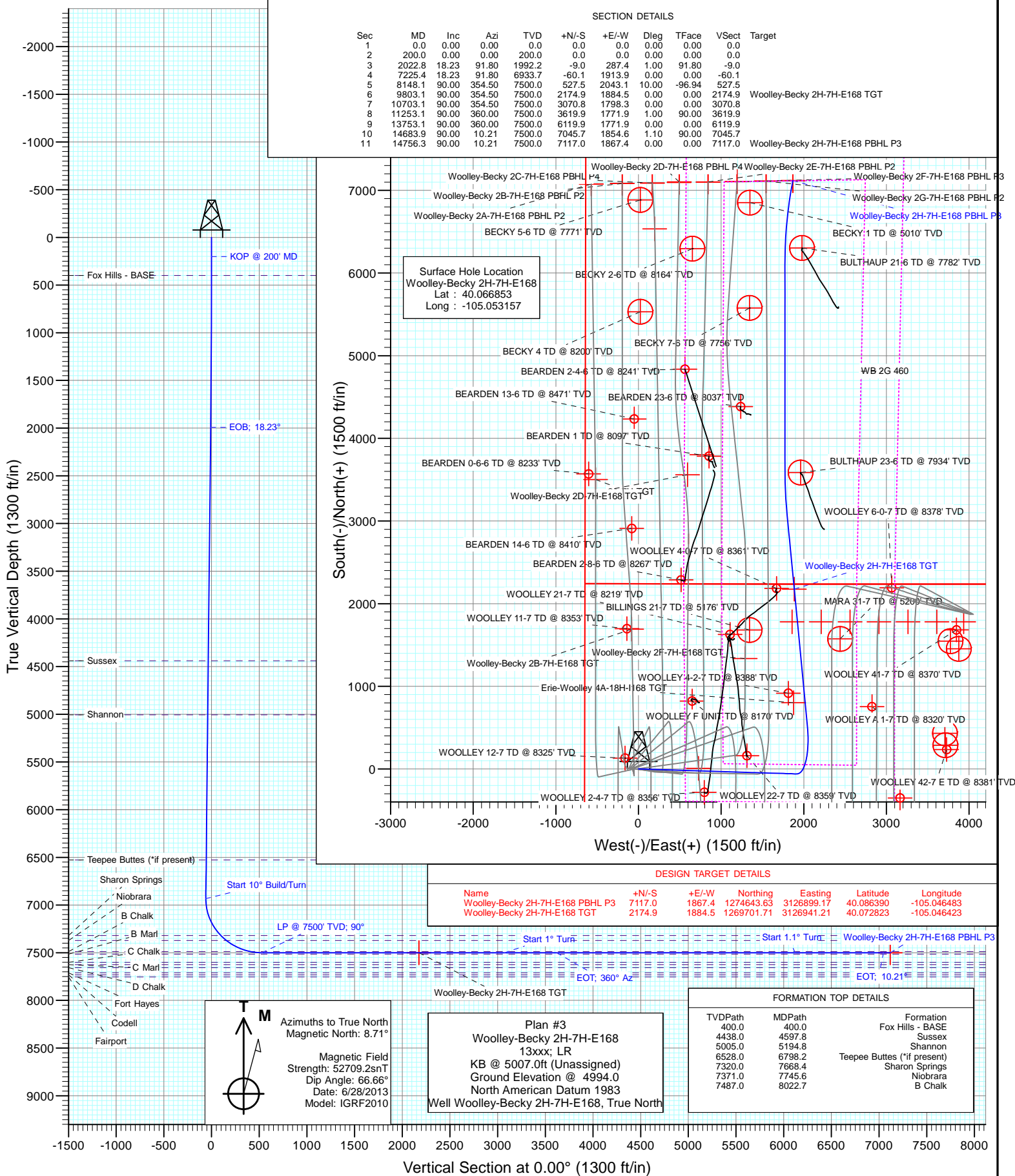




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2H-7H-E168
Wellbore: Hz
Design: Plan #3



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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

Site		S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)			
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 2H-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.34 ft	Latitude:	40.066853
	+E/-W	0.0 ft	Easting:	3,125,067.68 ft	Longitude:	-105.053157
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,994.0 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 #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,022.8	18.23	91.80	1,992.2	-9.0	287.4	1.00	1.00	0.00	91.80	
7,225.4	18.23	91.80	6,933.7	-60.1	1,913.9	0.00	0.00	0.00	0.00	
8,148.1	90.00	354.50	7,500.0	527.5	2,043.1	10.00	7.78	-10.54	-96.94	
9,803.1	90.00	354.50	7,500.0	2,174.9	1,884.5	0.00	0.00	0.00	0.00	Woolley-Becky 2H-7H
10,703.1	90.00	354.50	7,500.0	3,070.8	1,798.3	0.00	0.00	0.00	0.00	
11,253.1	90.00	360.00	7,500.0	3,619.9	1,771.9	1.00	0.00	1.00	90.00	
13,753.1	90.00	360.00	7,500.0	6,119.9	1,771.9	0.00	0.00	0.00	0.00	
14,683.9	90.00	10.21	7,500.0	7,045.7	1,854.6	1.10	0.00	1.10	90.00	
14,756.3	90.00	10.21	7,500.0	7,117.0	1,867.4	0.00	0.00	0.00	0.00	Woolley-Becky 2H-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200' MD
300.0	1.00	91.80	300.0	0.0	0.9	0.0	1.00	1.00	
400.0	2.00	91.80	400.0	-0.1	3.5	-0.1	1.00	1.00	Fox Hills - BASE
500.0	3.00	91.80	499.9	-0.2	7.8	-0.2	1.00	1.00	
600.0	4.00	91.80	599.7	-0.4	14.0	-0.4	1.00	1.00	
700.0	5.00	91.80	699.4	-0.7	21.8	-0.7	1.00	1.00	
800.0	6.00	91.80	798.9	-1.0	31.4	-1.0	1.00	1.00	
900.0	7.00	91.80	898.3	-1.3	42.7	-1.3	1.00	1.00	
1,000.0	8.00	91.80	997.4	-1.7	55.7	-1.7	1.00	1.00	
1,100.0	9.00	91.80	1,096.3	-2.2	70.5	-2.2	1.00	1.00	
1,200.0	10.00	91.80	1,194.9	-2.7	87.0	-2.7	1.00	1.00	
1,300.0	11.00	91.80	1,293.3	-3.3	105.2	-3.3	1.00	1.00	
1,400.0	12.00	91.80	1,391.2	-3.9	125.1	-3.9	1.00	1.00	
1,500.0	13.00	91.80	1,488.9	-4.6	146.8	-4.6	1.00	1.00	
1,600.0	14.00	91.80	1,586.1	-5.3	170.1	-5.3	1.00	1.00	
1,700.0	15.00	91.80	1,682.9	-6.1	195.1	-6.1	1.00	1.00	
1,800.0	16.00	91.80	1,779.3	-7.0	221.8	-7.0	1.00	1.00	
1,900.0	17.00	91.80	1,875.2	-7.9	250.2	-7.9	1.00	1.00	
2,000.0	18.00	91.80	1,970.5	-8.8	280.3	-8.8	1.00	1.00	
2,022.8	18.23	91.80	1,992.2	-9.0	287.4	-9.0	1.00	1.00	EOB; 18.23°
2,100.0	18.23	91.80	2,065.5	-9.8	311.5	-9.8	0.00	0.00	
2,200.0	18.23	91.80	2,160.5	-10.8	342.8	-10.8	0.00	0.00	
2,300.0	18.23	91.80	2,255.5	-11.7	374.0	-11.7	0.00	0.00	
2,400.0	18.23	91.80	2,350.5	-12.7	405.3	-12.7	0.00	0.00	
2,500.0	18.23	91.80	2,445.5	-13.7	436.6	-13.7	0.00	0.00	
2,600.0	18.23	91.80	2,540.4	-14.7	467.8	-14.7	0.00	0.00	
2,700.0	18.23	91.80	2,635.4	-15.7	499.1	-15.7	0.00	0.00	
2,800.0	18.23	91.80	2,730.4	-16.6	530.4	-16.6	0.00	0.00	
2,900.0	18.23	91.80	2,825.4	-17.6	561.6	-17.6	0.00	0.00	
3,000.0	18.23	91.80	2,920.4	-18.6	592.9	-18.6	0.00	0.00	
3,100.0	18.23	91.80	3,015.4	-19.6	624.1	-19.6	0.00	0.00	
3,200.0	18.23	91.80	3,110.3	-20.6	655.4	-20.6	0.00	0.00	
3,300.0	18.23	91.80	3,205.3	-21.6	686.7	-21.6	0.00	0.00	
3,400.0	18.23	91.80	3,300.3	-22.5	717.9	-22.5	0.00	0.00	
3,500.0	18.23	91.80	3,395.3	-23.5	749.2	-23.5	0.00	0.00	
3,600.0	18.23	91.80	3,490.3	-24.5	780.5	-24.5	0.00	0.00	
3,700.0	18.23	91.80	3,585.2	-25.5	811.7	-25.5	0.00	0.00	
3,800.0	18.23	91.80	3,680.2	-26.5	843.0	-26.5	0.00	0.00	
3,900.0	18.23	91.80	3,775.2	-27.4	874.3	-27.4	0.00	0.00	
4,000.0	18.23	91.80	3,870.2	-28.4	905.5	-28.4	0.00	0.00	
4,100.0	18.23	91.80	3,965.2	-29.4	936.8	-29.4	0.00	0.00	
4,200.0	18.23	91.80	4,060.2	-30.4	968.0	-30.4	0.00	0.00	
4,300.0	18.23	91.80	4,155.1	-31.4	999.3	-31.4	0.00	0.00	
4,400.0	18.23	91.80	4,250.1	-32.4	1,030.6	-32.4	0.00	0.00	
4,500.0	18.23	91.80	4,345.1	-33.3	1,061.8	-33.3	0.00	0.00	
4,597.8	18.23	91.80	4,438.0	-34.3	1,092.4	-34.3	0.00	0.00	Sussex
4,600.0	18.23	91.80	4,440.1	-34.3	1,093.1	-34.3	0.00	0.00	
4,700.0	18.23	91.80	4,535.1	-35.3	1,124.4	-35.3	0.00	0.00	
4,800.0	18.23	91.80	4,630.1	-36.3	1,155.6	-36.3	0.00	0.00	
4,900.0	18.23	91.80	4,725.0	-37.3	1,186.9	-37.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	18.23	91.80	4,820.0	-38.2	1,218.2	-38.2	0.00	0.00	
5,100.0	18.23	91.80	4,915.0	-39.2	1,249.4	-39.2	0.00	0.00	
5,194.8	18.23	91.80	5,005.0	-40.2	1,279.0	-40.2	0.00	0.00	Shannon
5,200.0	18.23	91.80	5,010.0	-40.2	1,280.7	-40.2	0.00	0.00	
5,300.0	18.23	91.80	5,105.0	-41.2	1,312.0	-41.2	0.00	0.00	
5,400.0	18.23	91.80	5,199.9	-42.2	1,343.2	-42.2	0.00	0.00	
5,500.0	18.23	91.80	5,294.9	-43.1	1,374.5	-43.1	0.00	0.00	
5,600.0	18.23	91.80	5,389.9	-44.1	1,405.7	-44.1	0.00	0.00	
5,700.0	18.23	91.80	5,484.9	-45.1	1,437.0	-45.1	0.00	0.00	
5,800.0	18.23	91.80	5,579.9	-46.1	1,468.3	-46.1	0.00	0.00	
5,900.0	18.23	91.80	5,674.9	-47.1	1,499.5	-47.1	0.00	0.00	
6,000.0	18.23	91.80	5,769.8	-48.1	1,530.8	-48.1	0.00	0.00	
6,100.0	18.23	91.80	5,864.8	-49.0	1,562.1	-49.0	0.00	0.00	
6,200.0	18.23	91.80	5,959.8	-50.0	1,593.3	-50.0	0.00	0.00	
6,300.0	18.23	91.80	6,054.8	-51.0	1,624.6	-51.0	0.00	0.00	
6,400.0	18.23	91.80	6,149.8	-52.0	1,655.9	-52.0	0.00	0.00	
6,500.0	18.23	91.80	6,244.7	-53.0	1,687.1	-53.0	0.00	0.00	
6,600.0	18.23	91.80	6,339.7	-53.9	1,718.4	-53.9	0.00	0.00	
6,700.0	18.23	91.80	6,434.7	-54.9	1,749.6	-54.9	0.00	0.00	
6,798.2	18.23	91.80	6,528.0	-55.9	1,780.4	-55.9	0.00	0.00	Teepee Buttes (*if present)
6,800.0	18.23	91.80	6,529.7	-55.9	1,780.9	-55.9	0.00	0.00	
6,900.0	18.23	91.80	6,624.7	-56.9	1,812.2	-56.9	0.00	0.00	
7,000.0	18.23	91.80	6,719.7	-57.9	1,843.4	-57.9	0.00	0.00	
7,100.0	18.23	91.80	6,814.6	-58.9	1,874.7	-58.9	0.00	0.00	
7,200.0	18.23	91.80	6,909.6	-59.8	1,906.0	-59.8	0.00	0.00	
7,225.4	18.23	91.80	6,933.7	-60.1	1,913.9	-60.1	0.00	0.00	Start 10° Build/Turn
7,250.0	18.09	83.90	6,957.1	-59.8	1,921.5	-59.8	10.00	-0.56	
7,300.0	18.79	68.21	7,004.6	-56.0	1,936.8	-56.0	10.00	1.41	
7,350.0	20.68	54.44	7,051.7	-47.9	1,951.4	-47.9	10.00	3.76	
7,400.0	23.45	43.34	7,098.0	-35.5	1,965.4	-35.5	10.00	5.56	
7,450.0	26.85	34.68	7,143.3	-18.9	1,978.7	-18.9	10.00	6.79	
7,500.0	30.66	27.94	7,187.1	1.6	1,991.1	1.6	10.00	7.62	
7,550.0	34.75	22.59	7,229.2	26.1	2,002.6	26.1	10.00	8.17	
7,600.0	39.02	18.27	7,269.2	54.2	2,013.0	54.2	10.00	8.55	
7,650.0	43.43	14.68	7,306.8	85.8	2,022.3	85.8	10.00	8.82	
7,668.4	45.08	13.51	7,320.0	98.2	2,025.4	98.2	10.00	8.96	Sharon Springs
7,700.0	47.93	11.64	7,341.7	120.6	2,030.4	120.6	10.00	9.04	
7,745.6	52.10	9.23	7,371.0	154.9	2,036.7	154.9	10.00	9.14	Niobrara
7,750.0	52.51	9.01	7,373.7	158.4	2,037.2	158.4	10.00	9.20	
7,800.0	57.13	6.68	7,402.5	198.9	2,042.8	198.9	10.00	9.25	
7,850.0	61.80	4.59	7,427.9	241.7	2,047.0	241.7	10.00	9.33	
7,900.0	66.49	2.67	7,449.7	286.6	2,049.8	286.6	10.00	9.39	
7,950.0	71.20	0.88	7,467.8	333.2	2,051.3	333.2	10.00	9.43	
8,000.0	75.93	359.19	7,481.9	381.1	2,051.3	381.1	10.00	9.46	
8,022.7	78.09	358.45	7,487.0	403.2	2,050.8	403.2	10.00	9.48	B Chalk
8,050.0	80.68	357.57	7,492.0	430.1	2,049.9	430.1	10.00	9.49	
8,100.0	85.42	356.00	7,498.1	479.6	2,047.1	479.6	10.00	9.50	
8,148.1	90.00	354.50	7,500.0	527.5	2,043.1	527.5	10.00	9.50	LP @ 7500' TVD; 90°
8,200.0	90.00	354.50	7,500.0	579.1	2,038.2	579.1	0.00	0.00	
8,300.0	90.00	354.50	7,500.0	678.7	2,028.6	678.7	0.00	0.00	
8,400.0	90.00	354.50	7,500.0	778.2	2,019.0	778.2	0.00	0.00	
8,500.0	90.00	354.50	7,500.0	877.8	2,009.4	877.8	0.00	0.00	

Cathedral Energy Services

Planning Report

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Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,600.0	90.00	354.50	7,500.0	977.3	1,999.8	977.3	0.00	0.00	
8,700.0	90.00	354.50	7,500.0	1,076.8	1,990.3	1,076.8	0.00	0.00	
8,800.0	90.00	354.50	7,500.0	1,176.4	1,980.7	1,176.4	0.00	0.00	
8,900.0	90.00	354.50	7,500.0	1,275.9	1,971.1	1,275.9	0.00	0.00	
9,000.0	90.00	354.50	7,500.0	1,375.4	1,961.5	1,375.4	0.00	0.00	
9,100.0	90.00	354.50	7,500.0	1,475.0	1,951.9	1,475.0	0.00	0.00	
9,200.0	90.00	354.50	7,500.0	1,574.5	1,942.3	1,574.5	0.00	0.00	
9,300.0	90.00	354.50	7,500.0	1,674.1	1,932.7	1,674.1	0.00	0.00	
9,400.0	90.00	354.50	7,500.0	1,773.6	1,923.2	1,773.6	0.00	0.00	
9,500.0	90.00	354.50	7,500.0	1,873.1	1,913.6	1,873.1	0.00	0.00	
9,600.0	90.00	354.50	7,500.0	1,972.7	1,904.0	1,972.7	0.00	0.00	
9,700.0	90.00	354.50	7,500.0	2,072.2	1,894.4	2,072.2	0.00	0.00	
9,803.1	90.00	354.50	7,500.0	2,174.9	1,884.5	2,174.9	0.00	0.00	
9,900.0	90.00	354.50	7,500.0	2,271.3	1,875.2	2,271.3	0.00	0.00	
10,000.0	90.00	354.50	7,500.0	2,370.8	1,865.7	2,370.8	0.00	0.00	
10,100.0	90.00	354.50	7,500.0	2,470.4	1,856.1	2,470.4	0.00	0.00	
10,200.0	90.00	354.50	7,500.0	2,569.9	1,846.5	2,569.9	0.00	0.00	
10,300.0	90.00	354.50	7,500.0	2,669.5	1,836.9	2,669.5	0.00	0.00	
10,400.0	90.00	354.50	7,500.0	2,769.0	1,827.3	2,769.0	0.00	0.00	
10,500.0	90.00	354.50	7,500.0	2,868.5	1,817.7	2,868.5	0.00	0.00	
10,600.0	90.00	354.50	7,500.0	2,968.1	1,808.1	2,968.1	0.00	0.00	
10,703.1	90.00	354.50	7,500.0	3,070.7	1,798.3	3,070.7	0.00	0.00	Start 1° Turn
10,800.0	90.00	355.47	7,500.0	3,167.2	1,789.8	3,167.2	1.00	0.00	
10,900.0	90.00	356.47	7,500.0	3,267.0	1,782.8	3,267.0	1.00	0.00	
11,000.0	90.00	357.47	7,500.0	3,366.8	1,777.5	3,366.8	1.00	0.00	
11,100.0	90.00	358.47	7,500.0	3,466.8	1,773.9	3,466.8	1.00	0.00	
11,200.0	90.00	359.47	7,500.0	3,566.8	1,772.1	3,566.8	1.00	0.00	
11,253.1	90.00	360.00	7,500.0	3,619.9	1,771.9	3,619.9	1.00	0.00	EOT; 360° Az
11,300.0	90.00	360.00	7,500.0	3,666.8	1,771.9	3,666.8	0.00	0.00	
11,400.0	90.00	360.00	7,500.0	3,766.8	1,771.9	3,766.8	0.00	0.00	
11,500.0	90.00	360.00	7,500.0	3,866.8	1,771.9	3,866.8	0.00	0.00	
11,600.0	90.00	360.00	7,500.0	3,966.8	1,771.9	3,966.8	0.00	0.00	
11,700.0	90.00	360.00	7,500.0	4,066.8	1,771.9	4,066.8	0.00	0.00	
11,800.0	90.00	360.00	7,500.0	4,166.8	1,771.9	4,166.8	0.00	0.00	
11,900.0	90.00	360.00	7,500.0	4,266.8	1,771.9	4,266.8	0.00	0.00	
12,000.0	90.00	360.00	7,500.0	4,366.8	1,771.9	4,366.8	0.00	0.00	
12,100.0	90.00	360.00	7,500.0	4,466.8	1,771.9	4,466.8	0.00	0.00	
12,200.0	90.00	360.00	7,500.0	4,566.8	1,771.9	4,566.8	0.00	0.00	
12,300.0	90.00	360.00	7,500.0	4,666.8	1,771.9	4,666.8	0.00	0.00	
12,400.0	90.00	360.00	7,500.0	4,766.8	1,771.9	4,766.8	0.00	0.00	
12,500.0	90.00	360.00	7,500.0	4,866.8	1,771.9	4,866.8	0.00	0.00	
12,600.0	90.00	360.00	7,500.0	4,966.8	1,771.9	4,966.8	0.00	0.00	
12,700.0	90.00	360.00	7,500.0	5,066.8	1,771.9	5,066.8	0.00	0.00	
12,800.0	90.00	360.00	7,500.0	5,166.8	1,771.9	5,166.8	0.00	0.00	
12,900.0	90.00	360.00	7,500.0	5,266.8	1,771.9	5,266.8	0.00	0.00	
13,000.0	90.00	360.00	7,500.0	5,366.8	1,771.9	5,366.8	0.00	0.00	
13,100.0	90.00	360.00	7,500.0	5,466.8	1,771.9	5,466.8	0.00	0.00	
13,200.0	90.00	360.00	7,500.0	5,566.8	1,771.9	5,566.8	0.00	0.00	
13,300.0	90.00	360.00	7,500.0	5,666.8	1,771.9	5,666.8	0.00	0.00	
13,400.0	90.00	360.00	7,500.0	5,766.8	1,771.9	5,766.8	0.00	0.00	
13,500.0	90.00	360.00	7,500.0	5,866.8	1,771.9	5,866.8	0.00	0.00	
13,600.0	90.00	360.00	7,500.0	5,966.8	1,771.9	5,966.8	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
13,700.0	90.00	360.00	7,500.0	6,066.8	1,771.9	6,066.8	0.00	0.00	
13,753.1	90.00	360.00	7,500.0	6,119.9	1,771.9	6,119.9	0.00	0.00	Start 1.1° Turn
13,800.0	90.00	0.51	7,500.0	6,166.8	1,772.1	6,166.8	1.10	0.00	
13,900.0	90.00	1.61	7,500.0	6,266.7	1,773.9	6,266.7	1.10	0.00	
14,000.0	90.00	2.71	7,500.0	6,366.7	1,777.7	6,366.7	1.10	0.00	
14,100.0	90.00	3.80	7,500.0	6,466.5	1,783.4	6,466.5	1.10	0.00	
14,200.0	90.00	4.90	7,500.0	6,566.2	1,791.0	6,566.2	1.10	0.00	
14,300.0	90.00	6.00	7,500.0	6,665.8	1,800.5	6,665.8	1.10	0.00	
14,400.0	90.00	7.09	7,500.0	6,765.1	1,811.9	6,765.1	1.10	0.00	
14,500.0	90.00	8.19	7,500.0	6,864.2	1,825.2	6,864.2	1.10	0.00	
14,600.0	90.00	9.29	7,500.0	6,963.1	1,840.4	6,963.1	1.10	0.00	
14,683.9	90.00	10.21	7,500.0	7,045.8	1,854.6	7,045.8	1.10	0.00	EOT; 10.21°
14,700.0	90.00	10.21	7,500.0	7,061.6	1,857.4	7,061.6	0.00	0.00	
14,756.3	90.00	10.21	7,500.0	7,117.0	1,867.4	7,117.0	0.00	0.00	TD at 14756.3

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Woolley-Becky 2H-7H-E	0.00	0.00	7,500.0	2,174.9	1,884.5	1,269,701.71	3,126,941.21	40.072823	-105.046423
- plan hits target center									
- Point									
Woolley-Becky 2H-7H-E	0.00	0.00	7,535.0	7,117.0	1,868.2	1,274,643.64	3,126,900.01	40.086390	-105.046480
- plan misses target center by 35.0ft at 14756.3ft MD (7500.0 TVD, 7117.0 N, 1867.4 E)									
- Point									
Woolley-Becky 2H-7H-E	0.00	0.00	7,500.0	7,117.0	1,867.4	1,274,643.63	3,126,899.17	40.086390	-105.046483
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,597.8	4,438.0	Sussex				
5,194.8	5,005.0	Shannon				
6,798.2	6,528.0	Teepee Buttes (*if present)				
7,668.4	7,320.0	Sharon Springs				
7,745.6	7,371.0	Niobrara				
8,022.7	7,487.0	B Chalk				

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200' MD
2,022.8	1,992.2	-9.0	287.4	EOB; 18.23°
7,225.4	6,933.7	-60.1	1,913.9	Start 10° Build/Turn
8,148.1	7,500.0	527.5	2,043.1	LP @ 7500' TVD; 90°
10,703.1	7,500.0	2,174.9	1,884.5	Start 1° Turn
11,253.1	7,500.0	3,070.8	1,798.3	EOT; 360° Az
13,753.1	7,500.0	3,619.9	1,771.9	Start 1.1° Turn
14,683.9	7,500.0	6,119.9	1,771.9	EOT; 10.21°
14,756.3	7,500.0	7,045.7	1,854.6	TD at 14756.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2H-7H-E168

Hz

Plan #3

Anticollision Report

10 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,280.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/10/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,755.3	Plan #3 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,407.0	7,466.6	921.2	838.6	11.151	CC, ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,600.0	7,468.4	941.2	855.2	10.953	SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,990.6	7,468.3	540.6	448.1	5.842	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,000.0	7,468.7	540.7	448.0	5.833	ES, SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,469.5	7,610.5	1,210.2	1,098.0	10.786	CC
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,500.0	7,610.5	1,210.6	1,097.9	10.739	ES
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,700.0	7,610.5	1,232.0	1,115.8	10.603	SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	10,036.5	7,657.6	1,349.0	1,279.9	19.538	CC, ES
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	10,500.0	7,658.6	1,426.4	1,349.5	18.556	SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,896.5	7,453.0	1,122.9	996.6	8.889	CC
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,900.0	7,453.0	1,122.9	996.5	8.884	ES
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	14,100.0	7,453.0	1,145.1	1,014.2	8.749	SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,323.1	7,448.0	1,792.0	1,656.3	13.206	CC, ES
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,683.9	7,448.0	1,840.1	1,697.1	12.862	SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,210.7	7,454.0	428.5	314.9	3.772	CC, ES, SF
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,936.8	7,563.8	206.3	74.1	1.561	CC, ES, SF
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,211.2	7,610.0	187.9	104.3	2.247	CC, ES, SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	7,750.0	9,488.4	326.7	267.2	5.492	SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	7,950.0	9,313.6	288.7	240.3	5.964	ES
Morgan Hills 1A-7H-A168 - HZ - Plan #2	8,003.1	9,262.6	287.4	241.2	6.225	CC
Morgan Hills 1B-7H-A168 - HZ - Plan #2	7,700.0	9,708.7	685.9	622.9	10.877	SF
Morgan Hills 1B-7H-A168 - HZ - Plan #2	8,050.0	9,399.2	593.0	549.3	13.572	ES
Morgan Hills 1B-7H-A168 - HZ - Plan #2	8,074.6	9,374.9	592.6	550.2	13.972	CC
Morgan Hills 1C-7H-A168 - HZ - Plan #2	7,650.0	9,458.7	879.8	823.9	15.720	SF
Morgan Hills 1C-7H-A168 - HZ - Plan #2	7,950.0	9,211.2	830.9	783.4	17.498	ES
Morgan Hills 1C-7H-A168 - HZ - Plan #2	7,981.6	9,181.0	830.5	784.0	17.835	CC
Morgan Hills 1D-7H-A168 - HZ - Plan #2	7,650.0	9,662.3	1,151.3	1,093.5	19.912	SF
Morgan Hills 1D-7H-A168 - HZ - Plan #2	8,000.0	9,367.0	1,068.9	1,022.4	22.962	ES
Morgan Hills 1D-7H-A168 - HZ - Plan #2	8,047.4	9,320.7	1,067.8	1,023.0	23.818	CC
Morgan Hills 1E-7H-A168 - HZ - Plan #2	7,650.0	9,397.6	1,330.3	1,277.2	25.064	SF
Morgan Hills 1E-7H-A168 - HZ - Plan #2	7,950.0	9,150.1	1,287.3	1,240.2	27.331	ES
Morgan Hills 1E-7H-A168 - HZ - Plan #2	7,984.9	9,116.8	1,286.9	1,240.6	27.801	CC
THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEY	7,309.2	7,302.6	1,182.9	1,115.2	17.487	CC, ES, SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	200.0	288.0	210.0	209.2	253.260	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	11,253.1	7,588.0	3,989.0	3,909.0	49.863	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,317.6	7,585.0	839.5	795.1	18.923	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,600.0	7,590.8	885.7	836.8	18.106	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,456.9	5,548.6	224.3	188.5	6.266	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,500.0	5,586.9	225.0	188.8	6.223	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,280.9	4,547.9	146.6	109.4	3.945	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,816.8	7,636.5	221.2	166.0	4.009	CC, ES, SF
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,298.5	7,549.0	799.7	769.8	26.732	CC
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,300.0	7,549.0	799.7	769.8	26.719	ES
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,600.0	7,549.0	854.6	821.1	25.456	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	3,239.3	3,180.6	844.7	825.5	44.129	CC
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	3,300.0	3,237.4	844.9	825.3	43.103	ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	4,700.0	4,551.0	973.4	945.2	34.569	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	200.0	200.0	70.0	69.3	107.193	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	14,756.3	14,682.3	2,452.2	2,199.0	9.686	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	200.0	200.0	59.9	59.2	91.758	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	14,756.3	14,422.4	2,065.5	1,809.9	8.082	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	200.0	200.0	49.8	49.2	76.323	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	14,600.0	14,401.1	1,679.0	1,431.4	6.780	SF

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	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/Morgan Hills)						
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	200.0	200.0	40.0	39.4	61.316	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	14,700.0	14,443.4	1,365.7	1,108.9	5.318	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	200.0	200.0	29.9	29.3	45.882	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,683.9	14,666.3	1,041.4	791.0	4.158	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	200.0	200.0	19.9	19.2	30.442	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	14,600.0	14,239.4	656.6	400.9	2.568	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	200.0	200.0	10.1	9.4	15.436	CC, ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	14,600.0	14,694.9	382.1	181.7	1.907	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	200.0	200.0	129.9	129.2	198.951	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	11,253.1	7,050.0	3,740.3	3,660.6	46.891	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	200.0	200.0	120.1	119.4	183.945	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	11,253.1	7,250.0	3,529.8	3,448.8	43.565	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	200.0	200.0	110.0	109.3	168.509	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	1,500.0	1,502.7	216.9	211.3	38.660	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	200.0	200.0	99.9	99.3	153.071	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	9,300.0	7,420.3	1,725.2	1,679.6	37.774	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	200.0	200.0	89.8	89.2	137.636	CC, ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	1,900.0	1,913.2	176.1	167.5	20.449	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	200.0	200.0	80.0	79.4	122.629	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	500.0	504.0	80.4	78.7	47.070	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	1,900.0	1,914.1	132.7	123.1	13.798	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 100-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	14.17	3,648.3	920.9	3,762.8					
100.0	100.0	72.6	72.6	0.2	0.1	14.17	3,648.2	921.0	3,762.7	3,762.4	0.28	N/A		
172.0	172.0	140.9	140.9	0.3	0.2	14.17	3,648.1	921.2	3,762.6	3,762.1	0.52	7,189.637		
200.0	200.0	165.9	165.9	0.3	0.3	14.17	3,648.1	921.2	3,762.6	3,762.0	0.62	6,108.869		
300.0	300.0	261.8	261.8	0.5	0.5	-77.65	3,648.4	920.8	3,762.6	3,761.6	0.96	3,923.819		
400.0	400.0	373.9	373.9	0.7	0.7	-77.72	3,648.8	919.4	3,762.1	3,760.8	1.34	2,817.464		
500.0	499.9	462.5	462.5	0.9	0.8	-77.81	3,649.1	917.9	3,761.1	3,759.5	1.68	2,240.051		
600.0	599.7	535.1	535.1	1.1	0.9	-77.90	3,649.8	916.6	3,760.3	3,758.3	2.01	1,874.739		
699.7	699.1	600.0	599.9	1.3	1.1	-78.00	3,650.9	915.7	3,760.0	3,757.7	2.33	1,612.153		
700.0	699.4	600.0	599.9	1.3	1.1	-78.00	3,650.9	915.7	3,760.0	3,757.7	2.33	1,611.687		
800.0	798.9	666.2	666.1	1.5	1.2	-78.11	3,652.6	914.9	3,760.3	3,757.6	2.68	1,402.473		
900.0	898.3	734.1	734.0	1.8	1.3	-78.24	3,655.1	913.7	3,761.1	3,758.1	3.05	1,232.023		
1,000.0	997.4	808.3	808.0	2.0	1.4	-78.40	3,658.4	912.4	3,762.4	3,759.0	3.46	1,087.939		
1,100.0	1,096.3	916.0	915.7	2.3	1.6	-78.68	3,663.5	910.0	3,763.6	3,759.6	3.95	952.841		
1,200.0	1,194.9	1,015.8	1,015.3	2.7	1.8	-78.97	3,668.1	907.7	3,764.4	3,759.9	4.45	845.498		
1,300.0	1,293.3	1,121.2	1,120.6	3.0	2.0	-79.30	3,672.6	905.8	3,764.7	3,759.8	4.99	754.455		
1,400.0	1,391.2	1,215.5	1,214.8	3.4	2.2	-79.61	3,676.7	904.2	3,764.9	3,759.4	5.54	680.126		
1,500.0	1,488.9	1,327.1	1,326.2	3.8	2.4	-80.01	3,681.2	902.4	3,764.8	3,758.7	6.14	613.060		
1,600.0	1,586.1	1,433.4	1,432.5	4.3	2.6	-80.43	3,685.2	900.7	3,764.1	3,757.4	6.77	556.186		
1,700.0	1,682.9	1,524.1	1,523.1	4.7	2.8	-80.82	3,688.6	898.7	3,763.4	3,756.0	7.40	508.765		
1,800.0	1,779.3	1,614.4	1,613.4	5.2	3.0	-81.21	3,692.1	897.4	3,762.7	3,754.7	8.05	467.187		
1,900.0	1,875.2	1,721.0	1,719.9	5.8	3.2	-81.70	3,696.0	896.3	3,761.8	3,753.1	8.77	428.870		
2,000.0	1,970.5	1,809.2	1,808.0	6.3	3.3	-82.13	3,699.2	895.3	3,761.0	3,751.5	9.49	396.367		
2,022.8	1,992.2	1,829.9	1,828.6	6.4	3.4	-82.24	3,700.0	895.1	3,760.8	3,751.2	9.65	389.534		
2,100.0	2,065.5	1,900.1	1,898.8	6.9	3.5	-82.58	3,702.6	894.6	3,760.4	3,750.1	10.22	367.925		
2,200.0	2,160.5	2,022.2	2,020.9	7.5	3.7	-83.17	3,706.6	894.5	3,759.7	3,748.7	11.01	341.471		
2,300.0	2,255.5	2,150.7	2,149.3	8.0	3.9	-83.79	3,709.9	894.6	3,758.6	3,746.8	11.81	318.131		
2,400.0	2,350.5	2,254.1	2,252.7	8.6	4.1	-84.28	3,711.6	894.8	3,757.0	3,744.4	12.58	298.697		
2,500.0	2,445.5	2,381.4	2,380.0	9.2	4.3	-84.88	3,713.7	895.2	3,755.7	3,742.3	13.38	280.599		
2,600.0	2,540.4	2,487.2	2,485.8	9.8	4.5	-85.37	3,714.3	896.1	3,753.6	3,739.4	14.15	265.184		
2,700.0	2,635.4	2,567.9	2,566.5	10.4	4.7	-85.75	3,714.9	896.5	3,751.9	3,737.0	14.88	252.075		
2,800.0	2,730.4	2,655.2	2,653.7	11.0	4.8	-86.17	3,715.9	896.4	3,750.8	3,735.1	15.63	240.022		
2,900.0	2,825.4	2,766.0	2,764.6	11.6	5.0	-86.71	3,717.2	896.0	3,749.9	3,733.5	16.41	228.457		
3,000.0	2,920.4	2,895.5	2,894.0	12.2	5.2	-87.35	3,717.8	894.3	3,748.5	3,731.3	17.24	217.479		
3,100.0	3,015.4	2,998.2	2,996.8	12.8	5.4	-87.86	3,717.7	892.6	3,746.9	3,728.9	18.01	208.031		
3,200.0	3,110.3	3,077.5	3,076.1	13.3	5.5	-88.26	3,717.6	891.6	3,745.7	3,726.9	18.74	199.838		
3,300.0	3,205.3	3,170.1	3,168.6	13.9	5.7	-88.72	3,717.8	890.6	3,745.0	3,725.5	19.50	192.054		
3,400.0	3,300.3	3,269.3	3,267.8	14.5	5.9	-89.21	3,718.0	889.4	3,744.5	3,724.2	20.27	184.749		
3,500.0	3,395.3	3,386.2	3,384.7	15.1	6.1	-89.79	3,717.8	887.6	3,744.0	3,722.9	21.07	177.715		
3,600.0	3,490.3	3,487.2	3,485.7	15.7	6.2	-90.30	3,717.2	886.2	3,743.3	3,721.5	21.84	171.421		
3,698.5	3,583.8	3,568.6	3,567.1	16.3	6.4	-90.70	3,716.8	885.3	3,743.0	3,720.4	22.56	165.891		
3,700.0	3,585.2	3,569.8	3,568.3	16.3	6.4	-90.71	3,716.8	885.3	3,743.0	3,720.4	22.57	165.809		
3,800.0	3,680.2	3,642.1	3,640.6	16.9	6.5	-91.06	3,716.7	884.4	3,743.4	3,720.1	23.29	160.705		
3,900.0	3,775.2	3,718.1	3,716.5	17.5	6.6	-91.45	3,717.2	883.1	3,744.7	3,720.7	24.02	155.904		
4,000.0	3,870.2	3,829.9	3,828.4	18.1	6.8	-92.02	3,717.6	880.6	3,746.1	3,721.3	24.81	151.011		
4,100.0	3,965.2	3,912.7	3,911.1	18.7	7.0	-92.44	3,718.0	878.7	3,747.9	3,722.4	25.54	146.730		
4,200.0	4,060.2	4,000.0	3,998.4	19.3	7.1	-92.89	3,718.6	876.6	3,750.2	3,723.9	26.29	142.668		
4,300.0	4,155.1	4,100.0	4,098.3	19.9	7.3	-93.41	3,719.2	873.8	3,752.7	3,725.7	27.05	138.737		
4,400.0	4,250.1	4,188.0	4,186.3	20.5	7.5	-93.86	3,719.7	871.4	3,755.6	3,727.8	27.79	135.137		
4,500.0	4,345.1	4,279.9	4,278.2	21.1	7.6	-94.33	3,720.5	869.3	3,758.9	3,730.4	28.54	131.728		
4,600.0	4,440.1	4,393.7	4,392.0	21.7	7.8	-94.89	3,721.2	867.6	3,762.3	3,733.0	29.31	128.350		
4,700.0	4,535.1	4,463.2	4,461.5	22.3	8.0	-95.24	3,721.7	866.6	3,766.0	3,736.0	30.02	125.458		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV												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
4,800.0	4,630.1	4,554.8	4,553.0	22.9	8.1	-95.69	3,722.8	865.0	3,770.6	3,739.8	30.76	122.594	
4,900.0	4,725.0	4,652.7	4,650.9	23.5	8.3	-96.17	3,723.7	863.6	3,775.1	3,743.6	31.50	119.835	
5,000.0	4,820.0	4,747.1	4,745.3	24.1	8.5	-96.64	3,724.8	862.3	3,780.1	3,747.8	32.24	117.245	
5,100.0	4,915.0	4,836.4	4,834.6	24.6	8.6	-97.07	3,725.7	861.2	3,785.2	3,752.2	32.97	114.811	
5,200.0	5,010.0	4,910.1	4,908.3	25.2	8.7	-97.43	3,726.8	860.5	3,791.0	3,757.4	33.67	112.590	
5,300.0	5,105.0	5,005.5	5,003.7	25.8	8.9	-97.88	3,728.5	859.7	3,797.4	3,762.9	34.40	110.378	
5,400.0	5,199.9	5,098.6	5,096.7	26.4	9.1	-98.32	3,730.2	859.0	3,804.0	3,768.8	35.13	108.283	
5,500.0	5,294.9	5,190.1	5,188.2	27.0	9.2	-98.76	3,731.8	858.0	3,810.9	3,775.0	35.85	106.293	
5,600.0	5,389.9	5,293.8	5,291.9	27.6	9.4	-99.26	3,733.6	856.5	3,818.0	3,781.4	36.59	104.348	
5,700.0	5,484.9	5,388.8	5,386.8	28.2	9.6	-99.72	3,735.0	855.0	3,825.3	3,788.0	37.31	102.524	
5,800.0	5,579.9	5,483.6	5,481.7	28.8	9.8	-100.17	3,736.5	853.8	3,832.8	3,794.8	38.03	100.787	
5,900.0	5,674.9	5,565.5	5,563.6	29.4	9.9	-100.56	3,737.9	852.9	3,840.7	3,802.0	38.73	99.172	
6,000.0	5,769.8	5,670.5	5,668.5	30.0	10.1	-101.06	3,739.9	851.3	3,849.1	3,809.6	39.45	97.561	
6,100.0	5,864.8	5,763.3	5,761.3	30.6	10.3	-101.50	3,741.4	850.2	3,857.3	3,817.2	40.16	96.050	
6,200.0	5,959.8	5,848.5	5,846.4	31.2	10.4	-101.90	3,742.9	849.1	3,866.1	3,825.3	40.85	94.632	
6,300.0	6,054.8	5,935.8	5,933.7	31.8	10.6	-102.31	3,744.6	847.5	3,875.3	3,833.8	41.55	93.273	
6,400.0	6,149.8	6,025.1	6,023.0	32.4	10.7	-102.74	3,746.4	845.6	3,885.0	3,842.7	42.24	91.971	
6,500.0	6,244.7	6,135.1	6,133.0	33.0	10.9	-103.25	3,748.8	844.3	3,894.9	3,851.9	42.96	90.674	
6,600.0	6,339.7	6,253.2	6,251.0	33.6	11.1	-103.78	3,750.5	843.7	3,904.2	3,860.5	43.67	89.393	
6,700.0	6,434.7	6,334.6	6,332.5	34.2	11.3	-104.13	3,752.0	844.2	3,913.8	3,869.4	44.35	88.252	
6,800.0	6,529.7	6,417.2	6,415.0	34.8	11.4	-104.47	3,754.1	845.7	3,924.0	3,879.0	45.02	87.158	
6,900.0	6,624.7	6,516.9	6,514.7	35.4	11.6	-104.88	3,756.5	847.3	3,934.4	3,888.7	45.71	86.068	
7,000.0	6,719.7	6,583.0	6,580.7	36.0	11.7	-105.16	3,758.3	848.0	3,945.4	3,899.0	46.36	85.097	
7,100.0	6,814.6	6,694.2	6,691.9	36.6	11.9	-105.63	3,761.6	848.8	3,956.9	3,909.8	47.06	84.080	
7,200.0	6,909.6	6,769.0	6,766.6	37.2	12.1	-105.94	3,763.6	849.1	3,968.4	3,920.7	47.71	83.169	
7,225.4	6,933.7	6,787.4	6,785.0	37.3	12.1	-106.02	3,764.2	849.1	3,971.5	3,923.6	47.88	82.947	
7,250.0	6,957.1	6,807.9	6,805.5	37.5	12.1	-98.57	3,764.9	849.2	3,974.0	3,925.9	48.05	82.710	
7,300.0	7,004.6	6,863.2	6,860.8	37.8	12.2	-83.88	3,766.6	849.3	3,975.8	3,927.7	48.16	82.549	
7,350.0	7,051.7	6,947.6	6,945.2	38.0	12.4	-71.35	3,768.8	849.5	3,973.3	3,925.3	47.99	82.797	
7,400.0	7,098.0	7,038.0	7,035.5	38.3	12.5	-61.62	3,770.1	849.9	3,965.8	3,918.3	47.50	83.488	
7,450.0	7,143.3	7,097.0	7,094.5	38.5	12.6	-54.31	3,770.7	850.5	3,954.0	3,907.3	46.68	84.708	
7,500.0	7,187.1	7,133.7	7,131.2	38.8	12.7	-48.92	3,771.0	850.9	3,938.1	3,892.6	45.54	86.474	
7,550.0	7,229.2	7,167.9	7,165.4	39.0	12.8	-45.06	3,771.3	851.2	3,918.4	3,874.3	44.13	88.798	
7,600.0	7,269.2	7,200.6	7,198.1	39.2	12.8	-42.39	3,771.7	851.4	3,895.0	3,852.5	42.46	91.728	
7,650.0	7,306.8	7,247.4	7,245.0	39.4	12.9	-40.79	3,772.2	851.6	3,868.0	3,827.4	40.59	95.292	
7,700.0	7,341.7	7,290.6	7,288.2	39.6	13.0	-40.01	3,772.5	851.6	3,837.6	3,799.0	38.54	99.576	
7,750.0	7,373.7	7,321.2	7,318.7	39.8	13.0	-39.89	3,772.7	851.5	3,803.9	3,767.6	36.35	104.648	
7,800.0	7,402.5	7,346.3	7,343.9	39.9	13.1	-40.47	3,772.8	851.4	3,767.4	3,733.3	34.10	110.490	
7,850.0	7,427.9	7,368.6	7,366.1	40.1	13.1	-41.86	3,773.0	851.3	3,728.4	3,696.5	31.88	116.966	
7,900.0	7,449.7	7,387.8	7,385.3	40.2	13.1	-44.21	3,773.1	851.2	3,687.0	3,657.2	29.81	123.683	
7,950.0	7,467.8	7,404.1	7,401.7	40.4	13.2	-47.82	3,773.3	851.1	3,643.6	3,615.5	28.08	129.756	
8,000.0	7,481.9	7,418.1	7,415.6	40.6	13.2	-53.18	3,773.4	851.0	3,598.5	3,571.6	26.94	133.585	
8,050.0	7,492.0	7,428.2	7,425.7	40.7	13.2	-61.05	3,773.5	850.9	3,552.1	3,525.4	26.66	133.249	
