.9	12.1	14.5	-61.19	260.6	593.8	159.0	135.9	23.07	6.891		
4,000.0	3,949.9	4,002.1	3,921.9	12.5	14.9	-60.47	269.5	615.3	165.2	141.6	23.63	6.994		
4,100.0	4,048.2	4,101.8	4,018.9	12.9	15.4	-59.80	278.3	636.9	171.5	147.3	24.18	7.093		
4,200.0	4,146.5	4,201.6	4,116.0	13.2	15.8	-59.18	287.2	658.4	177.8	153.1	24.73	7.188		
4,300.0	4,244.9	4,301.4	4,213.0	13.6	16.3	-58.60	296.0	680.0	184.1	158.8	25.29	7.280		
4,400.0	4,343.2	4,401.2	4,310.0	14.0	16.7	-58.06	304.9	701.5	190.4	164.6	25.84	7.369		
4,500.0	4,441.5	4,501.0	4,407.1	14.3	17.2	-57.56	313.7	723.0	196.8	170.4	26.40	7.455		
4,600.0	4,539.9	4,600.8	4,504.1	14.7	17.6	-57.08	322.6	744.6	203.1	176.2	26.95	7.538		
4,700.0	4,638.2	4,700.6	4,601.1	15.1	18.1	-56.64	331.4	766.1	209.5	182.0	27.50	7.617		
4,800.0	4,736.5	4,800.3	4,698.2	15.4	18.5	-56.22	340.3	787.6	215.9	187.8	28.06	7.695		
4,900.0	4,834.8	4,900.1	4,795.2	15.8	19.0	-55.82	349.1	809.2	222.3	193.7	28.61	7.769		