8,100.0	7,498.1	7,434.5	7,432.0	40.9	13.2	-72.50	3,773.5	850.9	3,504.6	3,477.3	27.33	128.239	
8,148.1	7,500.0	7,436.7	7,434.3	41.0	13.2	-87.73	3,773.5	850.9	3,458.2	3,429.9	28.36	121.925	
8,200.0	7,500.0	7,437.2	7,434.7	41.2	13.2	-87.76	3,773.5	850.9	3,408.1	3,379.2	28.84	118.190	
8,300.0	7,500.0	7,438.1	7,435.6	41.5	13.2	-87.81	3,773.5	850.9	3,311.5	3,281.7	29.85	110.940	
8,400.0	7,500.0	7,439.0	7,436.5	42.0	13.2	-87.87	3,773.6	850.9	3,215.2	3,184.2	30.98	103.780	
8,500.0	7,500.0	7,439.8	7,437.4	42.5	13.2	-87.93	3,773.6	850.9	3,119.1	3,086.9	32.21	96.841	
8,600.0	7,500.0	7,440.7	7,438.2	43.1	13.2	-87.99	3,773.6	850.9	3,023.3	2,989.8	33.52	90.206	
8,700.0	7,500.0	7,441.6	7,439.1	43.7	13.2	-88.05	3,773.6	850.9	2,927.7	2,892.8	34.89	83.921	
8,800.0	7,500.0	7,442.5	7,440.0	44.4	13.2	-88.11	3,773.6	850.9	2,832.5	2,796.1	36.31	78.005	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV												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
8,900.0	7,500.0	7,443.4	7,440.9	45.2	13.2	-88.16	3,773.6	850.9	2,737.5	2,699.8	37.78	72.461	
9,000.0	7,500.0	7,444.3	7,441.8	46.0	13.2	-88.22	3,773.6	850.8	2,643.0	2,603.7	39.28	67.278	
9,100.0	7,500.0	7,445.2	7,442.7	46.9	13.2	-88.28	3,773.6	850.8	2,548.9	2,508.0	40.82	62.441	
9,200.0	7,500.0	7,446.1	7,443.6	47.8	13.2	-88.34	3,773.6	850.8	2,455.2	2,412.8	42.38	57.930	
9,300.0	7,500.0	7,447.0	7,444.5	48.8	13.2	-88.40	3,773.6	850.8	2,362.0	2,318.1	43.97	53.725	
9,400.0	7,500.0	7,447.9	7,445.5	49.8	13.2	-88.46	3,773.6	850.8	2,269.5	2,223.9	45.57	49.804	
9,500.0	7,500.0	7,448.9	7,446.4	50.8	13.2	-88.52	3,773.6	850.8	2,177.6	2,130.4	47.19	46.149	
9,600.0	7,500.0	7,449.8	7,447.3	51.9	13.2	-88.58	3,773.6	850.8	2,086.4	2,037.6	48.82	42.738	
9,700.0	7,500.0	7,450.7	7,448.2	53.1	13.2	-88.64	3,773.7	850.8	1,996.1	1,945.6	50.46	39.556	
9,803.1	7,500.0	7,451.6	7,449.2	54.3	13.2	-88.70	3,773.7	850.8	1,903.9	1,851.8	52.17	36.495	
9,900.0	7,500.0	7,452.5	7,450.0	55.4	13.2	-88.76	3,773.7	850.8	1,818.5	1,764.7	53.78	33.813	
10,000.0	7,500.0	7,453.5	7,451.0	56.6	13.3	-88.82	3,773.7	850.8	1,731.5	1,676.1	55.45	31.225	
10,100.0	7,500.0	7,454.4	7,451.9	57.9	13.3	-88.88	3,773.7	850.8	1,646.0	1,588.9	57.13	28.811	
10,200.0	7,500.0	7,455.3	7,452.8	59.2	13.3	-88.94	3,773.7	850.8	1,562.3	1,503.5	58.82	26.561	
10,300.0	7,500.0	7,456.3	7,453.8	60.5	13.3	-89.00	3,773.7	850.8	1,480.5	1,420.0	60.51	24.468	
10,400.0	7,500.0	7,457.2	7,454.7	61.8	13.3	-89.07	3,773.7	850.8	1,401.2	1,339.0	62.21	22.524	
10,500.0	7,500.0	7,458.1	7,455.6	63.1	13.3	-89.13	3,773.7	850.8	1,324.6	1,260.7	63.91	20.726	
10,600.0	7,500.0	7,459.1	7,456.6	64.5	13.3	-89.19	3,773.7	850.8	1,251.3	1,185.7	65.61	19.071	
10,703.1	7,500.0	7,460.0	7,457.6	65.9	13.3	-89.25	3,773.7	850.8	1,179.9	1,112.5	67.38	17.511	
10,800.0	7,500.0	7,461.0	7,458.5	67.3	13.3	-89.32	3,773.7	850.8	1,117.9	1,048.3	69.62	16.057	
10,900.0	7,500.0	7,461.9	7,459.4	68.8	13.3	-89.39	3,773.8	850.8	1,060.9	989.0	71.93	14.750	
11,000.0	7,500.0	7,462.8	7,460.4	70.2	13.3	-89.45	3,773.8	850.7	1,012.2	937.9	74.22	13.637	
11,100.0	7,500.0	7,463.8	7,461.3	71.7	13.3	-89.52	3,773.8	850.7	972.9	896.4	76.50	12.718	
11,200.0	7,500.0	7,464.7	7,462.2	73.3	13.3	-89.58	3,773.8	850.7	944.4	865.6	78.77	11.990	
11,253.1	7,500.0	7,465.2	7,462.7	74.1	13.3	-89.61	3,773.8	850.7	933.9	854.0	79.96	11.680	
11,300.0	7,500.0	7,465.6	7,463.1	74.8	13.3	-89.63	3,773.8	850.7	927.4	846.6	80.77	11.482	
11,400.0	7,500.0	7,466.5	7,464.0	76.3	13.3	-89.69	3,773.8	850.7	921.2	838.7	82.49	11.168	
11,407.0	7,500.0	7,466.6	7,464.1	76.4	13.3	-89.70	3,773.8	850.7	921.2	838.6	82.61	11.151 CC, ES	
11,500.0	7,500.0	7,467.4	7,465.0	77.9	13.3	-89.75	3,773.8	850.7	925.8	841.6	84.21	10.995	
11,600.0	7,500.0	7,468.4	7,465.9	79.5	13.3	-89.81	3,773.8	850.7	941.2	855.2	85.93	10.953 SF	
11,700.0	7,500.0	7,469.3	7,466.8	81.0	13.3	-89.86	3,773.8	850.7	966.6	879.0	87.65	11.028	
11,800.0	7,500.0	7,470.2	7,467.7	82.6	13.3	-89.92	3,773.8	850.7	1,001.5	912.1	89.38	11.205	
11,900.0	7,500.0	7,471.2	7,468.7	84.2	13.3	-89.98	3,773.8	850.7	1,044.8	953.7	91.10	11.468	
12,000.0	7,500.0	7,472.1	7,469.6	85.8	13.3	-90.04	3,773.8	850.7	1,095.5	1,002.7	92.83	11.801	
12,100.0	7,500.0	7,473.0	7,470.5	87.4	13.3	-90.10	3,773.9	850.7	1,152.7	1,058.1	94.56	12.190	
12,200.0	7,500.0	7,474.0	7,471.5	89.0	13.3	-90.15	3,773.9	850.7	1,215.4	1,119.2	96.29	12.623	
12,300.0	7,500.0	7,474.9	7,472.4	90.6	13.3	-90.21	3,773.9	850.7	1,282.9	1,184.9	98.02	13.088	
12,400.0	7,500.0	7,475.9	7,473.4	92.2	13.3	-90.27	3,773.9	850.7	1,354.4	1,254.7	99.75	13.578	
12,500.0	7,500.0	7,476.8	7,474.3	93.8	13.3	-90.33	3,773.9	850.7	1,429.3	1,327.9	101.48	14.085	
12,600.0	7,500.0	7,477.8	7,475.3	95.5	13.3	-90.39	3,773.9	850.7	1,507.2	1,404.0	103.22	14.602	
12,700.0	7,500.0	7,478.7	7,476.2	97.1	13.3	-90.45	3,773.9	850.7	1,587.5	1,482.6	104.95	15.126	
12,800.0	7,500.0	7,479.7	7,477.2	98.7	13.3	-90.51	3,773.9	850.7	1,670.0	1,563.3	106.68	15.653	
12,900.0	7,500.0	7,480.7	7,478.2	100.4	13.3	-90.57	3,773.9	850.7	1,754.2	1,645.8	108.42	16.180	
13,000.0	7,500.0	7,481.6	7,479.1	102.0	13.3	-90.63	3,773.9	850.6	1,840.1	1,729.9	110.15	16.705	
13,100.0	7,500.0	7,482.6	7,480.1	103.7	13.3	-90.69	3,773.9	850.6	1,927.3	1,815.4	111.89	17.225	
13,200.0	7,500.0	7,483.6	7,481.1	105.3	13.3	-90.75	3,774.0	850.6	2,015.7	1,902.1	113.63	17.740	
13,300.0	7,500.0	7,484.5	7,482.1	107.0	13.3	-90.81	3,774.0	850.6	2,105.1	1,989.8	115.36	18.248	
13,400.0	7,500.0	7,485.5	7,483.0	108.6	13.3	-90.87	3,774.0	850.6	2,195.5	2,078.4	117.10	18.748	
13,500.0	7,500.0	7,486.5	7,484.0	110.3	13.3	-90.93	3,774.0	850.6	2,286.6	2,167.8	118.84	19.241	
13,600.0	7,500.0	7,487.5	7,485.0	111.9	13.3	-91.00	3,774.0	850.6	2,378.5	2,257.9	120.58	19.726	
13,700.0	7,500.0	7,488.5	7,486.0	113.6	13.3	-91.06	3,774.0	850.6	2,471.0	2,348.7	122.32	20.202	
13,753.1	7,500.0	7,489.0	7,486.5	114.5	13.3	-91.09	3,774.0	850.6	2,520.4	2,397.1	123.24	20.451	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,800.0	7,500.0	7,489.5	7,487.0	115.3	13.3	-91.14	3,774.0	850.6	2,564.1	2,439.8	124.33	20.624		
13,900.0	7,500.0	7,490.5	7,488.0	117.0	13.3	-91.27	3,774.0	850.6	2,658.3	2,531.7	126.62	20.995		
14,000.0	7,500.0	7,491.4	7,488.9	118.7	13.3	-91.42	3,774.0	850.6	2,753.5	2,624.6	128.87	21.367		
14,100.0	7,500.0	7,492.4	7,489.9	120.4	13.3	-91.59	3,774.0	850.6	2,849.6	2,718.5	131.08	21.739		
14,200.0	7,500.0	7,493.4	7,490.9	122.1	13.3	-91.79	3,774.0	850.6	2,946.4	2,813.1	133.25	22.112		
14,300.0	7,500.0	7,494.3	7,491.8	123.8	13.3	-92.04	3,774.1	850.6	3,043.8	2,908.4	135.37	22.485		
14,400.0	7,500.0	7,495.3	7,492.8	125.6	13.3	-92.33	3,774.1	850.6	3,141.8	3,004.4	137.45	22.858		
14,500.0	7,500.0	7,496.2	7,493.7	127.3	13.3	-92.70	3,774.1	850.6	3,240.3	3,100.8	139.47	23.232		
14,600.0	7,500.0	7,497.1	7,494.6	129.1	13.3	-93.18	3,774.1	850.6	3,339.2	3,197.7	141.44	23.609		
14,683.9	7,500.0	7,497.9	7,495.4	130.5	13.3	-93.70	3,774.1	850.6	3,422.3	3,279.3	143.02	23.928		
14,700.0	7,500.0	7,498.0	7,495.6	130.8	13.3	-93.72	3,774.1	850.6	3,438.3	3,295.0	143.30	23.993		
14,756.3	7,500.0	7,498.6	7,496.1	131.8	13.3	-93.79	3,774.1	850.6	3,494.2	3,349.9	144.28	24.218		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													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		
0.0	0.0	0.0	0.0	0.0	0.0	17.61	4,282.8	1,359.7	4,493.7					
100.0	100.0	72.8	72.8	0.2	0.1	17.61	4,282.7	1,359.7	4,493.4	4,493.1	0.28	N/A		
188.9	188.9	150.9	150.9	0.3	0.3	17.61	4,282.6	1,359.7	4,493.3	4,492.7	0.57	7,876.037		
200.0	200.0	159.5	159.5	0.3	0.3	17.61	4,282.6	1,359.7	4,493.3	4,492.6	0.60	7,429.242		
300.0	300.0	242.3	242.3	0.5	0.4	-74.19	4,282.9	1,359.6	4,493.3	4,492.4	0.92	4,859.022		
400.0	400.0	333.6	333.6	0.7	0.6	-74.23	4,283.5	1,359.2	4,493.1	4,491.9	1.26	3,555.681		
500.0	499.9	440.5	440.5	0.9	0.8	-74.31	4,284.5	1,358.5	4,492.6	4,491.0	1.64	2,743.433		
600.0	599.7	570.1	570.1	1.1	1.0	-74.43	4,284.9	1,357.8	4,491.1	4,489.0	2.06	2,178.091		
700.0	699.4	654.3	654.3	1.3	1.1	-74.55	4,285.1	1,356.7	4,488.8	4,486.4	2.42	1,853.314		
800.0	798.9	737.4	737.4	1.5	1.3	-74.69	4,285.9	1,355.2	4,486.7	4,483.9	2.80	1,603.738		
900.0	898.3	857.4	857.4	1.8	1.5	-74.91	4,287.1	1,352.8	4,484.1	4,480.9	3.26	1,376.144		
1,000.0	997.4	956.8	956.7	2.0	1.7	-75.14	4,287.7	1,350.6	4,480.7	4,476.9	3.71	1,209.097		
1,100.0	1,096.3	1,047.8	1,047.6	2.3	1.8	-75.37	4,288.7	1,348.0	4,477.1	4,472.9	4.16	1,075.544		
1,200.0	1,194.9	1,149.1	1,148.9	2.7	2.0	-75.66	4,289.8	1,345.1	4,473.1	4,468.4	4.66	959.103		
1,300.0	1,293.3	1,242.8	1,242.5	3.0	2.2	-75.95	4,290.8	1,342.3	4,468.7	4,463.6	5.18	862.965		
1,400.0	1,391.2	1,334.6	1,334.3	3.4	2.4	-76.26	4,291.9	1,339.6	4,464.3	4,458.5	5.72	780.771		
1,500.0	1,488.9	1,459.0	1,458.6	3.8	2.6	-76.69	4,293.3	1,335.8	4,459.4	4,453.0	6.35	702.683		
1,600.0	1,586.1	1,564.2	1,563.8	4.3	2.8	-77.10	4,293.8	1,332.4	4,453.5	4,446.5	6.97	638.974		
1,700.0	1,682.9	1,658.2	1,657.7	4.7	3.0	-77.49	4,294.3	1,329.4	4,447.5	4,439.9	7.60	584.923		
1,800.0	1,779.3	1,752.7	1,752.2	5.2	3.1	-77.91	4,294.8	1,326.3	4,441.3	4,433.1	8.27	537.040		
1,900.0	1,875.2	1,849.7	1,849.1	5.8	3.3	-78.36	4,295.4	1,323.2	4,435.0	4,426.1	8.97	494.302		
2,000.0	1,970.5	1,956.9	1,956.3	6.3	3.5	-78.87	4,295.7	1,320.2	4,428.4	4,418.7	9.73	455.362		
2,022.8	1,992.2	1,982.0	1,981.4	6.4	3.5	-78.99	4,295.7	1,319.5	4,426.9	4,417.0	9.90	447.168		
2,100.0	2,065.5	2,117.9	2,117.2	6.9	3.8	-79.57	4,294.6	1,316.4	4,421.0	4,410.4	10.59	417.660		
2,200.0	2,160.5	2,200.0	2,199.3	7.5	3.9	-79.92	4,293.2	1,314.8	4,413.1	4,401.8	11.30	390.383		
2,300.0	2,255.5	2,265.7	2,265.0	8.0	4.0	-80.19	4,292.4	1,313.8	4,405.8	4,393.8	12.00	367.268		
2,400.0	2,350.5	2,330.6	2,329.9	8.6	4.2	-80.46	4,292.1	1,313.1	4,399.6	4,386.9	12.69	346.704		
2,500.0	2,445.5	2,408.3	2,407.6	9.2	4.3	-80.78	4,292.2	1,312.3	4,394.0	4,380.6	13.41	327.674		
2,600.0	2,540.4	2,511.9	2,511.2	9.8	4.5	-81.22	4,292.3	1,310.8	4,388.7	4,374.6	14.18	309.446		
2,700.0	2,635.4	2,604.6	2,603.9	10.4	4.6	-81.61	4,292.5	1,309.0	4,383.7	4,368.7	14.94	293.465		
2,800.0	2,730.4	2,695.7	2,694.9	11.0	4.8	-82.00	4,292.7	1,307.4	4,378.9	4,363.2	15.69	279.079		
2,900.0	2,825.4	2,756.7	2,755.9	11.6	4.9	-82.26	4,293.1	1,306.4	4,374.7	4,358.3	16.39	266.939		
3,000.0	2,920.4	2,830.8	2,830.0	12.2	5.0	-82.58	4,294.1	1,305.5	4,371.5	4,354.4	17.11	255.470		
3,100.0	3,015.4	2,933.6	2,932.8	12.8	5.2	-83.01	4,295.3	1,304.5	4,368.4	4,350.6	17.89	244.203		
3,200.0	3,110.3	3,021.2	3,020.4	13.3	5.4	-83.38	4,296.5	1,303.5	4,365.7	4,347.1	18.64	234.223		
3,300.0	3,205.3	3,109.3	3,108.5	13.9	5.5	-83.76	4,297.7	1,302.4	4,363.4	4,344.0	19.39	225.009		
3,400.0	3,300.3	3,186.4	3,185.6	14.5	5.7	-84.09	4,299.1	1,301.3	4,361.5	4,341.4	20.13	216.710		
3,500.0	3,395.3	3,274.8	3,273.9	15.1	5.8	-84.47	4,300.9	1,299.9	4,360.2	4,339.3	20.88	208.799		
3,600.0	3,490.3	3,352.3	3,351.4	15.7	6.0	-84.81	4,302.7	1,298.5	4,359.3	4,337.7	21.62	201.641		
3,700.0	3,585.2	3,436.8	3,435.8	16.3	6.1	-85.18	4,305.1	1,296.8	4,359.1	4,336.7	22.37	194.861		
3,800.0	3,680.2	3,545.4	3,544.4	16.9	6.3	-85.66	4,308.0	1,294.3	4,359.0	4,335.8	23.17	188.151		
3,900.0	3,775.2	3,653.0	3,651.9	17.5	6.5	-86.13	4,310.5	1,291.9	4,358.8	4,334.8	23.96	181.911		
4,000.0	3,870.2	3,755.1	3,754.0	18.1	6.7	-86.58	4,312.6	1,290.0	4,358.7	4,333.9	24.74	176.154		
4,060.2	3,927.4	3,815.3	3,814.2	18.5	6.8	-86.84	4,313.7	1,289.0	4,358.7	4,333.4	25.21	172.883		
4,100.0	3,965.2	3,855.9	3,854.7	18.7	6.9	-87.02	4,314.4	1,288.3	4,358.7	4,333.1	25.52	170.779		
4,200.0	4,060.2	3,965.0	3,963.9	19.3	7.1	-87.49	4,316.3	1,286.7	4,358.7	4,332.4	26.32	165.630		
4,279.1	4,135.3	4,047.0	4,045.8	19.8	7.2	-87.84	4,317.4	1,285.3	4,358.7	4,331.7	26.94	161.819		
4,300.0	4,155.1	4,067.2	4,066.0	19.9	7.2	-87.93	4,317.6	1,284.9	4,358.7	4,331.6	27.10	160.859		
4,400.0	4,250.1	4,159.7	4,158.5	20.5	7.4	-88.33	4,318.8	1,283.4	4,358.8	4,331.0	27.86	156.461		
4,500.0	4,345.1	4,264.9	4,263.7	21.1	7.6	-88.79	4,320.2	1,281.4	4,359.2	4,330.6	28.64	152.185		
4,600.0	4,440.1	4,396.9	4,395.6	21.7	7.8	-89.36	4,321.1	1,278.9	4,359.4	4,329.9	29.48	147.892		
4,700.0	4,535.1	4,494.7	4,493.4	22.3	8.0	-89.79	4,321.3	1,277.0	4,359.2	4,329.0	30.25	144.124		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													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		
4,706.5	4,541.2	4,500.0	4,498.7	22.3	8.0	-89.81	4,321.3	1,276.9	4,359.2	4,328.9	30.29	143.895		
4,800.0	4,630.1	4,578.1	4,576.9	22.9	8.2	-90.15	4,321.5	1,275.4	4,359.4	4,328.4	30.99	140.673		
4,900.0	4,725.0	4,676.4	4,675.1	23.5	8.3	-90.58	4,321.9	1,273.6	4,360.0	4,328.3	31.76	137.288		
5,000.0	4,820.0	4,761.5	4,760.2	24.1	8.5	-90.94	4,322.2	1,272.2	4,360.8	4,328.3	32.50	134.169		
5,100.0	4,915.0	4,842.2	4,840.9	24.6	8.6	-91.29	4,322.7	1,270.9	4,362.2	4,328.9	33.24	131.244		
5,200.0	5,010.0	4,934.9	4,933.5	25.2	8.8	-91.69	4,323.6	1,269.8	4,364.0	4,330.0	33.99	128.387		
5,300.0	5,105.0	5,039.9	5,038.6	25.8	9.0	-92.14	4,324.3	1,268.3	4,365.8	4,331.1	34.77	125.580		
5,400.0	5,199.9	5,126.4	5,125.1	26.4	9.1	-92.51	4,324.9	1,267.1	4,367.9	4,332.4	35.51	123.019		
5,500.0	5,294.9	5,209.3	5,207.9	27.0	9.3	-92.85	4,325.8	1,266.3	4,370.5	4,334.3	36.24	120.604		
5,600.0	5,389.9	5,307.0	5,305.6	27.6	9.4	-93.26	4,326.8	1,265.5	4,373.4	4,336.4	36.99	118.219		
5,700.0	5,484.9	5,407.0	5,405.6	28.2	9.6	-93.68	4,327.8	1,264.6	4,376.5	4,338.7	37.75	115.925		
5,800.0	5,579.9	5,492.0	5,490.6	28.8	9.8	-94.04	4,328.6	1,263.8	4,379.8	4,341.3	38.48	113.806		
5,900.0	5,674.9	5,589.7	5,588.3	29.4	9.9	-94.45	4,329.7	1,263.1	4,383.4	4,344.2	39.23	111.725		
6,000.0	5,769.8	5,675.2	5,673.8	30.0	10.1	-94.80	4,330.7	1,262.8	4,387.4	4,347.4	39.96	109.785		
6,100.0	5,864.8	5,770.3	5,768.9	30.6	10.3	-95.19	4,332.0	1,262.2	4,391.6	4,350.9	40.71	107.886		
6,200.0	5,959.8	5,880.8	5,879.4	31.2	10.4	-95.66	4,333.2	1,261.1	4,396.0	4,354.5	41.47	105.999		
6,300.0	6,054.8	5,977.3	5,975.8	31.8	10.6	-96.06	4,334.0	1,259.9	4,400.3	4,358.1	42.21	104.241		
6,400.0	6,149.8	6,066.7	6,065.3	32.4	10.8	-96.43	4,334.8	1,258.9	4,404.9	4,362.0	42.94	102.578		
6,500.0	6,244.7	6,147.2	6,145.8	33.0	10.9	-96.77	4,335.6	1,257.7	4,410.0	4,366.3	43.66	101.016		
6,600.0	6,339.7	6,236.9	6,235.4	33.6	11.1	-97.15	4,336.9	1,256.6	4,415.6	4,371.2	44.38	99.490		
6,700.0	6,434.7	6,343.3	6,341.7	34.2	11.3	-97.60	4,338.1	1,254.6	4,421.2	4,376.0	45.13	97.963		
6,800.0	6,529.7	6,448.3	6,446.7	34.8	11.5	-98.05	4,339.1	1,252.5	4,426.9	4,381.0	45.87	96.500		
6,900.0	6,624.7	6,547.5	6,546.0	35.4	11.6	-98.47	4,339.7	1,250.4	4,432.5	4,385.9	46.61	95.103		
7,000.0	6,719.7	6,631.4	6,629.8	36.0	11.8	-98.82	4,340.4	1,248.8	4,438.6	4,391.3	47.32	93.808		
7,100.0	6,814.6	6,723.3	6,721.7	36.6	11.9	-99.21	4,341.3	1,247.0	4,445.0	4,397.0	48.03	92.540		
7,200.0	6,909.6	6,813.2	6,811.6	37.2	12.1	-99.59	4,342.1	1,244.7	4,451.7	4,403.0	48.75	91.323		
7,225.4	6,933.7	6,835.2	6,833.5	37.3	12.1	-99.69	4,342.3	1,244.0	4,453.5	4,404.6	48.93	91.024		
7,250.0	6,957.1	6,856.5	6,854.8	37.5	12.2	-92.27	4,342.5	1,243.3	4,454.7	4,405.6	49.08	90.761		
7,300.0	7,004.6	6,900.0	6,898.3	37.8	12.3	-77.57	4,342.9	1,241.9	4,454.0	4,404.8	49.15	90.611		
7,350.0	7,051.7	6,944.3	6,942.6	38.0	12.3	-64.83	4,343.4	1,240.4	4,449.0	4,400.1	48.90	90.973		
7,400.0	7,098.0	6,988.1	6,986.3	38.3	12.4	-54.79	4,343.9	1,238.9	4,439.8	4,391.5	48.33	91.859		
7,450.0	7,143.3	7,022.8	7,021.0	38.5	12.5	-47.21	4,344.3	1,237.6	4,426.5	4,379.1	47.43	93.317		
7,500.0	7,187.1	7,053.4	7,051.6	38.8	12.6	-41.57	4,344.7	1,236.5	4,409.3	4,363.0	46.23	95.377		
7,550.0	7,229.2	7,083.0	7,081.2	39.0	12.6	-37.40	4,345.3	1,235.5	4,388.2	4,343.4	44.74	98.089		
7,600.0	7,269.2	7,115.2	7,113.3	39.2	12.7	-34.35	4,345.9	1,234.4	4,363.4	4,320.4	42.98	101.520		
7,650.0	7,306.8	7,151.0	7,149.1	39.4	12.7	-32.17	4,346.7	1,233.4	4,335.0	4,294.0	40.99	105.760		
7,700.0	7,341.7	7,184.5	7,182.7	39.6	12.8	-30.68	4,347.5	1,232.6	4,303.3	4,264.5	38.79	110.945		
7,750.0	7,373.7	7,213.1	7,211.2	39.8	12.8	-29.74	4,348.3	1,232.1	4,268.4	4,231.9	36.41	117.228		
7,800.0	7,402.5	7,236.9	7,235.0	39.9	12.9	-29.32	4,348.9	1,231.7	4,230.6	4,196.7	33.91	124.761		
7,850.0	7,427.9	7,258.1	7,256.2	40.1	12.9	-29.45	4,349.5	1,231.4	4,190.2	4,158.8	31.35	133.646		
7,900.0	7,449.7	7,276.7	7,274.8	40.2	13.0	-30.21	4,350.1	1,231.2	4,147.4	4,118.6	28.83	143.856		
7,950.0	7,467.8	7,300.0	7,298.1	40.4	13.0	-31.94	4,350.9	1,230.9	4,102.7	4,076.2	26.50	154.824		
8,000.0	7,481.9	7,305.8	7,303.9	40.6	13.0	-34.72	4,351.0	1,230.9	4,056.2	4,031.7	24.51	165.480		
8,050.0	7,492.0	7,316.7	7,314.8	40.7	13.0	-39.99	4,351.4	1,230.8	4,008.4	3,985.1	23.35	171.695		
8,100.0	7,498.1	7,323.9	7,321.9	40.9	13.0	-50.38	4,351.7	1,230.8	3,959.6	3,935.8	23.78	166.528		
8,148.1	7,500.0	7,327.2	7,325.3	41.0	13.0	-72.82	4,351.8	1,230.7	3,912.0	3,885.3	26.73	146.346		
8,200.0	7,500.0	7,328.9	7,327.0	41.2	13.0	-73.02	4,351.8	1,230.7	3,860.5	3,833.3	27.22	141.801		
8,300.0	7,500.0	7,332.2	7,330.2	41.5	13.1	-73.41	4,352.0	1,230.7	3,761.2	3,733.0	28.28	133.012		
8,400.0	7,500.0	7,335.5	7,333.5	42.0	13.1	-73.80	4,352.1	1,230.7	3,662.0	3,632.6	29.44	124.375		
8,500.0	7,500.0	7,338.8	7,336.9	42.5	13.1	-74.20	4,352.2	1,230.7	3,562.8	3,532.1	30.70	116.042		
8,600.0	7,500.0	7,342.2	7,340.2	43.1	13.1	-74.60	4,352.3	1,230.7	3,463.7	3,431.6	32.04	108.106		
8,700.0	7,500.0	7,345.5	7,343.6	43.7	13.1	-75.00	4,352.4	1,230.7	3,364.6	3,331.2	33.44	100.614		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,800.0	7,500.0	7,348.9	7,347.0	44.4	13.1	-75.41	4,352.5	1,230.7	3,265.5	3,230.7	34.89	93.583		
8,900.0	7,500.0	7,352.3	7,350.4	45.2	13.1	-75.83	4,352.7	1,230.7	3,166.6	3,130.2	36.39	87.009		
9,000.0	7,500.0	7,355.8	7,353.8	46.0	13.1	-76.25	4,352.8	1,230.7	3,067.6	3,029.7	37.93	80.875		
9,100.0	7,500.0	7,359.3	7,357.3	46.9	13.1	-76.67	4,352.9	1,230.7	2,968.8	2,929.3	39.50	75.160		
9,200.0	7,500.0	7,362.7	7,360.8	47.8	13.1	-77.10	4,353.0	1,230.7	2,870.0	2,828.9	41.10	69.836		
9,300.0	7,500.0	7,366.3	7,364.3	48.8	13.1	-77.53	4,353.2	1,230.7	2,771.3	2,728.6	42.72	64.875		
9,400.0	7,500.0	7,369.8	7,367.8	49.8	13.1	-77.97	4,353.3	1,230.7	2,672.7	2,628.3	44.36	60.251		
9,500.0	7,500.0	7,373.4	7,371.4	50.8	13.1	-78.41	4,353.4	1,230.7	2,574.2	2,528.2	46.02	55.937		
9,600.0	7,500.0	7,376.9	7,375.0	51.9	13.1	-78.86	4,353.6	1,230.7	2,475.8	2,428.1	47.70	51.908		
9,700.0	7,500.0	7,380.6	7,378.6	53.1	13.1	-79.31	4,353.7	1,230.7	2,377.5	2,328.1	49.39	48.142		
9,803.1	7,500.0	7,384.3	7,382.3	54.3	13.1	-79.78	4,353.8	1,230.7	2,276.3	2,225.2	51.14	44.509		
9,900.0	7,500.0	7,387.9	7,385.9	55.4	13.2	-80.23	4,354.0	1,230.7	2,181.4	2,128.6	52.80	41.313		
10,000.0	7,500.0	7,391.6	7,389.6	56.6	13.2	-80.69	4,354.1	1,230.7	2,083.7	2,029.2	54.53	38.214		
10,100.0	7,500.0	7,395.3	7,393.3	57.9	13.2	-81.16	4,354.3	1,230.8	1,986.1	1,929.9	56.26	35.303		
10,200.0	7,500.0	7,399.1	7,397.0	59.2	13.2	-81.64	4,354.4	1,230.8	1,888.8	1,830.8	58.00	32.566		
10,300.0	7,500.0	7,400.0	7,398.0	60.5	13.2	-81.76	4,354.4	1,230.8	1,791.8	1,732.1	59.69	30.018		
10,400.0	7,500.0	7,400.0	7,398.0	61.8	13.2	-81.76	4,354.4	1,230.8	1,695.2	1,633.8	61.37	27.622		
10,500.0	7,500.0	7,408.6	7,406.6	63.1	13.2	-82.85	4,354.8	1,230.8	1,598.9	1,535.7	63.22	25.290		
10,600.0	7,500.0	7,411.9	7,409.8	64.5	13.2	-83.26	4,354.9	1,230.9	1,503.1	1,438.1	64.97	23.134		
10,703.1	7,500.0	7,415.3	7,413.3	65.9	13.2	-83.71	4,355.0	1,230.9	1,404.9	1,338.1	66.78	21.036		
10,800.0	7,500.0	7,418.6	7,416.6	67.3	13.2	-84.41	4,355.2	1,230.9	1,313.6	1,244.5	69.10	19.010		
10,900.0	7,500.0	7,422.2	7,420.2	68.8	13.2	-85.06	4,355.3	1,230.9	1,221.0	1,149.5	71.48	17.082		
11,000.0	7,500.0	7,425.8	7,423.8	70.2	13.2	-85.65	4,355.5	1,230.9	1,130.3	1,056.5	73.83	15.310		
11,100.0	7,500.0	7,429.6	7,427.6	71.7	13.2	-86.20	4,355.6	1,231.0	1,042.1	966.0	76.16	13.684		
11,200.0	7,500.0	7,433.5	7,431.4	73.3	13.2	-86.72	4,355.8	1,231.0	957.3	878.8	78.46	12.200		
11,253.1	7,500.0	7,435.6	7,433.5	74.1	13.2	-86.99	4,355.9	1,231.0	913.8	834.1	79.68	11.468		
11,300.0	7,500.0	7,437.4	7,435.4	74.8	13.2	-87.18	4,356.0	1,231.0	876.5	796.0	80.50	10.888		
11,400.0	7,500.0	7,441.5	7,439.5	76.3	13.2	-87.62	4,356.2	1,231.1	800.2	718.0	82.25	9.729		
11,500.0	7,500.0	7,445.8	7,443.7	77.9	13.3	-88.06	4,356.4	1,231.1	729.7	645.7	84.00	8.687		
11,600.0	7,500.0	7,450.1	7,448.0	79.5	13.3	-88.52	4,356.6	1,231.1	666.8	581.0	85.75	7.776		
11,700.0	7,500.0	7,454.5	7,452.5	81.0	13.3	-88.99	4,356.8	1,231.2	613.7	526.2	87.49	7.014		
11,800.0	7,500.0	7,459.1	7,457.1	82.6	13.3	-89.48	4,357.0	1,231.2	573.2	484.0	89.24	6.423		
11,900.0	7,500.0	7,463.9	7,461.8	84.2	13.3	-89.98	4,357.2	1,231.2	548.2	457.2	90.97	6.026		
11,990.6	7,500.0	7,468.3	7,466.2	85.6	13.3	-90.44	4,357.4	1,231.3	540.6	448.1	92.55	5.842 CC		
12,000.0	7,500.0	7,468.7	7,466.6	85.8	13.3	-90.49	4,357.4	1,231.3	540.7	448.0	92.71	5.833 ES, SF		
12,100.0	7,500.0	7,473.7	7,471.7	87.4	13.3	-91.02	4,357.7	1,231.3	551.6	457.1	94.44	5.841		
12,200.0	7,500.0	7,478.9	7,476.8	89.0	13.3	-91.57	4,357.9	1,231.3	579.7	483.5	96.16	6.028		
12,300.0	7,500.0	7,484.3	7,482.2	90.6	13.3	-92.14	4,358.2	1,231.4	622.7	524.8	97.87	6.363		
12,400.0	7,500.0	7,489.8	7,487.7	92.2	13.3	-92.72	4,358.5	1,231.4	677.8	578.2	99.57	6.807		
12,500.0	7,500.0	7,495.4	7,493.3	93.8	13.3	-93.32	4,358.8	1,231.5	742.3	641.1	101.26	7.331		
12,600.0	7,500.0	7,501.2	7,499.1	95.5	13.4	-93.92	4,359.1	1,231.5	814.0	711.1	102.94	7.908		
12,700.0	7,500.0	7,506.5	7,504.3	97.1	13.4	-94.48	4,359.4	1,231.6	891.1	786.5	104.61	8.519		
12,800.0	7,500.0	7,511.8	7,509.6	98.7	13.4	-95.04	4,359.7	1,231.6	972.4	866.1	106.27	9.150		
12,900.0	7,500.0	7,517.0	7,514.9	100.4	13.4	-95.59	4,359.9	1,231.7	1,056.9	949.0	107.92	9.793		
13,000.0	7,500.0	7,522.3	7,520.1	102.0	13.4	-96.14	4,360.2	1,231.7	1,143.8	1,034.3	109.56	10.440		
13,100.0	7,500.0	7,527.5	7,525.3	103.7	13.4	-96.69	4,360.5	1,231.8	1,232.7	1,121.5	111.19	11.087		
13,200.0	7,500.0	7,532.7	7,530.5	105.3	13.4	-97.23	4,360.8	1,231.8	1,323.2	1,210.4	112.80	11.730		
13,300.0	7,500.0	7,537.9	7,535.7	107.0	13.4	-97.77	4,361.0	1,231.8	1,414.9	1,300.5	114.40	12.368		
13,400.0	7,500.0	7,543.1	7,540.9	108.6	13.4	-98.31	4,361.3	1,231.9	1,507.7	1,391.7	115.99	12.998		
13,500.0	7,500.0	7,548.2	7,546.1	110.3	13.4	-98.85	4,361.6	1,231.9	1,601.3	1,483.7	117.57	13.620		
13,600.0	7,500.0	7,553.4	7,551.2	111.9	13.4	-99.38	4,361.9	1,232.0	1,695.6	1,576.5	119.13	14.233		
13,700.0	7,500.0	7,558.5	7,556.3	113.6	13.5	-99.91	4,362.1	1,232.0	1,790.6	1,669.9	120.68	14.837		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY				Offset Site Error:		0.0 ft
Survey Program: 100-Geolink MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
13,753.1	7,500.0	7,561.2	7,559.0	114.5	13.5	-100.19	4,362.3	1,232.1	1,841.2	1,719.7	121.50	15.154				
13,800.0	7,500.0	7,563.6	7,561.4	115.3	13.5	-100.75	4,362.4	1,232.1	1,886.1	1,763.7	122.37	15.412				
13,900.0	7,500.0	7,568.7	7,566.5	117.0	13.5	-102.09	4,362.7	1,232.1	1,982.4	1,858.3	124.09	15.976				
14,000.0	7,500.0	7,573.9	7,571.6	118.7	13.5	-103.68	4,362.9	1,232.2	2,079.6	1,954.0	125.56	16.562				
14,100.0	7,500.0	7,579.0	7,576.7	120.4	13.5	-105.62	4,363.2	1,232.2	2,177.4	2,050.7	126.68	17.188				
14,200.0	7,500.0	7,584.1	7,581.8	122.1	13.5	-108.01	4,363.5	1,232.3	2,275.7	2,148.4	127.29	17.878				
14,300.0	7,500.0	7,589.2	7,586.9	123.8	13.5	-111.05	4,363.7	1,232.3	2,374.4	2,247.3	127.09	18.682				
14,400.0	7,500.0	7,594.2	7,592.0	125.6	13.5	-115.01	4,364.0	1,232.4	2,473.5	2,347.9	125.59	19.694				
14,500.0	7,500.0	7,600.0	7,597.7	127.3	13.5	-120.48	4,364.3	1,232.4	2,572.8	2,451.1	121.70	21.141				
14,600.0	7,500.0	7,600.0	7,597.7	129.1	13.5	-126.92	4,364.3	1,232.4	2,672.4	2,557.1	115.25	23.188				
14,683.9	7,500.0	7,600.0	7,597.7	130.5	13.5	-134.69	4,364.3	1,232.4	2,756.0	2,651.1	104.89	26.276				
14,700.0	7,500.0	7,600.0	7,597.7	130.8	13.5	-134.69	4,364.3	1,232.4	2,772.1	2,667.0	105.09	26.378				
14,756.3	7,500.0	7,610.2	7,607.9	131.8	13.5	-136.76	4,364.8	1,232.5	2,828.2	2,725.8	102.40	27.620				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL														Offset Site Error:	0.0 ft
Survey Program: 775-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	14.40	3,659.9	939.4	3,778.6						
100.0	100.0	84.0	84.0	0.2	0.1	14.40	3,659.9	939.4	3,778.5	3,778.2	0.30	N/A			
200.0	200.0	184.0	184.0	0.3	0.3	14.40	3,659.9	939.4	3,778.5	3,777.9	0.64	5,884.376			
300.0	300.0	284.0	284.0	0.5	0.5	-77.42	3,659.9	939.4	3,778.3	3,777.4	0.99	3,819.840			
400.0	400.0	384.0	384.0	0.7	0.7	-77.46	3,659.9	939.4	3,777.8	3,776.4	1.34	2,818.847			
500.0	499.9	483.9	483.9	0.9	0.8	-77.54	3,659.9	939.4	3,776.8	3,775.1	1.70	2,223.223			
600.0	599.7	583.7	583.7	1.1	1.0	-77.64	3,659.9	939.4	3,775.5	3,773.4	2.07	1,825.309			
700.0	699.4	683.4	683.4	1.3	1.2	-77.77	3,659.9	939.4	3,773.8	3,771.4	2.45	1,538.958			
800.0	798.9	775.0	775.0	1.5	1.3	-77.92	3,659.9	939.4	3,771.8	3,769.0	2.84	1,328.378			
887.0	885.3	775.0	775.0	1.7	1.3	-77.93	3,659.9	939.4	3,771.0	3,767.9	3.06	1,233.761			
900.0	898.3	775.0	775.0	1.8	1.3	-77.93	3,659.9	939.4	3,771.0	3,767.9	3.09	1,220.784			
1,000.0	997.4	775.0	775.0	2.0	1.3	-77.91	3,659.9	939.4	3,772.4	3,769.1	3.36	1,122.654			
1,100.0	1,096.3	775.0	775.0	2.3	1.3	-77.88	3,659.9	939.4	3,776.1	3,772.5	3.66	1,033.143			
1,189.0	1,184.1	959.7	959.5	2.6	1.9	-78.34	3,665.6	937.6	3,771.8	3,767.4	4.32	872.459			
1,200.0	1,194.9	964.7	964.6	2.7	1.9	-78.36	3,665.9	937.5	3,772.0	3,767.6	4.37	863.348			
1,300.0	1,293.3	1,010.5	1,010.2	3.0	2.1	-78.48	3,669.1	936.5	3,774.8	3,770.0	4.81	784.064			
1,400.0	1,391.2	1,055.8	1,055.4	3.4	2.2	-78.61	3,673.0	935.2	3,778.7	3,773.4	5.29	714.682			
1,500.0	1,488.9	1,100.7	1,100.0	3.8	2.4	-78.74	3,677.5	933.8	3,783.7	3,777.9	5.79	653.703			
1,600.0	1,586.1	1,145.2	1,144.2	4.3	2.5	-78.87	3,682.6	932.1	3,789.9	3,783.6	6.32	599.898			
1,700.0	1,682.9	1,189.1	1,187.7	4.7	2.6	-79.01	3,688.3	930.3	3,797.3	3,790.4	6.88	552.249			
1,800.0	1,779.3	1,380.6	1,376.1	5.2	3.3	-79.94	3,720.6	919.9	3,812.1	3,804.3	7.79	489.105			
1,900.0	1,875.2	1,380.6	1,376.1	5.8	3.3	-79.87	3,720.6	919.9	3,818.8	3,810.5	8.32	459.161			
2,000.0	1,970.5	1,380.6	1,376.1	6.3	3.3	-79.78	3,720.6	919.9	3,827.8	3,818.9	8.87	431.519			
2,022.8	1,992.2	1,380.6	1,376.1	6.4	3.3	-79.76	3,720.6	919.9	3,830.2	3,821.2	9.00	425.643			
2,100.0	2,065.5	1,380.6	1,376.1	6.9	3.3	-79.76	3,720.6	919.9	3,839.2	3,829.8	9.44	406.884			
2,200.0	2,160.5	1,423.6	1,418.2	7.5	3.4	-80.02	3,729.2	917.2	3,852.9	3,842.8	10.11	381.137			
2,300.0	2,255.5	1,514.3	1,506.8	8.0	3.8	-80.56	3,747.3	911.3	3,867.3	3,856.4	10.90	354.795			
2,400.0	2,350.5	1,604.9	1,595.5	8.6	4.2	-81.11	3,765.4	905.5	3,882.1	3,870.4	11.69	332.022			
2,500.0	2,445.5	1,695.6	1,684.1	9.2	4.5	-81.64	3,783.5	899.7	3,897.3	3,884.8	12.48	312.164			
2,600.0	2,540.4	1,786.3	1,772.8	9.8	4.9	-82.18	3,801.6	893.9	3,912.9	3,899.6	13.28	294.713			
2,700.0	2,635.4	1,877.0	1,861.4	10.4	5.3	-82.71	3,819.7	888.1	3,928.9	3,914.8	14.07	279.271			
2,800.0	2,730.4	1,967.6	1,950.1	11.0	5.6	-83.24	3,837.9	882.3	3,945.3	3,930.4	14.86	265.522			
2,900.0	2,825.4	2,058.3	2,038.7	11.6	6.0	-83.76	3,856.0	876.5	3,962.1	3,946.4	15.65	253.211			
3,000.0	2,920.4	2,149.0	2,127.4	12.2	6.3	-84.28	3,874.1	870.6	3,979.2	3,962.8	16.43	242.130			
3,100.0	3,015.4	2,239.6	2,216.0	12.8	6.7	-84.79	3,892.2	864.8	3,996.7	3,979.5	17.22	232.111			
3,200.0	3,110.3	2,330.3	2,304.7	13.3	7.1	-85.31	3,910.3	859.0	4,014.6	3,996.6	18.00	223.014			
3,300.0	3,205.3	2,421.0	2,393.3	13.9	7.4	-85.81	3,928.4	853.2	4,032.8	4,014.0	18.78	214.721			
3,400.0	3,300.3	2,511.6	2,482.0	14.5	7.8	-86.32	3,946.5	847.4	4,051.4	4,031.9	19.56	207.134			
3,500.0	3,395.3	2,602.3	2,570.6	15.1	8.2	-86.82	3,964.6	841.6	4,070.4	4,050.0	20.33	200.171			
3,600.0	3,490.3	2,693.0	2,659.3	15.7	8.5	-87.31	3,982.7	835.7	4,089.7	4,068.5	21.11	193.761			
3,700.0	3,585.2	2,783.6	2,747.9	16.3	8.9	-87.81	4,000.9	829.9	4,109.3	4,087.4	21.88	187.843			
3,800.0	3,680.2	2,874.3	2,836.6	16.9	9.3	-88.29	4,019.0	824.1	4,129.3	4,106.6	22.64	182.366			
3,900.0	3,775.2	2,965.0	2,925.2	17.5	9.6	-88.78	4,037.1	818.3	4,149.6	4,126.2	23.41	177.284			
4,000.0	3,870.2	3,055.6	3,013.8	18.1	10.0	-89.26	4,055.2	812.5	4,170.2	4,146.0	24.17	172.558			
4,100.0	3,965.2	3,146.3	3,102.5	18.7	10.4	-89.73	4,073.3	806.7	4,191.2	4,166.2	24.92	168.154			
4,200.0	4,060.2	3,237.0	3,191.1	19.3	10.7	-90.21	4,091.4	800.9	4,212.5	4,186.8	25.68	164.041			
4,300.0	4,155.1	3,327.6	3,279.8	19.9	11.1	-90.67	4,109.5	795.0	4,234.0	4,207.6	26.43	160.194			
4,400.0	4,250.1	3,418.3	3,368.4	20.5	11.5	-91.14	4,127.6	789.2	4,255.9	4,228.8	27.18	156.589			
4,500.0	4,345.1	3,509.0	3,457.1	21.1	11.8	-91.60	4,145.7	783.4	4,278.1	4,250.2	27.92	153.205			
4,600.0	4,440.1	3,599.6	3,545.7	21.7	12.2	-92.05	4,163.8	777.6	4,300.6	4,272.0	28.67	150.024			
4,700.0	4,535.1	3,690.3	3,634.4	22.3	12.5	-92.50	4,182.0	771.8	4,323.4	4,294.0	29.41	147.029			
4,800.0	4,630.1	3,781.0	3,723.0	22.9	12.9	-92.95	4,200.1	766.0	4,346.5	4,316.4	30.14	144.205			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-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)			
4,900.0	4,725.0	3,871.6	3,811.7	23.5	13.3	-93.39	4,218.2	760.2	4,369.9	4,339.0	30.87	141.539	
5,000.0	4,820.0	3,962.3	3,900.3	24.1	13.6	-93.83	4,236.3	754.3	4,393.6	4,362.0	31.60	139.019	
5,100.0	4,915.0	4,053.0	3,989.0	24.6	14.0	-94.26	4,254.4	748.5	4,417.5	4,385.2	32.33	136.634	
5,200.0	5,010.0	4,143.6	4,077.6	25.2	14.4	-94.70	4,272.5	742.7	4,441.7	4,408.6	33.05	134.374	
5,300.0	5,105.0	4,234.3	4,166.3	25.8	14.7	-95.12	4,290.6	736.9	4,466.2	4,432.4	33.78	132.231	
5,400.0	5,199.9	4,325.0	4,254.9	26.4	15.1	-95.54	4,308.7	731.1	4,490.9	4,456.4	34.49	130.196	
5,500.0	5,294.9	4,415.6	4,343.6	27.0	15.5	-95.96	4,326.8	725.3	4,515.9	4,480.7	35.21	128.262	
5,600.0	5,389.9	4,506.3	4,432.2	27.6	15.8	-96.38	4,344.9	719.4	4,541.1	4,505.2	35.92	126.423	
5,700.0	5,484.9	4,597.0	4,520.9	28.2	16.2	-96.79	4,363.1	713.6	4,566.6	4,530.0	36.63	124.671	
5,800.0	5,579.9	4,687.6	4,609.5	28.8	16.6	-97.19	4,381.2	707.8	4,592.3	4,555.0	37.34	123.002	
5,900.0	5,674.9	4,778.3	4,698.2	29.4	16.9	-97.59	4,399.3	702.0	4,618.3	4,580.3	38.04	121.409	
6,000.0	5,769.8	4,869.0	4,786.8	30.0	17.3	-97.99	4,417.4	696.2	4,644.5	4,605.8	38.74	119.889	
6,100.0	5,864.8	4,959.6	4,875.5	30.6	17.7	-98.39	4,435.5	690.4	4,671.0	4,631.6	39.44	118.437	
6,200.0	5,959.8	5,050.3	4,964.1	31.2	18.0	-98.78	4,453.6	684.6	4,697.7	4,657.6	40.13	117.049	
6,300.0	6,054.8	5,141.0	5,052.8	31.8	18.4	-99.16	4,471.7	678.7	4,724.6	4,683.8	40.83	115.721	
6,400.0	6,149.8	5,231.6	5,141.4	32.4	18.8	-99.54	4,489.8	672.9	4,751.7	4,710.2	41.52	114.449	
6,500.0	6,244.7	5,322.3	5,230.1	33.0	19.1	-99.92	4,507.9	667.1	4,779.1	4,736.9	42.21	113.231	
6,600.0	6,339.7	5,413.0	5,318.7	33.6	19.5	-100.30	4,526.0	661.3	4,806.6	4,763.7	42.89	112.063	
6,700.0	6,434.7	5,503.6	5,407.4	34.2	19.9	-100.67	4,544.2	655.5	4,834.4	4,790.8	43.58	110.943	
6,800.0	6,529.7	5,594.3	5,496.0	34.8	20.2	-101.04	4,562.3	649.7	4,862.4	4,818.1	44.26	109.868	
6,900.0	6,624.7	5,685.0	5,584.7	35.4	20.6	-101.40	4,580.4	643.8	4,890.6	4,845.6	44.94	108.835	
7,000.0	6,719.7	5,775.6	5,673.3	36.0	20.9	-101.76	4,598.5	638.0	4,919.0	4,873.4	45.61	107.843	
7,100.0	6,814.6	5,866.3	5,762.0	36.6	21.3	-102.11	4,616.6	632.2	4,947.6	4,901.3	46.29	106.888	
7,200.0	6,909.6	5,957.0	5,850.6	37.2	21.7	-102.47	4,634.7	626.4	4,976.3	4,929.4	46.96	105.970	
7,225.4	6,933.7	5,980.0	5,873.1	37.3	21.8	-102.55	4,639.3	624.9	4,983.7	4,936.5	47.13	105.743	
7,250.0	6,957.1	6,002.4	5,895.1	37.5	21.9	-95.07	4,643.8	623.5	4,990.3	4,943.0	47.28	105.543	
7,300.0	7,004.6	6,048.6	5,940.2	37.8	22.0	-80.24	4,653.0	620.5	5,000.6	4,953.2	47.37	105.560	
7,350.0	7,051.7	6,095.3	5,985.9	38.0	22.2	-67.40	4,662.3	617.5	5,006.7	4,959.5	47.17	106.137	
7,400.0	7,098.0	6,142.2	6,031.8	38.3	22.4	-57.27	4,671.7	614.5	5,008.6	4,961.9	46.69	107.270	
7,450.0	7,143.3	6,188.9	6,077.4	38.5	22.6	-49.64	4,681.0	611.5	5,006.1	4,960.2	45.94	108.967	
7,500.0	7,187.1	6,235.1	6,122.6	38.8	22.8	-43.99	4,690.3	608.6	4,999.4	4,954.5	44.94	111.247	
7,550.0	7,229.2	6,280.4	6,166.9	39.0	23.0	-39.82	4,699.3	605.7	4,988.5	4,944.8	43.71	114.136	
7,600.0	7,269.2	6,324.5	6,209.9	39.2	23.2	-36.75	4,708.1	602.8	4,973.5	4,931.3	42.27	117.665	
7,650.0	7,306.8	6,366.9	6,251.5	39.4	23.3	-34.53	4,716.6	600.1	4,954.5	4,913.9	40.65	121.870	
7,700.0	7,341.7	6,407.5	6,291.2	39.6	23.5	-32.98	4,724.7	597.5	4,931.7	4,892.8	38.90	126.778	
7,750.0	7,373.7	7,484.2	7,357.7	39.8	25.2	-39.35	4,836.2	561.7	4,905.1	4,865.6	39.45	124.346	
7,800.0	7,402.5	7,513.0	7,386.5	39.9	25.3	-39.89	4,836.2	561.7	4,868.2	4,830.3	37.91	128.425	
7,850.0	7,427.9	7,538.4	7,411.9	40.1	25.3	-41.24	4,836.2	561.7	4,828.7	4,792.1	36.51	132.246	
7,900.0	7,449.7	7,560.2	7,433.7	40.2	25.3	-43.57	4,836.2	561.7	4,786.8	4,751.4	35.41	135.182	
7,950.0	7,467.8	7,578.3	7,451.8	40.4	25.3	-47.20	4,836.2	561.7	4,743.0	4,708.2	34.80	136.275	
8,000.0	7,481.9	7,592.4	7,465.9	40.6	25.3	-52.68	4,836.2	561.7	4,697.5	4,662.6	34.98	134.301	
8,050.0	7,492.0	7,602.6	7,476.0	40.7	25.3	-60.91	4,836.2	561.7	4,650.7	4,614.5	36.21	128.421	
8,100.0	7,498.1	7,608.6	7,482.1	40.9	25.4	-73.23	4,836.2	561.7	4,602.9	4,564.5	38.43	119.790	
8,148.1	7,500.0	7,610.5	7,484.0	41.0	25.4	-90.00	4,836.2	561.7	4,556.3	4,516.1	40.21	113.302	
8,200.0	7,500.0	7,610.5	7,484.0	41.2	25.4	-90.00	4,836.2	561.7	4,505.9	4,465.2	40.68	110.760	
8,300.0	7,500.0	7,610.5	7,484.0	41.5	25.4	-90.00	4,836.2	561.7	4,408.8	4,367.1	41.69	105.758	
8,400.0	7,500.0	7,610.5	7,484.0	42.0	25.4	-90.00	4,836.2	561.7	4,311.8	4,269.0	42.81	100.717	
8,500.0	7,500.0	7,610.5	7,484.0	42.5	25.4	-90.00	4,836.2	561.7	4,214.9	4,170.9	44.03	95.726	
8,600.0	7,500.0	7,610.5	7,484.0	43.1	25.4	-90.00	4,836.2	561.7	4,118.2	4,072.9	45.33	90.849	
8,700.0	7,500.0	7,610.5	7,484.0	43.7	25.4	-90.00	4,836.2	561.7	4,021.7	3,975.0	46.70	86.126	
8,800.0	7,500.0	7,610.5	7,484.0	44.4	25.4	-90.00	4,836.2	561.7	3,925.3	3,877.2	48.11	81.584	
8,900.0	7,500.0	7,610.5	7,484.0	45.2	25.4	-90.00	4,836.2	561.7	3,829.1	3,779.6	49.58	77.237	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-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)			
9,000.0	7,500.0	7,610.5	7,484.0	46.0	25.4	-90.00	4,836.2	561.7	3,733.2	3,682.1	51.08	73.090	
9,100.0	7,500.0	7,610.5	7,484.0	46.9	25.4	-90.00	4,836.2	561.7	3,637.4	3,584.8	52.61	69.143	
9,200.0	7,500.0	7,610.5	7,484.0	47.8	25.4	-90.00	4,836.2	561.7	3,541.9	3,487.7	54.16	65.393	
9,300.0	7,500.0	7,610.5	7,484.0	48.8	25.4	-90.00	4,836.2	561.7	3,446.6	3,390.9	55.74	61.831	
9,400.0	7,500.0	7,610.5	7,484.0	49.8	25.4	-90.00	4,836.2	561.7	3,351.6	3,294.3	57.34	58.452	
9,500.0	7,500.0	7,610.5	7,484.0	50.8	25.4	-90.00	4,836.2	561.7	3,256.9	3,198.0	58.95	55.245	
9,600.0	7,500.0	7,610.5	7,484.0	51.9	25.4	-90.00	4,836.2	561.7	3,162.5	3,102.0	60.58	52.203	
9,700.0	7,500.0	7,610.5	7,484.0	53.1	25.4	-90.00	4,836.2	561.7	3,068.5	3,006.3	62.22	49.316	
9,803.1	7,500.0	7,610.5	7,484.0	54.3	25.4	-90.00	4,836.2	561.7	2,972.0	2,908.0	63.92	46.492	
9,900.0	7,500.0	7,610.5	7,484.0	55.4	25.4	-90.00	4,836.2	561.7	2,881.7	2,816.2	65.53	43.974	
10,000.0	7,500.0	7,610.5	7,484.0	56.6	25.4	-90.00	4,836.2	561.7	2,789.0	2,721.8	67.20	41.502	
10,100.0	7,500.0	7,610.5	7,484.0	57.9	25.4	-90.00	4,836.2	561.7	2,696.8	2,627.9	68.88	39.154	
10,200.0	7,500.0	7,610.5	7,484.0	59.2	25.4	-90.00	4,836.2	561.7	2,605.2	2,534.6	70.56	36.922	
10,300.0	7,500.0	7,610.5	7,484.0	60.5	25.4	-90.00	4,836.2	561.7	2,514.2	2,441.9	72.25	34.800	
10,400.0	7,500.0	7,610.5	7,484.0	61.8	25.4	-90.00	4,836.2	561.7	2,423.9	2,350.0	73.94	32.782	
10,500.0	7,500.0	7,610.5	7,484.0	63.1	25.4	-90.00	4,836.2	561.7	2,334.4	2,258.8	75.64	30.863	
10,600.0	7,500.0	7,610.5	7,484.0	64.5	25.4	-90.00	4,836.2	561.7	2,245.8	2,168.5	77.34	29.038	
10,703.1	7,500.0	7,610.5	7,484.0	65.9	25.4	-90.00	4,836.2	561.7	2,155.5	2,076.4	79.10	27.250	
10,800.0	7,500.0	7,610.5	7,484.0	67.3	25.4	-90.00	4,836.2	561.7	2,072.1	1,990.9	81.28	25.495	
10,900.0	7,500.0	7,610.5	7,484.0	68.8	25.4	-90.00	4,836.2	561.7	1,988.4	1,904.8	83.51	23.811	
11,000.0	7,500.0	7,610.5	7,484.0	70.2	25.4	-90.00	4,836.2	561.7	1,907.2	1,821.4	85.72	22.249	
11,100.0	7,500.0	7,610.5	7,484.0	71.7	25.4	-90.00	4,836.2	561.7	1,828.9	1,741.0	87.91	20.804	
11,200.0	7,500.0	7,610.5	7,484.0	73.3	25.4	-90.00	4,836.2	561.7	1,754.1	1,664.0	90.09	19.471	
11,253.1	7,500.0	7,610.5	7,484.0	74.1	25.4	-90.00	4,836.2	561.7	1,715.8	1,624.6	91.23	18.807	
11,300.0	7,500.0	7,610.5	7,484.0	74.8	25.4	-90.00	4,836.2	561.7	1,682.9	1,590.9	92.04	18.286	
11,400.0	7,500.0	7,610.5	7,484.0	76.3	25.4	-90.00	4,836.2	561.7	1,615.0	1,521.3	93.75	17.227	
11,500.0	7,500.0	7,610.5	7,484.0	77.9	25.4	-90.00	4,836.2	561.7	1,550.6	1,455.2	95.47	16.242	
11,600.0	7,500.0	7,610.5	7,484.0	79.5	25.4	-90.00	4,836.2	561.7	1,490.2	1,393.0	97.19	15.333	
11,700.0	7,500.0	7,610.5	7,484.0	81.0	25.4	-90.00	4,836.2	561.7	1,434.1	1,335.2	98.91	14.499	
11,800.0	7,500.0	7,610.5	7,484.0	82.6	25.4	-90.00	4,836.2	561.7	1,383.0	1,282.4	100.63	13.743	
11,900.0	7,500.0	7,610.5	7,484.0	84.2	25.4	-90.00	4,836.2	561.7	1,337.5	1,235.1	102.36	13.067	
12,000.0	7,500.0	7,610.5	7,484.0	85.8	25.4	-90.00	4,836.2	561.7	1,298.1	1,194.0	104.08	12.472	
12,100.0	7,500.0	7,610.5	7,484.0	87.4	25.4	-90.00	4,836.2	561.7	1,265.3	1,159.5	105.81	11.959	
12,200.0	7,500.0	7,610.5	7,484.0	89.0	25.4	-90.00	4,836.2	561.7	1,239.8	1,132.3	107.54	11.529	
12,300.0	7,500.0	7,610.5	7,484.0	90.6	25.4	-90.00	4,836.2	561.7	1,222.0	1,112.7	109.27	11.184	
12,400.0	7,500.0	7,610.5	7,484.0	92.2	25.4	-90.00	4,836.2	561.7	1,212.2	1,101.2	110.99	10.921	
12,469.5	7,500.0	7,610.5	7,484.0	93.3	25.4	-90.00	4,836.2	561.7	1,210.2	1,098.0	112.20	10.786 CC	
12,500.0	7,500.0	7,610.5	7,484.0	93.8	25.4	-90.00	4,836.2	561.7	1,210.6	1,097.9	112.73	10.739 ES	
12,600.0	7,500.0	7,610.5	7,484.0	95.5	25.4	-90.00	4,836.2	561.7	1,217.2	1,102.8	114.46	10.635	
12,700.0	7,500.0	7,610.5	7,484.0	97.1	25.4	-90.00	4,836.2	561.7	1,232.0	1,115.8	116.19	10.603 SF	
12,800.0	7,500.0	7,610.5	7,484.0	98.7	25.4	-90.00	4,836.2	561.7	1,254.5	1,136.6	117.92	10.638	
12,900.0	7,500.0	7,610.5	7,484.0	100.4	25.4	-90.00	4,836.2	561.7	1,284.5	1,164.8	119.66	10.735	
13,000.0	7,500.0	7,610.5	7,484.0	102.0	25.4	-90.00	4,836.2	561.7	1,321.4	1,200.0	121.39	10.885	
13,100.0	7,500.0	7,610.5	7,484.0	103.7	25.4	-90.00	4,836.2	561.7	1,364.6	1,241.5	123.13	11.083	
13,200.0	7,500.0	7,610.5	7,484.0	105.3	25.4	-90.00	4,836.2	561.7	1,413.6	1,288.7	124.86	11.321	
13,300.0	7,500.0	7,610.5	7,484.0	107.0	25.4	-90.00	4,836.2	561.7	1,467.8	1,341.2	126.60	11.594	
13,400.0	7,500.0	7,610.5	7,484.0	108.6	25.4	-90.00	4,836.2	561.7	1,526.6	1,398.2	128.34	11.895	
13,500.0	7,500.0	7,610.5	7,484.0	110.3	25.4	-90.00	4,836.2	561.7	1,589.5	1,459.4	130.08	12.220	
13,600.0	7,500.0	7,610.5	7,484.0	111.9	25.4	-90.00	4,836.2	561.7	1,656.1	1,524.3	131.81	12.564	
13,700.0	7,500.0	7,610.5	7,484.0	113.6	25.4	-90.00	4,836.2	561.7	1,725.9	1,592.4	133.55	12.923	
13,753.1	7,500.0	7,610.5	7,484.0	114.5	25.4	-90.00	4,836.2	561.7	1,764.2	1,629.7	134.48	13.119	
13,800.0	7,500.0	7,610.5	7,484.0	115.3	25.4	-90.00	4,836.2	561.7	1,798.7	1,663.2	135.52	13.273	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL													Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,900.0	7,500.0	7,610.5	7,484.0	117.0	25.4	-90.00	4,836.2	561.7	1,875.1	1,737.4	137.70	13.617		
14,000.0	7,500.0	7,610.5	7,484.0	118.7	25.4	-90.00	4,836.2	561.7	1,954.7	1,814.9	139.85	13.978		
14,100.0	7,500.0	7,610.5	7,484.0	120.4	25.4	-90.00	4,836.2	561.7	2,037.2	1,895.3	141.95	14.352		
14,200.0	7,500.0	7,610.5	7,484.0	122.1	25.4	-90.00	4,836.2	561.7	2,122.3	1,978.3	144.00	14.738		
14,300.0	7,500.0	7,610.5	7,484.0	123.8	25.4	-90.00	4,836.2	561.7	2,209.5	2,063.5	146.01	15.132		
14,400.0	7,500.0	7,610.5	7,484.0	125.6	25.4	-90.00	4,836.2	561.7	2,298.6	2,150.6	147.98	15.534		
14,500.0	7,500.0	7,610.5	7,484.0	127.3	25.4	-90.00	4,836.2	561.7	2,389.4	2,239.5	149.89	15.940		
14,600.0	7,500.0	7,610.5	7,484.0	129.1	25.4	-90.00	4,836.2	561.7	2,481.6	2,329.8	151.77	16.352		
14,683.9	7,500.0	7,610.5	7,484.0	130.5	25.4	-90.00	4,836.2	561.7	2,559.9	2,406.6	153.30	16.699		
14,700.0	7,500.0	7,610.5	7,484.0	130.8	25.4	-90.00	4,836.2	561.7	2,575.1	2,421.5	153.58	16.767		
14,756.3	7,500.0	7,610.5	7,484.0	131.8	25.4	-90.00	4,836.2	561.7	2,628.0	2,473.5	154.58	17.002		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 76-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	14.03	3,612.5	903.0	3,723.7						
100.0	100.0	652.9	649.7	0.2	1.5	14.52	3,559.8	921.9	3,720.5	3,718.9	1.59	2,340.374			
200.0	200.0	782.4	777.6	0.3	1.9	14.55	3,539.5	918.7	3,704.7	3,702.5	2.17	1,704.170			
300.0	300.0	1,193.0	1,179.8	0.5	3.5	-77.53	3,461.1	897.0	3,685.8	3,683.2	2.62	1,404.459			
400.0	400.0	1,282.3	1,266.4	0.7	3.9	-77.81	3,440.0	891.9	3,660.9	3,658.0	2.95	1,241.691			
500.0	499.9	1,415.8	1,395.8	0.9	4.5	-78.17	3,408.3	883.3	3,635.4	3,632.0	3.35	1,084.741			
600.0	599.7	1,520.1	1,496.8	1.1	4.9	-78.57	3,383.3	875.2	3,609.0	3,605.3	3.71	971.953			
700.0	699.4	1,810.0	1,774.4	1.3	6.5	-79.34	3,304.0	850.4	3,577.4	3,573.0	4.40	812.929			
800.0	798.9	1,896.0	1,856.3	1.5	6.9	-79.82	3,278.6	843.7	3,545.1	3,540.3	4.77	742.679			
900.0	898.3	1,935.1	1,893.6	1.8	7.1	-80.23	3,267.4	840.9	3,513.5	3,508.4	5.09	690.565			
1,000.0	997.4	1,982.0	1,938.7	2.0	7.4	-80.66	3,254.8	837.4	3,483.2	3,477.7	5.44	640.414			
1,100.0	1,096.3	2,052.0	2,006.1	2.3	7.7	-81.18	3,236.9	831.4	3,453.6	3,447.8	5.86	589.615			
1,200.0	1,194.9	2,215.2	2,162.6	2.7	8.6	-82.06	3,193.2	816.8	3,422.6	3,416.2	6.47	528.816			
1,300.0	1,293.3	2,369.9	2,310.4	3.0	9.4	-82.99	3,149.5	802.8	3,390.3	3,383.2	7.12	476.308			
1,400.0	1,391.2	2,464.2	2,400.0	3.4	10.0	-83.76	3,122.1	793.1	3,356.8	3,349.1	7.69	436.366			
1,500.0	1,488.9	2,532.5	2,465.1	3.8	10.3	-84.43	3,102.4	786.3	3,323.7	3,315.5	8.25	402.732			
1,600.0	1,586.1	2,674.4	2,600.4	4.3	11.1	-85.50	3,061.4	773.9	3,291.1	3,282.1	9.00	365.564			
1,700.0	1,682.9	2,826.3	2,744.2	4.7	12.0	-86.68	3,014.0	761.3	3,256.1	3,246.2	9.83	331.167			
1,800.0	1,779.3	2,884.4	2,799.0	5.2	12.4	-87.40	2,995.7	755.7	3,220.8	3,210.3	10.50	306.774			
1,900.0	1,875.2	2,940.1	2,851.8	5.8	12.7	-88.13	2,978.8	750.3	3,186.7	3,175.5	11.20	284.609			
2,000.0	1,970.5	3,011.9	2,920.1	6.3	13.1	-88.96	2,957.3	744.4	3,153.6	3,141.6	11.97	263.464			
2,022.8	1,992.2	3,032.1	2,939.3	6.4	13.2	-89.17	2,951.3	742.8	3,146.2	3,134.0	12.16	258.671			
2,100.0	2,065.5	3,100.8	3,004.6	6.9	13.6	-89.67	2,931.0	736.4	3,121.0	3,108.2	12.80	243.772			
2,200.0	2,160.5	3,195.7	3,094.7	7.5	14.1	-90.39	2,903.0	726.4	3,088.7	3,075.0	13.67	225.974			
2,300.0	2,255.5	3,271.3	3,166.6	8.0	14.6	-90.96	2,880.7	718.9	3,056.9	3,042.5	14.48	211.136			
2,400.0	2,350.5	3,382.5	3,271.9	8.6	15.2	-91.84	2,847.5	706.7	3,025.0	3,009.5	15.43	195.983			
2,500.0	2,445.5	3,443.5	3,329.9	9.2	15.6	-92.34	2,829.5	700.1	2,994.0	2,977.8	16.23	184.506			
2,600.0	2,540.4	3,544.6	3,425.9	9.8	16.1	-93.16	2,799.6	689.0	2,963.4	2,946.3	17.18	172.541			
2,700.0	2,635.4	3,608.0	3,486.1	10.4	16.5	-93.69	2,781.3	682.0	2,933.8	2,915.8	18.00	163.027			
2,800.0	2,730.4	3,671.3	3,546.4	11.0	16.8	-94.23	2,763.4	675.0	2,905.5	2,886.6	18.82	154.351			
2,900.0	2,825.4	3,767.5	3,638.2	11.6	17.4	-95.05	2,736.5	664.6	2,877.9	2,858.1	19.78	145.482			
3,000.0	2,920.4	3,889.2	3,754.0	12.2	18.1	-96.07	2,700.9	653.3	2,849.8	2,829.0	20.82	136.870			
3,100.0	3,015.4	3,950.0	3,812.0	12.8	18.4	-96.58	2,683.2	648.6	2,822.5	2,800.8	21.63	130.481			
3,200.0	3,110.3	4,013.3	3,872.6	13.3	18.7	-97.10	2,665.4	644.2	2,796.4	2,774.0	22.45	124.587			
3,300.0	3,205.3	4,112.0	3,967.1	13.9	19.3	-97.92	2,638.0	637.3	2,771.4	2,748.0	23.41	118.406			
3,400.0	3,300.3	4,197.9	4,049.3	14.5	19.7	-98.66	2,613.8	630.5	2,746.5	2,722.2	24.34	112.850			
3,500.0	3,395.3	4,345.0	4,189.0	15.1	20.6	-100.00	2,569.8	616.9	2,720.0	2,694.4	25.56	106.397			
3,600.0	3,490.3	4,399.4	4,240.8	15.7	20.9	-100.50	2,553.7	612.1	2,695.0	2,668.6	26.38	102.142			
3,700.0	3,585.2	4,464.0	4,302.4	16.3	21.2	-101.09	2,535.4	606.6	2,671.7	2,644.5	27.25	98.051			
3,800.0	3,680.2	4,532.9	4,368.5	16.9	21.6	-101.72	2,516.5	601.1	2,649.7	2,621.6	28.13	94.211			
3,900.0	3,775.2	4,659.6	4,489.7	17.5	22.3	-102.88	2,481.1	591.8	2,627.9	2,598.7	29.24	89.861			
4,000.0	3,870.2	4,742.3	4,569.0	18.1	22.7	-103.61	2,457.6	587.8	2,606.2	2,576.0	30.15	86.451			
4,100.0	3,965.2	4,806.0	4,630.1	18.7	23.0	-104.17	2,439.9	585.3	2,585.5	2,554.5	30.97	83.481			
4,200.0	4,060.2	4,867.2	4,689.0	19.3	23.3	-104.71	2,423.6	582.8	2,566.3	2,534.5	31.79	80.726			
4,300.0	4,155.1	4,919.8	4,739.9	19.9	23.6	-105.18	2,410.2	580.4	2,549.0	2,516.5	32.57	78.255			
4,400.0	4,250.1	4,978.0	4,796.3	20.5	23.8	-105.69	2,396.4	577.8	2,533.8	2,500.4	33.37	75.924			
4,500.0	4,345.1	5,041.4	4,858.1	21.1	24.1	-106.25	2,382.2	575.5	2,520.2	2,486.0	34.18	73.736			
4,600.0	4,440.1	5,109.6	4,924.6	21.7	24.4	-106.84	2,367.5	573.3	2,507.9	2,472.9	35.00	71.662			
4,700.0	4,535.1	5,176.3	4,989.9	22.3	24.6	-107.41	2,353.8	571.3	2,497.1	2,461.3	35.80	69.743			
4,800.0	4,630.1	5,234.0	5,046.4	22.9	24.8	-107.91	2,342.5	569.5	2,487.8	2,451.2	36.58	68.015			
4,900.0	4,725.0	5,302.9	5,114.1	23.5	25.1	-108.50	2,329.9	567.6	2,480.1	2,442.8	37.37	66.362			
5,000.0	4,820.0	5,359.1	5,169.5	24.1	25.2	-108.97	2,320.5	566.4	2,474.3	2,436.2	38.11	64.917			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,915.0	5,406.0	5,215.9	24.6	25.4	-109.35	2,313.4	565.6	2,470.4	2,431.6	38.82	63.636	
5,200.0	5,010.0	5,464.4	5,273.8	25.2	25.5	-109.82	2,305.7	564.7	2,468.6	2,429.1	39.55	62.414	
5,241.4	5,049.3	5,491.0	5,300.2	25.5	25.6	-110.04	2,302.5	564.3	2,468.5	2,428.6	39.86	61.929	
5,300.0	5,105.0	5,518.4	5,327.4	25.8	25.6	-110.25	2,299.5	563.9	2,468.9	2,428.6	40.26	61.320	
5,400.0	5,199.9	5,577.0	5,385.7	26.4	25.8	-110.71	2,293.8	563.0	2,471.0	2,430.1	40.98	60.304	
5,500.0	5,294.9	5,630.0	5,438.5	27.0	25.9	-111.12	2,289.4	562.2	2,475.1	2,433.4	41.67	59.397	
5,600.0	5,389.9	5,687.7	5,496.1	27.6	26.0	-111.56	2,285.6	561.1	2,481.1	2,438.8	42.37	58.557	
5,700.0	5,484.9	5,748.0	5,556.3	28.2	26.0	-112.02	2,282.4	559.8	2,488.8	2,445.8	43.07	57.784	
5,800.0	5,579.9	5,816.6	5,624.8	28.8	26.1	-112.53	2,279.5	558.2	2,498.1	2,454.3	43.78	57.066	
5,900.0	5,674.9	5,882.9	5,691.0	29.4	26.2	-113.01	2,277.6	556.7	2,508.8	2,464.3	44.47	56.419	
6,000.0	5,769.8	5,953.0	5,761.1	30.0	26.2	-113.52	2,276.4	555.1	2,520.9	2,475.8	45.16	55.821	
6,100.0	5,864.8	6,027.5	5,835.6	30.6	26.3	-114.05	2,275.7	553.2	2,534.2	2,488.4	45.86	55.265	
6,200.0	5,959.8	6,108.8	5,916.8	31.2	26.4	-114.63	2,275.5	550.9	2,548.6	2,502.0	46.55	54.744	
6,300.0	6,054.8	6,226.4	6,034.4	31.8	26.5	-115.44	2,275.0	548.1	2,563.0	2,515.7	47.30	54.188	
6,400.0	6,149.8	6,327.2	6,135.2	32.4	26.6	-116.12	2,274.2	546.4	2,577.2	2,529.2	47.99	53.702	
6,500.0	6,244.7	6,420.8	6,228.8	33.0	26.6	-116.73	2,273.6	545.4	2,591.6	2,543.0	48.65	53.266	
6,600.0	6,339.7	6,504.6	6,312.6	33.6	26.7	-117.27	2,273.5	544.7	2,606.6	2,557.3	49.30	52.876	
6,700.0	6,434.7	6,586.8	6,394.8	34.2	26.8	-117.79	2,273.7	543.9	2,622.4	2,572.4	49.93	52.522	
6,800.0	6,529.7	6,677.4	6,485.4	34.8	26.8	-118.35	2,274.2	542.9	2,638.7	2,588.2	50.57	52.184	
6,900.0	6,624.7	6,770.1	6,578.1	35.4	26.9	-118.93	2,274.7	541.6	2,655.5	2,604.3	51.20	51.868	
7,000.0	6,719.7	6,852.4	6,660.3	36.0	27.0	-119.44	2,275.2	540.3	2,672.7	2,620.9	51.81	51.587	
7,100.0	6,814.6	6,933.9	6,741.9	36.6	27.0	-119.94	2,276.1	538.8	2,690.7	2,638.3	52.41	51.336	
7,200.0	6,909.6	7,015.5	6,823.4	37.2	27.1	-120.44	2,277.3	537.1	2,709.5	2,656.5	53.01	51.113	
7,225.4	6,933.7	7,036.2	6,844.1	37.3	27.1	-120.56	2,277.7	536.6	2,714.3	2,661.2	53.16	51.061	
7,250.0	6,957.1	7,056.3	6,864.2	37.5	27.1	-113.01	2,278.1	536.1	2,718.6	2,665.1	53.52	50.798	
7,300.0	7,004.6	7,097.1	6,904.9	37.8	27.1	-98.14	2,278.9	535.2	2,724.6	2,670.5	54.03	50.426	
7,350.0	7,051.7	7,150.5	6,958.4	38.0	27.1	-85.48	2,280.0	533.9	2,726.6	2,672.4	54.26	50.248	
7,400.0	7,098.0	7,216.4	7,024.2	38.3	27.2	-75.81	2,280.8	531.9	2,724.6	2,670.3	54.22	50.248	
7,450.0	7,143.3	7,280.1	7,087.9	38.5	27.3	-68.81	2,280.7	529.7	2,718.4	2,664.5	53.89	50.441	
7,500.0	7,187.1	7,331.7	7,139.4	38.8	27.3	-63.86	2,280.3	527.9	2,708.3	2,655.0	53.28	50.833	
7,550.0	7,229.2	7,379.6	7,187.3	39.0	27.4	-60.55	2,279.9	526.2	2,694.4	2,642.0	52.41	51.408	
7,600.0	7,269.2	7,425.1	7,232.8	39.2	27.4	-58.53	2,279.4	524.8	2,677.1	2,625.7	51.33	52.154	
7,650.0	7,306.8	7,466.5	7,274.2	39.4	27.5	-57.53	2,278.9	523.5	2,656.4	2,606.3	50.07	53.057	
7,700.0	7,341.7	7,499.8	7,307.4	39.6	27.5	-57.34	2,278.5	522.6	2,632.6	2,583.9	48.66	54.098	
7,750.0	7,373.7	7,530.4	7,338.1	39.8	27.6	-57.94	2,278.3	521.9	2,605.9	2,558.7	47.19	55.222	
7,800.0	7,402.5	7,558.1	7,365.8	39.9	27.6	-59.27	2,278.1	521.3	2,576.6	2,530.9	45.72	56.359	
7,850.0	7,427.9	7,582.7	7,390.3	40.1	27.6	-61.34	2,278.0	520.8	2,544.9	2,500.5	44.33	57.403	
7,900.0	7,449.7	7,603.9	7,411.5	40.2	27.6	-64.14	2,277.9	520.4	2,511.0	2,467.9	43.13	58.213	
7,950.0	7,467.8	7,621.6	7,429.2	40.4	27.6	-67.70	2,277.9	520.1	2,475.3	2,433.0	42.21	58.637	
8,000.0	7,481.9	7,635.6	7,443.2	40.6	27.7	-72.02	2,277.9	519.8	2,437.9	2,396.3	41.63	58.562	
8,050.0	7,492.0	7,645.8	7,453.4	40.7	27.7	-77.11	2,277.8	519.7	2,399.3	2,357.9	41.37	57.989	
8,100.0	7,498.1	7,652.0	7,459.6	40.9	27.7	-82.91	2,277.9	519.6	2,359.6	2,318.2	41.35	57.062	
8,148.1	7,500.0	7,654.0	7,461.6	41.0	27.7	-89.05	2,277.9	519.6	2,320.7	2,279.2	41.42	56.028	
8,200.0	7,500.0	7,654.1	7,461.7	41.2	27.7	-89.05	2,277.9	519.6	2,278.7	2,236.8	41.89	54.399	
8,300.0	7,500.0	7,654.3	7,461.9	41.5	27.7	-89.06	2,277.9	519.6	2,198.9	2,156.0	42.90	51.260	
8,400.0	7,500.0	7,654.5	7,462.1	42.0	27.7	-89.07	2,277.9	519.6	2,120.8	2,076.8	44.02	48.175	
8,500.0	7,500.0	7,654.6	7,462.3	42.5	27.7	-89.08	2,277.9	519.6	2,044.6	1,999.4	45.24	45.190	
8,600.0	7,500.0	7,654.8	7,462.4	43.1	27.7	-89.08	2,277.9	519.6	1,970.6	1,924.0	46.55	42.336	
8,700.0	7,500.0	7,655.0	7,462.6	43.7	27.7	-89.09	2,277.9	519.6	1,898.9	1,851.0	47.91	39.633	
8,800.0	7,500.0	7,655.2	7,462.8	44.4	27.7	-89.10	2,277.9	519.6	1,829.9	1,780.6	49.33	37.093	
8,900.0	7,500.0	7,655.4	7,463.0	45.2	27.7	-89.11	2,277.9	519.5	1,763.9	1,713.1	50.80	34.724	
9,000.0	7,500.0	7,655.6	7,463.2	46.0	27.7	-89.12	2,277.9	519.5	1,701.2	1,648.9	52.30	32.529	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-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)			
9,100.0	7,500.0	7,655.7	7,463.4	46.9	27.7	-89.12	2,277.9	519.5	1,642.2	1,588.3	53.83	30.507	
9,200.0	7,500.0	7,655.9	7,463.6	47.8	27.7	-89.13	2,277.9	519.5	1,587.3	1,531.9	55.39	28.657	
9,300.0	7,500.0	7,656.1	7,463.7	48.8	27.7	-89.14	2,277.9	519.5	1,536.9	1,480.0	56.97	26.979	
9,400.0	7,500.0	7,656.3	7,463.9	49.8	27.7	-89.15	2,277.9	519.5	1,491.6	1,433.0	58.57	25.468	
9,500.0	7,500.0	7,656.5	7,464.1	50.8	27.7	-89.16	2,277.9	519.5	1,451.7	1,391.6	60.18	24.123	
9,600.0	7,500.0	7,656.7	7,464.3	51.9	27.7	-89.16	2,277.9	519.5	1,417.8	1,356.0	61.81	22.939	
9,700.0	7,500.0	7,656.9	7,464.5	53.1	27.7	-89.17	2,277.9	519.5	1,390.3	1,326.9	63.45	21.912	
9,803.1	7,500.0	7,657.1	7,464.7	54.3	27.7	-89.18	2,277.9	519.5	1,369.0	1,303.9	65.15	21.012	
9,900.0	7,500.0	7,657.3	7,464.9	55.4	27.7	-89.19	2,277.9	519.5	1,355.9	1,289.1	66.76	20.309	
10,000.0	7,500.0	7,657.5	7,465.1	56.6	27.7	-89.20	2,277.9	519.5	1,349.5	1,281.0	68.43	19.720	
10,036.5	7,500.0	7,657.6	7,465.2	57.1	27.7	-89.20	2,277.9	519.5	1,349.0	1,279.9	69.04	19.538 CC, ES	
10,100.0	7,500.0	7,657.7	7,465.3	57.9	27.7	-89.21	2,277.9	519.5	1,350.5	1,280.4	70.11	19.263	
10,200.0	7,500.0	7,657.9	7,465.5	59.2	27.7	-89.22	2,277.9	519.5	1,358.9	1,287.1	71.79	18.928	
10,300.0	7,500.0	7,658.1	7,465.8	60.5	27.7	-89.23	2,277.9	519.5	1,374.5	1,301.0	73.48	18.706	
10,400.0	7,500.0	7,658.3	7,466.0	61.8	27.7	-89.23	2,277.9	519.5	1,397.1	1,321.9	75.17	18.585	
10,500.0	7,500.0	7,658.6	7,466.2	63.1	27.7	-89.24	2,277.9	519.5	1,426.4	1,349.5	76.87	18.556 SF	
10,600.0	7,500.0	7,658.8	7,466.4	64.5	27.7	-89.25	2,277.9	519.5	1,462.0	1,383.4	78.57	18.606	
10,703.1	7,500.0	7,659.0	7,466.6	65.9	27.7	-89.26	2,277.9	519.5	1,504.7	1,424.4	80.33	18.731	
10,800.0	7,500.0	7,659.2	7,466.8	67.3	27.7	-89.26	2,277.9	519.5	1,550.8	1,468.1	82.71	18.750	
10,900.0	7,500.0	7,659.4	7,467.0	68.8	27.7	-89.26	2,277.9	519.5	1,604.5	1,519.4	85.14	18.846	
11,000.0	7,500.0	7,659.5	7,467.1	70.2	27.7	-89.26	2,277.9	519.5	1,663.9	1,576.4	87.56	19.004	
11,100.0	7,500.0	7,659.7	7,467.3	71.7	27.7	-89.25	2,277.9	519.5	1,728.4	1,638.5	89.95	19.215	
11,200.0	7,500.0	7,659.8	7,467.4	73.3	27.7	-89.25	2,277.9	519.5	1,797.4	1,705.1	92.32	19.468	
11,253.1	7,500.0	7,659.8	7,467.4	74.1	27.7	-89.24	2,277.9	519.5	1,835.7	1,742.1	93.58	19.617	
11,300.0	7,500.0	7,659.8	7,467.5	74.8	27.7	-89.24	2,277.9	519.5	1,870.3	1,775.9	94.38	19.816	
11,400.0	7,500.0	7,659.9	7,467.5	76.3	27.7	-89.25	2,277.9	519.5	1,945.7	1,849.6	96.10	20.247	
11,500.0	7,500.0	7,660.0	7,467.6	77.9	27.7	-89.25	2,277.9	519.5	2,023.2	1,925.4	97.81	20.684	
11,600.0	7,500.0	7,660.0	7,467.7	79.5	27.7	-89.25	2,277.9	519.5	2,102.7	2,003.1	99.53	21.125	
11,700.0	7,500.0	7,660.1	7,467.7	81.0	27.7	-89.26	2,277.9	519.5	2,183.8	2,082.5	101.26	21.567	
11,800.0	7,500.0	7,660.2	7,467.8	82.6	27.7	-89.26	2,277.9	519.5	2,266.4	2,163.5	102.98	22.009	
11,900.0	7,500.0	7,660.3	7,467.9	84.2	27.7	-89.26	2,277.9	519.5	2,350.4	2,245.7	104.70	22.449	
12,000.0	7,500.0	7,660.4	7,468.0	85.8	27.7	-89.27	2,277.9	519.5	2,435.6	2,329.2	106.43	22.885	
12,100.0	7,500.0	7,660.4	7,468.1	87.4	27.7	-89.27	2,277.9	519.5	2,521.9	2,413.8	108.15	23.318	
12,200.0	7,500.0	7,660.5	7,468.1	89.0	27.7	-89.27	2,277.9	519.5	2,609.2	2,499.3	109.88	23.745	
12,300.0	7,500.0	7,660.6	7,468.2	90.6	27.7	-89.28	2,277.9	519.5	2,697.3	2,585.7	111.61	24.167	
12,400.0	7,500.0	7,660.7	7,468.3	92.2	27.7	-89.28	2,277.9	519.5	2,786.3	2,673.0	113.34	24.583	
12,500.0	7,500.0	7,660.8	7,468.4	93.8	27.7	-89.29	2,277.9	519.5	2,876.0	2,760.9	115.07	24.993	
12,600.0	7,500.0	7,660.8	7,468.5	95.5	27.7	-89.29	2,277.9	519.5	2,966.3	2,849.5	116.80	25.396	
12,700.0	7,500.0	7,660.9	7,468.5	97.1	27.7	-89.29	2,277.9	519.5	3,057.3	2,938.7	118.54	25.792	
12,800.0	7,500.0	7,661.0	7,468.6	98.7	27.7	-89.30	2,277.9	519.5	3,148.7	3,028.5	120.27	26.181	
12,900.0	7,500.0	7,661.1	7,468.7	100.4	27.7	-89.30	2,277.9	519.5	3,240.7	3,118.7	122.00	26.562	
13,000.0	7,500.0	7,661.2	7,468.8	102.0	27.7	-89.31	2,277.9	519.5	3,333.2	3,209.4	123.74	26.937	
13,100.0	7,500.0	7,661.3	7,468.9	103.7	27.7	-89.31	2,277.9	519.5	3,426.1	3,300.6	125.47	27.305	
13,200.0	7,500.0	7,661.4	7,469.0	105.3	27.7	-89.31	2,277.9	519.5	3,519.3	3,392.1	127.21	27.665	
13,300.0	7,500.0	7,661.5	7,469.1	107.0	27.7	-89.32	2,277.9	519.5	3,613.0	3,484.0	128.95	28.019	
13,400.0	7,500.0	7,661.5	7,469.2	108.6	27.7	-89.32	2,277.9	519.5	3,706.9	3,576.2	130.69	28.365	
13,500.0	7,500.0	7,661.6	7,469.3	110.3	27.7	-89.33	2,277.9	519.5	3,801.2	3,668.8	132.42	28.705	
13,600.0	7,500.0	7,661.7	7,469.4	111.9	27.7	-89.33	2,277.9	519.5	3,895.7	3,761.6	134.16	29.038	
13,700.0	7,500.0	7,661.8	7,469.4	113.6	27.7	-89.33	2,277.9	519.5	3,990.6	3,854.7	135.90	29.364	
13,753.1	7,500.0	7,661.9	7,469.5	114.5	27.7	-89.34	2,277.9	519.5	4,041.1	3,904.2	136.83	29.534	
13,800.0	7,500.0	7,661.9	7,469.5	115.3	27.7	-89.32	2,277.9	519.5	4,085.7	3,947.7	137.97	29.614	
13,900.0	7,500.0	7,662.0	7,469.6	117.0	27.7	-89.28	2,277.9	519.5	4,181.5	4,041.2	140.37	29.790	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program:													76-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (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						
14,000.0	7,500.0	7,662.0	7,469.6	118.7	27.7	-89.23	2,277.9	519.5	4,278.1	4,135.3	142.73	29.974						
14,100.0	7,500.0	7,662.0	7,469.6	120.4	27.7	-89.16	2,277.9	519.5	4,375.2	4,230.2	145.04	30.166						
14,200.0	7,500.0	7,662.0	7,469.6	122.1	27.7	-89.08	2,277.9	519.5	4,472.9	4,325.6	147.31	30.365						
14,300.0	7,500.0	7,661.9	7,469.5	123.8	27.7	-88.98	2,277.9	519.5	4,571.1	4,421.6	149.52	30.571						
14,400.0	7,500.0	7,661.8	7,469.4	125.6	27.7	-88.85	2,277.9	519.5	4,669.7	4,518.0	151.69	30.784						
14,500.0	7,500.0	7,661.6	7,469.2	127.3	27.7	-88.67	2,277.9	519.5	4,768.6	4,614.8	153.81	31.004						
14,600.0	7,500.0	7,661.4	7,469.0	129.1	27.7	-88.43	2,277.9	519.5	4,867.9	4,712.0	155.87	31.231						
14,683.9	7,500.0	7,661.2	7,468.8	130.5	27.7	-88.15	2,277.9	519.5	4,951.3	4,793.7	157.55	31.427						
14,700.0	7,500.0	7,661.2	7,468.8	130.8	27.7	-88.14	2,277.9	519.5	4,967.3	4,809.5	157.83	31.473						
14,756.3	7,500.0	7,661.0	7,468.6	131.8	27.7	-88.12	2,277.9	519.5	5,023.4	4,864.5	158.82	31.629						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV												Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.0	7,500.0	7,453.0	7,453.0	45.2	13.0	-90.00	6,294.0	651.4	5,188.7	5,151.1	37.65	137.809	
9,000.0	7,500.0	7,453.0	7,453.0	46.0	13.0	-90.00	6,294.0	651.4	5,090.0	5,050.9	39.15	130.010	
9,100.0	7,500.0	7,453.0	7,453.0	46.9	13.0	-90.00	6,294.0	651.4	4,991.4	4,950.7	40.68	122.694	
9,200.0	7,500.0	7,453.0	7,453.0	47.8	13.0	-90.00	6,294.0	651.4	4,892.8	4,850.6	42.24	115.838	
9,300.0	7,500.0	7,453.0	7,453.0	48.8	13.0	-90.00	6,294.0	651.4	4,794.3	4,750.5	43.82	109.416	
9,400.0	7,500.0	7,453.0	7,453.0	49.8	13.0	-90.00	6,294.0	651.4	4,695.9	4,650.5	45.41	103.399	
9,500.0	7,500.0	7,453.0	7,453.0	50.8	13.0	-90.00	6,294.0	651.4	4,597.5	4,550.5	47.03	97.759	
9,600.0	7,500.0	7,453.0	7,453.0	51.9	13.0	-90.00	6,294.0	651.4	4,499.2	4,450.5	48.66	92.468	
9,700.0	7,500.0	7,453.0	7,453.0	53.1	13.0	-90.00	6,294.0	651.4	4,400.9	4,350.7	50.30	87.499	
9,803.1	7,500.0	7,453.0	7,453.0	54.3	13.0	-90.00	6,294.0	651.4	4,299.7	4,247.7	52.00	82.687	
9,900.0	7,500.0	7,453.0	7,453.0	55.4	13.0	-90.00	6,294.0	651.4	4,204.7	4,151.1	53.61	78.435	
10,000.0	7,500.0	7,453.0	7,453.0	56.6	13.0	-90.00	6,294.0	651.4	4,106.8	4,051.5	55.28	74.295	
10,100.0	7,500.0	7,453.0	7,453.0	57.9	13.0	-90.00	6,294.0	651.4	4,008.9	3,951.9	56.95	70.391	
10,200.0	7,500.0	7,453.0	7,453.0	59.2	13.0	-90.00	6,294.0	651.4	3,911.1	3,852.5	58.63	66.704	
10,300.0	7,500.0	7,453.0	7,453.0	60.5	13.0	-90.00	6,294.0	651.4	3,813.5	3,753.2	60.32	63.218	
10,400.0	7,500.0	7,453.0	7,453.0	61.8	13.0	-90.00	6,294.0	651.4	3,716.0	3,653.9	62.02	59.920	
10,500.0	7,500.0	7,453.0	7,453.0	63.1	13.0	-90.00	6,294.0	651.4	3,618.6	3,554.9	63.71	56.794	
10,600.0	7,500.0	7,453.0	7,453.0	64.5	13.0	-90.00	6,294.0	651.4	3,521.3	3,455.9	65.42	53.830	
10,703.1	7,500.0	7,453.0	7,453.0	65.9	13.0	-90.00	6,294.0	651.4	3,421.2	3,354.0	67.18	50.929	