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

Anticollision Report

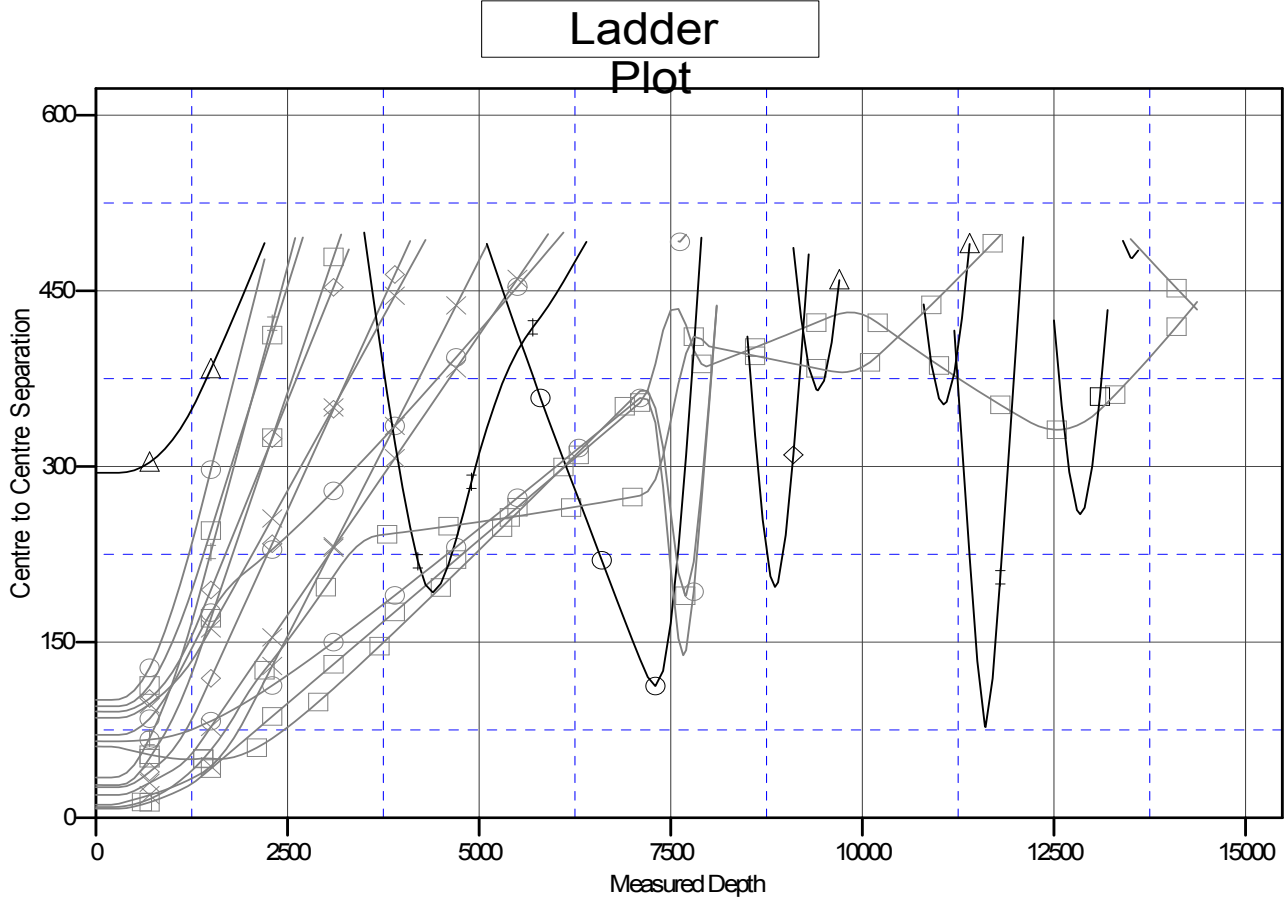
Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,000.0	4,933.2	4,999.9	4,892.2	16.2	19.4	-55.45	357.9	830.7	228.7	199.5	29.16	7.841		
5,100.0	5,031.5	5,099.7	4,989.2	16.5	19.9	-55.10	366.8	852.3	235.1	205.4	29.72	7.911		
5,200.0	5,129.8	5,199.5	5,086.3	16.9	20.3	-54.77	375.6	873.8	241.5	211.2	30.27	7.978		
5,300.0	5,228.2	5,299.3	5,183.3	17.2	20.8	-54.45	384.5	895.3	247.9	217.1	30.83	8.043		
5,400.0	5,326.5	5,399.0	5,280.3	17.6	21.2	-54.15	393.3	916.9	254.4	223.0	31.38	8.106		
5,500.0	5,424.8	5,498.8	5,377.4	18.0	21.7	-53.86	402.2	938.4	260.8	228.9	31.94	8.167		
5,600.0	5,523.2	5,598.6	5,474.4	18.3	22.1	-53.59	411.0	959.9	267.3	234.8	32.49	8.226		
5,700.0	5,621.5	5,698.4	5,571.4	18.7	22.6	-53.33	419.9	981.5	273.7	240.7	33.05	8.283		
5,800.0	5,719.8	5,798.2	5,668.4	19.1	23.0	-53.09	428.7	1,003.0	280.2	246.6	33.60	8.338		
5,900.0	5,818.1	5,898.0	5,765.5	19.4	23.5	-52.85	437.6	1,024.6	286.7	252.5	34.16	8.392		
6,000.0	5,916.5	5,997.7	5,862.5	19.8	23.9	-52.62	446.4	1,046.1	293.1	258.4	34.71	8.444		
6,100.0	6,014.8	6,097.5	5,959.5	20.2	24.4	-52.41	455.3	1,067.6	299.6	264.3	35.27	8.495		
6,200.0	6,113.1	6,197.3	6,056.6	20.5	24.8	-52.20	464.1	1,089.2	306.1	270.3	35.82	8.544		
6,300.0	6,211.5	6,297.1	6,153.6	20.9	25.3	-52.00	473.0	1,110.7	312.6	276.2	36.38	8.591		
6,400.0	6,309.8	6,396.9	6,250.6	21.3	25.7	-51.81	481.8	1,132.2	319.0	282.1	36.94	8.638		
6,500.0	6,408.1	6,496.7	6,347.7	21.6	26.2	-51.63	490.6	1,153.8	325.5	288.0	37.49	8.683		
6,600.0	6,506.5	6,596.4	6,444.7	22.0	26.6	-51.46	499.5	1,175.3	332.0	294.0	38.05	8.726		
6,700.0	6,604.8	6,696.2	6,541.7	22.4	27.1	-51.29	508.3	1,196.9	338.5	299.9	38.61	8.769		
6,800.0	6,703.1	6,796.0	6,638.7	22.7	27.5	-51.13	517.2	1,218.4	345.0	305.9	39.16	8.810		
6,900.0	6,801.4	6,895.8	6,735.8	23.1	28.0	-50.97	526.0	1,239.9	351.5	311.8	39.72	8.850		
7,000.0	6,899.8	6,995.6	6,832.8	23.5	28.4	-50.82	534.9	1,261.5	358.0	317.7	40.28	8.889		
7,100.0	6,998.1	7,095.4	6,929.8	23.8	28.9	-50.67	543.7	1,283.0	364.5	323.7	40.83	8.928		
7,200.0	7,095.8	7,195.2	7,026.9	24.2	29.3	-14.60	552.6	1,304.5	364.7	324.0	40.70	8.961		
7,300.0	7,190.2	7,293.1	7,122.1	24.7	29.8	4.56	561.3	1,325.7	349.9	311.6	38.33	9.128		
7,400.0	7,278.3	7,439.6	7,264.8	25.2	30.3	21.93	562.2	1,357.4	316.1	284.0	32.09	9.851		
7,500.0	7,357.6	7,547.7	7,367.9	25.8	30.6	46.20	539.5	1,380.2	260.8	235.0	25.72	10.136		
7,600.0	7,425.6	7,600.5	7,416.2	26.4	30.7	67.29	521.4	1,391.0	209.2	180.2	28.98	7.217		
7,690.3	7,475.6	7,618.7	7,432.5	27.0	30.7	75.95	514.1	1,394.6	189.7	157.7	32.03	5.922		
7,700.0	7,480.3	7,619.5	7,433.2	27.1	30.7	76.28	513.7	1,394.7	189.9	157.7	32.19	5.900		
7,800.0	7,519.9	7,618.3	7,432.2	27.9	30.7	73.69	514.2	1,394.5	218.6	186.0	32.68	6.690		
7,900.0	7,543.4	7,600.0	7,415.8	28.8	30.7	61.16	521.6	1,390.9	280.4	248.8	31.66	8.857		
8,000.0	7,550.0	7,583.1	7,400.5	29.7	30.6	48.34	527.9	1,387.5	355.5	324.7	30.88	11.512		
8,100.0	7,550.0	7,562.0	7,381.1	30.7	30.6	44.01	535.1	1,383.2	437.6	407.0	30.54	14.325		
















Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2F-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

Coordinates are relative to: Woolley-Becky 2F-7H-E168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.29°



LEGEND

ING), NOBLE WELL, NOSURVEYS V0	 Woolley-Beky 2D-7H-E168, HZ, Plan #2 V0	 WOOLLEY 21-7 (EXISTING), ENCANA
'H-E168, HZ, Plan #1 V0	 Woolley-Beky 2C-7H-E168, HZ, Plan #2 V0	 Woolley-Sosa 2D-7H-E168, HZ, Plan #1
7H-E168, HZ, Plan #2 V0	 Woolley-Beky 2H-7H-E168, HZ, Plan #1 V0	 Woolley-Beky 2A-7H-E168, HZ, Plan #1
EXISTING), ENCANA WELL, SURVEYS V0	 Woolley-Beky 2B-7H-E168, HZ, Plan #1 V0	 Woolley-Beky 2G-7H-E168, HZ, Plan #1
STING), ENCANA WELL, SURVEYS V0	 WOOLLEY 2-4-7 (EXISTING), ENCANA WELL, SURVEYS V0	 Woolley-Sosa 2F-7H-E168, HZ, Plan #1
'H-E168, HZ, Plan #1 V0	 BECKY 7-6 (EXISTING), NOBLE WELL, NOSURVEYS V0	 Woolley-Sosa 2G-7H-E168, HZ, Plan #1
XSTING), ENCANA WELL, NOSURVEYS V0	 Woolley-Sosa 2B-7H-E168, HZ, Plan #1 V0	 Woolley-Sosa 2E-7H-E168, HZ, Plan #2
XSTING), ENCANA WELL, GYROV0	 WOOLLEY 22-7 (EXISTING), ENCANA WELL, SURVEYS V0	