10,800.0	7,500.0	7,453.0	7,453.0	67.3	13.0	-90.00	6,294.0	651.4	3,327.5	3,258.1	69.42	47.934	
10,900.0	7,500.0	7,453.0	7,453.0	68.8	13.0	-90.00	6,294.0	651.4	3,231.5	3,159.8	71.73	45.054	
11,000.0	7,500.0	7,453.0	7,453.0	70.2	13.0	-90.00	6,294.0	651.4	3,136.3	3,062.3	74.02	42.371	
11,100.0	7,500.0	7,453.0	7,453.0	71.7	13.0	-90.00	6,294.0	651.4	3,041.9	2,965.6	76.30	39.867	
11,200.0	7,500.0	7,453.0	7,453.0	73.3	13.0	-90.00	6,294.0	651.4	2,948.5	2,870.0	78.57	37.530	
11,253.1	7,500.0	7,453.0	7,453.0	74.1	13.0	-90.00	6,294.0	651.4	2,899.3	2,819.6	79.76	36.350	
11,300.0	7,500.0	7,453.0	7,453.0	74.8	13.0	-90.00	6,294.0	651.4	2,856.2	2,775.6	80.57	35.452	
11,400.0	7,500.0	7,453.0	7,453.0	76.3	13.0	-90.00	6,294.0	651.4	2,764.5	2,682.2	82.28	33.598	
11,500.0	7,500.0	7,453.0	7,453.0	77.9	13.0	-90.00	6,294.0	651.4	2,673.4	2,589.4	84.00	31.826	
11,600.0	7,500.0	7,453.0	7,453.0	79.5	13.0	-90.00	6,294.0	651.4	2,582.9	2,497.2	85.72	30.132	
11,700.0	7,500.0	7,453.0	7,453.0	81.0	13.0	-90.00	6,294.0	651.4	2,493.2	2,405.8	87.44	28.513	
11,800.0	7,500.0	7,453.0	7,453.0	82.6	13.0	-90.00	6,294.0	651.4	2,404.3	2,315.1	89.16	26.965	
11,900.0	7,500.0	7,453.0	7,453.0	84.2	13.0	-90.00	6,294.0	651.4	2,316.3	2,225.4	90.89	25.485	
12,000.0	7,500.0	7,453.0	7,453.0	85.8	13.0	-90.00	6,294.0	651.4	2,229.3	2,136.7	92.61	24.071	
12,100.0	7,500.0	7,453.0	7,453.0	87.4	13.0	-90.00	6,294.0	651.4	2,143.4	2,049.1	94.34	22.720	
12,200.0	7,500.0	7,453.0	7,453.0	89.0	13.0	-90.00	6,294.0	651.4	2,058.8	1,962.8	96.07	21.431	
12,300.0	7,500.0	7,453.0	7,453.0	90.6	13.0	-90.00	6,294.0	651.4	1,975.7	1,877.9	97.80	20.202	
12,400.0	7,500.0	7,453.0	7,453.0	92.2	13.0	-90.00	6,294.0	651.4	1,894.2	1,794.7	99.53	19.032	
12,500.0	7,500.0	7,453.0	7,453.0	93.8	13.0	-90.00	6,294.0	651.4	1,814.5	1,713.3	101.26	17.920	
12,600.0	7,500.0	7,453.0	7,453.0	95.5	13.0	-90.00	6,294.0	651.4	1,737.0	1,634.0	102.99	16.866	
12,700.0	7,500.0	7,453.0	7,453.0	97.1	13.0	-90.00	6,294.0	651.4	1,661.8	1,557.1	104.72	15.869	
12,800.0	7,500.0	7,453.0	7,453.0	98.7	13.0	-90.00	6,294.0	651.4	1,589.4	1,482.9	106.45	14.930	
12,900.0	7,500.0	7,453.0	7,453.0	100.4	13.0	-90.00	6,294.0	651.4	1,520.1	1,411.9	108.19	14.050	
13,000.0	7,500.0	7,453.0	7,453.0	102.0	13.0	-90.00	6,294.0	651.4	1,454.4	1,344.5	109.92	13.231	
13,100.0	7,500.0	7,453.0	7,453.0	103.7	13.0	-90.00	6,294.0	651.4	1,392.8	1,281.1	111.66	12.473	
13,200.0	7,500.0	7,453.0	7,453.0	105.3	13.0	-90.00	6,294.0	651.4	1,335.8	1,222.4	113.40	11.780	
13,300.0	7,500.0	7,453.0	7,453.0	107.0	13.0	-90.00	6,294.0	651.4	1,284.1	1,169.0	115.13	11.153	
13,400.0	7,500.0	7,453.0	7,453.0	108.6	13.0	-90.00	6,294.0	651.4	1,238.3	1,121.5	116.87	10.596	
13,500.0	7,500.0	7,453.0	7,453.0	110.3	13.0	-90.00	6,294.0	651.4	1,199.2	1,080.6	118.61	10.110	
13,600.0	7,500.0	7,453.0	7,453.0	111.9	13.0	-90.00	6,294.0	651.4	1,167.3	1,046.9	120.35	9.700	
13,700.0	7,500.0	7,453.0	7,453.0	113.6	13.0	-90.00	6,294.0	651.4	1,143.3	1,021.2	122.08	9.365	
13,753.1	7,500.0	7,453.0	7,453.0	114.5	13.0	-90.00	6,294.0	651.4	1,133.9	1,010.9	123.01	9.218	
13,800.0	7,500.0	7,453.0	7,453.0	115.3	13.0	-90.00	6,294.0	651.4	1,127.9	1,003.8	124.10	9.089	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													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 (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	
13,896.5	7,500.0	7,453.0	7,453.0	116.9	13.0	-90.00	6,294.0	651.4	1,122.9	996.6	126.32	8.889 CC	
13,900.0	7,500.0	7,453.0	7,453.0	117.0	13.0	-90.00	6,294.0	651.4	1,122.9	996.5	126.40	8.884 ES	
14,000.0	7,500.0	7,453.0	7,453.0	118.7	13.0	-90.00	6,294.0	651.4	1,128.7	1,000.0	128.66	8.773	
14,100.0	7,500.0	7,453.0	7,453.0	120.4	13.0	-90.00	6,294.0	651.4	1,145.1	1,014.2	130.88	8.749 SF	
14,200.0	7,500.0	7,453.0	7,453.0	122.1	13.0	-90.00	6,294.0	651.4	1,171.6	1,038.6	133.07	8.805	
14,300.0	7,500.0	7,453.0	7,453.0	123.8	13.0	-90.00	6,294.0	651.4	1,207.7	1,072.5	135.22	8.932	
14,400.0	7,500.0	7,453.0	7,453.0	125.6	13.0	-90.00	6,294.0	651.4	1,252.5	1,115.1	137.32	9.121	
14,500.0	7,500.0	7,453.0	7,453.0	127.3	13.0	-90.00	6,294.0	651.4	1,305.0	1,165.6	139.39	9.362	
14,600.0	7,500.0	7,453.0	7,453.0	129.1	13.0	-90.00	6,294.0	651.4	1,364.3	1,222.9	141.41	9.648	
14,683.9	7,500.0	7,453.0	7,453.0	130.5	13.0	-90.00	6,294.0	651.4	1,418.7	1,275.6	143.08	9.915	
14,700.0	7,500.0	7,453.0	7,453.0	130.8	13.0	-90.00	6,294.0	651.4	1,429.6	1,286.2	143.36	9.972	
14,756.3	7,500.0	7,453.0	7,453.0	131.8	13.0	-90.00	6,294.0	651.4	1,468.3	1,323.9	144.35	10.172	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO													Offset Site Error: 0.0 ft	
Survey Program: 7771-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,600.0	7,500.0	7,448.0	7,448.0	51.9	13.0	-90.00	6,883.8	21.5	5,259.5	5,210.8	48.65	108.113		
9,700.0	7,500.0	7,448.0	7,448.0	53.1	13.0	-90.00	6,883.8	21.5	5,163.2	5,112.9	50.29	102.672		
9,803.1	7,500.0	7,448.0	7,448.0	54.3	13.0	-90.00	6,883.8	21.5	5,064.0	5,012.0	51.99	97.401		
9,900.0	7,500.0	7,448.0	7,448.0	55.4	13.0	-90.00	6,883.8	21.5	4,971.0	4,917.4	53.60	92.744		
10,000.0	7,500.0	7,448.0	7,448.0	56.6	13.0	-90.00	6,883.8	21.5	4,875.1	4,819.9	55.27	88.210		
10,100.0	7,500.0	7,448.0	7,448.0	57.9	13.0	-90.00	6,883.8	21.5	4,779.5	4,722.5	56.94	83.934		
10,200.0	7,500.0	7,448.0	7,448.0	59.2	13.0	-90.00	6,883.8	21.5	4,684.0	4,625.3	58.63	79.896		
10,300.0	7,500.0	7,448.0	7,448.0	60.5	13.0	-90.00	6,883.8	21.5	4,588.7	4,528.3	60.31	76.080		
10,400.0	7,500.0	7,448.0	7,448.0	61.8	13.0	-90.00	6,883.8	21.5	4,493.5	4,431.5	62.01	72.469		
10,500.0	7,500.0	7,448.0	7,448.0	63.1	13.0	-90.00	6,883.8	21.5	4,398.7	4,335.0	63.70	69.048		
10,600.0	7,500.0	7,448.0	7,448.0	64.5	13.0	-90.00	6,883.8	21.5	4,304.0	4,238.6	65.41	65.804		
10,703.1	7,500.0	7,448.0	7,448.0	65.9	13.0	-90.00	6,883.8	21.5	4,206.6	4,139.5	67.17	62.630		
10,800.0	7,500.0	7,448.0	7,448.0	67.3	13.0	-90.00	6,883.8	21.5	4,115.7	4,046.3	69.41	59.295		
10,900.0	7,500.0	7,448.0	7,448.0	68.8	13.0	-90.00	6,883.8	21.5	4,022.8	3,951.1	71.72	56.092		
11,000.0	7,500.0	7,448.0	7,448.0	70.2	13.0	-90.00	6,883.8	21.5	3,930.9	3,856.9	74.01	53.112		
11,100.0	7,500.0	7,448.0	7,448.0	71.7	13.0	-90.00	6,883.8	21.5	3,840.1	3,763.8	76.29	50.335		
11,200.0	7,500.0	7,448.0	7,448.0	73.3	13.0	-90.00	6,883.8	21.5	3,750.6	3,672.0	78.56	47.744		
11,253.1	7,500.0	7,448.0	7,448.0	74.1	13.0	-90.00	6,883.8	21.5	3,703.6	3,623.8	79.75	46.437		
11,300.0	7,500.0	7,448.0	7,448.0	74.8	13.0	-90.00	6,883.8	21.5	3,662.3	3,581.8	80.56	45.463		
11,400.0	7,500.0	7,448.0	7,448.0	76.3	13.0	-90.00	6,883.8	21.5	3,574.8	3,492.5	82.27	43.451		
11,500.0	7,500.0	7,448.0	7,448.0	77.9	13.0	-90.00	6,883.8	21.5	3,488.0	3,404.0	83.99	41.528		
11,600.0	7,500.0	7,448.0	7,448.0	79.5	13.0	-90.00	6,883.8	21.5	3,401.8	3,316.1	85.71	39.690		
11,700.0	7,500.0	7,448.0	7,448.0	81.0	13.0	-90.00	6,883.8	21.5	3,316.5	3,229.1	87.43	37.932		
11,800.0	7,500.0	7,448.0	7,448.0	82.6	13.0	-90.00	6,883.8	21.5	3,232.0	3,142.8	89.15	36.251		
11,900.0	7,500.0	7,448.0	7,448.0	84.2	13.0	-90.00	6,883.8	21.5	3,148.4	3,057.5	90.88	34.644		
12,000.0	7,500.0	7,448.0	7,448.0	85.8	13.0	-90.00	6,883.8	21.5	3,065.8	2,973.2	92.60	33.106		
12,100.0	7,500.0	7,448.0	7,448.0	87.4	13.0	-90.00	6,883.8	21.5	2,984.2	2,889.9	94.33	31.636		
12,200.0	7,500.0	7,448.0	7,448.0	89.0	13.0	-90.00	6,883.8	21.5	2,903.8	2,807.8	96.06	30.230		
12,300.0	7,500.0	7,448.0	7,448.0	90.6	13.0	-90.00	6,883.8	21.5	2,824.7	2,726.9	97.79	28.886		
12,400.0	7,500.0	7,448.0	7,448.0	92.2	13.0	-90.00	6,883.8	21.5	2,746.9	2,647.4	99.52	27.602		
12,500.0	7,500.0	7,448.0	7,448.0	93.8	13.0	-90.00	6,883.8	21.5	2,670.6	2,569.3	101.25	26.376		
12,600.0	7,500.0	7,448.0	7,448.0	95.5	13.0	-90.00	6,883.8	21.5	2,595.9	2,492.9	102.98	25.208		
12,700.0	7,500.0	7,448.0	7,448.0	97.1	13.0	-90.00	6,883.8	21.5	2,522.9	2,418.2	104.71	24.094		
12,800.0	7,500.0	7,448.0	7,448.0	98.7	13.0	-90.00	6,883.8	21.5	2,451.9	2,345.4	106.45	23.034		
12,900.0	7,500.0	7,448.0	7,448.0	100.4	13.0	-90.00	6,883.8	21.5	2,382.9	2,274.7	108.18	22.027		
13,000.0	7,500.0	7,448.0	7,448.0	102.0	13.0	-90.00	6,883.8	21.5	2,316.2	2,206.3	109.91	21.073		
13,100.0	7,500.0	7,448.0	7,448.0	103.7	13.0	-90.00	6,883.8	21.5	2,252.0	2,140.4	111.65	20.170		
13,200.0	7,500.0	7,448.0	7,448.0	105.3	13.0	-90.00	6,883.8	21.5	2,190.5	2,077.1	113.39	19.319		
13,300.0	7,500.0	7,448.0	7,448.0	107.0	13.0	-90.00	6,883.8	21.5	2,131.8	2,016.7	115.12	18.518		
13,400.0	7,500.0	7,448.0	7,448.0	108.6	13.0	-90.00	6,883.8	21.5	2,076.4	1,959.5	116.86	17.768		
13,500.0	7,500.0	7,448.0	7,448.0	110.3	13.0	-90.00	6,883.8	21.5	2,024.3	1,905.7	118.60	17.069		
13,600.0	7,500.0	7,448.0	7,448.0	111.9	13.0	-90.00	6,883.8	21.5	1,976.0	1,855.7	120.34	16.421		
13,700.0	7,500.0	7,448.0	7,448.0	113.6	13.0	-90.00	6,883.8	21.5	1,931.6	1,809.5	122.08	15.823		
13,753.1	7,500.0	7,448.0	7,448.0	114.5	13.0	-90.00	6,883.8	21.5	1,909.7	1,786.7	123.00	15.526		
13,800.0	7,500.0	7,448.0	7,448.0	115.3	13.0	-90.00	6,883.8	21.5	1,891.7	1,767.6	124.09	15.245		
13,900.0	7,500.0	7,448.0	7,448.0	117.0	13.0	-90.00	6,883.8	21.5	1,857.9	1,731.5	126.39	14.700		
14,000.0	7,500.0	7,448.0	7,448.0	118.7	13.0	-90.00	6,883.8	21.5	1,830.7	1,702.1	128.65	14.230		
14,100.0	7,500.0	7,448.0	7,448.0	120.4	13.0	-90.00	6,883.8	21.5	1,810.6	1,679.7	130.87	13.835		
14,200.0	7,500.0	7,448.0	7,448.0	122.1	13.0	-90.00	6,883.8	21.5	1,797.7	1,664.6	133.06	13.510		
14,300.0	7,500.0	7,448.0	7,448.0	123.8	13.0	-90.00	6,883.8	21.5	1,792.2	1,657.0	135.21	13.256		
14,323.1	7,500.0	7,448.0	7,448.0	124.2	13.0	-90.00	6,883.8	21.5	1,792.0	1,656.3	135.70	13.206	CC, ES	
14,400.0	7,500.0	7,448.0	7,448.0	125.6	13.0	-90.00	6,883.8	21.5	1,794.3	1,656.9	137.31	13.067		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO		Offset Site Error:		0.0 ft	
Survey Program:													7771-Geolink MWD		Offset Well Error:		0.0 ft	
Reference				Offset			Semi Major Axis			Distance					Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor							
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
14,500.0	7,500.0	7,448.0	7,448.0	127.3	13.0	-90.00	6,883.8	21.5	1,803.7	1,664.3	139.38	12.941						
14,600.0	7,500.0	7,448.0	7,448.0	129.1	13.0	-90.00	6,883.8	21.5	1,820.5	1,679.1	141.40	12.875						
14,683.9	7,500.0	7,448.0	7,448.0	130.5	13.0	-90.00	6,883.8	21.5	1,840.1	1,697.1	143.07	12.862 SF						
14,700.0	7,500.0	7,448.0	7,448.0	130.8	13.0	-90.00	6,883.8	21.5	1,844.5	1,701.1	143.35	12.866						
14,756.3	7,500.0	7,448.0	7,448.0	131.8	13.0	-90.00	6,883.8	21.5	1,860.5	1,716.2	144.35	12.889						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV											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	
8,000.0	7,481.9	7,435.9	7,435.9	40.6	13.0	-26.64	5,577.5	1,343.4	5,244.4	5,220.9	23.51	223.110	
8,050.0	7,492.0	7,446.0	7,446.0	40.7	13.0	-30.21	5,577.5	1,343.4	5,195.7	5,173.9	21.81	238.234	
8,100.0	7,498.1	7,452.1	7,452.1	40.9	13.0	-40.21	5,577.5	1,343.4	5,146.2	5,124.3	21.91	234.863	
8,148.1	7,500.0	7,454.0	7,454.0	41.0	13.0	-90.00	5,577.5	1,343.4	5,098.2	5,069.9	28.29	180.209	
8,200.0	7,500.0	7,454.0	7,454.0	41.2	13.0	-90.00	5,577.5	1,343.4	5,046.4	5,017.7	28.76	175.477	
8,300.0	7,500.0	7,454.0	7,454.0	41.5	13.0	-90.00	5,577.5	1,343.4	4,946.5	4,916.7	29.76	166.189	
8,400.0	7,500.0	7,454.0	7,454.0	42.0	13.0	-90.00	5,577.5	1,343.4	4,846.6	4,815.7	30.89	156.910	
8,500.0	7,500.0	7,454.0	7,454.0	42.5	13.0	-90.00	5,577.5	1,343.4	4,746.7	4,714.6	32.11	147.836	
8,600.0	7,500.0	7,454.0	7,454.0	43.1	13.0	-90.00	5,577.5	1,343.4	4,646.8	4,613.4	33.41	139.095	
8,700.0	7,500.0	7,454.0	7,454.0	43.7	13.0	-90.00	5,577.5	1,343.4	4,546.9	4,512.1	34.77	130.763	
8,800.0	7,500.0	7,454.0	7,454.0	44.4	13.0	-90.00	5,577.5	1,343.4	4,447.0	4,410.8	36.19	122.878	
8,900.0	7,500.0	7,454.0	7,454.0	45.2	13.0	-90.00	5,577.5	1,343.4	4,347.1	4,309.5	37.65	115.452	
9,000.0	7,500.0	7,454.0	7,454.0	46.0	13.0	-90.00	5,577.5	1,343.4	4,247.3	4,208.1	39.15	108.479	
9,100.0	7,500.0	7,454.0	7,454.0	46.9	13.0	-90.00	5,577.5	1,343.4	4,147.4	4,106.7	40.68	101.943	
9,200.0	7,500.0	7,454.0	7,454.0	47.8	13.0	-90.00	5,577.5	1,343.4	4,047.5	4,005.3	42.24	95.821	
9,300.0	7,500.0	7,454.0	7,454.0	48.8	13.0	-90.00	5,577.5	1,343.4	3,947.7	3,903.8	43.82	90.090	
9,400.0	7,500.0	7,454.0	7,454.0	49.8	13.0	-90.00	5,577.5	1,343.4	3,847.8	3,802.4	45.42	84.722	
9,500.0	7,500.0	7,454.0	7,454.0	50.8	13.0	-90.00	5,577.5	1,343.4	3,748.0	3,700.9	47.03	79.692	
9,600.0	7,500.0	7,454.0	7,454.0	51.9	13.0	-90.00	5,577.5	1,343.4	3,648.1	3,599.5	48.66	74.974	
9,700.0	7,500.0	7,454.0	7,454.0	53.1	13.0	-90.00	5,577.5	1,343.4	3,548.3	3,498.0	50.30	70.545	
9,803.1	7,500.0	7,454.0	7,454.0	54.3	13.0	-90.00	5,577.5	1,343.4	3,445.3	3,393.3	52.00	66.255	
9,900.0	7,500.0	7,454.0	7,454.0	55.4	13.0	-90.00	5,577.5	1,343.4	3,348.7	3,295.1	53.61	62.464	
10,000.0	7,500.0	7,454.0	7,454.0	56.6	13.0	-90.00	5,577.5	1,343.4	3,248.9	3,193.6	55.28	58.774	
10,100.0	7,500.0	7,454.0	7,454.0	57.9	13.0	-90.00	5,577.5	1,343.4	3,149.1	3,092.2	56.95	55.292	
10,200.0	7,500.0	7,454.0	7,454.0	59.2	13.0	-90.00	5,577.5	1,343.4	3,049.3	2,990.7	58.64	52.005	
10,300.0	7,500.0	7,454.0	7,454.0	60.5	13.0	-90.00	5,577.5	1,343.4	2,949.6	2,889.3	60.32	48.896	
10,400.0	7,500.0	7,454.0	7,454.0	61.8	13.0	-90.00	5,577.5	1,343.4	2,849.9	2,787.9	62.02	45.953	
10,500.0	7,500.0	7,454.0	7,454.0	63.1	13.0	-90.00	5,577.5	1,343.4	2,750.2	2,686.4	63.72	43.163	
10,600.0	7,500.0	7,454.0	7,454.0	64.5	13.0	-90.00	5,577.5	1,343.4	2,650.5	2,585.0	65.42	40.516	
10,703.1	7,500.0	7,454.0	7,454.0	65.9	13.0	-90.00	5,577.5	1,343.4	2,547.7	2,480.5	67.18	37.925	
10,800.0	7,500.0	7,454.0	7,454.0	67.3	13.0	-90.00	5,577.5	1,343.4	2,451.2	2,381.8	69.42	35.310	
10,900.0	7,500.0	7,454.0	7,454.0	68.8	13.0	-90.00	5,577.5	1,343.4	2,351.9	2,280.2	71.73	32.789	
11,000.0	7,500.0	7,454.0	7,454.0	70.2	13.0	-90.00	5,577.5	1,343.4	2,252.9	2,178.8	74.02	30.435	
11,100.0	7,500.0	7,454.0	7,454.0	71.7	13.0	-90.00	5,577.5	1,343.4	2,154.2	2,077.9	76.30	28.232	
11,200.0	7,500.0	7,454.0	7,454.0	73.3	13.0	-90.00	5,577.5	1,343.4	2,055.9	1,977.4	78.57	26.168	
11,253.1	7,500.0	7,454.0	7,454.0	74.1	13.0	-90.00	5,577.5	1,343.4	2,003.9	1,924.2	79.76	25.123	
11,300.0	7,500.0	7,454.0	7,454.0	74.8	13.0	-90.00	5,577.5	1,343.4	1,958.2	1,877.6	80.57	24.305	
11,400.0	7,500.0	7,454.0	7,454.0	76.3	13.0	-90.00	5,577.5	1,343.4	1,860.7	1,778.4	82.28	22.614	
11,500.0	7,500.0	7,454.0	7,454.0	77.9	13.0	-90.00	5,577.5	1,343.4	1,763.6	1,679.6	84.00	20.994	
11,600.0	7,500.0	7,454.0	7,454.0	79.5	13.0	-90.00	5,577.5	1,343.4	1,666.7	1,581.0	85.72	19.444	
11,700.0	7,500.0	7,454.0	7,454.0	81.0	13.0	-90.00	5,577.5	1,343.4	1,570.3	1,482.9	87.44	17.958	
11,800.0	7,500.0	7,454.0	7,454.0	82.6	13.0	-90.00	5,577.5	1,343.4	1,474.4	1,385.2	89.17	16.535	
11,900.0	7,500.0	7,454.0	7,454.0	84.2	13.0	-90.00	5,577.5	1,343.4	1,379.0	1,288.1	90.89	15.172	
12,000.0	7,500.0	7,454.0	7,454.0	85.8	13.0	-90.00	5,577.5	1,343.4	1,284.3	1,191.7	92.61	13.867	
12,100.0	7,500.0	7,454.0	7,454.0	87.4	13.0	-90.00	5,577.5	1,343.4	1,190.5	1,096.2	94.34	12.619	
12,200.0	7,500.0	7,454.0	7,454.0	89.0	13.0	-90.00	5,577.5	1,343.4	1,097.8	1,001.7	96.07	11.427	
12,300.0	7,500.0	7,454.0	7,454.0	90.6	13.0	-90.00	5,577.5	1,343.4	1,006.5	908.7	97.80	10.291	
12,400.0	7,500.0	7,454.0	7,454.0	92.2	13.0	-90.00	5,577.5	1,343.4	917.0	817.5	99.53	9.213	
12,500.0	7,500.0	7,454.0	7,454.0	93.8	13.0	-90.00	5,577.5	1,343.4	829.9	728.6	101.26	8.196	
12,600.0	7,500.0	7,454.0	7,454.0	95.5	13.0	-90.00	5,577.5	1,343.4	746.0	643.1	102.99	7.244	
12,700.0	7,500.0	7,454.0	7,454.0	97.1	13.0	-90.00	5,577.5	1,343.4	666.7	561.9	104.72	6.366	
12,800.0	7,500.0	7,454.0	7,454.0	98.7	13.0	-90.00	5,577.5	1,343.4	593.5	487.1	106.46	5.575	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV													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	
12,900.0	7,500.0	7,454.0	7,454.0	100.4	13.0	-90.00	5,577.5	1,343.4	529.3	421.1	108.19	4.892	
13,000.0	7,500.0	7,454.0	7,454.0	102.0	13.0	-90.00	5,577.5	1,343.4	477.5	367.6	109.93	4.344	
13,100.0	7,500.0	7,454.0	7,454.0	103.7	13.0	-90.00	5,577.5	1,343.4	442.6	330.9	111.66	3.963	
13,200.0	7,500.0	7,454.0	7,454.0	105.3	13.0	-90.00	5,577.5	1,343.4	428.6	315.2	113.40	3.780	
13,210.7	7,500.0	7,454.0	7,454.0	105.5	13.0	-90.00	5,577.5	1,343.4	428.5	314.9	113.58	3.772 CC, ES, SF	
13,300.0	7,500.0	7,454.0	7,454.0	107.0	13.0	-90.00	5,577.5	1,343.4	437.7	322.6	115.13	3.802	
13,400.0	7,500.0	7,454.0	7,454.0	108.6	13.0	-90.00	5,577.5	1,343.4	468.4	351.6	116.87	4.008	
13,500.0	7,500.0	7,454.0	7,454.0	110.3	13.0	-90.00	5,577.5	1,343.4	517.0	398.4	118.61	4.359	
13,600.0	7,500.0	7,454.0	7,454.0	111.9	13.0	-90.00	5,577.5	1,343.4	578.9	458.6	120.35	4.810	
13,700.0	7,500.0	7,454.0	7,454.0	113.6	13.0	-90.00	5,577.5	1,343.4	650.4	528.3	122.09	5.327	
13,753.1	7,500.0	7,454.0	7,454.0	114.5	13.0	-90.00	5,577.5	1,343.4	691.2	568.2	123.01	5.619	
13,800.0	7,500.0	7,454.0	7,454.0	115.3	13.0	-90.00	5,577.5	1,343.4	728.7	604.6	124.10	5.872	
13,900.0	7,500.0	7,454.0	7,454.0	117.0	13.0	-90.00	5,577.5	1,343.4	812.7	686.3	126.40	6.430	
14,000.0	7,500.0	7,454.0	7,454.0	118.7	13.0	-90.00	5,577.5	1,343.4	900.8	772.1	128.66	7.001	
14,100.0	7,500.0	7,454.0	7,454.0	120.4	13.0	-90.00	5,577.5	1,343.4	991.9	861.1	130.88	7.579	
14,200.0	7,500.0	7,454.0	7,454.0	122.1	13.0	-90.00	5,577.5	1,343.4	1,085.3	952.3	133.07	8.156	
14,300.0	7,500.0	7,454.0	7,454.0	123.8	13.0	-90.00	5,577.5	1,343.4	1,180.4	1,045.2	135.22	8.729	
14,400.0	7,500.0	7,454.0	7,454.0	125.6	13.0	-90.00	5,577.5	1,343.4	1,276.7	1,139.4	137.32	9.297	
14,500.0	7,500.0	7,454.0	7,454.0	127.3	13.0	-90.00	5,577.5	1,343.4	1,374.0	1,234.6	139.39	9.857	
14,600.0	7,500.0	7,454.0	7,454.0	129.1	13.0	-90.00	5,577.5	1,343.4	1,472.0	1,330.6	141.41	10.409	
14,683.9	7,500.0	7,454.0	7,454.0	130.5	13.0	-90.00	5,577.5	1,343.4	1,554.7	1,411.6	143.08	10.866	
14,700.0	7,500.0	7,454.0	7,454.0	130.8	13.0	-90.00	5,577.5	1,343.4	1,570.6	1,427.2	143.36	10.955	
14,756.3	7,500.0	7,454.0	7,454.0	131.8	13.0	-90.00	5,577.5	1,343.4	1,626.2	1,481.9	144.36	11.265	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 40-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,700.0	7,500.0	7,480.0	7,383.7	43.7	19.6	80.62	6,294.6	1,982.3	5,218.4	5,178.4	40.02	130.409	
8,800.0	7,500.0	7,480.0	7,383.7	44.4	19.6	80.62	6,294.6	1,982.3	5,118.8	5,077.5	41.40	123.645	
8,900.0	7,500.0	7,480.0	7,383.7	45.2	19.6	80.62	6,294.6	1,982.3	5,019.3	4,976.5	42.83	117.197	
9,000.0	7,500.0	7,480.0	7,383.7	46.0	19.6	80.62	6,294.6	1,982.3	4,919.8	4,875.5	44.29	111.070	
9,100.0	7,500.0	7,480.0	7,383.7	46.9	19.6	80.62	6,294.6	1,982.3	4,820.4	4,774.6	45.79	105.264	
9,200.0	7,500.0	7,480.0	7,383.7	47.8	19.6	80.62	6,294.6	1,982.3	4,720.9	4,673.6	47.32	99.770	
9,300.0	7,500.0	7,480.0	7,383.7	48.8	19.6	80.62	6,294.6	1,982.3	4,621.5	4,572.6	48.87	94.575	
9,400.0	7,500.0	7,489.5	7,393.2	49.8	19.6	81.70	6,294.7	1,982.2	4,522.1	4,471.5	50.56	89.445	
9,500.0	7,500.0	7,490.6	7,394.2	50.8	19.6	81.82	6,294.7	1,982.2	4,422.7	4,370.5	52.16	84.792	
9,600.0	7,500.0	7,491.6	7,395.3	51.9	19.6	81.93	6,294.8	1,982.2	4,323.3	4,269.6	53.78	80.393	
9,700.0	7,500.0	7,492.6	7,396.3	53.1	19.6	82.05	6,294.8	1,982.2	4,224.0	4,168.6	55.41	76.232	
9,803.1	7,500.0	7,493.7	7,397.4	54.3	19.6	82.18	6,294.8	1,982.1	4,121.6	4,064.5	57.11	72.175	
9,900.0	7,500.0	7,494.8	7,398.5	55.4	19.6	82.30	6,294.8	1,982.1	4,025.5	3,966.8	58.71	68.567	
10,000.0	7,500.0	7,495.9	7,399.6	56.6	19.6	82.42	6,294.8	1,982.1	3,926.3	3,865.9	60.37	65.032	
10,100.0	7,500.0	7,497.0	7,400.7	57.9	19.6	82.55	6,294.8	1,982.1	3,827.1	3,765.0	62.05	61.680	
10,200.0	7,500.0	7,498.2	7,401.8	59.2	19.6	82.68	6,294.9	1,982.1	3,727.9	3,664.2	63.73	58.497	
10,300.0	7,500.0	7,499.3	7,403.0	60.5	19.6	82.82	6,294.9	1,982.1	3,628.9	3,563.4	65.42	55.472	
10,400.0	7,500.0	7,500.5	7,404.2	61.8	19.6	82.96	6,294.9	1,982.0	3,529.8	3,462.7	67.11	52.595	
10,500.0	7,500.0	7,501.8	7,405.4	63.1	19.6	83.10	6,294.9	1,982.0	3,430.8	3,362.0	68.81	49.857	
10,600.0	7,500.0	7,503.0	7,406.7	64.5	19.6	83.24	6,295.0	1,982.0	3,331.9	3,261.4	70.52	47.247	
10,703.1	7,500.0	7,504.3	7,408.0	65.9	19.6	83.39	6,295.0	1,982.0	3,230.0	3,157.7	72.29	44.683	
10,800.0	7,500.0	7,505.6	7,409.2	67.3	19.6	82.76	6,295.0	1,982.0	3,134.2	3,059.8	74.35	42.155	
10,900.0	7,500.0	7,506.9	7,410.5	68.8	19.6	81.95	6,295.0	1,982.0	3,035.1	2,958.6	76.42	39.714	
11,000.0	7,500.0	7,508.2	7,411.9	70.2	19.6	80.95	6,295.0	1,981.9	2,935.8	2,857.4	78.42	37.436	
11,100.0	7,500.0	7,509.5	7,413.2	71.7	19.6	79.64	6,295.1	1,981.9	2,836.4	2,756.1	80.30	35.321	
11,200.0	7,500.0	7,510.9	7,414.5	73.3	19.6	77.88	6,295.1	1,981.9	2,736.9	2,654.9	81.99	33.382	
11,253.1	7,500.0	7,511.6	7,415.2	74.1	19.6	76.67	6,295.1	1,981.9	2,683.9	2,601.1	82.75	32.435	
11,300.0	7,500.0	7,512.2	7,415.9	74.8	19.6	76.84	6,295.1	1,981.9	2,637.2	2,553.6	83.58	31.553	
11,400.0	7,500.0	7,513.6	7,417.3	76.3	19.6	77.19	6,295.2	1,981.9	2,537.5	2,452.2	85.36	29.727	
11,500.0	7,500.0	7,520.0	7,423.7	77.9	19.6	78.86	6,295.3	1,981.8	2,437.9	2,350.4	87.53	27.851	
11,600.0	7,500.0	7,520.0	7,423.7	79.5	19.6	78.86	6,295.3	1,981.8	2,338.3	2,249.1	89.22	26.209	
11,700.0	7,500.0	7,520.0	7,423.7	81.0	19.6	78.86	6,295.3	1,981.8	2,238.8	2,147.9	90.91	24.627	
11,800.0	7,500.0	7,520.0	7,423.7	82.6	19.6	78.86	6,295.3	1,981.8	2,139.2	2,046.6	92.59	23.103	
11,900.0	7,500.0	7,520.0	7,423.7	84.2	19.6	78.86	6,295.3	1,981.8	2,039.8	1,945.5	94.28	21.634	
12,000.0	7,500.0	7,523.0	7,426.7	85.8	19.6	79.66	6,295.3	1,981.7	1,940.3	1,844.1	96.21	20.167	
12,100.0	7,500.0	7,524.9	7,428.5	87.4	19.6	80.14	6,295.4	1,981.7	1,841.0	1,742.9	98.05	18.776	
12,200.0	7,500.0	7,526.7	7,430.4	89.0	19.6	80.64	6,295.4	1,981.7	1,741.7	1,641.8	99.89	17.436	
12,300.0	7,500.0	7,528.6	7,432.3	90.6	19.6	81.14	6,295.5	1,981.7	1,642.5	1,540.8	101.73	16.146	
12,400.0	7,500.0	7,530.6	7,434.2	92.2	19.6	81.66	6,295.5	1,981.6	1,543.4	1,439.8	103.57	14.902	
12,500.0	7,500.0	7,532.5	7,436.2	93.8	19.6	82.18	6,295.6	1,981.6	1,444.4	1,339.0	105.41	13.703	
12,600.0	7,500.0	7,534.5	7,438.2	95.5	19.6	82.71	6,295.6	1,981.6	1,345.5	1,238.3	107.25	12.546	
12,700.0	7,500.0	7,536.5	7,440.2	97.1	19.7	83.25	6,295.6	1,981.6	1,246.9	1,137.8	109.09	11.430	
12,800.0	7,500.0	7,538.5	7,442.2	98.7	19.7	83.79	6,295.7	1,981.5	1,148.5	1,037.5	110.92	10.354	
12,900.0	7,500.0	7,540.6	7,444.3	100.4	19.7	84.35	6,295.7	1,981.5	1,050.3	937.6	112.76	9.315	
13,000.0	7,500.0	7,542.7	7,446.3	102.0	19.7	84.91	6,295.8	1,981.5	952.6	838.0	114.58	8.313	
13,100.0	7,500.0	7,544.8	7,448.5	103.7	19.7	85.49	6,295.8	1,981.5	855.3	738.9	116.41	7.348	
13,200.0	7,500.0	7,547.0	7,450.6	105.3	19.7	86.07	6,295.9	1,981.4	758.8	640.5	118.22	6.418	
13,300.0	7,500.0	7,549.1	7,452.8	107.0	19.7	86.67	6,295.9	1,981.4	663.3	543.2	120.03	5.526	
13,400.0	7,500.0	7,551.3	7,455.0	108.6	19.7	87.27	6,296.0	1,981.4	569.3	447.4	121.83	4.672	
13,500.0	7,500.0	7,553.6	7,457.3	110.3	19.7	87.88	6,296.0	1,981.4	477.7	354.1	123.63	3.864	
13,600.0	7,500.0	7,555.9	7,459.5	111.9	19.7	88.50	6,296.1	1,981.3	390.3	264.9	125.41	3.112	
13,700.0	7,500.0	7,558.2	7,461.8	113.6	19.7	89.14	6,296.1	1,981.3	310.6	183.4	127.18	2.442	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WEL													Offset Site Error:	0.0 ft
Survey Program: 40-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth 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		
13,753.1	7,500.0	7,559.4	7,463.1	114.5	19.7	89.48	6,296.2	1,981.3	273.7	145.6	128.11	2.137		
13,800.0	7,500.0	7,560.5	7,464.2	115.3	19.7	89.78	6,296.2	1,981.3	246.0	116.8	129.16	1.905		
13,900.0	7,500.0	7,562.9	7,466.6	117.0	19.7	90.43	6,296.3	1,981.3	209.4	78.1	131.36	1.594		
13,936.8	7,500.0	7,563.8	7,467.4	117.6	19.7	90.67	6,296.3	1,981.3	206.3	74.1	132.15	1.561	CC, ES, SF	
14,000.0	7,500.0	7,565.2	7,468.9	118.7	19.7	91.07	6,296.3	1,981.2	215.4	81.9	133.50	1.613		
14,100.0	7,500.0	7,567.4	7,471.1	120.4	19.7	91.67	6,296.4	1,981.2	261.0	125.4	135.59	1.925		
14,200.0	7,500.0	7,569.6	7,473.3	122.1	19.7	92.22	6,296.4	1,981.2	330.2	192.6	137.63	2.399		
14,300.0	7,500.0	7,571.7	7,475.4	123.8	19.7	92.72	6,296.5	1,981.2	411.3	271.7	139.62	2.946		
14,400.0	7,500.0	7,573.7	7,477.4	125.6	19.7	93.14	6,296.5	1,981.1	498.4	356.8	141.56	3.521		
14,500.0	7,500.0	7,575.7	7,479.4	127.3	19.7	93.50	6,296.6	1,981.1	588.9	445.4	143.47	4.105		
14,600.0	7,500.0	7,577.7	7,481.3	129.1	19.7	93.79	6,296.6	1,981.1	681.4	536.0	145.33	4.688		
14,683.9	7,500.0	7,579.2	7,482.9	130.5	19.7	93.98	6,296.6	1,981.1	759.9	613.0	146.87	5.174		
14,700.0	7,500.0	7,579.5	7,483.2	130.8	19.7	94.04	6,296.6	1,981.1	775.1	628.0	147.15	5.268		
14,756.3	7,500.0	7,580.6	7,484.2	131.8	19.7	94.27	6,296.7	1,981.1	828.4	680.3	148.10	5.593		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL													Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	39.0	39.0	0.0	0.1	37.78	2,900.1	2,247.7	3,669.2					
100.0	100.0	141.5	141.5	0.2	0.2	37.78	2,900.1	2,247.7	3,669.1	3,668.7	0.40	9,188.612		
200.0	200.0	244.0	244.0	0.3	0.4	37.78	2,900.0	2,247.6	3,669.0	3,668.2	0.75	4,872.342		
300.0	300.0	346.6	346.6	0.5	0.6	-54.04	2,899.8	2,247.4	3,668.3	3,667.2	1.11	3,315.236		
400.0	400.0	449.1	449.1	0.7	0.8	-54.09	2,899.6	2,247.3	3,666.5	3,665.0	1.46	2,505.806		
500.0	499.9	551.5	551.5	0.9	1.0	-54.17	2,899.4	2,247.0	3,663.6	3,661.8	1.82	2,007.461		
600.0	599.7	653.8	653.8	1.1	1.1	-54.28	2,899.1	2,246.7	3,659.6	3,657.4	2.19	1,667.796		
700.0	699.4	756.0	756.0	1.3	1.3	-54.42	2,898.7	2,246.4	3,654.5	3,652.0	2.57	1,420.118		
800.0	798.9	851.0	850.9	1.5	1.5	-54.60	2,898.6	2,245.8	3,648.5	3,645.5	2.95	1,235.759		
900.0	898.3	934.9	934.9	1.8	1.6	-54.78	2,898.9	2,245.2	3,641.7	3,638.4	3.33	1,094.656		
1,000.0	997.4	1,053.3	1,053.3	2.0	1.8	-55.06	2,899.3	2,244.4	3,634.1	3,630.3	3.78	961.827		
1,100.0	1,096.3	1,155.4	1,155.3	2.3	2.0	-55.34	2,899.3	2,243.5	3,625.1	3,620.8	4.22	859.087		
1,200.0	1,194.9	1,245.0	1,245.0	2.7	2.2	-55.63	2,899.5	2,242.5	3,615.2	3,610.5	4.66	775.768		
1,300.0	1,293.3	1,327.1	1,327.1	3.0	2.3	-55.94	2,900.2	2,241.5	3,604.7	3,599.6	5.11	705.509		
1,400.0	1,391.2	1,394.5	1,394.4	3.4	2.4	-56.23	2,901.3	2,240.5	3,593.9	3,588.4	5.56	646.743		
1,500.0	1,488.9	1,481.1	1,481.0	3.8	2.6	-56.63	2,904.6	2,238.0	3,583.1	3,577.0	6.07	590.305		
1,600.0	1,586.1	1,571.5	1,571.2	4.3	2.8	-57.12	2,909.1	2,233.4	3,571.3	3,564.7	6.62	539.180		
1,700.0	1,682.9	1,625.0	1,624.4	4.7	2.9	-57.47	2,912.6	2,230.2	3,559.4	3,552.3	7.13	498.884		
1,800.0	1,779.3	1,692.3	1,691.4	5.2	3.0	-57.92	2,918.0	2,225.6	3,547.8	3,540.1	7.71	459.990		
1,900.0	1,875.2	1,746.2	1,744.8	5.8	3.1	-58.33	2,923.4	2,221.7	3,536.6	3,528.3	8.29	426.381		
2,000.0	1,970.5	1,816.0	1,814.0	6.3	3.3	-58.85	2,931.5	2,216.5	3,525.9	3,517.0	8.95	393.983		
2,022.8	1,992.2	1,816.0	1,814.0	6.4	3.3	-58.87	2,931.5	2,216.5	3,523.5	3,514.4	9.06	388.831		
2,100.0	2,065.5	1,845.8	1,843.4	6.9	3.4	-59.06	2,935.4	2,214.3	3,516.0	3,506.5	9.52	369.143		
2,200.0	2,160.5	1,910.0	1,906.7	7.5	3.5	-59.49	2,944.8	2,209.4	3,507.9	3,497.7	10.20	343.875		
2,300.0	2,255.5	1,937.9	1,934.2	8.0	3.6	-59.68	2,949.4	2,207.3	3,501.2	3,490.4	10.79	324.559		
2,400.0	2,350.5	2,005.0	2,000.0	8.6	3.8	-60.14	2,961.2	2,202.2	3,496.2	3,484.8	11.49	304.160		
2,500.0	2,445.5	2,059.0	2,053.0	9.2	4.0	-60.52	2,971.2	2,198.1	3,492.6	3,480.4	12.17	286.910		
2,600.0	2,540.4	2,134.8	2,127.1	9.8	4.2	-61.04	2,985.3	2,192.4	3,489.7	3,476.8	12.93	269.971		
2,700.0	2,635.4	2,208.5	2,199.2	10.4	4.4	-61.56	2,999.6	2,187.0	3,488.0	3,474.3	13.68	254.938		
2,800.0	2,730.4	2,332.4	2,320.6	11.0	4.8	-62.42	3,022.9	2,177.9	3,486.2	3,471.6	14.60	238.710		
2,900.0	2,825.4	2,417.1	2,403.6	11.6	5.1	-63.02	3,038.7	2,171.4	3,484.8	3,469.4	15.41	226.123		
2,992.6	2,913.3	2,479.0	2,464.2	12.1	5.3	-63.45	3,050.3	2,166.8	3,484.2	3,468.1	16.11	216.329		
3,000.0	2,920.4	2,479.0	2,464.2	12.2	5.3	-63.45	3,050.3	2,166.8	3,484.2	3,468.1	16.15	215.799		
3,100.0	3,015.4	2,553.2	2,536.8	12.8	5.6	-63.97	3,064.7	2,161.6	3,484.7	3,467.8	16.93	205.888		
3,200.0	3,110.3	2,629.6	2,611.5	13.3	5.9	-64.51	3,080.1	2,156.2	3,486.4	3,468.7	17.72	196.718		
3,300.0	3,205.3	2,760.9	2,739.6	13.9	6.4	-65.44	3,106.7	2,145.9	3,488.5	3,469.8	18.71	186.415		
3,400.0	3,300.3	2,831.2	2,808.4	14.5	6.6	-65.94	3,120.5	2,140.6	3,490.5	3,471.0	19.49	179.120		
3,500.0	3,395.3	2,948.7	2,923.4	15.1	7.1	-66.75	3,143.2	2,132.7	3,493.2	3,472.8	20.42	171.074		
3,600.0	3,490.3	3,026.7	2,999.7	15.7	7.4	-67.29	3,158.1	2,127.1	3,496.0	3,474.7	21.22	164.713		
3,700.0	3,585.2	3,099.8	3,071.2	16.3	7.7	-67.80	3,172.4	2,121.9	3,499.6	3,477.6	22.02	158.954		
3,800.0	3,680.2	3,183.7	3,153.2	16.9	8.0	-68.38	3,189.1	2,116.1	3,504.3	3,481.4	22.84	153.406		
3,900.0	3,775.2	3,295.6	3,262.7	17.5	8.4	-69.15	3,211.0	2,108.6	3,509.2	3,485.4	23.76	147.708		
4,000.0	3,870.2	3,384.5	3,349.7	18.1	8.7	-69.77	3,228.2	2,102.0	3,514.1	3,489.5	24.61	142.809		
4,100.0	3,965.2	3,464.2	3,427.5	18.7	9.1	-70.33	3,244.0	2,095.6	3,519.9	3,494.5	25.43	138.414		
4,200.0	4,060.2	3,558.2	3,519.4	19.3	9.4	-70.99	3,262.8	2,088.2	3,526.3	3,500.0	26.30	134.100		
4,300.0	4,155.1	3,648.9	3,608.0	19.9	9.8	-71.62	3,280.7	2,081.2	3,533.0	3,505.9	27.15	130.129		
4,400.0	4,250.1	3,722.6	3,679.9	20.5	10.1	-72.13	3,295.5	2,075.3	3,540.6	3,512.7	27.95	126.672		
4,500.0	4,345.1	3,817.0	3,772.3	21.1	10.4	-72.77	3,314.3	2,069.1	3,548.8	3,520.0	28.79	123.263		
4,600.0	4,440.1	3,901.0	3,854.5	21.7	10.8	-73.32	3,330.9	2,064.4	3,557.6	3,528.0	29.60	120.192		
4,700.0	4,535.1	3,966.7	3,918.7	22.3	11.0	-73.75	3,344.2	2,060.7	3,567.3	3,536.9	30.36	117.517		
4,800.0	4,630.1	4,109.1	4,058.0	22.9	11.6	-74.69	3,372.6	2,052.5	3,577.3	3,546.0	31.33	114.191		
4,900.0	4,725.0	4,220.4	4,166.8	23.5	12.0	-75.44	3,393.8	2,043.7	3,586.4	3,554.1	32.24	111.256		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 771-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	4,820.0	4,282.0	4,227.0	24.1	12.3	-75.87	3,405.8	2,038.2	3,596.1	3,563.1	33.00	108.986	
5,100.0	4,915.0	4,347.7	4,291.1	24.6	12.6	-76.32	3,419.0	2,032.7	3,607.1	3,573.3	33.76	106.848	
5,200.0	5,010.0	4,472.0	4,412.6	25.2	13.0	-77.14	3,443.9	2,023.8	3,618.7	3,584.0	34.67	104.378	
5,300.0	5,105.0	4,537.1	4,476.3	25.8	13.3	-77.57	3,456.6	2,019.3	3,630.3	3,594.9	35.42	102.480	
5,400.0	5,199.9	4,604.0	4,541.6	26.4	13.6	-78.01	3,470.3	2,014.4	3,643.2	3,607.0	36.18	100.687	
5,500.0	5,294.9	5,405.6	5,334.4	27.0	15.7	-82.66	3,562.1	1,979.4	3,655.7	3,617.4	38.25	95.570	
5,600.0	5,389.9	5,491.1	5,419.9	27.6	15.7	-83.09	3,562.3	1,978.9	3,651.7	3,612.7	38.95	93.747	
5,700.0	5,484.9	5,571.0	5,499.8	28.2	15.8	-83.49	3,562.7	1,978.4	3,648.2	3,608.6	39.65	92.016	
5,800.0	5,579.9	5,665.2	5,594.1	28.8	16.0	-83.96	3,563.4	1,977.6	3,645.3	3,605.0	40.37	90.309	
5,900.0	5,674.9	5,762.5	5,691.3	29.4	16.1	-84.45	3,564.1	1,976.5	3,642.6	3,601.6	41.09	88.648	
6,000.0	5,769.8	5,853.5	5,782.2	30.0	16.2	-84.92	3,564.9	1,975.1	3,640.3	3,598.5	41.81	87.069	
6,100.0	5,864.8	5,939.2	5,868.0	30.6	16.3	-85.36	3,565.7	1,973.9	3,638.3	3,595.8	42.52	85.570	
6,200.0	5,959.8	6,029.7	5,958.5	31.2	16.4	-85.82	3,566.8	1,972.9	3,636.9	3,593.7	43.23	84.123	
6,300.0	6,054.8	6,135.5	6,064.2	31.8	16.6	-86.36	3,568.0	1,971.9	3,635.7	3,591.7	43.97	82.688	
6,400.0	6,149.8	6,244.4	6,173.1	32.4	16.7	-86.92	3,568.7	1,970.5	3,634.4	3,589.7	44.71	81.288	
6,500.0	6,244.7	6,321.0	6,249.7	33.0	16.8	-87.31	3,569.2	1,969.4	3,633.3	3,587.9	45.41	80.016	
6,552.0	6,294.1	6,354.2	6,283.0	33.3	16.9	-87.48	3,569.6	1,969.0	3,633.1	3,587.4	45.76	79.395	
6,600.0	6,339.7	6,397.7	6,326.4	33.6	16.9	-87.70	3,570.3	1,968.6	3,633.2	3,587.1	46.10	78.806	
6,700.0	6,434.7	6,493.0	6,421.7	34.2	17.0	-88.19	3,571.5	1,967.5	3,633.3	3,586.5	46.83	77.594	
6,800.0	6,529.7	6,560.0	6,488.7	34.8	17.1	-88.54	3,572.8	1,966.5	3,634.3	3,586.8	47.51	76.493	
6,900.0	6,624.7	6,738.2	6,666.9	35.4	17.4	-89.44	3,573.5	1,965.0	3,633.6	3,585.3	48.33	75.187	
6,975.7	6,696.6	6,801.0	6,729.7	35.8	17.4	-89.75	3,573.5	1,964.8	3,633.4	3,584.6	48.86	74.370	
7,000.0	6,719.7	6,821.3	6,749.9	36.0	17.5	-89.85	3,573.5	1,964.7	3,633.4	3,584.4	49.03	74.113	
7,100.0	6,814.6	6,912.6	6,841.2	36.6	17.6	-90.31	3,573.8	1,964.3	3,633.8	3,584.1	49.73	73.064	
7,200.0	6,909.6	6,993.7	6,922.3	37.2	17.7	-90.72	3,574.2	1,963.8	3,634.6	3,584.1	50.43	72.070	
7,225.4	6,933.7	7,012.7	6,941.4	37.3	17.7	-90.81	3,574.3	1,963.6	3,634.9	3,584.3	50.61	71.827	
7,250.0	6,957.1	7,038.0	6,966.7	37.5	17.7	-83.44	3,574.6	1,963.4	3,634.7	3,584.0	50.71	71.672	
7,300.0	7,004.6	7,083.1	7,011.8	37.8	17.8	-68.72	3,575.0	1,963.0	3,631.2	3,580.5	50.68	71.652	
7,350.0	7,051.7	7,133.0	7,061.6	38.0	17.9	-55.92	3,575.4	1,962.8	3,623.3	3,573.0	50.33	71.996	
7,400.0	7,098.0	7,178.0	7,106.6	38.3	17.9	-45.72	3,575.7	1,962.7	3,611.3	3,561.6	49.65	72.736	
7,450.0	7,143.3	7,218.3	7,147.0	38.5	18.0	-37.90	3,576.1	1,962.4	3,595.2	3,546.5	48.65	73.900	
7,500.0	7,187.1	7,268.7	7,197.4	38.8	18.0	-32.02	3,576.5	1,962.1	3,575.1	3,527.8	47.36	75.494	
7,550.0	7,229.2	7,320.6	7,249.3	39.0	18.1	-27.51	3,576.8	1,961.9	3,551.1	3,505.3	45.77	77.583	
7,600.0	7,269.2	7,356.3	7,284.9	39.2	18.2	-23.91	3,577.0	1,961.8	3,523.3	3,479.4	43.88	80.287	
7,650.0	7,306.8	7,388.9	7,317.5	39.4	18.2	-20.99	3,577.3	1,961.7	3,492.1	3,450.4	41.73	83.681	
7,700.0	7,341.7	7,419.3	7,347.9	39.6	18.2	-18.53	3,577.5	1,961.5	3,457.8	3,418.4	39.34	87.902	
7,750.0	7,373.7	7,453.7	7,382.3	39.8	18.3	-16.43	3,577.8	1,961.2	3,420.4	3,383.7	36.74	93.109	
7,800.0	7,402.5	7,484.6	7,413.3	39.9	18.3	-14.47	3,578.1	1,960.9	3,380.3	3,346.4	33.95	99.579	
7,850.0	7,427.9	7,512.0	7,440.6	40.1	18.4	-12.51	3,578.3	1,960.6	3,337.8	3,306.8	31.00	107.670	
7,900.0	7,449.7	7,530.1	7,458.7	40.2	18.4	-10.29	3,578.4	1,960.4	3,293.2	3,265.2	27.93	117.915	
7,950.0	7,467.8	7,544.6	7,473.2	40.4	18.4	-7.46	3,578.5	1,960.3	3,246.8	3,222.0	24.80	130.916	
8,000.0	7,481.9	7,556.1	7,484.7	40.6	18.4	-3.25	3,578.7	1,960.2	3,199.0	3,177.3	21.77	146.977	
8,050.0	7,492.0	7,564.6	7,493.2	40.7	18.5	4.56	3,578.8	1,960.2	3,150.2	3,130.8	19.45	161.956	
8,100.0	7,498.1	7,569.8	7,498.5	40.9	18.5	24.47	3,578.8	1,960.2	3,100.7	3,078.9	21.77	142.414	
8,148.1	7,500.0	7,571.8	7,500.5	41.0	18.5	79.86	3,578.8	1,960.1	3,052.7	3,019.4	33.29	91.690	
8,200.0	7,500.0	7,572.4	7,501.0	41.2	18.5	80.00	3,578.9	1,960.1	3,001.0	2,967.2	33.75	88.916	
8,300.0	7,500.0	7,573.4	7,502.0	41.5	18.5	80.27	3,578.9	1,960.1	2,901.2	2,866.5	34.74	83.524	
8,400.0	7,500.0	7,574.4	7,503.0	42.0	18.5	80.54	3,578.9	1,960.1	2,801.5	2,765.7	35.84	78.172	
8,500.0	7,500.0	7,575.5	7,504.1	42.5	18.5	80.82	3,578.9	1,960.1	2,701.8	2,664.8	37.04	72.946	
8,600.0	7,500.0	7,576.5	7,505.2	43.1	18.5	81.10	3,578.9	1,960.1	2,602.1	2,563.8	38.32	67.903	
8,700.0	7,500.0	7,577.6	7,506.2	43.7	18.5	81.39	3,578.9	1,960.1	2,502.5	2,462.8	39.67	63.079	
8,800.0	7,500.0	7,578.7	7,507.3	44.4	18.5	81.68	3,578.9	1,960.1	2,402.8	2,361.8	41.08	58.493	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.0	7,500.0	7,579.8	7,508.4	45.2	18.5	81.97	3,578.9	1,960.1	2,303.3	2,260.7	42.53	54.150	
9,000.0	7,500.0	7,580.9	7,509.5	46.0	18.5	82.27	3,579.0	1,960.1	2,203.7	2,159.7	44.03	50.050	
9,100.0	7,500.0	7,582.0	7,510.7	46.9	18.5	82.58	3,579.0	1,960.1	2,104.2	2,058.6	45.56	46.186	
9,200.0	7,500.0	7,583.2	7,511.8	47.8	18.5	82.88	3,579.0	1,960.1	2,004.7	1,957.6	47.12	42.548	
9,300.0	7,500.0	7,584.3	7,513.0	48.8	18.5	83.20	3,579.0	1,960.1	1,905.3	1,856.6	48.70	39.124	
9,400.0	7,500.0	7,585.5	7,514.1	49.8	18.5	83.51	3,579.0	1,960.1	1,805.9	1,755.6	50.30	35.901	
9,500.0	7,500.0	7,586.7	7,515.3	50.8	18.5	83.83	3,579.0	1,960.1	1,706.7	1,654.7	51.93	32.868	
9,600.0	7,500.0	7,587.9	7,516.5	51.9	18.5	84.16	3,579.1	1,960.1	1,607.5	1,553.9	53.56	30.011	
9,700.0	7,500.0	7,589.2	7,517.8	53.1	18.5	84.49	3,579.1	1,960.1	1,508.4	1,453.2	55.22	27.319	
9,803.1	7,500.0	7,590.4	7,519.1	54.3	18.5	84.84	3,579.1	1,960.1	1,406.3	1,349.4	56.93	24.703	
9,900.0	7,500.0	7,591.7	7,520.3	55.4	18.5	85.17	3,579.1	1,960.0	1,310.7	1,252.1	58.55	22.384	
10,000.0	7,500.0	7,592.9	7,521.6	56.6	18.5	85.52	3,579.1	1,960.0	1,212.1	1,151.8	60.24	20.122	
10,100.0	7,500.0	7,594.2	7,522.9	57.9	18.5	85.87	3,579.1	1,960.0	1,113.7	1,051.8	61.93	17.984	
10,200.0	7,500.0	7,595.5	7,524.2	59.2	18.5	86.23	3,579.2	1,960.0	1,015.7	952.1	63.63	15.964	
10,300.0	7,500.0	7,596.9	7,525.5	60.5	18.5	86.59	3,579.2	1,960.0	918.1	852.8	65.33	14.053	
10,400.0	7,500.0	7,598.2	7,526.9	61.8	18.5	86.96	3,579.2	1,960.0	821.1	754.0	67.04	12.248	
10,500.0	7,500.0	7,599.6	7,528.2	63.1	18.5	87.33	3,579.2	1,960.0	724.8	656.1	68.75	10.543	
10,600.0	7,500.0	7,601.0	7,529.6	64.5	18.5	87.71	3,579.2	1,960.0	629.8	559.3	70.47	8.938	
10,703.1	7,500.0	7,602.5	7,531.1	65.9	18.5	88.11	3,579.3	1,960.0	533.7	461.4	72.24	7.387	
10,800.0	7,500.0	7,603.8	7,532.5	67.3	18.5	88.43	3,579.3	1,960.0	445.8	371.4	74.44	5.989	
10,900.0	7,500.0	7,605.3	7,533.9	68.8	18.5	88.81	3,579.3	1,960.0	359.1	282.4	76.71	4.682	
11,000.0	7,500.0	7,606.8	7,535.4	70.2	18.5	89.22	3,579.3	1,960.0	280.1	201.2	78.96	3.548	
11,100.0	7,500.0	7,608.3	7,536.9	71.7	18.5	89.66	3,579.3	1,960.0	217.5	136.3	81.19	2.678	
11,200.0	7,500.0	7,610.0	7,538.6	73.3	18.5	90.19	3,579.4	1,960.0	188.3	104.9	83.40	2.257	
11,211.2	7,500.0	7,610.0	7,538.6	73.4	18.5	90.19	3,579.4	1,960.0	187.9	104.3	83.64	2.247	CC, ES, SF
11,253.1	7,500.0	7,610.6	7,539.2	74.1	18.5	90.36	3,579.4	1,960.0	192.4	107.8	84.56	2.275	
11,300.0	7,500.0	7,611.3	7,539.9	74.8	18.5	90.58	3,579.4	1,960.0	207.4	122.0	85.36	2.430	
11,400.0	7,500.0	7,612.8	7,541.4	76.3	18.5	91.05	3,579.4	1,960.0	265.5	178.4	87.07	3.049	
11,500.0	7,500.0	7,614.3	7,542.9	77.9	18.5	91.51	3,579.4	1,960.0	343.4	254.7	88.77	3.869	
11,600.0	7,500.0	7,615.8	7,544.5	79.5	18.5	91.97	3,579.5	1,960.0	430.6	340.1	90.47	4.759	
11,700.0	7,500.0	7,617.3	7,546.0	81.0	18.5	92.42	3,579.5	1,960.0	522.4	430.2	92.17	5.668	
11,800.0	7,500.0	7,618.8	7,547.5	82.6	18.5	92.88	3,579.5	1,960.0	616.7	522.8	93.86	6.571	
11,900.0	7,500.0	7,620.3	7,549.0	84.2	18.5	93.34	3,579.5	1,959.9	712.6	617.0	95.54	7.458	
12,000.0	7,500.0	7,621.8	7,550.5	85.8	18.5	93.79	3,579.6	1,959.9	809.5	712.2	97.22	8.326	
12,100.0	7,500.0	7,623.3	7,551.9	87.4	18.5	94.24	3,579.6	1,959.9	907.0	808.1	98.90	9.171	
12,200.0	7,500.0	7,624.8	7,553.4	89.0	18.5	94.69	3,579.6	1,959.9	1,005.0	904.5	100.57	9.994	
12,300.0	7,500.0	7,626.3	7,554.9	90.6	18.5	95.14	3,579.6	1,959.9	1,103.4	1,001.2	102.23	10.794	
12,400.0	7,500.0	7,627.8	7,556.4	92.2	18.5	95.58	3,579.6	1,959.9	1,202.1	1,098.2	103.88	11.571	
12,500.0	7,500.0	7,629.2	7,557.8	93.8	18.5	96.02	3,579.7	1,959.9	1,300.9	1,195.4	105.53	12.328	
12,600.0	7,500.0	7,630.7	7,559.3	95.5	18.5	96.46	3,579.7	1,959.9	1,399.9	1,292.8	107.17	13.063	
12,700.0	7,500.0	7,632.1	7,560.8	97.1	18.5	96.90	3,579.7	1,959.9	1,499.1	1,390.3	108.80	13.778	
12,800.0	7,500.0	7,633.6	7,562.2	98.7	18.5	97.34	3,579.7	1,959.9	1,598.3	1,487.9	110.43	14.474	
12,900.0	7,500.0	7,635.1	7,563.7	100.4	18.6	97.77	3,579.8	1,959.9	1,697.7	1,585.6	112.04	15.152	
13,000.0	7,500.0	7,636.5	7,565.1	102.0	18.6	98.21	3,579.8	1,959.9	1,797.1	1,683.4	113.65	15.812	
13,100.0	7,500.0	7,637.9	7,566.6	103.7	18.6	98.64	3,579.8	1,959.9	1,896.5	1,781.3	115.25	16.455	
13,200.0	7,500.0	7,639.4	7,568.0	105.3	18.6	99.06	3,579.8	1,959.9	1,996.0	1,879.2	116.84	17.083	
13,300.0	7,500.0	7,640.8	7,569.4	107.0	18.6	99.49	3,579.8	1,959.9	2,095.6	1,977.2	118.43	17.695	
13,400.0	7,500.0	7,642.2	7,570.9	108.6	18.6	99.91	3,579.9	1,959.9	2,195.2	2,075.2	120.00	18.293	
13,500.0	7,500.0	7,643.7	7,572.3	110.3	18.6	100.33	3,579.9	1,959.9	2,294.9	2,173.3	121.57	18.877	
13,600.0	7,500.0	7,645.1	7,573.7	111.9	18.6	100.75	3,579.9	1,959.9	2,394.5	2,271.4	123.12	19.448	
13,700.0	7,500.0	7,646.5	7,575.1	113.6	18.6	101.17	3,579.9	1,959.9	2,494.2	2,369.5	124.67	20.007	
13,753.1	7,500.0	7,647.3	7,575.9	114.5	18.6	101.39	3,579.9	1,959.9	2,547.2	2,421.7	125.49	20.298	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL		Offset Site Error:		0.0 ft
Survey Program:													771-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
13,800.0	7,500.0	7,647.9	7,576.5	115.3	18.6	100.35	3,579.9	1,959.9	2,593.9	2,467.0	126.94	20.433					
13,900.0	7,500.0	7,649.3	7,577.9	117.0	18.6	98.69	3,580.0	1,959.9	2,693.5	2,563.8	129.74	20.761					
14,000.0	7,500.0	7,650.7	7,579.3	118.7	18.6	97.51	3,580.0	1,959.9	2,792.9	2,660.7	132.28	21.114					
14,100.0	7,500.0	7,652.1	7,580.7	120.4	18.6	96.63	3,580.0	1,959.9	2,892.2	2,757.6	134.66	21.478					
14,200.0	7,500.0	7,653.5	7,582.1	122.1	18.6	95.95	3,580.0	1,959.9	2,991.3	2,854.4	136.93	21.845					
14,300.0	7,500.0	7,654.9	7,583.5	123.8	18.6	95.40	3,580.0	1,959.9	3,090.2	2,951.1	139.12	22.213					
14,400.0	7,500.0	7,656.2	7,584.9	125.6	18.6	94.96	3,580.1	1,959.9	3,188.8	3,047.6	141.23	22.578					
14,500.0	7,500.0	7,657.6	7,586.2	127.3	18.6	94.59	3,580.1	1,959.9	3,287.3	3,144.0	143.29	22.942					
14,600.0	7,500.0	7,659.0	7,587.6	129.1	18.6	94.27	3,580.1	1,959.9	3,385.4	3,240.1	145.29	23.302					
14,683.9	7,500.0	7,660.1	7,588.7	130.5	18.6	94.04	3,580.1	1,959.9	3,467.6	3,320.6	146.92	23.602					
14,700.0	7,500.0	7,660.3	7,588.9	130.8	18.6	94.06	3,580.1	1,959.9	3,483.3	3,336.1	147.20	23.664					
14,756.3	7,500.0	7,661.1	7,589.7	131.8	18.6	94.12	3,580.1	1,959.9	3,538.4	3,390.2	148.18	23.879					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	29.0	29.0	0.0	0.0	65.00	1,870.9	4,012.3	4,427.1					
100.0	100.0	129.0	129.0	0.2	0.2	65.00	1,870.9	4,012.3	4,427.1	4,426.7	0.35	N/A		
200.0	200.0	274.3	274.3	0.3	0.5	65.00	1,871.0	4,011.9	4,426.9	4,426.1	0.78	5,655.084		
300.0	300.0	529.9	529.7	0.5	0.9	-26.90	1,873.0	4,003.1	4,423.4	4,422.0	1.41	3,129.866		
400.0	400.0	783.5	782.5	0.7	1.5	-27.14	1,877.5	3,983.4	4,414.8	4,412.7	2.07	2,130.254		
500.0	499.9	1,033.5	1,030.6	0.9	2.1	-27.52	1,884.4	3,953.3	4,401.2	4,398.4	2.78	1,582.815		
600.0	599.7	1,278.4	1,272.1	1.1	2.9	-28.04	1,893.5	3,913.7	4,382.8	4,379.3	3.55	1,233.414		
700.0	699.4	1,516.9	1,505.3	1.3	3.9	-28.69	1,904.6	3,865.5	4,359.8	4,355.4	4.40	989.805		
800.0	798.9	1,696.0	1,679.0	1.5	4.7	-29.32	1,914.3	3,823.2	4,332.5	4,327.3	5.16	839.620		
900.0	898.3	1,789.3	1,769.4	1.8	5.1	-29.75	1,919.5	3,800.2	4,303.3	4,297.6	5.66	759.758		
1,000.0	997.4	1,882.0	1,859.1	2.0	5.6	-30.21	1,924.7	3,777.5	4,272.7	4,266.5	6.18	691.340		
1,100.0	1,096.3	1,974.1	1,948.2	2.3	6.0	-30.69	1,929.9	3,754.8	4,240.8	4,234.1	6.71	631.988		
1,200.0	1,194.9	2,065.4	2,036.6	2.7	6.4	-31.20	1,935.1	3,732.4	4,207.7	4,200.4	7.26	579.939		
1,300.0	1,293.3	2,156.1	2,124.3	3.0	6.8	-31.73	1,940.2	3,710.1	4,173.2	4,165.4	7.82	533.856		
1,400.0	1,391.2	2,246.0	2,211.3	3.4	7.3	-32.30	1,945.2	3,688.0	4,137.5	4,129.1	8.40	492.715		
1,500.0	1,488.9	2,335.1	2,297.6	3.8	7.7	-32.89	1,950.3	3,666.1	4,100.7	4,091.7	9.00	455.716		
1,600.0	1,586.1	2,423.4	2,383.0	4.3	8.1	-33.51	1,955.2	3,644.4	4,062.6	4,053.0	9.62	422.231		
1,700.0	1,682.9	2,510.9	2,467.7	4.7	8.5	-34.16	1,960.2	3,622.9	4,023.4	4,013.1	10.27	391.759		
1,800.0	1,779.3	2,597.6	2,551.5	5.2	9.0	-34.85	1,965.0	3,601.7	3,983.0	3,972.1	10.95	363.900		
1,900.0	1,875.2	2,683.3	2,634.5	5.8	9.4	-35.57	1,969.9	3,580.6	3,941.6	3,929.9	11.65	338.325		
2,000.0	1,970.5	2,768.2	2,716.6	6.3	9.8	-36.32	1,974.7	3,559.7	3,899.1	3,886.7	12.39	314.769		
2,022.8	1,992.2	2,787.4	2,735.2	6.4	9.9	-36.50	1,975.7	3,555.0	3,889.3	3,876.8	12.56	309.695		
2,100.0	2,065.5	2,852.4	2,798.1	6.9	10.2	-36.88	1,979.4	3,539.1	3,856.0	3,842.9	13.13	293.674		
2,200.0	2,160.5	2,936.6	2,879.6	7.5	10.6	-37.39	1,984.1	3,518.4	3,813.2	3,799.3	13.88	274.638		
2,300.0	2,255.5	3,020.7	2,961.1	8.0	11.0	-37.90	1,988.9	3,497.7	3,770.6	3,756.0	14.65	257.314		
2,400.0	2,350.5	3,104.9	3,042.5	8.6	11.4	-38.43	1,993.6	3,477.0	3,728.3	3,712.9	15.44	241.502		
2,500.0	2,445.5	3,189.1	3,124.0	9.2	11.8	-38.97	1,998.4	3,456.3	3,686.4	3,670.1	16.24	227.028		
2,600.0	2,540.4	3,273.3	3,205.4	9.8	12.2	-39.51	2,003.1	3,435.7	3,644.7	3,627.7	17.05	213.744		
2,700.0	2,635.4	3,357.5	3,286.9	10.4	12.6	-40.07	2,007.9	3,415.0	3,603.4	3,585.5	17.88	201.522		
2,800.0	2,730.4	3,441.6	3,368.4	11.0	13.0	-40.64	2,012.6	3,394.3	3,562.4	3,543.7	18.72	190.251		
2,900.0	2,825.4	3,525.8	3,449.8	11.6	13.4	-41.22	2,017.3	3,373.6	3,521.8	3,502.2	19.58	179.833		
3,000.0	2,920.4	3,610.0	3,531.3	12.2	13.8	-41.81	2,022.1	3,352.9	3,481.5	3,461.1	20.46	170.185		
3,100.0	3,015.4	3,694.2	3,612.7	12.8	14.2	-42.41	2,026.8	3,332.3	3,441.6	3,420.3	21.35	161.231		
3,200.0	3,110.3	3,778.3	3,694.2	13.3	14.6	-43.03	2,031.6	3,311.6	3,402.1	3,379.9	22.25	152.907		
3,300.0	3,205.3	3,862.5	3,775.7	13.9	15.0	-43.65	2,036.3	3,290.9	3,363.0	3,339.8	23.17	145.157		
3,400.0	3,300.3	3,946.7	3,857.1	14.5	15.5	-44.29	2,041.0	3,270.2	3,324.3	3,300.2	24.10	137.929		
3,500.0	3,395.3	4,030.9	3,938.6	15.1	15.9	-44.94	2,045.8	3,249.5	3,286.1	3,261.0	25.05	131.178		
3,600.0	3,490.3	4,115.1	4,020.1	15.7	16.3	-45.60	2,050.5	3,228.8	3,248.2	3,222.2	26.01	124.865		
3,700.0	3,585.2	4,199.2	4,101.5	16.3	16.7	-46.28	2,055.3	3,208.2	3,210.9	3,183.9	26.99	118.954		
3,800.0	3,680.2	4,283.4	4,183.0	16.9	17.1	-46.97	2,060.0	3,187.5	3,174.0	3,146.0	27.99	113.413		
3,900.0	3,775.2	4,367.6	4,264.4	17.5	17.5	-47.67	2,064.8	3,166.8	3,137.7	3,108.7	28.99	108.214		
4,000.0	3,870.2	4,451.8	4,345.9	18.1	17.9	-48.39	2,069.5	3,146.1	3,101.8	3,071.8	30.02	103.330		
4,100.0	3,965.2	4,536.0	4,427.4	18.7	18.3	-49.12	2,074.2	3,125.4	3,066.5	3,035.4	31.06	98.739		
4,200.0	4,060.2	4,620.1	4,508.8	19.3	18.7	-49.86	2,079.0	3,104.8	3,031.7	2,999.6	32.11	94.420		
4,300.0	4,155.1	4,704.3	4,590.3	19.9	19.1	-50.62	2,083.7	3,084.1	2,997.5	2,964.3	33.18	90.353		
4,400.0	4,250.1	4,788.5	4,671.7	20.5	19.5	-51.39	2,088.5	3,063.4	2,963.8	2,929.6	34.26	86.521		
4,500.0	4,345.1	4,872.7	4,753.2	21.1	19.9	-52.17	2,093.2	3,042.7	2,930.8	2,895.5	35.35	82.909		
4,600.0	4,440.1	4,956.9	4,834.7	21.7	20.3	-52.97	2,097.9	3,022.0	2,898.4	2,862.0	36.46	79.502		
4,700.0	4,535.1	5,041.0	4,916.1	22.3	20.7	-53.78	2,102.7	3,001.4	2,866.7	2,829.1	37.58	76.287		
4,800.0	4,630.1	5,125.2	4,997.6	22.9	21.2	-54.61	2,107.4	2,980.7	2,835.6	2,796.9	38.71	73.252		
4,900.0	4,725.0	5,209.4	5,079.1	23.5	21.6	-55.45	2,112.2	2,960.0	2,805.3	2,765.4	39.86	70.386		
5,000.0	4,820.0	5,293.6	5,160.5	24.1	22.0	-56.31	2,116.9	2,939.3	2,775.6	2,734.6	41.01	67.678		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	4,915.0	5,377.8	5,242.0	24.6	22.4	-57.17	2,121.7	2,918.6	2,746.7	2,704.5	42.18	65.121		
5,200.0	5,010.0	9,686.8	7,530.0	25.2	48.0	-8.44	-40.0	2,338.1	2,706.2	2,663.9	42.27	64.018		
5,300.0	5,105.0	9,687.8	7,530.0	25.8	48.0	-8.19	-41.0	2,338.1	2,606.5	2,564.0	42.57	61.230		
5,400.0	5,199.9	9,688.8	7,530.0	26.4	48.0	-7.95	-42.0	2,338.1	2,506.9	2,464.1	42.87	58.482		
5,500.0	5,294.9	9,689.8	7,530.0	27.0	48.1	-7.70	-43.0	2,338.1	2,407.4	2,364.2	43.16	55.774		
5,600.0	5,389.9	9,690.8	7,530.0	27.6	48.1	-7.45	-44.0	2,338.1	2,307.8	2,264.4	43.46	53.105		
5,700.0	5,484.9	9,691.8	7,530.0	28.2	48.1	-7.20	-45.0	2,338.1	2,208.3	2,164.6	43.75	50.475		
5,800.0	5,579.9	9,692.8	7,530.0	28.8	48.1	-6.96	-46.0	2,338.1	2,108.9	2,064.8	44.04	47.881		
5,900.0	5,674.9	9,693.7	7,530.0	29.4	48.1	-6.71	-46.9	2,338.1	2,009.5	1,965.2	44.34	45.324		
6,000.0	5,769.8	9,694.7	7,530.0	30.0	48.1	-6.46	-47.9	2,338.1	1,910.2	1,865.5	44.63	42.802		
6,100.0	5,864.8	9,695.7	7,530.0	30.6	48.1	-6.21	-48.9	2,338.1	1,810.9	1,766.0	44.92	40.316		
6,200.0	5,959.8	9,696.7	7,530.0	31.2	48.1	-5.96	-49.9	2,338.1	1,711.7	1,666.5	45.21	37.863		
6,300.0	6,054.8	9,697.7	7,530.0	31.8	48.2	-5.71	-50.9	2,338.1	1,612.7	1,567.2	45.50	35.445		
6,400.0	6,149.8	9,698.7	7,530.0	32.4	48.2	-5.46	-51.9	2,338.1	1,513.7	1,467.9	45.79	33.060		
6,500.0	6,244.7	9,699.7	7,530.0	33.0	48.2	-5.21	-52.9	2,338.1	1,414.9	1,368.8	46.08	30.708		
6,600.0	6,339.7	9,700.6	7,530.0	33.6	48.2	-4.96	-53.8	2,338.1	1,316.3	1,269.9	46.36	28.390		
6,700.0	6,434.7	9,701.6	7,530.0	34.2	48.2	-4.71	-54.8	2,338.1	1,217.9	1,171.3	46.65	26.105		
6,800.0	6,529.7	9,702.6	7,530.0	34.8	48.2	-4.46	-55.8	2,338.1	1,119.8	1,072.9	46.94	23.855		
6,900.0	6,624.7	9,703.6	7,530.0	35.4	48.2	-4.21	-56.8	2,338.1	1,022.1	974.8	47.23	21.639		
7,000.0	6,719.7	9,704.6	7,530.0	36.0	48.2	-3.96	-57.8	2,338.1	924.8	877.3	47.52	19.461		
7,100.0	6,814.6	9,705.6	7,530.0	36.6	48.3	-3.71	-58.8	2,338.1	828.2	780.4	47.81	17.323		
7,200.0	6,909.6	9,706.6	7,530.0	37.2	48.3	-3.46	-59.8	2,338.1	732.5	684.4	48.10	15.229		
7,225.4	6,933.7	9,706.8	7,530.0	37.3	48.3	-3.40	-60.0	2,338.1	708.4	660.2	48.17	14.705		
7,250.0	6,957.1	9,706.5	7,530.0	37.5	48.3	11.12	-59.7	2,338.1	685.1	633.6	51.49	13.306		
7,300.0	7,004.6	9,702.7	7,530.0	37.8	48.2	37.67	-55.9	2,338.1	638.4	579.3	59.06	10.810		
7,350.0	7,051.7	9,694.6	7,530.0	38.0	48.1	58.88	-47.8	2,338.1	592.8	528.1	64.77	9.153		
7,400.0	7,098.0	9,682.2	7,530.0	38.3	48.0	74.66	-35.4	2,338.1	548.9	480.8	68.09	8.061		
7,450.0	7,143.3	9,665.7	7,530.0	38.5	47.8	85.94	-18.9	2,338.1	507.1	437.5	69.56	7.290		
7,500.0	7,187.1	9,645.1	7,530.0	38.8	47.5	93.76	1.7	2,338.1	467.9	398.2	69.69	6.714		
7,550.0	7,229.2	9,620.7	7,530.0	39.0	47.2	98.98	26.1	2,338.1	431.8	363.0	68.82	6.274		
7,600.0	7,269.2	9,592.6	7,530.0	39.2	46.8	102.20	54.2	2,338.1	399.3	332.1	67.20	5.942		
7,650.0	7,306.8	9,561.0	7,530.0	39.4	46.4	103.85	85.8	2,338.1	370.8	305.8	64.99	5.705		
7,700.0	7,341.7	9,526.2	7,530.0	39.6	46.0	104.26	120.6	2,338.1	346.5	284.1	62.37	5.556		
7,750.0	7,373.7	9,488.4	7,530.0	39.8	45.6	103.67	158.4	2,338.1	326.7	267.2	59.48	5.492 SF		
7,800.0	7,402.5	9,447.9	7,530.0	39.9	45.1	102.32	198.9	2,338.1	311.3	254.8	56.50	5.510		
7,850.0	7,427.9	9,405.1	7,530.0	40.1	44.6	100.42	241.7	2,338.1	300.1	246.5	53.58	5.601		
7,900.0	7,449.7	9,360.2	7,530.0	40.2	44.0	98.23	286.6	2,338.1	292.8	241.9	50.86	5.757		
7,950.0	7,467.8	9,313.6	7,530.0	40.4	43.5	95.98	333.2	2,338.1	288.7	240.3	48.41	5.964 ES		
8,000.0	7,481.9	9,265.6	7,530.0	40.6	43.0	93.89	381.2	2,338.1	287.4	241.1	46.29	6.209		
8,003.1	7,482.6	9,262.6	7,530.0	40.6	42.9	93.77	384.2	2,338.1	287.4	241.2	46.17	6.225 CC		
8,050.0	7,492.0	9,216.7	7,530.0	40.7	42.4	92.15	430.1	2,338.1	288.3	243.8	44.45	6.485		
8,100.0	7,498.1	9,167.2	7,530.0	40.9	41.9	90.89	479.6	2,338.1	290.9	248.1	42.86	6.789		
8,148.1	7,500.0	9,119.2	7,530.0	41.0	41.4	90.20	527.6	2,338.1	294.9	253.4	41.47	7.111		
8,200.0	7,500.0	9,067.6	7,530.0	41.2	40.8	90.19	579.2	2,338.0	299.9	258.7	41.17	7.283		
8,300.0	7,500.0	8,968.1	7,530.0	41.5	39.8	90.19	678.7	2,338.0	309.4	268.7	40.73	7.597		
8,400.0	7,500.0	8,868.5	7,530.0	42.0	38.9	90.18	778.3	2,338.0	319.0	278.6	40.44	7.887		
8,500.0	7,500.0	8,769.0	7,530.0	42.5	38.0	90.18	877.8	2,338.0	328.6	288.3	40.31	8.152		
8,600.0	7,500.0	8,669.5	7,530.0	43.1	37.2	90.17	977.3	2,338.0	338.1	297.8	40.30	8.390		
8,700.0	7,500.0	8,569.9	7,530.0	43.7	36.4	90.17	1,076.9	2,338.0	347.7	307.3	40.44	8.598		
8,800.0	7,500.0	8,470.4	7,530.0	44.4	35.7	90.16	1,176.4	2,337.9	357.3	316.6	40.72	8.775		
8,900.0	7,500.0	8,370.8	7,530.0	45.2	35.1	90.16	1,276.0	2,337.9	366.8	325.7	41.14	8.917		
9,000.0	7,500.0	8,271.3	7,530.0	46.0	34.5	90.15	1,375.5	2,337.9	376.4	334.7	41.73	9.021		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	8,171.7	7,530.0	46.9	34.1	90.15	1,475.1	2,337.9	386.0	343.5	42.48	9.087		
9,200.0	7,500.0	8,081.6	7,526.9	47.8	33.7	89.69	1,565.1	2,338.7	396.5	353.0	43.48	9.118		
9,300.0	7,500.0	8,000.0	7,514.9	48.8	33.4	88.00	1,645.7	2,341.7	410.2	365.5	44.65	9.186		
9,400.0	7,500.0	7,916.0	7,493.4	49.8	33.1	85.12	1,726.7	2,347.2	428.1	382.2	45.88	9.329		
9,500.0	7,500.0	7,841.6	7,466.7	50.8	32.9	81.78	1,795.8	2,353.9	451.4	404.3	47.11	9.581		
9,600.0	7,500.0	7,774.0	7,436.6	51.9	32.7	78.26	1,855.8	2,361.5	481.2	432.9	48.28	9.967		
9,700.0	7,500.0	7,713.4	7,405.1	53.1	32.5	74.83	1,906.9	2,369.5	518.1	468.8	49.28	10.513		
9,803.1	7,500.0	7,650.0	7,367.8	54.3	32.4	71.11	1,957.2	2,379.0	563.8	513.6	50.21	11.230		
9,900.0	7,500.0	7,611.7	7,343.1	55.4	32.3	68.85	1,985.9	2,385.3	613.3	562.1	51.17	11.984		
10,000.0	7,500.0	7,569.4	7,314.3	56.6	32.1	66.36	2,016.0	2,392.6	670.6	618.6	52.03	12.889		
10,100.0	7,500.0	7,532.0	7,287.4	57.9	32.1	64.20	2,041.0	2,399.4	733.4	680.6	52.86	13.874		
10,200.0	7,500.0	7,500.0	7,263.4	59.2	32.0	62.38	2,061.3	2,405.5	801.1	747.4	53.72	14.911		
10,300.0	7,500.0	7,469.3	7,239.6	60.5	31.9	60.69	2,079.6	2,411.5	872.8	818.3	54.54	16.003		
10,400.0	7,500.0	7,450.0	7,224.2	61.8	31.8	59.64	2,090.7	2,415.4	948.1	892.5	55.56	17.065		
10,500.0	7,500.0	7,419.5	7,199.4	63.1	31.8	58.04	2,107.2	2,421.7	1,026.2	969.9	56.27	18.237		
10,600.0	7,500.0	7,400.0	7,183.1	64.5	31.7	57.04	2,117.2	2,425.9	1,106.9	1,049.7	57.21	19.349		
10,703.1	7,500.0	7,378.7	7,165.1	65.9	31.6	55.97	2,127.6	2,430.4	1,192.3	1,134.2	58.11	20.520		
10,800.0	7,500.0	7,350.0	7,140.4	67.3	31.6	55.42	2,140.7	2,436.7	1,274.1	1,214.6	59.47	21.425		
10,900.0	7,500.0	7,350.0	7,140.4	68.8	31.6	56.33	2,140.7	2,436.7	1,359.1	1,297.4	61.71	22.024		
11,000.0	7,500.0	7,331.3	7,123.9	70.2	31.5	56.37	2,148.7	2,440.9	1,445.0	1,381.6	63.46	22.769		
11,100.0	7,500.0	7,317.7	7,111.9	71.7	31.5	56.69	2,154.2	2,443.9	1,531.6	1,466.2	65.39	23.422		
11,200.0	7,500.0	7,300.0	7,096.1	73.3	31.4	56.85	2,161.0	2,447.9	1,618.7	1,551.5	67.22	24.081		
11,253.1	7,500.0	7,300.0	7,096.1	74.1	31.4	57.37	2,161.0	2,447.9	1,665.2	1,596.7	68.48	24.317		
11,300.0	7,500.0	7,300.0	7,096.1	74.8	31.4	57.37	2,161.0	2,447.9	1,706.4	1,637.2	69.15	24.676		
11,400.0	7,500.0	7,300.0	7,096.1	76.3	31.4	57.37	2,161.0	2,447.9	1,795.2	1,724.6	70.59	25.431		
11,500.0	7,500.0	7,272.6	7,071.3	77.9	31.3	56.15	2,170.8	2,454.2	1,884.5	1,813.3	71.17	26.479		
11,600.0	7,500.0	7,250.0	7,050.6	79.5	31.2	55.17	2,178.1	2,459.5	1,975.1	1,903.2	71.87	27.482		
11,700.0	7,500.0	7,250.0	7,050.6	81.0	31.2	55.17	2,178.1	2,459.5	2,066.1	1,992.8	73.28	28.195		
11,800.0	7,500.0	7,250.0	7,050.6	82.6	31.2	55.17	2,178.1	2,459.5	2,157.8	2,083.2	74.69	28.892		
11,900.0	7,500.0	7,250.0	7,050.6	84.2	31.2	55.17	2,178.1	2,459.5	2,250.3	2,174.2	76.10	29.571		
12,000.0	7,500.0	7,250.0	7,050.6	85.8	31.2	55.17	2,178.1	2,459.5	2,343.4	2,265.9	77.51	30.233		
12,100.0	7,500.0	7,225.4	7,027.7	87.4	31.2	54.14	2,185.4	2,465.3	2,436.6	2,358.5	78.04	31.220		
12,200.0	7,500.0	7,200.0	7,004.0	89.0	31.1	53.11	2,191.9	2,471.3	2,530.7	2,452.2	78.52	32.229		
12,300.0	7,500.0	7,200.0	7,004.0	90.6	31.1	53.11	2,191.9	2,471.3	2,624.8	2,544.9	79.90	32.849		
12,400.0	7,500.0	7,200.0	7,004.0	92.2	31.1	53.11	2,191.9	2,471.3	2,719.3	2,638.0	81.29	33.453		
12,500.0	7,500.0	7,200.0	7,004.0	93.8	31.1	53.11	2,191.9	2,471.3	2,814.2	2,731.5	82.67	34.041		
12,600.0	7,500.0	7,200.0	7,004.0	95.5	31.1	53.11	2,191.9	2,471.3	2,909.4	2,825.3	84.05	34.613		
12,700.0	7,500.0	7,200.0	7,004.0	97.1	31.1	53.11	2,191.9	2,471.3	3,004.9	2,919.5	85.44	35.170		
12,800.0	7,500.0	7,200.0	7,004.0	98.7	31.1	53.11	2,191.9	2,471.3	3,100.7	3,013.9	86.82	35.712		
12,900.0	7,500.0	7,200.0	7,004.0	100.4	31.1	53.11	2,191.9	2,471.3	3,196.8	3,108.6	88.21	36.240		
13,000.0	7,500.0	7,200.0	7,004.0	102.0	31.1	53.11	2,191.9	2,471.3	3,293.1	3,203.5	89.60	36.754		
13,100.0	7,500.0	7,176.6	6,981.9	103.7	31.0	52.19	2,197.3	2,476.9	3,389.1	3,299.1	89.99	37.662		
13,200.0	7,500.0	7,172.9	6,978.4	105.3	31.0	52.05	2,198.0	2,477.8	3,485.7	3,394.5	91.20	38.218		
13,300.0	7,500.0	7,150.0	6,956.6	107.0	30.9	51.18	2,202.4	2,483.3	3,582.7	3,491.1	91.58	39.120		
13,400.0	7,500.0	7,150.0	6,956.6	108.6	30.9	51.18	2,202.4	2,483.3	3,679.5	3,586.6	92.94	39.591		
13,500.0	7,500.0	7,150.0	6,956.6	110.3	30.9	51.18	2,202.4	2,483.3	3,776.5	3,682.2	94.29	40.051		
13,600.0	7,500.0	7,150.0	6,956.6	111.9	30.9	51.18	2,202.4	2,483.3	3,873.6	3,777.9	95.65	40.498		
13,700.0	7,500.0	7,150.0	6,956.6	113.6	30.9	51.18	2,202.4	2,483.3	3,970.8	3,873.8	97.00	40.935		
13,753.1	7,500.0	7,150.0	6,956.6	114.5	30.9	51.18	2,202.4	2,483.3	4,022.6	3,924.8	97.72	41.162		
13,800.0	7,500.0	7,150.0	6,956.6	115.3	30.9	52.53	2,202.4	2,483.3	4,068.2	3,968.0	100.15	40.619		
13,900.0	7,500.0	7,150.0	6,956.6	117.0	30.9	55.19	2,202.4	2,483.3	4,165.3	4,060.3	105.01	39.665		
14,000.0	7,500.0	7,150.0	6,956.6	118.7	30.9	57.59	2,202.4	2,483.3	4,262.3	4,152.8	109.47	38.934		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - 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
14,100.0	7,500.0	7,150.0	6,956.6	120.4	30.9	59.74	2,202.4	2,483.3	4,359.0	4,245.4	113.59	38.375	
14,200.0	7,500.0	7,150.0	6,956.6	122.1	30.9	61.69	2,202.4	2,483.3	4,455.4	4,338.0	117.40	37.949	
14,300.0	7,500.0	7,150.0	6,956.6	123.8	30.9	63.45	2,202.4	2,483.3	4,551.5	4,430.5	120.96	37.627	
14,400.0	7,500.0	7,150.0	6,956.6	125.6	30.9	65.04	2,202.4	2,483.3	4,647.3	4,523.0	124.30	37.386	
14,500.0	7,500.0	7,150.0	6,956.6	127.3	30.9	66.49	2,202.4	2,483.3	4,742.8	4,615.3	127.45	37.212	
14,600.0	7,500.0	7,150.0	6,956.6	129.1	30.9	67.80	2,202.4	2,483.3	4,837.9	4,707.5	130.44	37.089	
14,683.9	7,500.0	7,150.0	6,956.6	130.5	30.9	68.82	2,202.4	2,483.3	4,917.4	4,784.6	132.83	37.020	
14,700.0	7,500.0	7,150.0	6,956.6	130.8	30.9	68.82	2,202.4	2,483.3	4,932.7	4,799.6	133.10	37.061	
14,756.3	7,500.0	7,150.0	6,956.6	131.8	30.9	68.82	2,202.4	2,483.3	4,986.0	4,852.0	134.02	37.203	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	29.0	29.0	0.0	0.0	65.06	1,870.9	4,022.4	4,436.2					
100.0	100.0	129.0	129.0	0.2	0.2	65.06	1,870.9	4,022.4	4,436.2	4,435.9	0.35	N/A		
200.0	200.0	229.0	229.0	0.3	0.4	65.06	1,870.9	4,022.4	4,436.2	4,435.5	0.70	6,307.099		
300.0	300.0	444.3	444.3	0.5	0.8	-26.79	1,871.7	4,019.2	4,434.4	4,433.1	1.26	3,530.642		
400.0	400.0	689.1	688.6	0.7	1.2	-26.97	1,875.2	4,006.2	4,427.8	4,426.0	1.88	2,357.434		
500.0	499.9	931.1	929.5	0.9	1.8	-27.28	1,881.3	3,983.3	4,416.5	4,414.0	2.54	1,740.288		
600.0	599.7	1,168.9	1,165.0	1.1	2.5	-27.73	1,889.9	3,951.4	4,400.5	4,397.2	3.25	1,353.318		
700.0	699.4	1,401.3	1,393.6	1.3	3.3	-28.31	1,900.7	3,911.0	4,379.9	4,375.9	4.03	1,085.916		
800.0	798.9	1,532.4	1,521.8	1.5	3.8	-28.75	1,907.7	3,884.8	4,355.8	4,351.2	4.59	948.521		
900.0	898.3	1,627.2	1,614.5	1.8	4.1	-29.13	1,912.9	3,865.5	4,330.2	4,325.1	5.06	855.652		
1,000.0	997.4	1,721.5	1,706.6	2.0	4.5	-29.53	1,918.0	3,846.4	4,303.1	4,297.6	5.54	776.757		
1,100.0	1,096.3	1,815.1	1,798.2	2.3	4.9	-29.95	1,923.1	3,827.4	4,274.8	4,268.7	6.03	708.813		
1,200.0	1,194.9	1,908.2	1,889.2	2.7	5.3	-30.40	1,928.1	3,808.5	4,245.0	4,238.5	6.53	649.600		
1,300.0	1,293.3	2,000.6	1,979.5	3.0	5.6	-30.88	1,933.1	3,789.7	4,214.0	4,206.9	7.05	597.455		
1,400.0	1,391.2	2,092.3	2,069.2	3.4	6.0	-31.38	1,938.1	3,771.1	4,181.6	4,174.0	7.59	551.108		
1,500.0	1,488.9	2,183.3	2,158.2	3.8	6.4	-31.91	1,943.1	3,752.6	4,148.0	4,139.8	8.14	509.589		
1,600.0	1,586.1	2,273.6	2,246.5	4.3	6.7	-32.47	1,948.0	3,734.3	4,113.1	4,104.4	8.71	472.134		
1,700.0	1,682.9	2,363.1	2,334.0	4.7	7.1	-33.05	1,952.8	3,716.2	4,077.0	4,067.7	9.31	438.140		
1,800.0	1,779.3	2,451.9	2,420.8	5.2	7.5	-33.67	1,957.6	3,698.1	4,039.7	4,029.8	9.92	407.122		
1,900.0	1,875.2	2,539.8	2,506.8	5.8	7.8	-34.31	1,962.4	3,680.3	4,001.3	3,990.7	10.57	378.694		
2,000.0	1,970.5	2,626.9	2,591.9	6.3	8.2	-34.99	1,967.1	3,662.6	3,961.7	3,950.5	11.24	352.538		
2,022.8	1,992.2	2,646.6	2,611.2	6.4	8.3	-35.15	1,968.2	3,658.6	3,952.6	3,941.2	11.39	346.906		
2,100.0	2,065.5	2,713.4	2,676.5	6.9	8.5	-35.50	1,971.8	3,645.1	3,921.5	3,909.6	11.92	328.976		
2,200.0	2,160.5	2,799.9	2,761.0	7.5	8.9	-35.96	1,976.5	3,627.5	3,881.4	3,868.8	12.61	307.711		
2,300.0	2,255.5	2,886.3	2,845.5	8.0	9.2	-36.42	1,981.2	3,610.0	3,841.6	3,828.3	13.32	288.393		
2,400.0	2,350.5	2,972.8	2,930.1	8.6	9.6	-36.90	1,985.9	3,592.4	3,802.0	3,788.0	14.04	270.788		
2,500.0	2,445.5	3,059.3	3,014.6	9.2	9.9	-37.38	1,990.6	3,574.9	3,762.7	3,747.9	14.77	254.695		
2,600.0	2,540.4	3,145.7	3,099.1	9.8	10.3	-37.88	1,995.3	3,557.3	3,723.7	3,708.1	15.52	239.943		
2,700.0	2,635.4	3,232.2	3,183.7	10.4	10.7	-38.38	2,000.0	3,539.8	3,684.9	3,668.6	16.28	226.382		
2,800.0	2,730.4	3,318.7	3,268.2	11.0	11.0	-38.89	2,004.7	3,522.2	3,646.4	3,629.3	17.05	213.885		
2,900.0	2,825.4	3,405.1	3,352.7	11.6	11.4	-39.41	2,009.4	3,504.7	3,608.2	3,590.3	17.83	202.340		
3,000.0	2,920.4	3,491.6	3,437.3	12.2	11.7	-39.94	2,014.1	3,487.1	3,570.2	3,551.6	18.63	191.652		
3,100.0	3,015.4	3,578.0	3,521.8	12.8	12.1	-40.49	2,018.8	3,469.6	3,532.6	3,513.2	19.44	181.735		
3,200.0	3,110.3	3,664.5	3,606.3	13.3	12.4	-41.04	2,023.5	3,452.0	3,495.3	3,475.1	20.26	172.518		
3,300.0	3,205.3	3,751.0	3,690.9	13.9	12.8	-41.60	2,028.2	3,434.5	3,458.4	3,437.3	21.10	163.934		
3,400.0	3,300.3	3,837.4	3,775.4	14.5	13.1	-42.17	2,032.9	3,417.0	3,421.7	3,399.8	21.94	155.926		
3,500.0	3,395.3	3,923.9	3,860.0	15.1	13.5	-42.75	2,037.5	3,399.4	3,385.5	3,362.7	22.81	148.445		
3,600.0	3,490.3	4,010.4	3,944.5	15.7	13.8	-43.35	2,042.2	3,381.9	3,349.6	3,325.9	23.68	141.446		
3,700.0	3,585.2	4,096.8	4,029.0	16.3	14.2	-43.95	2,046.9	3,364.3	3,314.0	3,289.4	24.57	134.888		
3,800.0	3,680.2	4,183.3	4,113.6	16.9	14.6	-44.57	2,051.6	3,346.8	3,278.8	3,253.4	25.47	128.735		
3,900.0	3,775.2	4,269.8	4,198.1	17.5	14.9	-45.19	2,056.3	3,329.2	3,244.1	3,217.7	26.38	122.957		
4,000.0	3,870.2	4,356.2	4,282.6	18.1	15.3	-45.83	2,061.0	3,311.7	3,209.7	3,182.4	27.31	117.523		
4,100.0	3,965.2	4,442.7	4,367.2	18.7	15.6	-46.48	2,065.7	3,294.1	3,175.8	3,147.5	28.25	112.410		
4,200.0	4,060.2	4,529.2	4,451.7	19.3	16.0	-47.14	2,070.4	3,276.6	3,142.3	3,113.1	29.21	107.592		
4,300.0	4,155.1	4,615.6	4,536.2	19.9	16.3	-47.81	2,075.1	3,259.0	3,109.3	3,079.1	30.17	103.049		
4,400.0	4,250.1	4,702.1	4,620.8	20.5	16.7	-48.50	2,079.8	3,241.5	3,076.7	3,045.5	31.15	98.763		
4,500.0	4,345.1	4,788.6	4,705.3	21.1	17.0	-49.20	2,084.5	3,223.9	3,044.6	3,012.4	32.14	94.715		
4,600.0	4,440.1	4,875.0	4,789.8	21.7	17.4	-49.91	2,089.2	3,206.4	3,013.0	2,979.8	33.15	90.889		
4,700.0	4,535.1	4,961.5	4,874.4	22.3	17.8	-50.63	2,093.9	3,188.8	2,981.9	2,947.7	34.17	87.272		
4,800.0	4,630.1	5,047.9	4,958.9	22.9	18.1	-51.36	2,098.6	3,171.3	2,951.3	2,916.1	35.20	83.851		
4,900.0	4,725.0	5,134.4	5,043.4	23.5	18.5	-52.11	2,103.3	3,153.7	2,921.3	2,885.1	36.24	80.612		
5,000.0	4,820.0	5,220.9	5,128.0	24.1	18.8	-52.87	2,108.0	3,136.2	2,891.9	2,854.6	37.29	77.545		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	5,307.3	5,212.5	24.6	19.2	-53.64	2,112.7	3,118.6	2,863.0	2,824.6	38.36	74.639		
5,200.0	5,010.0	5,393.8	5,297.0	25.2	19.5	-54.43	2,117.3	3,101.1	2,834.7	2,795.3	39.43	71.886		
5,300.0	5,105.0	5,480.3	5,381.6	25.8	19.9	-55.22	2,122.0	3,083.6	2,807.0	2,766.5	40.52	69.276		
5,400.0	5,199.9	5,566.7	5,466.1	26.4	20.3	-56.03	2,126.7	3,066.0	2,780.0	2,738.4	41.62	66.802		
5,500.0	5,294.9	5,653.2	5,553.6	27.0	20.7	-56.84	2,131.4	3,048.2	2,752.6	2,702.6	42.73	63.918		
5,600.0	5,389.9	5,740.7	5,648.1	27.6	21.1	-57.65	2,136.1	3,030.4	2,726.8	2,676.8	43.84	61.034		
5,700.0	5,484.9	5,827.2	5,734.6	28.2	21.5	-58.46	2,140.8	3,012.6	2,701.0	2,651.0	44.95	58.150		
5,800.0	5,579.9	5,913.7	5,822.1	28.8	21.9	-59.27	2,145.5	3,000.0	2,675.2	2,625.2	46.06	55.266		
5,900.0	5,674.9	6,000.2	5,917.6	29.4	22.3	-60.08	2,150.2	2,987.4	2,649.4	2,599.4	47.17	52.382		
6,000.0	5,769.9	6,086.7	5,993.1	30.0	22.7	-60.89	2,154.9	2,974.6	2,623.6	2,573.6	48.28	49.498		
6,100.0	5,864.9	6,173.2	6,078.6	30.6	23.1	-61.70	2,159.6	2,961.8	2,597.8	2,547.8	49.39	46.614		
6,200.0	5,959.9	6,259.7	6,164.1	31.2	23.5	-62.51	2,164.3	2,949.0	2,572.0	2,522.0	50.50	43.730		
6,300.0	6,054.9	6,346.2	6,259.6	31.8	23.9	-63.32	2,169.0	2,936.2	2,546.2	2,496.2	51.61	40.846		
6,400.0	6,149.9	6,432.7	6,345.1	32.4	24.3	-64.13	2,173.7	2,923.4	2,520.4	2,470.4	52.72	37.962		
6,500.0	6,244.9	6,519.2	6,430.6	33.0	24.7	-64.94	2,178.4	2,910.6	2,494.6	2,444.6	53.83	35.078		
6,600.0	6,339.9	6,605.7	6,515.1	33.6	25.1	-65.75	2,183.1	2,897.8	2,468.8	2,418.8	54.94	32.194		
6,700.0	6,434.9	6,692.2	6,600.6	34.2	25.5	-66.56	2,187.8	2,885.0	2,443.0	2,393.0	56.05	29.310		
6,800.0	6,529.9	6,778.7	6,686.1	34.8	25.9	-67.37	2,192.5	2,872.2	2,417.2	2,367.2	57.16	26.426		
6,900.0	6,624.9	6,865.2	6,771.6	35.4	26.3	-68.18	2,197.2	2,859.4	2,391.4	2,341.4	58.27	23.542		
7,000.0	6,719.9	6,951.7	6,857.1	36.0	26.7	-68.99	2,201.9	2,846.6	2,365.6	2,315.6	59.38	20.658		
7,100.0	6,814.9	7,038.2	6,942.6	36.6	27.1	-69.80	2,206.6	2,833.8	2,339.8	2,289.8	60.49	17.774		
7,200.0	6,909.9	7,124.7	7,038.1	37.2	27.5	-70.61	2,211.3	2,821.0	2,314.0	2,264.0	61.60	14.890		
7,225.4	6,933.7	7,149.1	7,062.5	37.3	27.6	-70.75	2,213.1	2,818.2	2,311.2	2,261.2	61.85	14.646		
7,250.0	6,957.1	7,173.5	7,086.9	37.5	27.7	-70.89	2,214.9	2,815.4	2,308.4	2,258.4	62.10	14.402		
7,300.0	7,004.6	7,221.0	7,134.4	37.8	28.0	-71.41	2,219.6	2,809.9	2,292.9	2,242.9	62.62	13.906		
7,350.0	7,051.7	7,268.1	7,181.5	38.0	28.3	-71.93	2,224.3	2,804.4	2,277.4	2,227.4	63.14	13.410		
7,400.0	7,098.0	7,315.2	7,228.6	38.3	28.6	-72.45	2,229.0	2,798.9	2,261.9	2,211.9	63.66	12.914		
7,450.0	7,143.3	7,362.3	7,273.9	38.5	28.9	-72.97	2,233.7	2,793.4	2,246.4	2,196.4	64.18	12.418		
7,500.0	7,187.1	7,408.4	7,318.1	38.8	29.2	-73.49	2,238.4	2,787.9	2,230.9	2,180.9	64.70	11.922		
7,550.0	7,229.2	7,454.5	7,362.2	39.0	29.5	-74.01	2,243.1	2,782.4	2,215.4	2,165.4	65.22	11.426		
7,600.0	7,269.2	7,500.6	7,406.2	39.2	29.8	-74.53	2,247.8	2,776.9	2,200.0	2,149.9	65.74	10.930		
7,650.0	7,306.8	7,546.7	7,451.8	39.4	30.1	-75.05	2,252.5	2,771.4	2,184.5	2,134.5	66.26	10.434		
7,700.0	7,341.7	7,592.8	7,497.9	39.6	30.4	-75.57	2,257.2	2,765.9	2,169.0	2,119.0	66.78	9.938		
7,750.0	7,373.7	7,638.9	7,539.9	39.8	30.7	-76.09	2,261.9	2,760.4	2,153.5	2,103.5	67.30	9.442		
7,800.0	7,402.5	7,685.0	7,586.0	39.9	31.0	-76.61	2,266.6	2,754.9	2,138.0	2,088.0	67.82	8.946		
7,850.0	7,427.9	7,731.1	7,631.4	40.1	31.3	-77.13	2,271.3	2,749.4	2,122.5	2,072.5	68.34	8.450		
7,900.0	7,449.7	7,777.2	7,677.1	40.2	31.6	-77.65	2,276.0	2,743.9	2,107.0	2,057.0	68.86	7.954		
7,950.0	7,467.8	7,823.3	7,723.2	40.4	31.9	-78.17	2,280.7	2,738.4	2,091.5	2,041.5	69.38	7.458		
8,000.0	7,481.9	7,869.4	7,769.3	40.6	32.2	-78.69	2,285.4	2,732.9	2,076.0	2,026.0	69.90	6.962		
8,050.0	7,492.0	7,915.5	7,815.4	40.7	32.5	-79.21	2,290.1	2,727.4	2,060.5	2,010.5	70.42	6.466		
8,074.6	7,495.5	7,940.9	7,840.8	40.8	32.6	-79.35	2,291.7	2,726.0	2,058.9	2,009.1	70.55	6.417		
8,100.0	7,498.1	7,966.0	7,866.0	40.9	32.7	-79.49	2,293.3	2,724.6	2,057.3	2,007.5	70.68	6.368		
8,148.1	7,500.0	7,991.1	7,888.1	41.0	32.8	-79.63	2,295.0	2,723.2	2,055.7	2,005.9	70.81	6.319		
8,200.0	7,500.0	8,016.2	7,913.2	41.2	32.9	-79.77	2,296.6	2,721.8	2,054.1	2,004.3	70.94	6.270		
8,300.0	7,500.0	8,062.3	7,959.3	41.5	33.2	-80.29	2,301.3	2,715.8	2,038.6	1,988.8	71.46	6.174		
8,400.0	7,500.0	8,108.4	8,005.4	42.0	33.5	-80.81	2,306.0	2,709.8	2,023.1	1,973.3	71.98	6.078		
8,500.0	7,500.0	8,154.5	8,051.5	42.5	33.8	-81.33	2,310.7	2,703.8	2,007.6	1,957.8	72.50	5.982		
8,600.0	7,500.0	8,200.6	8,097.6	43.1	34.1	-81.85	2,315.4	2,697.8	1,992.1	1,942.3	73.02	5.886		
8,700.0	7,500.0	8,246.7	8,143.7	43.7	34.4	-82.37	2,320.1	2,691.8	1,976.6	1,926.8	73.54	5.790		
8,800.0	7,500.0	8,292.8	8,189.8	44.4	34.7	-82.89	2,324.8	2,685.8	1,961.1	1,911.3	74.06	5.694		
8,900.0	7,500.0	8,338.9	8,235.9	45.2	35.0	-83.41	2,329.5	2,679.8	1,945.6	1,895.8	74.58	5.598		
9,000.0	7,500.0	8,385.0	8,282.0	46.0	35.3	-83.93	2,334.2	2,673.8	1,930.1	1,880.3	75.10	5.502		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
9,100.0	7,500.0	8,354.3	7,770.0	46.9	30.3	110.84	1,475.1	2,587.9	680.1	639.2	40.95	16.608		
9,200.0	7,500.0	8,242.1	7,764.6	47.8	29.8	110.07	1,587.0	2,589.0	688.4	646.4	41.93	16.417		
9,300.0	7,500.0	8,131.1	7,742.9	48.8	29.4	107.96	1,695.7	2,593.5	694.8	651.4	43.40	16.009		
9,400.0	7,500.0	8,029.6	7,708.9	49.8	29.0	104.90	1,790.9	2,600.5	701.1	655.8	45.26	15.490		
9,500.0	7,500.0	7,940.1	7,668.1	50.8	28.8	101.37	1,870.2	2,609.0	709.2	661.9	47.31	14.990		
9,600.0	7,500.0	7,862.7	7,625.4	51.9	28.6	97.77	1,934.0	2,617.8	721.4	672.0	49.34	14.619		
9,700.0	7,500.0	7,800.0	7,586.0	53.1	28.5	94.53	1,982.1	2,626.0	739.3	688.0	51.31	14.409		
9,803.1	7,500.0	7,739.0	7,543.8	54.3	28.4	91.16	2,025.2	2,634.8	765.2	711.9	53.24	14.371		
9,900.0	7,500.0	7,692.9	7,509.7	55.4	28.3	88.51	2,055.4	2,641.8	796.7	741.7	54.94	14.502		
10,000.0	7,500.0	7,650.0	7,476.2	56.6	28.2	85.99	2,081.3	2,648.8	836.6	780.0	56.59	14.783		
10,100.0	7,500.0	7,617.2	7,449.7	57.9	28.1	84.03	2,099.8	2,654.3	883.6	825.5	58.18	15.188		
10,200.0	7,500.0	7,587.0	7,424.5	59.2	28.1	82.23	2,115.6	2,659.5	937.2	877.5	59.72	15.694		
10,300.0	7,500.0	7,550.0	7,392.8	60.5	28.0	80.02	2,133.6	2,666.1	996.6	935.5	61.14	16.301		
10,400.0	7,500.0	7,550.0	7,392.8	61.8	28.0	80.02	2,133.6	2,666.1	1,061.1	998.3	62.80	16.895		
10,500.0	7,500.0	7,517.4	7,364.3	63.1	27.9	78.09	2,148.0	2,672.0	1,129.7	1,065.5	64.16	17.607		
10,600.0	7,500.0	7,500.0	7,348.7	64.5	27.9	77.07	2,155.1	2,675.2	1,202.2	1,136.6	65.62	18.320		
10,703.1	7,500.0	7,483.0	7,333.3	65.9	27.8	76.07	2,161.7	2,678.4	1,280.4	1,213.2	67.11	19.078		
10,800.0	7,500.0	7,469.1	7,320.6	67.3	27.8	75.57	2,166.9	2,681.1	1,355.9	1,287.0	68.97	19.659		
10,900.0	7,500.0	7,450.0	7,303.1	68.8	27.8	74.83	2,173.5	2,684.7	1,435.4	1,364.6	70.81	20.270		
11,000.0	7,500.0	7,450.0	7,303.1	70.2	27.8	75.18	2,173.5	2,684.7	1,516.0	1,443.0	72.94	20.784		
11,100.0	7,500.0	7,432.9	7,287.3	71.7	27.7	74.63	2,179.0	2,688.0	1,597.6	1,522.8	74.80	21.360		
11,200.0	7,500.0	7,422.7	7,277.8	73.3	27.7	74.49	2,182.1	2,690.0	1,680.1	1,603.4	76.76	21.888		
11,253.1	7,500.0	7,417.6	7,273.0	74.1	27.7	74.44	2,183.6	2,690.9	1,724.3	1,646.5	77.81	22.161		
11,300.0	7,500.0	7,400.0	7,256.5	74.8	27.6	73.54	2,188.5	2,694.4	1,763.7	1,685.4	78.27	22.534		
11,400.0	7,500.0	7,400.0	7,256.5	76.3	27.6	73.54	2,188.5	2,694.4	1,848.3	1,768.4	79.91	23.130		
11,500.0	7,500.0	7,400.0	7,256.5	77.9	27.6	73.54	2,188.5	2,694.4	1,934.4	1,852.8	81.55	23.719		
11,600.0	7,500.0	7,400.0	7,256.5	79.5	27.6	73.54	2,188.5	2,694.4	2,021.7	1,938.5	83.20	24.299		
11,700.0	7,500.0	7,400.0	7,256.5	81.0	27.6	73.54	2,188.5	2,694.4	2,110.2	2,025.4	84.85	24.870		
11,800.0	7,500.0	7,376.0	7,233.7	82.6	27.6	72.34	2,194.6	2,699.1	2,199.2	2,113.2	85.99	25.576		
11,900.0	7,500.0	7,370.1	7,228.1	84.2	27.5	72.04	2,195.9	2,700.3	2,289.3	2,201.8	87.50	26.164		
12,000.0	7,500.0	7,350.0	7,208.9	85.8	27.5	71.05	2,200.2	2,704.3	2,380.3	2,291.6	88.66	26.846		
12,100.0	7,500.0	7,350.0	7,208.9	87.4	27.5	71.05	2,200.2	2,704.3	2,471.6	2,381.4	90.30	27.373		
12,200.0	7,500.0	7,350.0	7,208.9	89.0	27.5	71.05	2,200.2	2,704.3	2,563.7	2,471.7	91.93	27.888		
12,300.0	7,500.0	7,350.0	7,208.9	90.6	27.5	71.05	2,200.2	2,704.3	2,656.2	2,562.7	93.56	28.391		
12,400.0	7,500.0	7,350.0	7,208.9	92.2	27.5	71.05	2,200.2	2,704.3	2,749.4	2,654.2	95.20	28.881		
12,500.0	7,500.0	7,350.0	7,208.9	93.8	27.5	71.05	2,200.2	2,704.3	2,842.9	2,746.1	96.83	29.360		
12,600.0	7,500.0	7,350.0	7,208.9	95.5	27.5	71.05	2,200.2	2,704.3	2,936.9	2,838.5	98.47	29.826		
12,700.0	7,500.0	7,350.0	7,208.9	97.1	27.5	71.05	2,200.2	2,704.3	3,031.3	2,931.2	100.11	30.281		
12,800.0	7,500.0	7,350.0	7,208.9	98.7	27.5	71.05	2,200.2	2,704.3	3,126.1	3,024.3	101.74	30.725		
12,900.0	7,500.0	7,327.5	7,187.2	100.4	27.4	69.96	2,204.4	2,708.8	3,220.7	3,118.0	102.73	31.352		
13,000.0	7,500.0	7,324.4	7,184.2	102.0	27.4	69.81	2,204.9	2,709.4	3,315.9	3,211.6	104.26	31.804		
13,100.0	7,500.0	7,321.5	7,181.4	103.7	27.4	69.67	2,205.4	2,710.0	3,411.4	3,305.6	105.80	32.244		
13,200.0	7,500.0	7,300.0	7,160.6	105.3	27.3	68.65	2,208.5	2,714.3	3,507.4	3,400.6	106.74	32.858		
13,300.0	7,500.0	7,300.0	7,160.6	107.0	27.3	68.65	2,208.5	2,714.3	3,603.3	3,494.9	108.36	33.252		
13,400.0	7,500.0	7,300.0	7,160.6	108.6	27.3	68.65	2,208.5	2,714.3	3,699.3	3,589.4	109.98	33.637		
13,500.0	7,500.0	7,300.0	7,160.6	110.3	27.3	68.65	2,208.5	2,714.3	3,795.6	3,684.0	111.60	34.012		
13,600.0	7,500.0	7,300.0	7,160.6	111.9	27.3	68.65	2,208.5	2,714.3	3,892.1	3,778.9	113.21	34.378		
13,700.0	7,500.0	7,300.0	7,160.6	113.6	27.3	68.65	2,208.5	2,714.3	3,988.7	3,873.9	114.83	34.735		
13,753.1	7,500.0	7,300.0	7,160.6	114.5	27.3	68.65	2,208.5	2,714.3	4,040.2	3,924.5	115.69	34.921		
13,800.0	7,500.0	7,300.0	7,160.6	115.3	27.3	69.35	2,208.5	2,714.3	4,085.5	3,968.4	117.14	34.877		
13,900.0	7,500.0	7,300.0	7,160.6	117.0	27.3	70.73	2,208.5	2,714.3	4,182.0	4,061.9	120.10	34.820		
14,000.0	7,500.0	7,300.0	7,160.6	118.7	27.3	71.97	2,208.5	2,714.3	4,278.2	4,155.3	122.92	34.805		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - 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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
14,100.0	7,500.0	7,300.0	7,160.6	120.4	27.3	73.08	2,208.5	2,714.3	4,374.1	4,248.5	125.61	34.824					
14,200.0	7,500.0	7,300.0	7,160.6	122.1	27.3	74.09	2,208.5	2,714.3	4,469.7	4,341.5	128.19	34.869					
14,300.0	7,500.0	7,300.0	7,160.6	123.8	27.3	75.00	2,208.5	2,714.3	4,564.9	4,434.2	130.67	34.935					
14,400.0	7,500.0	7,300.0	7,160.6	125.6	27.3	75.82	2,208.5	2,714.3	4,659.7	4,526.6	133.07	35.018					
14,500.0	7,500.0	7,300.0	7,160.6	127.3	27.3	76.57	2,208.5	2,714.3	4,754.2	4,618.8	135.39	35.114					
14,600.0	7,500.0	7,300.0	7,160.6	129.1	27.3	77.26	2,208.5	2,714.3	4,848.2	4,710.6	137.65	35.222					
14,683.9	7,500.0	7,300.0	7,160.6	130.5	27.3	77.80	2,208.5	2,714.3	4,926.8	4,787.3	139.49	35.320					
14,700.0	7,500.0	7,300.0	7,160.6	130.8	27.3	77.80	2,208.5	2,714.3	4,941.9	4,802.1	139.77	35.358					
14,756.3	7,500.0	7,300.0	7,160.6	131.8	27.3	77.80	2,208.5	2,714.3	4,994.6	4,853.9	140.74	35.489					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	28.0	28.0	0.0	0.0	65.12	1,870.5	4,032.5	4,445.2					
100.0	100.0	128.0	128.0	0.2	0.2	65.12	1,870.5	4,032.5	4,445.2	4,444.8	0.35	N/A		
200.0	200.0	228.0	228.0	0.3	0.4	65.12	1,870.5	4,032.5	4,445.2	4,444.5	0.70	6,335.593		
300.0	300.0	364.0	364.0	0.5	0.6	-26.70	1,870.6	4,032.1	4,444.3	4,443.2	1.11	3,990.270		
400.0	400.0	592.0	591.8	0.7	1.0	-26.82	1,872.9	4,025.4	4,439.7	4,438.0	1.69	2,621.130		
500.0	499.9	818.1	817.4	0.9	1.5	-27.06	1,878.0	4,010.3	4,430.7	4,428.4	2.30	1,928.356		
600.0	599.7	1,041.1	1,039.1	1.1	2.0	-27.42	1,885.8	3,987.1	4,417.4	4,414.4	2.94	1,500.809		
700.0	699.4	1,260.1	1,255.6	1.3	2.7	-27.91	1,896.2	3,956.4	4,399.8	4,396.2	3.65	1,206.879		
800.0	798.9	1,387.3	1,380.9	1.5	3.1	-28.29	1,903.2	3,935.4	4,378.9	4,374.7	4.16	1,052.463		
900.0	898.3	1,483.2	1,475.3	1.8	3.4	-28.63	1,908.6	3,919.4	4,356.4	4,351.8	4.61	945.694		
1,000.0	997.4	1,578.6	1,569.2	2.0	3.7	-28.99	1,914.0	3,903.4	4,332.5	4,327.5	5.06	855.848		
1,100.0	1,096.3	1,673.4	1,662.5	2.3	4.1	-29.38	1,919.4	3,887.6	4,307.2	4,301.7	5.53	779.103		
1,200.0	1,194.9	1,767.7	1,755.3	2.7	4.4	-29.78	1,924.7	3,871.8	4,280.6	4,274.6	6.01	712.694		
1,300.0	1,293.3	1,861.4	1,847.6	3.0	4.7	-30.21	1,929.9	3,856.2	4,252.5	4,246.0	6.50	654.571		
1,400.0	1,391.2	1,954.5	1,939.2	3.4	5.0	-30.67	1,935.2	3,840.6	4,223.2	4,216.2	7.00	603.194		
1,500.0	1,488.9	2,047.0	2,030.2	3.8	5.4	-31.15	1,940.4	3,825.2	4,192.5	4,185.0	7.52	557.381		
1,600.0	1,586.1	2,138.7	2,120.5	4.3	5.7	-31.66	1,945.6	3,809.8	4,160.5	4,152.5	8.06	516.217		
1,700.0	1,682.9	2,229.8	2,210.2	4.7	6.0	-32.19	1,950.7	3,794.6	4,127.3	4,118.7	8.62	478.983		
1,800.0	1,779.3	2,320.1	2,299.1	5.2	6.3	-32.75	1,955.8	3,779.5	4,092.8	4,083.6	9.20	445.109		
1,900.0	1,875.2	2,409.7	2,387.3	5.8	6.6	-33.34	1,960.8	3,764.5	4,057.1	4,047.3	9.80	414.134		
2,000.0	1,970.5	2,498.5	2,474.7	6.3	6.9	-33.96	1,965.8	3,749.7	4,020.3	4,009.8	10.42	385.689		
2,022.8	1,992.2	2,518.6	2,494.5	6.4	7.0	-34.11	1,967.0	3,746.3	4,011.7	4,001.2	10.57	379.572		
2,100.0	2,065.5	2,586.8	2,561.5	6.9	7.3	-34.43	1,970.8	3,734.9	3,982.7	3,971.6	11.06	359.955		
2,200.0	2,160.5	2,675.0	2,648.3	7.5	7.6	-34.85	1,975.8	3,720.2	3,945.2	3,933.5	11.72	336.732		
2,300.0	2,255.5	2,763.2	2,735.2	8.0	7.9	-35.28	1,980.7	3,705.4	3,908.0	3,895.6	12.38	315.677		
2,400.0	2,350.5	2,851.4	2,822.0	8.6	8.2	-35.72	1,985.7	3,690.7	3,871.0	3,857.9	13.05	296.521		
2,500.0	2,445.5	2,939.6	2,908.8	9.2	8.5	-36.17	1,990.7	3,676.0	3,834.2	3,820.4	13.74	279.036		
2,600.0	2,540.4	3,027.8	2,995.7	9.8	8.8	-36.62	1,995.7	3,661.2	3,797.6	3,783.2	14.44	263.027		
2,700.0	2,635.4	3,116.0	3,082.5	10.4	9.1	-37.09	2,000.6	3,646.5	3,761.3	3,746.1	15.15	248.327		
2,800.0	2,730.4	3,204.2	3,169.3	11.0	9.4	-37.55	2,005.6	3,631.7	3,725.2	3,709.3	15.87	234.791		
2,900.0	2,825.4	3,292.5	3,256.2	11.6	9.8	-38.03	2,010.6	3,617.0	3,689.3	3,672.7	16.60	222.296		
3,000.0	2,920.4	3,380.7	3,343.0	12.2	10.1	-38.52	2,015.5	3,602.2	3,653.7	3,636.4	17.34	210.735		
3,100.0	3,015.4	3,468.9	3,429.8	12.8	10.4	-39.01	2,020.5	3,587.5	3,618.4	3,600.3	18.09	200.014		
3,200.0	3,110.3	3,557.1	3,516.6	13.3	10.7	-39.52	2,025.5	3,572.7	3,583.3	3,564.5	18.85	190.051		
3,300.0	3,205.3	3,645.3	3,603.5	13.9	11.0	-40.03	2,030.4	3,558.0	3,548.5	3,528.9	19.63	180.774		
3,400.0	3,300.3	3,733.5	3,690.3	14.5	11.3	-40.55	2,035.4	3,543.3	3,514.1	3,493.6	20.42	172.121		
3,500.0	3,395.3	3,821.7	3,777.1	15.1	11.6	-41.08	2,040.4	3,528.5	3,479.9	3,458.6	21.21	164.037		
3,600.0	3,490.3	3,909.9	3,864.0	15.7	12.0	-41.62	2,045.4	3,513.8	3,446.0	3,423.9	22.02	156.471		
3,700.0	3,585.2	3,998.2	3,950.8	16.3	12.3	-42.17	2,050.3	3,499.0	3,412.4	3,389.5	22.84	149.380		
3,800.0	3,680.2	4,086.4	4,037.6	16.9	12.6	-42.73	2,055.3	3,484.3	3,379.1	3,355.5	23.68	142.725		
3,900.0	3,775.2	4,174.6	4,124.4	17.5	12.9	-43.30	2,060.3	3,469.5	3,346.2	3,321.7	24.52	136.472		
4,000.0	3,870.2	4,262.8	4,211.3	18.1	13.2	-43.87	2,065.2	3,454.8	3,313.6	3,288.3	25.37	130.588		
4,100.0	3,965.2	4,351.0	4,298.1	18.7	13.5	-44.46	2,070.2	3,440.0	3,281.4	3,255.2	26.24	125.047		
4,200.0	4,060.2	4,439.2	4,384.9	19.3	13.8	-45.06	2,075.2	3,425.3	3,249.5	3,222.4	27.12	119.822		
4,300.0	4,155.1	4,527.4	4,471.8	19.9	14.2	-45.67	2,080.1	3,410.6	3,218.0	3,190.0	28.01	114.891		
4,400.0	4,250.1	4,615.6	4,558.6	20.5	14.5	-46.28	2,085.1	3,395.8	3,186.9	3,158.0	28.91	110.233		
4,500.0	4,345.1	4,703.8	4,645.4	21.1	14.8	-46.91	2,090.1	3,381.1	3,156.2	3,126.4	29.82	105.829		
4,600.0	4,440.1	4,792.1	4,732.2	21.7	15.1	-47.55	2,095.0	3,366.3	3,125.9	3,095.2	30.75	101.662		
4,700.0	4,535.1	4,880.3	4,819.1	22.3	15.4	-48.20	2,100.0	3,351.6	3,096.1	3,064.4	31.68	97.717		
4,800.0	4,630.1	4,968.5	4,905.9	22.9	15.7	-48.86	2,105.0	3,336.8	3,066.6	3,034.0	32.63	93.979		
4,900.0	4,725.0	5,056.7	4,992.7	23.5	16.0	-49.53	2,110.0	3,322.1	3,037.6	3,004.0	33.59	90.436		
5,000.0	4,820.0	5,144.9	5,079.6	24.1	16.4	-50.21	2,114.9	3,307.3	3,009.1	2,974.5	34.56	87.075		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	4,915.0	5,233.1	5,166.4	24.6	16.7	-50.91	2,119.9	3,292.6	2,981.0	2,945.4	35.54	83.885		
5,200.0	5,010.0	5,321.3	5,253.2	25.2	17.0	-51.61	2,124.9	3,277.8	2,953.4	2,916.9	36.53	80.856		
5,300.0	5,105.0	5,589.3	7,530.0	25.8	42.9	-3.20	-49.1	2,879.5	2,864.1	2,819.3	44.84	63.870		
5,400.0	5,199.9	5,590.1	7,530.0	26.4	42.9	-3.13	-50.0	2,879.5	2,767.6	2,722.6	45.05	61.431		
5,500.0	5,294.9	5,590.9	7,530.0	27.0	42.9	-3.07	-50.8	2,879.5	2,671.4	2,626.1	45.26	59.021		
5,600.0	5,389.9	5,591.7	7,530.0	27.6	42.9	-3.00	-51.6	2,879.5	2,575.5	2,530.0	45.47	56.639		
5,700.0	5,484.9	5,592.6	7,530.0	28.2	43.0	-2.94	-52.4	2,879.5	2,479.8	2,434.2	45.68	54.286		
5,800.0	5,579.9	5,593.4	7,530.0	28.8	43.0	-2.88	-53.3	2,879.5	2,384.6	2,338.7	45.89	51.963		
5,900.0	5,674.9	5,594.2	7,530.0	29.4	43.0	-2.81	-54.1	2,879.5	2,289.7	2,243.6	46.10	49.670		
6,000.0	5,769.8	5,595.0	7,530.0	30.0	43.0	-2.75	-54.9	2,879.5	2,195.3	2,149.0	46.31	47.408		
6,100.0	5,864.8	5,595.9	7,530.0	30.6	43.0	-2.69	-55.7	2,879.5	2,101.4	2,054.9	46.52	45.177		
6,200.0	5,959.8	5,596.7	7,530.0	31.2	43.0	-2.62	-56.5	2,879.5	2,008.1	1,961.4	46.72	42.978		
6,300.0	6,054.8	5,597.5	7,530.0	31.8	43.0	-2.56	-57.4	2,879.5	1,915.5	1,868.6	46.93	40.814		
6,400.0	6,149.8	5,598.3	7,530.0	32.4	43.0	-2.49	-58.2	2,879.5	1,823.7	1,776.6	47.14	38.686		
6,500.0	6,244.7	5,599.1	7,530.0	33.0	43.0	-2.43	-59.0	2,879.5	1,732.8	1,685.4	47.35	36.595		
6,600.0	6,339.7	5,600.0	7,530.0	33.6	43.1	-2.37	-59.8	2,879.5	1,642.9	1,595.3	47.56	34.545		
6,700.0	6,434.7	5,600.8	7,530.0	34.2	43.1	-2.30	-60.7	2,879.5	1,554.2	1,506.5	47.77	32.539		
6,800.0	6,529.7	5,601.6	7,530.0	34.8	43.1	-2.24	-61.5	2,879.5	1,467.1	1,419.1	47.97	30.581		
6,900.0	6,624.7	5,602.4	7,530.0	35.4	43.1	-2.18	-62.3	2,879.5	1,381.6	1,333.4	48.18	28.675		
7,000.0	6,719.7	5,603.3	7,530.0	36.0	43.1	-2.11	-63.1	2,879.5	1,298.2	1,249.9	48.39	26.829		
7,100.0	6,814.6	5,604.1	7,530.0	36.6	43.1	-2.05	-64.0	2,879.5	1,217.4	1,168.8	48.60	25.051		
7,200.0	6,909.6	5,604.9	7,530.0	37.2	43.1	-1.98	-64.8	2,879.5	1,139.6	1,090.8	48.80	23.350		
7,225.4	6,933.7	5,605.1	7,530.0	37.3	43.1	-1.97	-65.0	2,879.5	1,120.4	1,071.5	48.86	22.932		
7,250.0	6,957.1	5,604.8	7,530.0	37.5	43.1	8.24	-64.7	2,879.5	1,102.0	1,052.3	49.76	22.149		
7,300.0	7,004.6	5,600.9	7,530.0	37.8	43.1	27.99	-60.8	2,879.5	1,065.9	1,014.1	51.82	20.568		
7,350.0	7,051.7	5,592.7	7,530.0	38.0	43.0	44.93	-52.6	2,879.5	1,031.6	977.7	53.85	19.157		
7,400.0	7,098.0	5,580.2	7,530.0	38.3	42.8	58.35	-40.1	2,879.6	999.4	943.9	55.50	18.008		
7,450.0	7,143.3	5,563.6	7,530.0	38.5	42.5	68.55	-23.5	2,879.7	969.7	913.1	56.62	17.127		
7,500.0	7,187.1	5,543.0	7,530.0	38.8	42.2	76.15	-2.9	2,879.8	942.8	885.6	57.18	16.487		
7,550.0	7,229.2	5,518.5	7,530.0	39.0	41.9	81.72	21.6	2,879.9	918.8	861.5	57.22	16.058		
7,600.0	7,269.2	5,490.4	7,530.0	39.2	41.5	85.75	49.8	2,880.0	897.8	841.0	56.78	15.810		
7,650.0	7,306.8	5,458.7	7,530.0	39.4	41.0	88.57	81.4	2,880.2	879.8	823.9	55.97	15.720 SF		
7,700.0	7,341.7	5,423.9	7,530.0	39.6	40.5	90.47	116.3	2,880.4	865.0	810.1	54.85	15.769		
7,750.0	7,373.7	5,386.0	7,530.0	39.8	40.0	91.65	154.1	2,880.6	853.0	799.5	53.52	15.937		
7,800.0	7,402.5	5,345.5	7,530.0	39.9	39.4	92.26	194.6	2,880.8	843.9	791.8	52.06	16.209		
7,850.0	7,427.9	5,302.7	7,530.0	40.1	38.9	92.46	237.5	2,881.0	837.3	786.7	50.53	16.569		
7,900.0	7,449.7	5,257.8	7,530.0	40.2	38.2	92.36	282.4	2,881.2	833.0	784.0	48.99	17.003		
7,950.0	7,467.8	5,211.2	7,530.0	40.4	37.6	92.05	329.0	2,881.5	830.9	783.4	47.49	17.498 ES		
7,981.6	7,477.2	5,181.0	7,530.0	40.5	37.2	91.78	359.2	2,881.6	830.5	784.0	46.57	17.835 CC		
8,000.0	7,481.9	5,163.2	7,530.0	40.6	37.0	91.61	376.9	2,881.7	830.6	784.6	46.04	18.042		
8,050.0	7,492.0	5,114.3	7,530.0	40.7	36.3	91.12	425.8	2,881.9	832.1	787.4	44.66	18.631		
8,100.0	7,498.1	5,064.8	7,530.0	40.9	35.7	90.61	475.4	2,882.2	835.1	791.7	43.36	19.260		
8,148.1	7,500.0	5,016.9	7,530.0	41.0	35.1	90.14	523.3	2,882.4	839.3	797.1	42.17	19.905		
8,200.0	7,500.0	5,965.3	7,530.0	41.2	34.4	90.14	574.8	2,882.7	844.5	802.7	41.86	20.176		
8,300.0	7,500.0	8,865.8	7,530.0	41.5	33.2	90.13	674.3	2,883.2	854.6	813.2	41.39	20.648		
8,400.0	7,500.0	8,766.3	7,530.0	42.0	32.0	90.13	773.8	2,883.7	864.7	823.6	41.08	21.051		
8,500.0	7,500.0	8,666.8	7,530.0	42.5	30.9	90.13	873.3	2,884.2	874.8	833.9	40.90	21.387		
8,600.0	7,500.0	8,567.3	7,530.0	43.1	29.9	90.13	972.8	2,884.7	884.9	844.0	40.86	21.656		
8,700.0	7,500.0	8,467.8	7,530.0	43.7	28.9	90.13	1,072.3	2,885.2	895.0	854.0	40.95	21.856		
8,800.0	7,500.0	8,368.3	7,530.0	44.4	28.0	90.13	1,171.8	2,885.7	905.1	863.9	41.17	21.985		
8,900.0	7,500.0	8,268.9	7,530.0	45.2	27.1	90.13	1,271.3	2,886.2	915.2	873.6	41.52	22.040		
9,000.0	7,500.0	8,169.4	7,530.0	46.0	26.4	90.12	1,370.8	2,886.7	925.2	883.2	42.03	22.014		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - 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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	8,069.9	7,530.0	46.9	25.8	90.12	1,470.2	2,887.2	935.3	892.6	42.69	21.910		
9,200.0	7,500.0	7,983.4	7,527.6	47.8	25.3	89.98	1,556.7	2,888.1	945.9	902.3	43.63	21.682		
9,300.0	7,500.0	7,900.0	7,516.2	48.8	24.9	89.29	1,639.2	2,890.5	958.4	913.7	44.73	21.427		
9,400.0	7,500.0	7,827.5	7,498.5	49.8	24.6	88.24	1,709.4	2,893.8	973.2	927.2	46.03	21.145		
9,500.0	7,500.0	7,756.3	7,474.5	50.8	24.3	86.85	1,776.3	2,898.2	990.8	943.4	47.41	20.900		
9,600.0	7,500.0	7,690.8	7,446.8	51.9	24.1	85.27	1,835.3	2,903.2	1,011.9	963.0	48.88	20.704		
9,700.0	7,500.0	7,631.4	7,417.1	53.1	24.0	83.62	1,886.5	2,908.6	1,037.0	986.6	50.38	20.585		
9,803.1	7,500.0	7,576.3	7,385.9	54.3	23.9	81.92	1,931.6	2,914.1	1,067.4	1,015.5	51.93	20.556		
9,900.0	7,500.0	7,530.0	7,357.1	55.4	23.8	80.39	1,967.5	2,919.2	1,100.6	1,047.2	53.39	20.615		
10,000.0	7,500.0	7,487.2	7,328.5	56.6	23.7	78.91	1,998.9	2,924.2	1,139.6	1,084.7	54.88	20.765		
10,100.0	7,500.0	7,450.0	7,302.2	57.9	23.7	77.58	2,024.7	2,928.8	1,183.4	1,127.0	56.36	20.997		
10,200.0	7,500.0	7,415.0	7,276.2	59.2	23.6	76.29	2,047.8	2,933.3	1,231.8	1,174.0	57.81	21.306		
10,300.0	7,500.0	7,384.5	7,252.7	60.5	23.6	75.14	2,066.8	2,937.4	1,284.6	1,225.3	59.25	21.679		
10,400.0	7,500.0	7,350.0	7,225.2	61.8	23.5	73.83	2,087.1	2,942.2	1,341.5	1,280.9	60.63	22.127		
10,500.0	7,500.0	7,332.6	7,211.0	63.1	23.5	73.17	2,096.8	2,944.7	1,402.2	1,340.1	62.11	22.577		
10,600.0	7,500.0	7,300.0	7,183.7	64.5	23.5	71.91	2,114.0	2,949.4	1,466.4	1,403.0	63.42	23.122		
10,703.1	7,500.0	7,300.0	7,183.7	65.9	23.5	71.91	2,114.0	2,949.4	1,535.9	1,470.8	65.09	23.598		
10,800.0	7,500.0	7,272.1	7,159.8	67.3	23.4	71.14	2,127.7	2,953.5	1,603.3	1,536.4	66.86	23.978		
10,900.0	7,500.0	7,250.0	7,140.5	68.8	23.4	70.63	2,137.9	2,956.9	1,674.4	1,605.6	68.75	24.354		
11,000.0	7,500.0	7,250.0	7,140.5	70.2	23.4	70.98	2,137.9	2,956.9	1,746.8	1,675.9	70.91	24.636		
11,100.0	7,500.0	7,225.7	7,118.9	71.7	23.4	70.43	2,148.4	2,960.6	1,820.3	1,747.6	72.74	25.025		
11,200.0	7,500.0	7,200.0	7,095.7	73.3	23.3	69.87	2,158.7	2,964.6	1,895.1	1,820.6	74.53	25.427		
11,253.1	7,500.0	7,200.0	7,095.7	74.1	23.3	70.08	2,158.7	2,964.6	1,935.1	1,859.4	75.68	25.571		
11,300.0	7,500.0	7,200.0	7,095.7	74.8	23.3	70.08	2,158.7	2,964.6	1,970.7	1,894.3	76.43	25.785		
11,400.0	7,500.0	7,200.0	7,095.7	76.3	23.3	70.08	2,158.7	2,964.6	2,048.2	1,970.2	78.04	26.246		
11,500.0	7,500.0	7,178.5	7,076.1	77.9	23.3	69.30	2,166.7	2,968.0	2,127.3	2,048.0	79.31	26.823		
11,600.0	7,500.0	7,168.8	7,067.1	79.5	23.3	68.95	2,170.1	2,969.5	2,207.9	2,127.2	80.75	27.342		
11,700.0	7,500.0	7,150.0	7,049.6	81.0	23.2	68.27	2,176.3	2,972.5	2,290.1	2,208.0	82.03	27.919		
11,800.0	7,500.0	7,150.0	7,049.6	82.6	23.2	68.27	2,176.3	2,972.5	2,373.3	2,289.7	83.62	28.381		
11,900.0	7,500.0	7,150.0	7,049.6	84.2	23.2	68.27	2,176.3	2,972.5	2,457.8	2,372.5	85.22	28.839		
12,000.0	7,500.0	7,150.0	7,049.6	85.8	23.2	68.27	2,176.3	2,972.5	2,543.4	2,456.5	86.82	29.293		
12,100.0	7,500.0	7,129.1	7,029.9	87.4	23.2	67.53	2,182.7	2,975.9	2,629.6	2,541.6	88.01	29.879		
12,200.0	7,500.0	7,122.6	7,023.8	89.0	23.2	67.30	2,184.5	2,977.0	2,716.9	2,627.4	89.47	30.367		
12,300.0	7,500.0	7,100.0	7,002.4	90.6	23.1	66.50	2,190.6	2,980.6	2,805.2	2,714.6	90.58	30.969		
12,400.0	7,500.0	7,100.0	7,002.4	92.2	23.1	66.50	2,190.6	2,980.6	2,893.8	2,801.7	92.17	31.398		
12,500.0	7,500.0	7,100.0	7,002.4	93.8	23.1	66.50	2,190.6	2,980.6	2,983.2	2,889.4	93.75	31.820		
12,600.0	7,500.0	7,100.0	7,002.4	95.5	23.1	66.50	2,190.6	2,980.6	3,073.2	2,977.9	95.34	32.235		
12,700.0	7,500.0	7,100.0	7,002.4	97.1	23.1	66.50	2,190.6	2,980.6	3,163.8	3,066.9	96.93	32.642		
12,800.0	7,500.0	7,100.0	7,002.4	98.7	23.1	66.50	2,190.6	2,980.6	3,255.0	3,156.5	98.51	33.041		
12,900.0	7,500.0	7,100.0	7,002.4	100.4	23.1	66.50	2,190.6	2,980.6	3,346.7	3,246.6	100.10	33.433		
13,000.0	7,500.0	7,100.0	7,002.4	102.0	23.1	66.50	2,190.6	2,980.6	3,438.8	3,337.2	101.69	33.816		
13,100.0	7,500.0	7,077.8	6,981.1	103.7	23.1	65.72	2,195.8	2,984.3	3,531.0	3,428.3	102.71	34.377		
13,200.0	7,500.0	7,074.0	6,977.4	105.3	23.1	65.59	2,196.7	2,984.9	3,623.8	3,519.6	104.20	34.779		
13,300.0	7,500.0	7,050.0	6,954.3	107.0	23.0	64.76	2,201.5	2,988.9	3,717.3	3,612.2	105.13	35.360		
13,400.0	7,500.0	7,050.0	6,954.3	108.6	23.0	64.76	2,201.5	2,988.9	3,810.7	3,704.0	106.70	35.715		
13,500.0	7,500.0	7,050.0	6,954.3	110.3	23.0	64.76	2,201.5	2,988.9	3,904.4	3,796.2	108.27	36.062		
13,600.0	7,500.0	7,050.0	6,954.3	111.9	23.0	64.76	2,201.5	2,988.9	3,998.5	3,888.6	109.84	36.402		
13,700.0	7,500.0	7,050.0	6,954.3	113.6	23.0	64.76	2,201.5	2,988.9	4,092.8	3,981.4	111.42	36.735		
13,753.1	7,500.0	7,050.0	6,954.3	114.5	23.0	64.76	2,201.5	2,988.9	4,143.0	4,030.8	112.25	36.908		
13,800.0	7,500.0	7,050.0	6,954.3	115.3	23.0	65.39	2,201.5	2,988.9	4,187.3	4,073.6	113.70	36.826		
13,900.0	7,500.0	7,050.0	6,954.3	117.0	23.0	66.65	2,201.5	2,988.9	4,281.6	4,164.9	116.71	36.684		
14,000.0	7,500.0	7,050.0	6,954.3	118.7	23.0	67.81	2,201.5	2,988.9	4,375.5	4,255.9	119.61	36.582		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - 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 +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
14,100.0	7,500.0	7,050.0	6,954.3	120.4	23.0	68.89	2,201.5	2,988.9	4,469.1	4,346.7	122.39	36.514					
14,200.0	7,500.0	7,050.0	6,954.3	122.1	23.0	69.88	2,201.5	2,988.9	4,562.4	4,437.3	125.08	36.475					
14,300.0	7,500.0	7,050.0	6,954.3	123.8	23.0	70.81	2,201.5	2,988.9	4,655.3	4,527.6	127.68	36.461					
14,400.0	7,500.0	7,050.0	6,954.3	125.6	23.0	71.67	2,201.5	2,988.9	4,747.8	4,617.6	130.19	36.468					
14,500.0	7,500.0	7,050.0	6,954.3	127.3	23.0	72.47	2,201.5	2,988.9	4,839.9	4,707.3	132.63	36.493					
14,600.0	7,500.0	7,050.0	6,954.3	129.1	23.0	73.21	2,201.5	2,988.9	4,931.6	4,796.7	134.99	36.534					
14,683.9	7,500.0	7,050.0	6,954.3	130.5	23.0	73.80	2,201.5	2,988.9	5,008.3	4,871.3	136.91	36.580					
14,700.0	7,500.0	7,050.0	6,954.3	130.8	23.0	73.80	2,201.5	2,988.9	5,023.0	4,885.8	137.19	36.614					
14,756.3	7,500.0	7,050.0	6,954.3	131.8	23.0	73.80	2,201.5	2,988.9	5,074.4	4,936.2	138.14	36.734					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1D-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	28.0	28.0	0.0	0.0	65.17	1,870.5	4,042.3	4,454.1					
100.0	100.0	128.0	128.0	0.2	0.2	65.17	1,870.5	4,042.3	4,454.1	4,453.7	0.35	N/A		
200.0	200.0	228.0	228.0	0.3	0.4	65.17	1,870.5	4,042.3	4,454.1	4,453.4	0.70	6,348.261		
300.0	300.0	328.0	328.0	0.5	0.5	-26.64	1,870.5	4,042.3	4,453.3	4,452.3	1.05	4,238.054		
400.0	400.0	516.9	516.8	0.7	0.9	-26.70	1,871.4	4,040.0	4,450.2	4,448.6	1.56	2,858.155		
500.0	499.9	729.6	729.4	0.9	1.3	-26.89	1,875.2	4,030.6	4,443.0	4,440.9	2.12	2,096.190		
600.0	599.7	940.2	939.1	1.1	1.7	-27.18	1,881.8	4,014.1	4,431.8	4,429.1	2.71	1,634.517		
700.0	699.4	1,147.5	1,145.0	1.3	2.3	-27.59	1,891.1	3,990.8	4,416.6	4,413.3	3.35	1,319.386		
800.0	798.9	1,264.6	1,260.8	1.5	2.6	-27.91	1,897.4	3,975.2	4,398.4	4,394.6	3.81	1,154.590		
900.0	898.3	1,361.4	1,356.6	1.8	2.9	-28.21	1,902.7	3,962.1	4,378.6	4,374.4	4.23	1,034.272		
1,000.0	997.4	1,457.7	1,451.9	2.0	3.1	-28.53	1,907.9	3,949.1	4,357.4	4,352.7	4.67	933.764		
1,100.0	1,096.3	1,553.5	1,546.7	2.3	3.4	-28.88	1,913.0	3,936.2	4,334.8	4,329.6	5.11	848.456		
1,200.0	1,194.9	1,648.9	1,641.0	2.7	3.7	-29.24	1,918.2	3,923.3	4,310.7	4,305.1	5.56	775.039		
1,300.0	1,293.3	1,743.7	1,734.8	3.0	4.0	-29.63	1,923.3	3,910.5	4,285.2	4,279.2	6.03	711.089		
1,400.0	1,391.2	1,837.9	1,828.0	3.4	4.3	-30.04	1,928.4	3,897.8	4,258.4	4,251.9	6.50	654.792		
1,500.0	1,488.9	1,931.5	1,920.7	3.8	4.6	-30.48	1,933.5	3,885.2	4,230.2	4,223.3	6.99	604.771		
1,600.0	1,586.1	2,024.5	2,012.7	4.3	4.8	-30.94	1,938.5	3,872.7	4,200.7	4,193.2	7.50	559.963		
1,700.0	1,682.9	2,116.9	2,104.1	4.7	5.1	-31.42	1,943.5	3,860.2	4,169.9	4,161.9	8.03	519.540		
1,800.0	1,779.3	2,208.6	2,194.8	5.2	5.4	-31.94	1,948.4	3,847.8	4,137.8	4,129.3	8.57	482.843		
1,900.0	1,875.2	2,299.6	2,284.8	5.8	5.7	-32.48	1,953.4	3,835.6	4,104.5	4,095.3	9.13	449.349		
2,000.0	1,970.5	2,389.8	2,374.1	6.3	6.0	-33.04	1,958.2	3,823.4	4,069.9	4,060.1	9.72	418.633		
2,022.8	1,992.2	2,410.3	2,394.3	6.4	6.0	-33.18	1,959.3	3,820.6	4,061.8	4,052.0	9.86	412.035		
2,100.0	2,065.5	2,479.6	2,462.9	6.9	6.2	-33.47	1,963.1	3,811.3	4,034.5	4,024.2	10.32	390.763		
2,200.0	2,160.5	2,569.3	2,551.6	7.5	6.5	-33.86	1,967.9	3,799.2	3,999.2	3,988.3	10.94	365.621		
2,300.0	2,255.5	2,659.0	2,640.4	8.0	6.8	-34.26	1,972.8	3,787.1	3,964.2	3,952.6	11.56	342.859		
2,400.0	2,350.5	2,748.7	2,729.1	8.6	7.1	-34.66	1,977.6	3,775.0	3,929.3	3,917.1	12.20	322.178		
2,500.0	2,445.5	2,838.4	2,817.9	9.2	7.3	-35.07	1,982.5	3,762.9	3,894.6	3,881.7	12.84	303.322		
2,600.0	2,540.4	2,928.1	2,906.6	9.8	7.6	-35.49	1,987.3	3,750.8	3,860.1	3,846.6	13.49	286.074		
2,700.0	2,635.4	3,017.8	2,995.4	10.4	7.9	-35.91	1,992.2	3,738.7	3,825.8	3,811.6	14.16	270.249		
2,800.0	2,730.4	3,107.5	3,084.1	11.0	8.2	-36.34	1,997.0	3,726.6	3,791.7	3,776.9	14.83	255.688		
2,900.0	2,825.4	3,197.2	3,172.9	11.6	8.4	-36.77	2,001.9	3,714.5	3,757.8	3,742.3	15.51	242.253		
3,000.0	2,920.4	3,286.9	3,261.6	12.2	8.7	-37.22	2,006.7	3,702.4	3,724.1	3,707.9	16.20	229.828		
3,100.0	3,015.4	3,376.6	3,350.4	12.8	9.0	-37.67	2,011.6	3,690.3	3,690.7	3,673.8	16.91	218.309		
3,200.0	3,110.3	3,466.3	3,439.2	13.3	9.3	-38.13	2,016.4	3,678.2	3,657.5	3,639.8	17.62	207.606		
3,300.0	3,205.3	3,556.0	3,527.9	13.9	9.5	-38.59	2,021.3	3,666.1	3,624.5	3,606.1	18.34	197.642		
3,400.0	3,300.3	3,645.7	3,616.7	14.5	9.8	-39.07	2,026.1	3,654.0	3,591.7	3,572.7	19.07	188.348		
3,500.0	3,395.3	3,735.4	3,705.4	15.1	10.1	-39.55	2,031.0	3,641.9	3,559.2	3,539.4	19.81	179.663		
3,600.0	3,490.3	3,825.1	3,794.2	15.7	10.4	-40.04	2,035.8	3,629.8	3,527.0	3,506.4	20.56	171.533		
3,700.0	3,585.2	3,914.8	3,882.9	16.3	10.6	-40.53	2,040.6	3,617.7	3,495.0	3,473.7	21.32	163.912		
3,800.0	3,680.2	4,004.5	3,971.7	16.9	10.9	-41.04	2,045.5	3,605.6	3,463.3	3,441.2	22.09	156.757		
3,900.0	3,775.2	4,094.2	4,060.4	17.5	11.2	-41.55	2,050.3	3,593.5	3,431.9	3,409.0	22.87	150.030		
4,000.0	3,870.2	4,183.9	4,149.2	18.1	11.5	-42.08	2,055.2	3,581.4	3,400.7	3,377.0	23.67	143.698		
4,100.0	3,965.2	4,273.7	4,237.9	18.7	11.7	-42.61	2,060.0	3,569.3	3,369.8	3,345.4	24.47	137.730		
4,200.0	4,060.2	4,363.4	4,326.7	19.3	12.0	-43.15	2,064.9	3,557.2	3,339.3	3,314.0	25.28	132.099		
4,300.0	4,155.1	4,453.1	4,415.4	19.9	12.3	-43.70	2,069.7	3,545.1	3,309.0	3,282.9	26.10	126.780		
4,400.0	4,250.1	4,542.8	4,504.2	20.5	12.6	-44.25	2,074.6	3,533.0	3,279.1	3,252.2	26.93	121.751		
4,500.0	4,345.1	4,632.5	4,592.9	21.1	12.9	-44.82	2,079.4	3,520.9	3,249.5	3,221.7	27.78	116.992		
4,600.0	4,440.1	4,722.2	4,681.7	21.7	13.1	-45.39	2,084.3	3,508.8	3,220.2	3,191.6	28.63	112.485		
4,700.0	4,535.1	4,811.9	4,770.4	22.3	13.4	-45.98	2,089.1	3,496.7	3,191.3	3,161.8	29.49	108.212		
4,800.0	4,630.1	4,901.6	4,859.2	22.9	13.7	-46.57	2,094.0	3,484.6	3,162.7	3,132.3	30.36	104.159		
4,900.0	4,725.0	4,991.3	4,947.9	23.5	14.0	-47.18	2,098.8	3,472.5	3,134.5	3,103.2	31.25	100.311		
5,000.0	4,820.0	5,081.0	5,036.7	24.1	14.2	-47.79	2,103.7	3,460.4	3,106.6	3,074.5	32.14	96.656		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1D-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	5,170.7	5,125.4	24.6	14.5	-48.41	2,108.5	3,448.3	3,079.2	3,046.1	33.04	93.183		
5,200.0	5,010.0	5,260.4	5,214.2	25.2	14.8	-49.04	2,113.4	3,436.2	3,052.1	3,018.1	33.96	89.879		
5,300.0	5,105.0	5,350.1	5,302.9	25.8	15.1	-49.68	2,118.2	3,424.1	3,025.4	2,990.5	34.88	86.736		
5,400.0	5,199.9	5,439.8	5,391.7	26.4	15.3	-50.34	2,123.1	3,412.0	2,999.2	2,963.3	35.81	83.744		
5,500.0	5,294.9	5,529.5	5,480.5	27.0	15.6	-51.00	2,127.9	3,399.9	2,973.3	2,936.6	36.76	80.894		
5,600.0	5,389.9	5,792.1	7,770.0	27.6	41.4	-3.52	-43.9	3,088.2	2,891.9	2,846.4	45.51	63.545		
5,700.0	5,484.9	9,793.1	7,770.0	28.2	41.4	-3.46	-44.8	3,088.2	2,796.6	2,750.9	45.72	61.170		
5,800.0	5,579.9	9,794.1	7,770.0	28.8	41.4	-3.39	-45.8	3,088.2	2,701.6	2,655.7	45.93	58.825		
5,900.0	5,674.9	9,795.1	7,770.0	29.4	41.5	-3.33	-46.8	3,088.2	2,607.1	2,560.9	46.14	56.509		
6,000.0	5,769.8	9,796.1	7,770.0	30.0	41.5	-3.26	-47.8	3,088.2	2,512.9	2,466.6	46.34	54.224		
6,100.0	5,864.8	9,797.1	7,770.0	30.6	41.5	-3.20	-48.8	3,088.2	2,419.3	2,372.7	46.55	51.969		
6,200.0	5,959.8	9,798.1	7,770.0	31.2	41.5	-3.13	-49.8	3,088.2	2,326.1	2,279.4	46.76	49.746		
6,300.0	6,054.8	9,799.0	7,770.0	31.8	41.5	-3.07	-50.8	3,088.2	2,233.6	2,186.6	46.97	47.555		
6,400.0	6,149.8	9,800.0	7,770.0	32.4	41.5	-3.00	-51.7	3,088.2	2,141.7	2,094.5	47.18	45.398		
6,500.0	6,244.7	9,801.0	7,770.0	33.0	41.6	-2.94	-52.7	3,088.2	2,050.5	2,003.2	47.38	43.276		
6,600.0	6,339.7	9,802.0	7,770.0	33.6	41.6	-2.87	-53.7	3,088.2	1,960.3	1,912.7	47.59	41.190		
6,700.0	6,434.7	9,803.0	7,770.0	34.2	41.6	-2.80	-54.7	3,088.2	1,871.0	1,823.2	47.80	39.144		
6,800.0	6,529.7	9,804.0	7,770.0	34.8	41.6	-2.74	-55.7	3,088.2	1,782.9	1,734.9	48.01	37.139		
6,900.0	6,624.7	9,805.0	7,770.0	35.4	41.6	-2.67	-56.7	3,088.2	1,696.1	1,647.8	48.21	35.178		
7,000.0	6,719.7	9,805.9	7,770.0	36.0	41.6	-2.61	-57.7	3,088.2	1,610.8	1,562.3	48.42	33.267		
7,100.0	6,814.6	9,806.9	7,770.0	36.6	41.6	-2.54	-58.7	3,088.2	1,527.3	1,478.6	48.63	31.408		
7,200.0	6,909.6	9,807.9	7,770.0	37.2	41.7	-2.48	-59.6	3,088.2	1,445.8	1,397.0	48.83	29.608		
7,225.4	6,933.7	9,808.2	7,770.0	37.3	41.7	-2.46	-59.9	3,088.2	1,425.6	1,376.7	48.89	29.161		
7,250.0	6,957.1	9,807.9	7,770.0	37.5	41.7	8.20	-59.6	3,088.2	1,406.1	1,356.4	49.72	28.280		
7,300.0	7,004.6	9,804.1	7,770.0	37.8	41.6	28.88	-55.8	3,088.2	1,367.3	1,315.4	51.87	26.358		
7,350.0	7,051.7	9,795.9	7,770.0	38.0	41.5	46.75	-47.7	3,088.2	1,329.9	1,275.8	54.17	24.549		
7,400.0	7,098.0	9,783.6	7,770.0	38.3	41.3	61.10	-35.3	3,088.2	1,294.3	1,238.1	56.16	23.047		
7,450.0	7,143.3	9,767.0	7,770.0	38.5	41.0	72.19	-18.8	3,088.2	1,260.7	1,203.1	57.61	21.885		
7,500.0	7,187.1	9,746.5	7,770.0	38.8	40.7	80.67	1.8	3,088.2	1,229.4	1,170.9	58.46	21.030		
7,550.0	7,229.2	9,722.1	7,770.0	39.0	40.4	87.11	26.2	3,088.2	1,200.6	1,141.9	58.74	20.441		
7,600.0	7,269.2	9,693.9	7,770.0	39.2	40.0	92.00	54.3	3,088.2	1,174.5	1,116.0	58.50	20.077		
7,650.0	7,306.8	9,662.3	7,770.0	39.4	39.5	95.70	85.9	3,088.2	1,151.3	1,093.5	57.82	19.912 SF		
7,700.0	7,341.7	9,627.5	7,770.0	39.6	39.0	98.46	120.8	3,088.1	1,131.0	1,074.2	56.77	19.923		
7,750.0	7,373.7	9,589.7	7,770.0	39.8	38.4	100.48	158.6	3,088.1	1,113.6	1,058.1	55.42	20.094		
7,800.0	7,402.5	9,549.3	7,770.0	39.9	37.9	101.91	199.0	3,088.1	1,099.1	1,045.2	53.84	20.413		
7,850.0	7,427.9	9,506.4	7,770.0	40.1	37.2	102.88	241.9	3,088.1	1,087.5	1,035.4	52.11	20.869		
7,900.0	7,449.7	9,461.5	7,770.0	40.2	36.6	103.48	286.8	3,088.1	1,078.6	1,028.3	50.28	21.452		
7,950.0	7,467.8	9,414.9	7,770.0	40.4	35.9	103.79	333.4	3,088.1	1,072.5	1,024.1	48.41	22.154		
8,000.0	7,481.9	9,367.0	7,770.0	40.6	35.3	103.86	381.3	3,088.1	1,068.9	1,022.4	46.55	22.962 ES		
8,047.4	7,491.6	9,320.7	7,770.0	40.7	34.6	103.76	427.6	3,088.1	1,067.8	1,023.0	44.83	23.818 CC		
8,050.0	7,492.0	9,318.1	7,770.0	40.7	34.6	103.75	430.2	3,088.1	1,067.8	1,023.1	44.74	23.869		
8,100.0	7,498.1	9,268.5	7,770.0	40.9	33.9	103.48	479.8	3,088.1	1,069.2	1,026.1	43.00	24.862		
8,148.1	7,500.0	9,220.6	7,770.0	41.0	33.3	103.10	527.7	3,088.1	1,072.6	1,031.2	41.42	25.894		
8,200.0	7,500.0	9,169.0	7,770.0	41.2	32.6	103.04	579.3	3,088.1	1,077.4	1,036.3	41.15	26.182		
8,300.0	7,500.0	9,069.4	7,770.0	41.5	31.3	102.92	678.8	3,088.1	1,086.7	1,046.0	40.75	26.668		
8,400.0	7,500.0	8,969.9	7,770.0	42.0	30.1	102.81	778.4	3,088.0	1,096.1	1,055.6	40.50	27.065		
8,500.0	7,500.0	8,870.4	7,770.0	42.5	28.9	102.70	877.9	3,088.0	1,105.4	1,065.0	40.38	27.375		
8,600.0	7,500.0	8,770.8	7,770.0	43.1	27.8	102.59	977.5	3,088.0	1,114.8	1,074.4	40.39	27.601		
8,700.0	7,500.0	8,671.3	7,770.0	43.7	26.7	102.49	1,077.0	3,088.0	1,124.1	1,083.6	40.52	27.742		
8,800.0	7,500.0	8,571.7	7,770.0	44.4	25.7	102.38	1,176.6	3,088.0	1,133.4	1,092.7	40.77	27.798		
8,900.0	7,500.0	8,472.2	7,770.0	45.2	24.8	102.28	1,276.1	3,088.0	1,142.8	1,101.6	41.16	27.765		
9,000.0	7,500.0	8,372.6	7,770.0	46.0	24.0	102.18	1,375.6	3,087.9	1,152.1	1,110.5	41.69	27.638		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1D-7H-A168 - 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		
9,100.0	7,500.0	8,273.1	7,770.0	46.9	23.3	102.08	1,475.2	3,087.9	1,161.5	1,119.1	42.36	27.421		
9,200.0	7,500.0	8,163.5	7,764.7	47.8	22.7	101.71	1,584.5	3,088.6	1,170.5	1,127.3	43.18	27.105		
9,300.0	7,500.0	8,055.6	7,743.7	48.8	22.2	100.58	1,690.3	3,091.5	1,178.7	1,134.4	44.34	26.586		
9,400.0	7,500.0	7,956.4	7,710.7	49.8	21.8	98.89	1,783.7	3,096.0	1,187.0	1,141.2	45.80	25.916		
9,500.0	7,500.0	7,868.1	7,670.8	50.8	21.6	96.89	1,862.1	3,101.4	1,196.4	1,148.9	47.48	25.199		
9,600.0	7,500.0	7,791.4	7,628.6	51.9	21.4	94.82	1,925.9	3,107.1	1,208.2	1,159.0	49.23	24.540		
9,700.0	7,500.0	7,725.5	7,587.2	53.1	21.3	92.81	1,976.8	3,112.8	1,223.5	1,172.5	51.03	23.976		
9,803.1	7,500.0	7,667.5	7,547.0	54.3	21.3	90.90	2,018.2	3,118.2	1,243.8	1,190.9	52.87	23.526		
9,900.0	7,500.0	7,621.0	7,512.5	55.4	21.2	89.27	2,049.0	3,122.9	1,267.4	1,212.9	54.56	23.230		
10,000.0	7,500.0	7,579.8	7,480.2	56.6	21.2	87.77	2,074.3	3,127.3	1,296.9	1,240.6	56.28	23.045		
10,100.0	7,500.0	7,550.0	7,456.1	57.9	21.2	86.66	2,091.5	3,130.6	1,331.6	1,273.7	57.97	22.973		
10,200.0	7,500.0	7,513.5	7,425.5	59.2	21.1	85.27	2,111.0	3,134.8	1,371.4	1,311.8	59.63	22.999		
10,300.0	7,500.0	7,486.6	7,402.5	60.5	21.1	84.23	2,124.4	3,137.9	1,416.1	1,354.9	61.27	23.112		
10,400.0	7,500.0	7,463.1	7,381.9	61.8	21.1	83.32	2,135.4	3,140.7	1,465.5	1,402.6	62.90	23.298		
10,500.0	7,500.0	7,450.0	7,370.3	63.1	21.1	82.80	2,141.3	3,142.3	1,519.3	1,454.8	64.55	23.537		
10,600.0	7,500.0	7,424.0	7,346.8	64.5	21.0	81.77	2,152.2	3,145.5	1,577.0	1,510.9	66.14	23.845		
10,703.1	7,500.0	7,400.0	7,325.0	65.9	21.0	80.82	2,161.5	3,148.5	1,640.4	1,572.7	67.76	24.208		
10,800.0	7,500.0	7,400.0	7,325.0	67.3	21.0	80.95	2,161.5	3,148.5	1,702.6	1,632.7	69.88	24.365		
10,900.0	7,500.0	7,379.3	7,305.8	68.8	21.0	80.29	2,168.9	3,151.1	1,768.4	1,696.5	71.93	24.584		
11,000.0	7,500.0	7,367.1	7,294.4	70.2	21.0	79.97	2,173.1	3,152.6	1,836.0	1,761.9	74.02	24.803		
11,100.0	7,500.0	7,350.0	7,278.4	71.7	21.0	79.49	2,178.5	3,154.8	1,904.9	1,828.9	76.06	25.045		
11,200.0	7,500.0	7,350.0	7,278.4	73.3	21.0	79.67	2,178.5	3,154.8	1,975.2	1,897.0	78.21	25.254		
11,253.1	7,500.0	7,350.0	7,278.4	74.1	21.0	79.77	2,178.5	3,154.8	2,013.1	1,933.7	79.35	25.368		
11,300.0	7,500.0	7,350.0	7,278.4	74.8	21.0	79.77	2,178.5	3,154.8	2,046.9	1,966.7	80.14	25.540		
11,400.0	7,500.0	7,327.3	7,256.9	76.3	20.9	78.93	2,185.2	3,157.8	2,120.3	2,038.7	81.63	25.973		
11,500.0	7,500.0	7,319.2	7,249.2	77.9	20.9	78.63	2,187.3	3,158.8	2,195.9	2,112.6	83.24	26.379		
11,600.0	7,500.0	7,300.0	7,230.8	79.5	20.9	77.92	2,192.2	3,161.3	2,273.3	2,188.6	84.74	26.828		
11,700.0	7,500.0	7,300.0	7,230.8	81.0	20.9	77.92	2,192.2	3,161.3	2,352.2	2,265.8	86.42	27.219		
11,800.0	7,500.0	7,300.0	7,230.8	82.6	20.9	77.92	2,192.2	3,161.3	2,432.6	2,344.5	88.10	27.612		
11,900.0	7,500.0	7,300.0	7,230.8	84.2	20.9	77.92	2,192.2	3,161.3	2,514.5	2,424.7	89.78	28.006		
12,000.0	7,500.0	7,300.0	7,230.8	85.8	20.9	77.92	2,192.2	3,161.3	2,597.6	2,506.1	91.47	28.398		
12,100.0	7,500.0	7,300.0	7,230.8	87.4	20.9	77.92	2,192.2	3,161.3	2,681.9	2,588.7	93.16	28.789		
12,200.0	7,500.0	7,276.7	7,208.2	89.0	20.9	77.07	2,197.4	3,164.4	2,766.8	2,672.2	94.56	29.261		
12,300.0	7,500.0	7,272.1	7,203.8	90.6	20.9	76.90	2,198.4	3,165.0	2,852.9	2,756.7	96.18	29.662		
12,400.0	7,500.0	7,250.0	7,182.3	92.2	20.8	76.09	2,202.5	3,167.9	2,940.0	2,842.5	97.56	30.137		
12,500.0	7,500.0	7,250.0	7,182.3	93.8	20.8	76.09	2,202.5	3,167.9	3,027.7	2,928.4	99.24	30.510		
12,600.0	7,500.0	7,250.0	7,182.3	95.5	20.8	76.09	2,202.5	3,167.9	3,116.0	3,015.1	100.92	30.877		
12,700.0	7,500.0	7,250.0	7,182.3	97.1	20.8	76.09	2,202.5	3,167.9	3,205.1	3,102.5	102.60	31.240		
12,800.0	7,500.0	7,250.0	7,182.3	98.7	20.8	76.09	2,202.5	3,167.9	3,294.7	3,190.5	104.28	31.596		
12,900.0	7,500.0	7,250.0	7,182.3	100.4	20.8	76.09	2,202.5	3,167.9	3,385.0	3,279.0	105.96	31.946		
13,000.0	7,500.0	7,250.0	7,182.3	102.0	20.8	76.09	2,202.5	3,167.9	3,475.8	3,368.1	107.64	32.290		
13,100.0	7,500.0	7,250.0	7,182.3	103.7	20.8	76.09	2,202.5	3,167.9	3,567.0	3,457.7	109.33	32.627		
13,200.0	7,500.0	7,250.0	7,182.3	105.3	20.8	76.09	2,202.5	3,167.9	3,658.8	3,547.8	111.01	32.959		
13,300.0	7,500.0	7,250.0	7,182.3	107.0	20.8	76.09	2,202.5	3,167.9	3,750.9	3,638.2	112.70	33.283		
13,400.0	7,500.0	7,250.0	7,182.3	108.6	20.8	76.09	2,202.5	3,167.9	3,843.5	3,729.1	114.38	33.602		
13,500.0	7,500.0	7,250.0	7,182.3	110.3	20.8	76.09	2,202.5	3,167.9	3,936.4	3,820.3	116.07	33.914		
13,600.0	7,500.0	7,250.0	7,182.3	111.9	20.8	76.09	2,202.5	3,167.9	4,029.6	3,911.9	117.76	34.220		
13,700.0	7,500.0	7,228.1	7,160.9	113.6	20.8	75.30	2,205.9	3,170.8	4,122.8	4,003.8	119.04	34.635		
13,753.1	7,500.0	7,227.0	7,159.8	114.5	20.8	75.25	2,206.1	3,171.0	4,172.7	4,052.7	119.91	34.798		
13,800.0	7,500.0	7,226.0	7,158.8	115.3	20.8	75.57	2,206.2	3,171.1	4,216.6	4,095.5	121.06	34.829		
13,900.0	7,500.0	7,223.9	7,156.7	117.0	20.8	76.20	2,206.5	3,171.4	4,310.0	4,186.5	123.49	34.902		
14,000.0	7,500.0	7,221.8	7,154.7	118.7	20.8	76.78	2,206.8	3,171.7	4,403.1	4,277.2	125.86	34.985		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1D-7H-A168 - 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					
14,100.0	7,500.0	7,200.0	7,133.2	120.4	20.7	76.70	2,209.4	3,174.6	4,496.1	4,368.2	127.86	35.165					
14,200.0	7,500.0	7,200.0	7,133.2	122.1	20.7	77.29	2,209.4	3,174.6	4,588.3	4,458.1	130.17	35.249					
14,300.0	7,500.0	7,200.0	7,133.2	123.8	20.7	77.84	2,209.4	3,174.6	4,680.1	4,547.7	132.42	35.342					
14,400.0	7,500.0	7,200.0	7,133.2	125.6	20.7	78.35	2,209.4	3,174.6	4,771.5	4,636.9	134.63	35.443					
14,500.0	7,500.0	7,200.0	7,133.2	127.3	20.7	78.83	2,209.4	3,174.6	4,862.6	4,725.8	136.78	35.551					
14,600.0	7,500.0	7,200.0	7,133.2	129.1	20.7	79.27	2,209.4	3,174.6	4,953.1	4,814.3	138.88	35.665					
14,683.9	7,500.0	7,200.0	7,133.2	130.5	20.7	79.62	2,209.4	3,174.6	5,028.8	4,888.2	140.60	35.766					
14,700.0	7,500.0	7,200.0	7,133.2	130.8	20.7	79.62	2,209.4	3,174.6	5,043.3	4,902.4	140.88	35.798					
14,756.3	7,500.0	7,200.0	7,133.2	131.8	20.7	79.62	2,209.4	3,174.6	5,094.0	4,952.2	141.86	35.910					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1E-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	28.0	28.0	0.0	0.0	65.22	1,870.5	4,052.4	4,463.2					
100.0	100.0	128.0	128.0	0.2	0.2	65.22	1,870.5	4,052.4	4,463.2	4,462.9	0.35	N/A		
200.0	200.0	228.0	228.0	0.3	0.4	65.22	1,870.5	4,052.4	4,463.2	4,462.5	0.70	6,361.297		
300.0	300.0	328.0	328.0	0.5	0.5	-26.58	1,870.5	4,052.4	4,462.4	4,461.4	1.05	4,246.761		
400.0	400.0	452.4	452.4	0.7	0.8	-26.62	1,870.6	4,052.1	4,460.0	4,458.6	1.44	3,089.925		
500.0	499.9	639.4	639.3	0.9	1.1	-26.74	1,872.9	4,048.0	4,454.6	4,452.7	1.95	2,283.400		
600.0	599.7	824.9	824.5	1.1	1.5	-26.96	1,878.0	4,038.5	4,445.7	4,443.2	2.47	1,796.504		
700.0	699.4	1,008.4	1,007.3	1.3	1.9	-27.27	1,885.9	4,023.9	4,433.4	4,430.3	3.03	1,464.153		
800.0	798.9	1,140.2	1,138.2	1.5	2.2	-27.58	1,893.1	4,010.6	4,418.0	4,414.5	3.50	1,261.264		
900.0	898.3	1,237.6	1,234.9	1.8	2.4	-27.85	1,898.6	4,000.4	4,401.0	4,397.0	3.91	1,124.864		
1,000.0	997.4	1,334.7	1,331.3	2.0	2.7	-28.14	1,904.0	3,990.3	4,382.5	4,378.1	4.33	1,011.968		
1,100.0	1,096.3	1,431.3	1,427.2	2.3	2.9	-28.45	1,909.5	3,980.2	4,362.5	4,357.8	4.76	916.916		
1,200.0	1,194.9	1,527.5	1,522.7	2.7	3.2	-28.78	1,914.9	3,970.1	4,341.2	4,336.0	5.19	835.692		
1,300.0	1,293.3	1,623.2	1,617.7	3.0	3.4	-29.14	1,920.3	3,960.1	4,318.4	4,312.7	5.64	765.379		
1,400.0	1,391.2	1,718.4	1,712.2	3.4	3.7	-29.51	1,925.7	3,950.2	4,294.2	4,288.1	6.10	703.819		
1,500.0	1,488.9	1,813.0	1,806.2	3.8	3.9	-29.91	1,931.0	3,940.3	4,268.6	4,262.0	6.57	649.387		
1,600.0	1,586.1	1,907.1	1,899.6	4.3	4.2	-30.33	1,936.3	3,930.4	4,241.7	4,234.6	7.06	600.834		
1,700.0	1,682.9	2,000.5	1,992.4	4.7	4.4	-30.78	1,941.6	3,920.7	4,213.4	4,205.8	7.56	557.195		
1,800.0	1,779.3	2,093.4	2,084.6	5.2	4.7	-31.25	1,946.8	3,911.0	4,183.8	4,175.7	8.08	517.707		
1,900.0	1,875.2	2,185.6	2,176.1	5.8	4.9	-31.75	1,952.0	3,901.3	4,152.9	4,144.2	8.62	481.767		
2,000.0	1,970.5	2,277.1	2,267.0	6.3	5.1	-32.27	1,957.2	3,891.8	4,120.7	4,111.5	9.18	448.888		
2,022.8	1,992.2	2,297.8	2,287.6	6.4	5.2	-32.39	1,958.4	3,889.6	4,113.2	4,103.9	9.31	441.836		
2,100.0	2,065.5	2,368.1	2,357.4	6.9	5.4	-32.67	1,962.3	3,882.3	4,087.7	4,077.9	9.76	419.003		
2,200.0	2,160.5	2,459.1	2,447.7	7.5	5.6	-33.03	1,967.5	3,872.8	4,054.8	4,044.4	10.34	392.064		
2,300.0	2,255.5	2,550.0	2,538.0	8.0	5.9	-33.40	1,972.6	3,863.2	4,022.1	4,011.1	10.94	367.721		
2,400.0	2,350.5	2,641.0	2,628.4	8.6	6.1	-33.78	1,977.7	3,853.7	3,989.5	3,977.9	11.54	345.640		
2,500.0	2,445.5	2,732.0	2,718.7	9.2	6.4	-34.16	1,982.8	3,844.2	3,957.1	3,944.9	12.16	325.536		
2,600.0	2,540.4	2,823.0	2,809.1	9.8	6.6	-34.54	1,988.0	3,834.7	3,924.9	3,912.1	12.78	307.169		
2,700.0	2,635.4	2,914.0	2,899.4	10.4	6.9	-34.93	1,993.1	3,825.2	3,892.8	3,879.4	13.41	290.337		
2,800.0	2,730.4	3,005.0	2,989.8	11.0	7.1	-35.33	1,998.2	3,815.7	3,860.9	3,846.9	14.05	274.863		
2,900.0	2,825.4	3,096.0	3,080.1	11.6	7.4	-35.73	2,003.4	3,806.2	3,829.2	3,814.5	14.69	260.599		
3,000.0	2,920.4	3,187.0	3,170.4	12.2	7.6	-36.14	2,008.5	3,796.7	3,797.7	3,782.4	15.35	247.414		
3,100.0	3,015.4	3,277.9	3,260.8	12.8	7.8	-36.56	2,013.6	3,787.2	3,766.4	3,750.4	16.01	235.199		
3,200.0	3,110.3	3,368.9	3,351.1	13.3	8.1	-36.98	2,018.8	3,777.7	3,735.3	3,718.6	16.69	223.854		
3,300.0	3,205.3	3,459.9	3,441.5	13.9	8.3	-37.41	2,023.9	3,768.2	3,704.4	3,687.1	17.37	213.296		
3,400.0	3,300.3	3,550.9	3,531.8	14.5	8.6	-37.85	2,029.0	3,758.6	3,673.7	3,655.7	18.06	203.451		
3,500.0	3,395.3	3,641.9	3,622.2	15.1	8.8	-38.29	2,034.2	3,749.1	3,643.2	3,624.5	18.76	194.252		
3,600.0	3,490.3	3,732.9	3,712.5	15.7	9.1	-38.74	2,039.3	3,739.6	3,613.0	3,593.5	19.46	185.643		
3,700.0	3,585.2	3,823.9	3,802.8	16.3	9.3	-39.19	2,044.4	3,730.1	3,582.9	3,562.8	20.18	177.571		
3,800.0	3,680.2	3,914.8	3,893.2	16.9	9.6	-39.66	2,049.6	3,720.6	3,553.1	3,532.2	20.90	169.993		
3,900.0	3,775.2	4,005.8	3,983.5	17.5	9.8	-40.13	2,054.7	3,711.1	3,523.6	3,501.9	21.63	162.867		
4,000.0	3,870.2	4,096.8	4,073.9	18.1	10.1	-40.60	2,059.8	3,701.6	3,494.2	3,471.9	22.38	156.157		
4,100.0	3,965.2	4,187.8	4,164.2	18.7	10.3	-41.09	2,065.0	3,692.1	3,465.1	3,442.0	23.13	149.832		
4,200.0	4,060.2	4,278.8	4,254.6	19.3	10.5	-41.58	2,070.1	3,682.6	3,436.3	3,412.4	23.89	143.861		
4,300.0	4,155.1	4,369.8	4,344.9	19.9	10.8	-42.08	2,075.2	3,673.1	3,407.8	3,383.1	24.65	138.218		
4,400.0	4,250.1	4,460.8	4,435.3	20.5	11.0	-42.59	2,080.4	3,663.5	3,379.5	3,354.0	25.43	132.880		
4,500.0	4,345.1	4,551.8	4,525.6	21.1	11.3	-43.10	2,085.5	3,654.0	3,351.4	3,325.2	26.22	127.826		
4,600.0	4,440.1	4,642.7	4,615.9	21.7	11.5	-43.62	2,090.6	3,644.5	3,323.7	3,296.7	27.01	123.035		
4,700.0	4,535.1	4,733.7	4,706.3	22.3	11.8	-44.15	2,095.7	3,635.0	3,296.2	3,268.4	27.82	118.491		
4,800.0	4,630.1	4,824.7	4,796.6	22.9	12.0	-44.69	2,100.9	3,625.5	3,269.1	3,240.5	28.63	114.176		
4,900.0	4,725.0	4,915.7	4,887.0	23.5	12.3	-45.24	2,106.0	3,616.0	3,242.2	3,212.8	29.45	110.076		
5,000.0	4,820.0	5,006.7	4,977.3	24.1	12.5	-45.79	2,111.1	3,606.5	3,215.7	3,185.4	30.29	106.178		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1E-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	5,097.7	5,067.7	24.6	12.8	-46.35	2,116.3	3,597.0	3,189.5	3,158.4	31.13	102.469		
5,200.0	5,010.0	5,188.7	5,158.0	25.2	13.0	-46.92	2,121.4	3,587.5	3,163.6	3,131.6	31.98	98.938		
5,300.0	5,105.0	5,279.7	5,248.3	25.8	13.3	-47.50	2,126.5	3,578.0	3,138.0	3,105.2	32.83	95.574		
5,400.0	5,199.9	5,254.4	7,530.0	26.4	39.7	-3.07	-41.8	3,338.2	3,046.2	3,001.1	45.14	67.485		
5,500.0	5,294.9	5,264.4	7,530.0	27.0	39.7	-3.02	-42.8	3,338.2	2,954.2	2,908.9	45.34	65.155		
5,600.0	5,389.9	5,273.3	7,530.0	27.6	39.7	-2.97	-43.8	3,338.2	2,862.7	2,817.2	45.54	62.858		
5,700.0	5,484.9	5,283.3	7,530.0	28.2	39.7	-2.92	-44.8	3,338.2	2,771.9	2,726.1	45.74	60.594		
5,800.0	5,579.9	5,293.3	7,530.0	28.8	39.7	-2.88	-45.8	3,338.2	2,681.6	2,635.7	45.95	58.365		
5,900.0	5,674.9	5,303.3	7,530.0	29.4	39.7	-2.83	-46.8	3,338.2	2,592.1	2,546.0	46.15	56.170		
6,000.0	5,769.8	5,313.3	7,530.0	30.0	39.8	-2.78	-47.8	3,338.2	2,503.4	2,457.1	46.35	54.012		
6,100.0	5,864.8	5,323.3	7,530.0	30.6	39.8	-2.73	-48.7	3,338.2	2,415.6	2,369.0	46.55	51.892		
6,200.0	5,959.8	5,333.3	7,530.0	31.2	39.8	-2.68	-49.7	3,338.2	2,328.7	2,282.0	46.75	49.811		
6,300.0	6,054.8	5,343.3	7,530.0	31.8	39.8	-2.64	-50.7	3,338.2	2,243.0	2,196.0	46.95	47.771		
6,400.0	6,149.8	5,353.2	7,530.0	32.4	39.8	-2.59	-51.7	3,338.2	2,158.4	2,111.3	47.15	45.774		
6,500.0	6,244.7	5,363.2	7,530.0	33.0	39.8	-2.54	-52.7	3,338.2	2,073.3	2,027.9	47.35	43.824		
6,600.0	6,339.7	5,373.2	7,530.0	33.6	39.9	-2.49	-53.7	3,338.2	1,993.6	1,946.1	47.55	41.923		
6,700.0	6,434.7	5,383.2	7,530.0	34.2	39.9	-2.44	-54.7	3,338.2	1,913.8	1,866.0	47.76	40.074		
6,800.0	6,529.7	5,393.2	7,530.0	34.8	39.9	-2.40	-55.7	3,338.2	1,835.9	1,787.9	47.96	38.283		
6,900.0	6,624.7	5,403.2	7,530.0	35.4	39.9	-2.35	-56.6	3,338.2	1,760.2	1,712.1	48.16	36.552		
7,000.0	6,719.7	5,413.2	7,530.0	36.0	39.9	-2.30	-57.6	3,338.2	1,687.1	1,638.7	48.36	34.888		
7,100.0	6,814.6	5,423.1	7,530.0	36.6	39.9	-2.25	-58.6	3,338.2	1,616.9	1,568.3	48.56	33.298		
7,200.0	6,909.6	5,433.1	7,530.0	37.2	39.9	-2.20	-59.6	3,338.2	1,549.9	1,501.1	48.76	31.788		
7,225.4	6,933.7	5,443.4	7,530.0	37.3	39.9	-2.19	-59.9	3,338.2	1,533.5	1,484.7	48.81	31.418		
7,250.0	6,957.1	5,453.1	7,530.0	37.5	39.9	7.32	-59.6	3,338.2	1,517.8	1,468.6	49.22	30.835		
7,300.0	7,004.6	5,463.3	7,530.0	37.8	39.9	25.89	-55.8	3,338.2	1,487.1	1,436.8	50.25	29.592		
7,350.0	7,051.7	5,473.2	7,530.0	38.0	39.8	41.96	-47.6	3,338.2	1,458.0	1,406.7	51.36	28.387		
7,400.0	7,098.0	5,483.8	7,530.0	38.3	39.6	54.82	-35.3	3,338.2	1,430.9	1,378.6	52.36	27.328		
7,450.0	7,143.3	5,493.3	7,530.0	38.5	39.3	64.70	-18.7	3,338.2	1,406.0	1,352.9	53.12	26.468		
7,500.0	7,187.1	5,481.7	7,530.0	38.8	39.0	72.18	1.8	3,338.2	1,383.4	1,329.8	53.58	25.821		
7,550.0	7,229.2	5,457.3	7,530.0	39.0	38.6	77.81	26.3	3,338.2	1,363.2	1,309.5	53.71	25.382		
7,600.0	7,269.2	5,429.1	7,530.0	39.2	38.2	82.02	54.4	3,338.2	1,345.5	1,291.9	53.53	25.135		
7,650.0	7,306.8	5,397.6	7,530.0	39.4	37.7	85.14	86.0	3,338.2	1,330.3	1,277.2	53.07	25.064 SF		
7,700.0	7,341.7	5,367.2	7,530.0	39.6	37.2	87.41	120.8	3,338.2	1,317.5	1,265.2	52.39	25.149		
7,750.0	7,373.7	5,324.9	7,530.0	39.8	36.6	89.00	158.6	3,338.1	1,307.2	1,255.7	51.52	25.373		
7,800.0	7,402.5	5,284.5	7,530.0	39.9	36.0	90.07	199.1	3,338.1	1,299.2	1,248.6	50.51	25.719		
7,850.0	7,427.9	5,241.6	7,530.0	40.1	35.3	90.73	241.9	3,338.1	1,293.2	1,243.8	49.42	26.170		
7,900.0	7,449.7	5,196.7	7,530.0	40.2	34.6	91.06	286.8	3,338.1	1,289.3	1,241.1	48.27	26.713		
7,950.0	7,467.8	5,150.1	7,530.0	40.4	34.0	91.16	333.4	3,338.1	1,287.3	1,240.2	47.10	27.331 ES		
7,984.9	7,478.1	5,116.8	7,530.0	40.5	33.5	91.11	366.8	3,338.1	1,286.9	1,240.6	46.29	27.801 CC		
8,000.0	7,481.9	5,102.2	7,530.0	40.6	33.2	91.06	381.3	3,338.1	1,287.0	1,241.0	45.94	28.016		
8,050.0	7,492.0	5,053.3	7,530.0	40.7	32.5	90.83	430.3	3,338.1	1,288.2	1,243.4	44.80	28.755		
8,100.0	7,498.1	5,003.7	7,530.0	40.9	31.8	90.49	479.8	3,338.1	1,291.0	1,247.3	43.69	29.547		
8,148.1	7,500.0	4,955.8	7,530.0	41.0	31.1	90.09	527.7	3,338.1	1,294.9	1,252.3	42.67	30.350		
8,200.0	7,500.0	4,904.2	7,530.0	41.2	30.4	90.09	579.3	3,338.1	1,299.9	1,257.6	42.35	30.697		
8,300.0	7,500.0	4,804.6	7,530.0	41.5	29.0	90.09	678.9	3,338.1	1,309.5	1,267.6	41.86	31.281		
8,400.0	7,500.0	4,705.1	7,530.0	42.0	27.7	90.09	778.4	3,338.0	1,319.0	1,277.5	41.53	31.764		
8,500.0	7,500.0	4,605.6	7,530.0	42.5	26.4	90.09	878.0	3,338.0	1,328.6	1,287.3	41.33	32.147		
8,600.0	7,500.0	4,506.0	7,530.0	43.1	25.2	90.09	977.5	3,338.0	1,338.2	1,296.9	41.26	32.433		
8,700.0	7,500.0	4,406.5	7,530.0	43.7	24.0	90.09	1,077.1	3,338.0	1,347.7	1,306.4	41.31	32.622		
8,800.0	7,500.0	4,306.9	7,530.0	44.4	22.9	90.08	1,176.6	3,338.0	1,357.3	1,315.8	41.49	32.711		
8,900.0	7,500.0	4,207.4	7,530.0	45.2	21.9	90.08	1,276.1	3,338.0	1,366.9	1,325.1	41.80	32.697		
9,000.0	7,500.0	4,107.9	7,530.0	46.0	21.0	90.08	1,375.7	3,337.9	1,376.5	1,334.2	42.26	32.573		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1E-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	8,008.3	7,530.0	46.9	20.1	90.08	1,475.2	3,337.9	1,386.0	1,343.1	42.87	32.331		
9,200.0	7,500.0	7,921.7	7,527.2	47.8	19.5	89.97	1,561.7	3,338.2	1,395.9	1,352.2	43.75	31.908		
9,300.0	7,500.0	7,840.9	7,515.6	48.8	19.1	89.49	1,641.7	3,339.4	1,407.1	1,362.3	44.81	31.399		
9,400.0	7,500.0	7,763.7	7,496.2	49.8	18.7	88.71	1,716.3	3,341.4	1,419.8	1,373.8	46.04	30.839		
9,500.0	7,500.0	7,691.7	7,471.0	50.8	18.4	87.69	1,783.7	3,344.1	1,434.4	1,387.0	47.40	30.263		
9,600.0	7,500.0	7,625.6	7,442.1	51.9	18.2	86.55	1,843.1	3,347.1	1,451.5	1,402.6	48.87	29.703		
9,700.0	7,500.0	7,565.6	7,411.2	53.1	18.1	85.34	1,894.3	3,350.4	1,471.4	1,421.0	50.39	29.203		
9,803.1	7,500.0	7,510.2	7,379.0	54.3	18.0	84.09	1,939.3	3,353.7	1,495.4	1,443.4	52.00	28.756		
9,900.0	7,500.0	7,463.7	7,349.4	55.4	17.9	82.96	1,974.9	3,356.9	1,521.5	1,468.0	53.54	28.418		
10,000.0	7,500.0	7,420.9	7,320.1	56.6	17.9	81.85	2,006.1	3,359.9	1,552.2	1,497.0	55.13	28.156		
10,100.0	7,500.0	7,382.7	7,292.5	57.9	17.9	80.82	2,032.3	3,362.8	1,586.8	1,530.0	56.71	27.980		
10,200.0	7,500.0	7,350.0	7,267.8	59.2	17.9	79.91	2,053.5	3,365.4	1,625.3	1,567.0	58.29	27.883		
10,300.0	7,500.0	7,318.2	7,242.8	60.5	17.9	79.00	2,073.0	3,368.1	1,667.8	1,607.9	59.86	27.863		
10,400.0	7,500.0	7,300.0	7,228.1	61.8	17.9	78.47	2,083.7	3,369.6	1,714.1	1,652.7	61.45	27.894		
10,500.0	7,500.0	7,266.5	7,200.5	63.1	17.9	77.47	2,102.3	3,372.5	1,764.0	1,701.0	62.98	28.011		
10,600.0	7,500.0	7,250.0	7,186.5	64.5	17.9	76.98	2,111.1	3,374.0	1,817.4	1,752.8	64.55	28.153		
10,703.1	7,500.0	7,223.9	7,164.1	65.9	17.9	76.19	2,124.1	3,376.3	1,875.8	1,809.7	66.12	28.369		
10,800.0	7,500.0	7,200.0	7,143.1	67.3	17.9	75.63	2,135.4	3,378.5	1,933.1	1,865.0	68.11	28.381		
10,900.0	7,500.0	7,200.0	7,143.1	68.8	17.9	75.82	2,135.4	3,378.5	1,993.8	1,923.4	70.31	28.357		
11,000.0	7,500.0	7,174.6	7,120.5	70.2	17.9	75.25	2,146.6	3,380.9	2,055.7	1,983.4	72.32	28.426		
11,100.0	7,500.0	7,150.0	7,098.1	71.7	17.9	74.72	2,156.7	3,383.3	2,119.2	2,044.9	74.31	28.520		
11,200.0	7,500.0	7,150.0	7,098.1	73.3	17.9	74.94	2,156.7	3,383.3	2,183.8	2,107.3	76.48	28.555		
11,253.1	7,500.0	7,150.0	7,098.1	74.1	17.9	75.06	2,156.7	3,383.3	2,218.6	2,141.0	77.63	28.581		
11,300.0	7,500.0	7,150.0	7,098.1	74.8	17.9	75.06	2,156.7	3,383.3	2,249.8	2,171.4	78.40	28.696		
11,400.0	7,500.0	7,124.7	7,074.8	76.3	17.8	74.32	2,166.3	3,385.7	2,317.6	2,237.8	79.82	29.035		
11,500.0	7,500.0	7,100.0	7,051.8	77.9	17.8	73.58	2,174.8	3,388.1	2,387.9	2,306.6	81.23	29.398		
11,600.0	7,500.0	7,100.0	7,051.8	79.5	17.8	73.58	2,174.8	3,388.1	2,459.7	2,376.9	82.87	29.680		
11,700.0	7,500.0	7,100.0	7,051.8	81.0	17.8	73.58	2,174.8	3,388.1	2,533.5	2,449.0	84.52	29.974		
11,800.0	7,500.0	7,100.0	7,051.8	82.6	17.8	73.58	2,174.8	3,388.1	2,609.0	2,522.9	86.17	30.277		
11,900.0	7,500.0	7,080.1	7,033.1	84.2	17.8	72.99	2,181.0	3,390.1	2,685.9	2,598.3	87.59	30.664		
12,000.0	7,500.0	7,072.9	7,026.2	85.8	17.8	72.78	2,183.2	3,390.8	2,764.2	2,675.1	89.15	31.006		
12,100.0	7,500.0	7,050.0	7,004.3	87.4	17.8	72.10	2,189.5	3,393.1	2,844.0	2,753.5	90.50	31.425		
12,200.0	7,500.0	7,050.0	7,004.3	89.0	17.8	72.10	2,189.5	3,393.1	2,924.7	2,832.6	92.14	31.741		
12,300.0	7,500.0	7,050.0	7,004.3	90.6	17.8	72.10	2,189.5	3,393.1	3,006.6	2,912.8	93.79	32.057		
12,400.0	7,500.0	7,050.0	7,004.3	92.2	17.8	72.10	2,189.5	3,393.1	3,089.5	2,994.0	95.43	32.374		
12,500.0	7,500.0	7,050.0	7,004.3	93.8	17.8	72.10	2,189.5	3,393.1	3,173.4	3,076.3	97.08	32.689		
12,600.0	7,500.0	7,050.0	7,004.3	95.5	17.8	72.10	2,189.5	3,393.1	3,258.2	3,159.5	98.72	33.003		
12,700.0	7,500.0	7,050.0	7,004.3	97.1	17.8	72.10	2,189.5	3,393.1	3,343.8	3,243.5	100.37	33.315		
12,800.0	7,500.0	7,028.4	6,983.5	98.7	17.8	71.46	2,194.9	3,395.3	3,429.9	3,328.2	101.68	33.732		
12,900.0	7,500.0	7,024.1	6,979.4	100.4	17.8	71.33	2,195.9	3,395.8	3,516.9	3,413.6	103.25	34.061		
13,000.0	7,500.0	7,000.0	6,955.9	102.0	17.8	70.62	2,200.9	3,398.2	3,604.8	3,500.3	104.49	34.500		
13,100.0	7,500.0	7,000.0	6,955.9	103.7	17.8	70.62	2,200.9	3,398.2	3,693.0	3,586.8	106.12	34.799		
13,200.0	7,500.0	7,000.0	6,955.9	105.3	17.8	70.62	2,200.9	3,398.2	3,781.7	3,673.9	107.76	35.093		
13,300.0	7,500.0	7,000.0	6,955.9	107.0	17.8	70.62	2,200.9	3,398.2	3,871.0	3,761.6	109.40	35.384		
13,400.0	7,500.0	7,000.0	6,955.9	108.6	17.8	70.62	2,200.9	3,398.2	3,960.7	3,849.7	111.04	35.671		
13,500.0	7,500.0	7,000.0	6,955.9	110.3	17.8	70.62	2,200.9	3,398.2	4,051.0	3,938.3	112.68	35.953		
13,600.0	7,500.0	7,000.0	6,955.9	111.9	17.8	70.62	2,200.9	3,398.2	4,141.7	4,027.4	114.31	36.231		
13,700.0	7,500.0	7,000.0	6,955.9	113.6	17.8	70.62	2,200.9	3,398.2	4,232.8	4,116.9	115.95	36.504		
13,753.1	7,500.0	7,000.0	6,955.9	114.5	17.8	70.62	2,200.9	3,398.2	4,281.4	4,164.6	116.83	36.648		
13,800.0	7,500.0	7,000.0	6,955.9	115.3	17.8	71.00	2,200.9	3,398.2	4,324.3	4,206.2	118.06	36.627		
13,900.0	7,500.0	7,000.0	6,955.9	117.0	17.8	71.78	2,200.9	3,398.2	4,415.5	4,294.8	120.66	36.596		
14,000.0	7,500.0	7,000.0	6,955.9	118.7	17.8	72.51	2,200.9	3,398.2	4,506.3	4,383.1	123.18	36.582		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1E-7H-A168 - HZ - Plan #2		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference				Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation		Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
14,100.0	7,500.0	7,000.0	6,955.9	120.4	17.8	73.19	2,200.9	3,398.2	4,596.8	4,471.1	125.65	36.584						
14,200.0	7,500.0	7,000.0	6,955.9	122.1	17.8	73.84	2,200.9	3,398.2	4,686.8	4,558.8	128.06	36.600						
14,300.0	7,500.0	7,000.0	6,955.9	123.8	17.8	74.45	2,200.9	3,398.2	4,776.5	4,646.1	130.40	36.629						
14,400.0	7,500.0	6,977.9	6,934.3	125.6	17.7	74.49	2,204.9	3,400.5	4,865.4	4,733.0	132.37	36.756						
14,500.0	7,500.0	6,975.6	6,932.0	127.3	17.7	74.99	2,205.3	3,400.7	4,954.1	4,819.6	134.58	36.811						
14,600.0	7,500.0	6,973.4	6,929.8	129.1	17.7	75.47	2,205.6	3,401.0	5,042.5	4,905.7	136.74	36.875						
14,683.9	7,500.0	6,950.0	6,906.8	130.5	17.7	75.38	2,208.9	3,403.4	5,116.6	4,978.3	138.23	37.016						
14,700.0	7,500.0	6,950.0	6,906.8	130.8	17.7	75.38	2,208.9	3,403.4	5,130.7	4,992.2	138.50	37.044						
14,756.3	7,500.0	6,950.0	6,906.8	131.8	17.7	75.38	2,208.9	3,403.4	5,180.2	5,040.7	139.46	37.144						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - THOMAS 33-7 (EXISTING) - ENCANA WELL - SUR												Offset Site Error: 0.0 ft			
Survey Program: 59-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	155.42	-2,317.9	1,060.0	2,548.8						
100.0	100.0	75.4	75.4	0.2	0.1	155.41	-2,318.2	1,060.6	2,549.5	2,549.2	0.26	9,879.103			
200.0	200.0	183.6	183.6	0.3	0.3	155.35	-2,318.5	1,063.7	2,551.0	2,550.4	0.62	4,091.382			
300.0	300.0	343.9	343.5	0.5	0.6	63.35	-2,314.0	1,073.1	2,550.6	2,549.5	1.13	2,254.266			
400.0	400.0	479.9	478.6	0.7	1.0	63.12	-2,305.1	1,085.6	2,547.3	2,545.6	1.65	1,541.282			
500.0	499.9	599.1	596.2	0.9	1.4	62.83	-2,293.7	1,101.3	2,542.2	2,540.0	2.21	1,148.250			
600.0	599.7	735.1	729.0	1.1	1.9	62.41	-2,276.4	1,124.7	2,535.3	2,532.4	2.94	861.495			
700.0	699.4	838.6	829.3	1.3	2.4	62.07	-2,260.8	1,145.2	2,526.8	2,523.2	3.60	701.064			
800.0	798.9	1,029.1	1,013.3	1.5	3.3	61.43	-2,229.6	1,183.5	2,517.1	2,512.4	4.74	531.218			
900.0	898.3	1,157.0	1,134.8	1.8	4.0	60.96	-2,202.4	1,212.4	2,502.9	2,497.2	5.68	440.376			
1,000.0	997.4	1,257.9	1,230.1	2.0	4.6	60.60	-2,179.5	1,236.6	2,487.3	2,480.8	6.52	381.347			
1,100.0	1,096.3	1,335.9	1,303.8	2.3	5.1	60.40	-2,162.2	1,255.1	2,471.4	2,464.2	7.23	342.013			
1,200.0	1,194.9	1,410.3	1,374.6	2.7	5.5	60.25	-2,146.7	1,272.3	2,455.7	2,447.7	7.94	309.275			
1,300.0	1,293.3	1,491.8	1,451.7	3.0	6.0	60.07	-2,129.9	1,292.5	2,440.1	2,431.3	8.73	279.475			
1,400.0	1,391.2	1,614.9	1,568.0	3.4	6.8	59.77	-2,104.0	1,323.2	2,423.5	2,413.7	9.80	247.424			
1,500.0	1,488.9	1,722.0	1,669.1	3.8	7.4	59.56	-2,080.4	1,349.8	2,405.3	2,394.5	10.78	223.109			
1,600.0	1,586.1	1,816.0	1,757.9	4.3	8.0	59.45	-2,060.0	1,372.9	2,386.3	2,374.6	11.71	203.858			
1,700.0	1,682.9	1,920.2	1,856.4	4.7	8.6	59.35	-2,037.3	1,398.1	2,366.3	2,353.6	12.71	186.107			
1,800.0	1,779.3	2,009.5	1,940.9	5.2	9.1	59.33	-2,017.9	1,419.6	2,345.5	2,331.8	13.64	171.894			
1,900.0	1,875.2	2,092.1	2,019.3	5.8	9.6	59.38	-2,000.7	1,438.9	2,324.3	2,309.8	14.55	159.707			
2,000.0	1,970.5	2,192.9	2,115.0	6.3	10.2	59.44	-1,980.0	1,462.8	2,302.6	2,287.0	15.61	147.485			
2,022.8	1,992.2	2,216.4	2,137.3	6.4	10.4	59.45	-1,975.0	1,468.6	2,297.5	2,281.7	15.86	144.872			
2,100.0	2,065.5	2,289.0	2,205.9	6.9	10.8	59.36	-1,959.6	1,486.4	2,280.2	2,263.5	16.67	136.824			
2,200.0	2,160.5	2,382.9	2,294.8	7.5	11.4	59.23	-1,939.9	1,509.4	2,257.9	2,240.2	17.71	127.493			
2,300.0	2,255.5	2,486.4	2,392.9	8.0	12.0	59.10	-1,918.4	1,534.5	2,235.6	2,216.8	18.80	118.939			
2,400.0	2,350.5	2,574.4	2,476.5	8.6	12.5	59.01	-1,900.3	1,555.0	2,213.2	2,193.4	19.80	111.788			
2,500.0	2,445.5	2,693.2	2,589.4	9.2	13.2	58.87	-1,875.9	1,583.3	2,191.1	2,170.1	20.97	104.479			
2,600.0	2,540.4	2,772.7	2,664.7	9.8	13.7	58.78	-1,859.2	1,602.0	2,168.4	2,146.4	21.94	98.832			
2,700.0	2,635.4	2,896.0	2,781.3	10.4	14.4	58.58	-1,832.9	1,632.5	2,146.0	2,122.8	23.17	92.609			
2,800.0	2,730.4	2,972.0	2,853.1	11.0	14.9	58.46	-1,816.3	1,651.0	2,123.1	2,099.0	24.12	88.038			
2,900.0	2,825.4	3,080.1	2,955.5	11.6	15.6	58.30	-1,793.5	1,677.2	2,100.6	2,075.4	25.25	83.196			
3,000.0	2,920.4	3,181.0	3,050.7	12.2	16.2	58.13	-1,771.2	1,702.0	2,077.5	2,051.1	26.36	78.825			
3,100.0	3,015.4	3,276.0	3,140.2	12.8	16.8	57.95	-1,750.0	1,725.7	2,054.5	2,027.1	27.43	74.907			
3,200.0	3,110.3	3,363.3	3,222.7	13.3	17.3	57.79	-1,731.3	1,747.2	2,032.0	2,003.6	28.43	71.477			
3,300.0	3,205.3	3,449.1	3,304.2	13.9	17.8	57.68	-1,713.7	1,767.6	2,009.9	1,980.5	29.41	68.336			
3,400.0	3,300.3	3,567.9	3,417.1	14.5	18.5	57.51	-1,689.4	1,795.5	1,987.6	1,957.1	30.59	64.985			
3,500.0	3,395.3	3,656.0	3,500.8	15.1	19.0	57.39	-1,671.0	1,816.0	1,965.0	1,933.4	31.58	62.225			
3,600.0	3,490.3	3,752.0	3,591.9	15.7	19.6	57.25	-1,651.0	1,838.5	1,942.5	1,909.9	32.63	59.536			
3,700.0	3,585.2	3,838.0	3,673.3	16.3	20.1	57.10	-1,633.0	1,859.3	1,920.3	1,886.7	33.63	57.097			
3,800.0	3,680.2	3,950.4	3,779.5	16.9	20.8	56.87	-1,609.0	1,887.6	1,898.3	1,863.5	34.80	54.553			
3,900.0	3,775.2	4,053.4	3,876.6	17.5	21.4	56.65	-1,586.3	1,913.2	1,875.6	1,839.7	35.90	52.247			
4,000.0	3,870.2	4,144.2	3,962.3	18.1	22.0	56.44	-1,566.4	1,935.8	1,853.0	1,816.1	36.93	50.179			
4,100.0	3,965.2	4,238.3	4,051.3	18.7	22.6	56.25	-1,546.3	1,958.8	1,830.7	1,792.7	37.96	48.227			
4,200.0	4,060.2	4,337.9	4,145.7	19.3	23.2	56.06	-1,525.4	1,982.8	1,808.4	1,769.4	39.02	46.349			
4,300.0	4,155.1	4,433.2	4,236.3	19.9	23.7	55.90	-1,505.8	2,005.0	1,786.2	1,746.1	40.04	44.611			
4,400.0	4,250.1	4,531.4	4,329.8	20.5	24.3	55.75	-1,486.0	2,027.5	1,764.0	1,722.9	41.07	42.956			
4,500.0	4,345.1	4,633.9	4,427.5	21.1	24.9	55.60	-1,465.2	2,050.6	1,741.5	1,699.4	42.12	41.345			
4,600.0	4,440.1	4,723.9	4,512.8	21.7	25.4	55.42	-1,446.3	2,071.9	1,719.2	1,676.1	43.12	39.872			
4,700.0	4,535.1	4,828.7	4,612.5	22.3	26.0	55.24	-1,425.1	2,096.1	1,697.2	1,653.0	44.20	38.400			
4,800.0	4,630.1	4,917.0	4,696.2	22.9	26.6	55.04	-1,406.2	2,117.4	1,674.7	1,629.5	45.18	37.070			
4,900.0	4,725.0	5,022.4	4,796.3	23.5	27.2	54.83	-1,384.5	2,142.1	1,652.6	1,606.4	46.24	35.739			
5,000.0	4,820.0	5,125.2	4,894.2	24.1	27.8	54.64	-1,363.4	2,165.4	1,630.1	1,582.8	47.27	34.482			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - THOMAS 33-7 (EXISTING) - ENCANA WELL - SUR												Offset Site Error: 0.0 ft	
Survey Program: 59-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	4,915.0	5,230.3	4,994.2	24.6	28.4	54.45	-1,341.3	2,188.8	1,607.0	1,558.7	48.33	33.253	
5,200.0	5,010.0	5,318.8	5,078.4	25.2	28.9	54.27	-1,322.8	2,208.9	1,584.3	1,535.0	49.29	32.144	
5,300.0	5,105.0	5,416.7	5,171.9	25.8	29.4	54.12	-1,302.9	2,229.9	1,561.4	1,511.1	50.27	31.062	
5,400.0	5,199.9	5,497.0	5,249.2	26.4	29.8	54.07	-1,288.0	2,246.0	1,539.0	1,487.9	51.15	30.089	
5,500.0	5,294.9	5,572.0	5,321.2	27.0	30.2	54.00	-1,274.6	2,261.8	1,518.0	1,465.9	52.02	29.179	
5,600.0	5,389.9	5,665.6	5,411.2	27.6	30.7	53.92	-1,259.2	2,282.3	1,498.3	1,445.4	52.97	28.286	
5,700.0	5,484.9	5,786.9	5,528.1	28.2	31.3	53.84	-1,238.2	2,307.4	1,477.2	1,423.2	54.05	27.332	
5,800.0	5,579.9	5,882.8	5,621.0	28.8	31.7	53.86	-1,222.6	2,325.5	1,456.1	1,401.1	54.96	26.492	
5,900.0	5,674.9	5,981.1	5,716.6	29.4	32.1	53.97	-1,207.8	2,342.3	1,434.8	1,378.9	55.88	25.675	
6,000.0	5,769.8	6,089.6	5,822.8	30.0	32.6	54.19	-1,192.6	2,358.7	1,413.3	1,356.4	56.84	24.865	
6,100.0	5,864.8	6,180.4	5,912.0	30.6	32.9	54.46	-1,180.5	2,370.6	1,391.2	1,333.5	57.69	24.114	
6,200.0	5,959.8	6,271.1	6,001.7	31.2	33.2	54.88	-1,170.9	2,380.5	1,370.1	1,311.5	58.54	23.406	
6,300.0	6,054.8	6,364.7	6,094.5	31.8	33.4	55.42	-1,162.5	2,388.9	1,349.2	1,289.9	59.38	22.724	
6,400.0	6,149.8	6,458.7	6,188.0	32.4	33.6	56.06	-1,155.4	2,395.8	1,328.8	1,268.6	60.21	22.069	
6,500.0	6,244.7	6,546.6	6,275.6	33.0	33.7	56.77	-1,150.1	2,400.8	1,309.0	1,248.0	60.99	21.463	
6,600.0	6,339.7	6,637.0	6,365.8	33.6	33.9	57.62	-1,146.4	2,404.3	1,290.0	1,228.2	61.79	20.877	
6,700.0	6,434.7	6,726.8	6,455.5	34.2	34.0	58.53	-1,143.4	2,407.1	1,271.7	1,209.1	62.58	20.321	
6,800.0	6,529.7	6,810.6	6,539.3	34.8	34.0	59.48	-1,142.2	2,408.7	1,254.6	1,191.3	63.34	19.808	
6,900.0	6,624.7	6,915.6	6,644.3	35.4	34.1	60.74	-1,141.2	2,409.7	1,238.1	1,174.0	64.15	19.301	
7,000.0	6,719.7	7,004.8	6,733.5	36.0	34.2	61.91	-1,140.8	2,409.4	1,221.9	1,157.0	64.90	18.826	
7,100.0	6,814.6	7,096.4	6,825.1	36.6	34.2	63.12	-1,140.7	2,409.2	1,206.7	1,141.1	65.66	18.378	
7,200.0	6,909.6	7,190.9	6,919.6	37.2	34.3	64.40	-1,140.7	2,409.3	1,192.3	1,125.9	66.41	17.953	
7,225.4	6,933.7	7,215.4	6,944.1	37.3	34.3	64.74	-1,140.7	2,409.3	1,188.7	1,122.1	66.60	17.848	
7,250.0	6,957.1	7,241.1	6,969.8	37.5	34.3	72.69	-1,140.7	2,409.3	1,185.8	1,118.8	67.04	17.689	
7,300.0	7,004.6	7,293.0	7,021.7	37.8	34.4	88.46	-1,140.5	2,409.2	1,182.9	1,115.4	67.59	17.502	
7,309.2	7,013.3	7,302.6	7,031.3	37.8	34.4	91.18	-1,140.4	2,409.2	1,182.9	1,115.2	67.64	17.487 CC, ES, SF	
7,350.0	7,051.7	7,340.6	7,069.3	38.0	34.4	102.15	-1,140.2	2,409.1	1,184.3	1,116.7	67.68	17.500	
7,400.0	7,098.0	7,386.1	7,114.8	38.3	34.4	113.06	-1,139.9	2,409.1	1,190.2	1,122.9	67.30	17.684	
7,450.0	7,143.3	7,429.8	7,158.5	38.5	34.5	121.43	-1,139.6	2,409.2	1,200.5	1,134.0	66.47	18.061	
7,500.0	7,187.1	7,471.8	7,200.5	38.8	34.5	127.76	-1,139.4	2,409.3	1,215.2	1,150.0	65.18	18.643	
7,550.0	7,229.2	7,512.0	7,240.7	39.0	34.5	132.57	-1,139.3	2,409.4	1,234.3	1,170.8	63.46	19.449	
7,600.0	7,269.2	7,551.1	7,279.8	39.2	34.5	136.25	-1,139.2	2,409.5	1,257.5	1,196.2	61.33	20.506	
7,650.0	7,306.8	7,588.4	7,317.1	39.4	34.6	139.04	-1,139.2	2,409.6	1,284.7	1,225.9	58.80	21.849	
7,700.0	7,341.7	7,623.0	7,351.7	39.6	34.6	141.10	-1,139.2	2,409.6	1,315.6	1,259.7	55.93	23.524	
7,750.0	7,373.7	7,653.6	7,382.3	39.8	34.6	142.47	-1,139.2	2,409.6	1,349.9	1,297.2	52.76	25.589	
7,800.0	7,402.5	7,681.0	7,409.7	39.9	34.6	143.22	-1,139.2	2,409.6	1,387.4	1,338.1	49.35	28.112	
7,850.0	7,427.9	7,705.2	7,433.8	40.1	34.6	143.31	-1,139.3	2,409.6	1,427.8	1,382.0	45.82	31.164	
7,900.0	7,449.7	7,726.5	7,455.2	40.2	34.7	142.62	-1,139.3	2,409.6	1,470.6	1,428.4	42.27	34.792	
7,950.0	7,467.8	7,745.1	7,473.8	40.4	34.7	140.91	-1,139.4	2,409.6	1,515.6	1,476.6	38.91	38.946	
8,000.0	7,481.9	7,759.7	7,488.4	40.6	34.7	137.48	-1,139.4	2,409.6	1,562.2	1,526.1	36.12	43.246	
8,050.0	7,492.0	7,770.2	7,498.9	40.7	34.7	130.86	-1,139.5	2,409.6	1,610.2	1,575.6	34.57	46.575	
8,100.0	7,498.1	7,776.4	7,505.1	40.9	34.7	117.22	-1,139.5	2,409.6	1,659.1	1,623.7	35.44	46.811	
8,148.1	7,500.0	7,778.3	7,507.0	41.0	34.7	89.16	-1,139.5	2,409.6	1,706.8	1,668.5	38.27	44.594	
8,200.0	7,500.0	7,778.2	7,506.9	41.2	34.7	89.13	-1,139.5	2,409.6	1,758.3	1,719.5	38.74	45.385	
8,300.0	7,500.0	7,778.0	7,506.7	41.5	34.7	89.07	-1,139.5	2,409.6	1,857.6	1,817.9	39.75	46.735	
8,400.0	7,500.0	7,777.8	7,506.5	42.0	34.7	89.01	-1,139.5	2,409.6	1,957.1	1,916.2	40.87	47.883	
8,500.0	7,500.0	7,777.6	7,506.3	42.5	34.7	88.96	-1,139.5	2,409.6	2,056.5	2,014.4	42.09	48.858	
8,600.0	7,500.0	7,777.4	7,506.1	43.1	34.7	88.90	-1,139.5	2,409.6	2,156.1	2,112.7	43.39	49.689	
8,700.0	7,500.0	7,777.2	7,505.9	43.7	34.7	88.84	-1,139.5	2,409.6	2,255.6	2,210.9	44.76	50.399	
8,800.0	7,500.0	7,777.0	7,505.7	44.4	34.7	88.79	-1,139.5	2,409.6	2,355.2	2,309.1	46.17	51.009	
8,900.0	7,500.0	7,776.8	7,505.5	45.2	34.7	88.73	-1,139.5	2,409.6	2,454.9	2,407.2	47.63	51.535	
9,000.0	7,500.0	7,776.6	7,505.2	46.0	34.7	88.67	-1,139.5	2,409.6	2,554.5	2,505.4	49.13	51.991	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - THOMAS 33-7 (EXISTING) - ENCANA WELL - SUR													Offset Site Error:	0.0 ft
Survey Program: 59-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	7,776.3	7,505.0	46.9	34.7	88.61	-1,139.5	2,409.6	2,654.2	2,603.6	50.66	52.389		
9,200.0	7,500.0	7,776.1	7,504.8	47.8	34.7	88.55	-1,139.5	2,409.6	2,753.9	2,701.7	52.22	52.738		
9,300.0	7,500.0	7,775.9	7,504.6	48.8	34.7	88.49	-1,139.5	2,409.6	2,853.7	2,799.9	53.80	53.045		
9,400.0	7,500.0	7,775.7	7,504.4	49.8	34.7	88.43	-1,139.5	2,409.6	2,953.4	2,898.0	55.39	53.318		
9,500.0	7,500.0	7,775.5	7,504.2	50.8	34.7	88.37	-1,139.5	2,409.6	3,053.2	2,996.2	57.01	53.559		
9,600.0	7,500.0	7,775.3	7,504.0	51.9	34.7	88.31	-1,139.5	2,409.6	3,153.0	3,094.3	58.63	53.776		
9,700.0	7,500.0	7,775.1	7,503.7	53.1	34.7	88.25	-1,139.5	2,409.6	3,252.8	3,192.5	60.27	53.970		
9,803.1	7,500.0	7,774.8	7,503.5	54.3	34.7	88.19	-1,139.5	2,409.6	3,355.7	3,293.7	61.97	54.149		
9,900.0	7,500.0	7,774.6	7,503.3	55.4	34.7	88.13	-1,139.5	2,409.6	3,452.4	3,388.8	63.58	54.302		
10,000.0	7,500.0	7,774.4	7,503.1	56.6	34.7	88.07	-1,139.5	2,409.6	3,552.2	3,487.0	65.24	54.446		
10,100.0	7,500.0	7,774.2	7,502.9	57.9	34.7	88.00	-1,139.5	2,409.6	3,652.1	3,585.1	66.92	54.576		
10,200.0	7,500.0	7,774.0	7,502.6	59.2	34.7	87.94	-1,139.5	2,409.6	3,751.9	3,683.3	68.60	54.695		
10,300.0	7,500.0	7,773.7	7,502.4	60.5	34.7	87.88	-1,139.5	2,409.6	3,851.8	3,781.5	70.28	54.805		
10,400.0	7,500.0	7,773.5	7,502.2	61.8	34.7	87.82	-1,139.5	2,409.6	3,951.6	3,879.6	71.97	54.905		
10,500.0	7,500.0	7,773.3	7,502.0	63.1	34.7	87.75	-1,139.5	2,409.6	4,051.5	3,977.8	73.67	54.998		
10,600.0	7,500.0	7,773.0	7,501.7	64.5	34.7	87.69	-1,139.5	2,409.6	4,151.4	4,076.0	75.37	55.083		
10,703.1	7,500.0	7,772.8	7,501.5	65.9	34.7	87.62	-1,139.5	2,409.6	4,254.4	4,177.3	77.12	55.165		
10,800.0	7,500.0	7,772.6	7,501.3	67.3	34.7	88.20	-1,139.5	2,409.6	4,351.1	4,271.4	79.73	54.575		
10,900.0	7,500.0	7,772.3	7,501.0	68.8	34.7	88.55	-1,139.5	2,409.6	4,450.8	4,368.4	82.40	54.015		
11,000.0	7,500.0	7,772.1	7,500.8	70.2	34.7	88.78	-1,139.5	2,409.6	4,550.4	4,465.4	85.06	53.500		
11,100.0	7,500.0	7,771.9	7,500.6	71.7	34.7	88.94	-1,139.5	2,409.6	4,649.9	4,562.2	87.70	53.023		
11,200.0	7,500.0	7,771.6	7,500.3	73.3	34.7	89.06	-1,139.5	2,409.6	4,749.2	4,658.9	90.32	52.584		
11,253.1	7,500.0	7,771.5	7,500.2	74.1	34.7	89.12	-1,139.5	2,409.6	4,801.9	4,710.2	91.70	52.364		
11,300.0	7,500.0	7,771.4	7,500.1	74.8	34.7	89.11	-1,139.5	2,409.6	4,848.4	4,755.9	92.51	52.411		
11,400.0	7,500.0	7,771.1	7,499.8	76.3	34.7	89.08	-1,139.5	2,409.6	4,947.5	4,853.3	94.22	52.509		
11,500.0	7,500.0	7,770.9	7,499.6	77.9	34.7	89.06	-1,139.5	2,409.6	5,046.7	4,950.8	95.94	52.603		
11,600.0	7,500.0	7,770.6	7,499.3	79.5	34.7	89.04	-1,139.5	2,409.6	5,145.9	5,048.2	97.66	52.693		
11,700.0	7,500.0	7,770.4	7,499.1	81.0	34.7	89.02	-1,139.5	2,409.6	5,245.1	5,145.8	99.38	52.780		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8325-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	88.0	88.0	0.0	0.2	-51.10	131.9	-163.4	210.0					
100.0	100.0	188.0	188.0	0.2	0.3	-51.10	131.9	-163.4	210.0	209.5	0.48	437.372		
200.0	200.0	288.0	288.0	0.3	0.5	-51.10	131.9	-163.4	210.0	209.2	0.83	253.260	CC, ES	
300.0	300.0	388.0	388.0	0.5	0.7	-143.04	131.9	-163.4	210.7	209.5	1.18	178.785		
400.0	400.0	488.0	488.0	0.7	0.9	-143.45	131.9	-163.4	212.8	211.3	1.53	139.165		
500.0	499.9	587.9	587.9	0.9	1.0	-144.12	131.9	-163.4	216.3	214.4	1.88	114.941		
600.0	599.7	687.7	687.7	1.1	1.2	-145.02	131.9	-163.4	221.3	219.1	2.24	98.887		
700.0	699.4	787.4	787.4	1.3	1.4	-146.11	131.9	-163.4	227.8	225.2	2.60	87.706		
800.0	798.9	886.9	886.9	1.5	1.5	-147.36	131.9	-163.4	235.8	232.8	2.96	79.684		
900.0	898.3	986.3	986.3	1.8	1.7	-148.74	131.9	-163.4	245.4	242.1	3.32	73.837		
1,000.0	997.4	1,085.4	1,085.4	2.0	1.9	-150.19	131.9	-163.4	256.7	253.0	3.69	69.563		
1,100.0	1,096.3	1,184.3	1,184.3	2.3	2.1	-151.69	131.9	-163.4	269.7	265.6	4.06	66.467		
1,200.0	1,194.9	1,282.9	1,282.9	2.7	2.2	-153.19	131.9	-163.4	284.3	279.9	4.42	64.281		
1,300.0	1,293.3	1,381.3	1,381.3	3.0	2.4	-154.68	131.9	-163.4	300.8	296.0	4.79	62.815		
1,400.0	1,391.2	1,479.2	1,479.2	3.4	2.6	-156.13	131.9	-163.4	318.9	313.8	5.15	61.929		
1,500.0	1,488.9	1,576.9	1,576.9	3.8	2.8	-157.53	131.9	-163.4	338.9	333.4	5.51	61.516		
1,600.0	1,586.1	1,674.1	1,674.1	4.3	2.9	-158.86	131.9	-163.4	360.7	354.8	5.86	61.497		
1,700.0	1,682.9	1,770.9	1,770.9	4.7	3.1	-160.12	131.9	-163.4	384.2	378.0	6.22	61.808		
1,800.0	1,779.3	1,867.3	1,867.3	5.2	3.3	-161.31	131.9	-163.4	409.5	403.0	6.56	62.397		
1,900.0	1,875.2	1,963.2	1,963.2	5.8	3.4	-162.41	131.9	-163.4	436.6	429.7	6.91	63.226		
2,000.0	1,970.5	2,058.5	2,058.5	6.3	3.6	-163.44	131.9	-163.4	465.5	458.3	7.24	64.259		
2,022.8	1,992.2	2,080.2	2,080.2	6.4	3.6	-163.66	131.9	-163.4	472.3	465.0	7.32	64.523		
2,100.0	2,065.5	2,153.5	2,153.5	6.9	3.8	-164.45	131.9	-163.4	495.6	488.0	7.59	65.321		
2,200.0	2,160.5	2,248.5	2,248.5	7.5	3.9	-165.36	131.9	-163.4	525.9	518.0	7.93	66.309		
2,300.0	2,255.5	2,343.5	2,343.5	8.0	4.1	-166.17	131.9	-163.4	556.3	548.1	8.27	67.245		
2,400.0	2,350.5	2,438.5	2,438.5	8.6	4.3	-166.90	131.9	-163.4	586.8	578.2	8.61	68.132		
2,500.0	2,445.5	2,533.5	2,533.5	9.2	4.4	-167.55	131.9	-163.4	617.4	608.5	8.95	68.972		
2,600.0	2,540.4	2,628.4	2,628.4	9.8	4.6	-168.15	131.9	-163.4	648.1	638.8	9.29	69.767		
2,700.0	2,635.4	2,723.4	2,723.4	10.4	4.8	-168.69	131.9	-163.4	678.8	669.1	9.63	70.518		
2,800.0	2,730.4	2,818.4	2,818.4	11.0	4.9	-169.19	131.9	-163.4	709.5	699.6	9.96	71.230		
2,900.0	2,825.4	2,913.4	2,913.4	11.6	5.1	-169.64	131.9	-163.4	740.3	730.0	10.30	71.903		
3,000.0	2,920.4	3,008.4	3,008.4	12.2	5.3	-170.06	131.9	-163.4	771.2	760.5	10.63	72.542		
3,100.0	3,015.4	3,103.4	3,103.4	12.8	5.4	-170.44	131.9	-163.4	802.0	791.1	10.96	73.146		
3,200.0	3,110.3	3,198.3	3,198.3	13.3	5.6	-170.80	131.9	-163.4	832.9	821.6	11.30	73.720		
3,300.0	3,205.3	3,293.3	3,293.3	13.9	5.7	-171.13	131.9	-163.4	863.9	852.2	11.63	74.265		
3,400.0	3,300.3	3,388.3	3,388.3	14.5	5.9	-171.44	131.9	-163.4	894.8	882.8	11.97	74.782		
3,500.0	3,395.3	3,483.3	3,483.3	15.1	6.1	-171.73	131.9	-163.4	925.8	913.5	12.30	75.274		
3,600.0	3,490.3	3,578.3	3,578.3	15.7	6.2	-172.00	131.9	-163.4	956.8	944.1	12.63	75.742		
3,700.0	3,585.2	3,673.2	3,673.2	16.3	6.4	-172.25	131.9	-163.4	987.8	974.8	12.97	76.188		
3,800.0	3,680.2	3,768.2	3,768.2	16.9	6.6	-172.48	131.9	-163.4	1,018.8	1,005.5	13.30	76.613		
3,900.0	3,775.2	3,863.2	3,863.2	17.5	6.7	-172.71	131.9	-163.4	1,049.9	1,036.2	13.63	77.019		
4,000.0	3,870.2	3,958.2	3,958.2	18.1	6.9	-172.92	131.9	-163.4	1,080.9	1,067.0	13.96	77.406		
4,100.0	3,965.2	4,053.2	4,053.2	18.7	7.1	-173.12	131.9	-163.4	1,112.0	1,097.7	14.30	77.776		
4,200.0	4,060.2	4,148.2	4,148.2	19.3	7.2	-173.30	131.9	-163.4	1,143.1	1,128.4	14.63	78.129		
4,300.0	4,155.1	4,243.1	4,243.1	19.9	7.4	-173.48	131.9	-163.4	1,174.2	1,159.2	14.96	78.468		
4,400.0	4,250.1	4,338.1	4,338.1	20.5	7.6	-173.65	131.9	-163.4	1,205.3	1,190.0	15.30	78.792		
4,500.0	4,345.1	4,433.1	4,433.1	21.1	7.7	-173.81	131.9	-163.4	1,236.4	1,220.7	15.63	79.102		
4,600.0	4,440.1	4,528.1	4,528.1	21.7	7.9	-173.96	131.9	-163.4	1,267.5	1,251.5	15.96	79.400		
4,700.0	4,535.1	4,623.1	4,623.1	22.3	8.1	-174.11	131.9	-163.4	1,298.6	1,282.3	16.30	79.686		
4,800.0	4,630.1	4,718.1	4,718.1	22.9	8.2	-174.25	131.9	-163.4	1,329.8	1,313.1	16.63	79.961		
4,900.0	4,725.0	4,813.0	4,813.0	23.5	8.4	-174.38	131.9	-163.4	1,360.9	1,343.9	16.96	80.225		
5,000.0	4,820.0	4,908.0	4,908.0	24.1	8.6	-174.50	131.9	-163.4	1,392.0	1,374.7	17.30	80.479		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error:	0.0 ft
Survey Program: 8325-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)			
5,100.0	4,915.0	5,003.0	5,003.0	24.6	8.7	-174.63	131.9	-163.4	1,423.2	1,405.6	17.63	80.723	
5,200.0	5,010.0	5,098.0	5,098.0	25.2	8.9	-174.74	131.9	-163.4	1,454.4	1,436.4	17.96	80.958	
5,300.0	5,105.0	5,193.0	5,193.0	25.8	9.1	-174.85	131.9	-163.4	1,485.5	1,467.2	18.30	81.185	
5,400.0	5,199.9	5,287.9	5,287.9	26.4	9.2	-174.96	131.9	-163.4	1,516.7	1,498.1	18.63	81.403	
5,500.0	5,294.9	5,382.9	5,382.9	27.0	9.4	-175.06	131.9	-163.4	1,547.9	1,528.9	18.97	81.614	
5,600.0	5,389.9	5,477.9	5,477.9	27.6	9.6	-175.16	131.9	-163.4	1,579.0	1,559.7	19.30	81.817	
5,700.0	5,484.9	5,572.9	5,572.9	28.2	9.7	-175.25	131.9	-163.4	1,610.2	1,590.6	19.63	82.014	
5,800.0	5,579.9	5,667.9	5,667.9	28.8	9.9	-175.34	131.9	-163.4	1,641.4	1,621.4	19.97	82.204	
5,900.0	5,674.9	5,762.9	5,762.9	29.4	10.1	-175.43	131.9	-163.4	1,672.6	1,652.3	20.30	82.387	
6,000.0	5,769.8	5,857.8	5,857.8	30.0	10.2	-175.51	131.9	-163.4	1,703.8	1,683.1	20.64	82.565	
6,100.0	5,864.8	5,952.8	5,952.8	30.6	10.4	-175.59	131.9	-163.4	1,735.0	1,714.0	20.97	82.737	
6,200.0	5,959.8	6,047.8	6,047.8	31.2	10.6	-175.67	131.9	-163.4	1,766.2	1,744.9	21.30	82.903	
6,300.0	6,054.8	6,142.8	6,142.8	31.8	10.7	-175.75	131.9	-163.4	1,797.4	1,775.7	21.64	83.064	
6,400.0	6,149.8	6,237.8	6,237.8	32.4	10.9	-175.82	131.9	-163.4	1,828.6	1,806.6	21.97	83.220	
6,500.0	6,244.7	6,332.7	6,332.7	33.0	11.1	-175.89	131.9	-163.4	1,859.8	1,837.5	22.31	83.372	
6,600.0	6,339.7	6,427.7	6,427.7	33.6	11.2	-175.96	131.9	-163.4	1,891.0	1,868.3	22.64	83.518	
6,700.0	6,434.7	6,522.7	6,522.7	34.2	11.4	-176.02	131.9	-163.4	1,922.2	1,899.2	22.98	83.661	
6,800.0	6,529.7	6,617.7	6,617.7	34.8	11.6	-176.09	131.9	-163.4	1,953.4	1,930.1	23.31	83.799	
6,900.0	6,624.7	6,712.7	6,712.7	35.4	11.7	-176.15	131.9	-163.4	1,984.6	1,961.0	23.65	83.934	
7,000.0	6,719.7	6,807.7	6,807.7	36.0	11.9	-176.21	131.9	-163.4	2,015.8	1,991.9	23.98	84.064	
7,100.0	6,814.6	6,902.6	6,902.6	36.6	12.0	-176.27	131.9	-163.4	2,047.1	2,022.7	24.31	84.191	
7,200.0	6,909.6	6,997.6	6,997.6	37.2	12.2	-176.32	131.9	-163.4	2,078.3	2,053.6	24.65	84.314	
7,225.4	6,933.7	7,021.7	7,021.7	37.3	12.3	-176.34	131.9	-163.4	2,086.2	2,061.5	24.73	84.345	
7,250.0	6,957.1	7,045.1	7,045.1	37.5	12.3	-168.08	131.9	-163.4	2,093.8	2,068.9	24.93	83.972	
7,300.0	7,004.6	7,092.6	7,092.6	37.8	12.4	-151.81	131.9	-163.4	2,108.6	2,083.2	25.38	83.090	
7,350.0	7,051.7	7,139.7	7,139.7	38.0	12.5	-137.70	131.9	-163.4	2,122.5	2,096.7	25.83	82.163	
7,400.0	7,098.0	7,186.0	7,186.0	38.3	12.5	-126.46	131.9	-163.4	2,135.5	2,109.2	26.27	81.290	
7,450.0	7,143.3	7,231.3	7,231.3	38.5	12.6	-117.87	131.9	-163.4	2,147.5	2,120.8	26.67	80.532	
7,500.0	7,187.1	7,275.1	7,275.1	38.8	12.7	-111.39	131.9	-163.4	2,158.5	2,131.5	27.01	79.918	
7,550.0	7,229.2	7,317.2	7,317.2	39.0	12.8	-106.48	131.9	-163.4	2,168.6	2,141.3	27.29	79.451	
7,600.0	7,269.2	7,357.2	7,357.2	39.2	12.8	-102.74	131.9	-163.4	2,177.8	2,150.3	27.53	79.115	
7,650.0	7,306.8	7,394.8	7,394.8	39.4	12.9	-99.87	131.9	-163.4	2,186.2	2,158.5	27.71	78.889	
7,700.0	7,341.7	7,429.7	7,429.7	39.6	13.0	-97.66	131.9	-163.4	2,193.9	2,166.0	27.86	78.744	
7,750.0	7,373.7	7,461.7	7,461.7	39.8	13.0	-95.94	131.9	-163.4	2,200.9	2,172.9	27.98	78.655	
7,800.0	7,402.5	7,490.5	7,490.5	39.9	13.1	-94.59	131.9	-163.4	2,207.3	2,179.2	28.08	78.601	
7,850.0	7,427.9	7,515.9	7,515.9	40.1	13.1	-93.53	131.9	-163.4	2,213.2	2,185.0	28.17	78.566	
7,900.0	7,449.7	7,537.7	7,537.7	40.2	13.2	-92.67	131.9	-163.4	2,218.7	2,190.4	28.25	78.539	
7,950.0	7,467.8	7,555.8	7,555.8	40.4	13.2	-91.96	131.9	-163.4	2,223.9	2,195.5	28.32	78.518	
8,000.0	7,481.9	7,569.9	7,569.9	40.6	13.2	-91.37	131.9	-163.4	2,228.7	2,200.3	28.39	78.502	
8,050.0	7,492.0	7,580.0	7,580.0	40.7	13.2	-90.85	131.9	-163.4	2,233.4	2,204.9	28.45	78.501	
8,100.0	7,498.1	7,586.1	7,586.1	40.9	13.2	-90.39	131.9	-163.4	2,237.8	2,209.3	28.50	78.527	
8,148.1	7,500.0	7,588.0	7,588.0	41.0	13.2	-90.00	131.9	-163.4	2,241.8	2,213.3	28.52	78.592	
8,200.0	7,500.0	7,588.0	7,588.0	41.2	13.2	-90.00	131.9	-163.4	2,246.6	2,217.6	28.99	77.490	
8,300.0	7,500.0	7,588.0	7,588.0	41.5	13.2	-90.00	131.9	-163.4	2,259.2	2,229.2	30.00	75.312	
8,400.0	7,500.0	7,588.0	7,588.0	42.0	13.2	-90.00	131.9	-163.4	2,276.2	2,245.0	31.12	73.137	
8,500.0	7,500.0	7,588.0	7,588.0	42.5	13.2	-90.00	131.9	-163.4	2,297.3	2,265.0	32.34	71.033	
8,600.0	7,500.0	7,588.0	7,588.0	43.1	13.2	-90.00	131.9	-163.4	2,322.6	2,289.0	33.64	69.041	
8,700.0	7,500.0	7,588.0	7,588.0	43.7	13.2	-90.00	131.9	-163.4	2,351.9	2,316.9	35.01	67.185	
8,800.0	7,500.0	7,588.0	7,588.0	44.4	13.2	-90.00	131.9	-163.4	2,385.0	2,348.6	36.42	65.478	
8,900.0	7,500.0	7,588.0	7,588.0	45.2	13.2	-90.00	131.9	-163.4	2,421.8	2,383.9	37.89	63.921	
9,000.0	7,500.0	7,588.0	7,588.0	46.0	13.2	-90.00	131.9	-163.4	2,462.1	2,422.7	39.39	62.511	
9,100.0	7,500.0	7,588.0	7,588.0	46.9	13.2	-90.00	131.9	-163.4	2,505.7	2,464.8	40.92	61.239	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,200.0	7,500.0	7,588.0	7,588.0	47.8	13.2	-90.00	131.9	-163.4	2,552.6	2,510.1	42.47	60.097		
9,300.0	7,500.0	7,588.0	7,588.0	48.8	13.2	-90.00	131.9	-163.4	2,602.4	2,558.3	44.05	59.074		
9,400.0	7,500.0	7,588.0	7,588.0	49.8	13.2	-90.00	131.9	-163.4	2,655.0	2,609.4	45.65	58.160		
9,500.0	7,500.0	7,588.0	7,588.0	50.8	13.2	-90.00	131.9	-163.4	2,710.4	2,663.1	47.26	57.345		
9,600.0	7,500.0	7,588.0	7,588.0	51.9	13.2	-90.00	131.9	-163.4	2,768.2	2,719.3	48.89	56.618		
9,700.0	7,500.0	7,588.0	7,588.0	53.1	13.2	-90.00	131.9	-163.4	2,828.4	2,777.9	50.53	55.972		
9,803.1	7,500.0	7,588.0	7,588.0	54.3	13.2	-90.00	131.9	-163.4	2,892.8	2,840.5	52.24	55.380		
9,900.0	7,500.0	7,588.0	7,588.0	55.4	13.2	-90.00	131.9	-163.4	2,955.2	2,901.4	53.84	54.886		
10,000.0	7,500.0	7,588.0	7,588.0	56.6	13.2	-90.00	131.9	-163.4	3,021.6	2,966.1	55.51	54.432		
10,100.0	7,500.0	7,588.0	7,588.0	57.9	13.2	-90.00	131.9	-163.4	3,089.8	3,032.7	57.19	54.030		
10,200.0	7,500.0	7,588.0	7,588.0	59.2	13.2	-90.00	131.9	-163.4	3,159.7	3,100.9	58.87	53.673		
10,300.0	7,500.0	7,588.0	7,588.0	60.5	13.2	-90.00	131.9	-163.4	3,231.2	3,170.7	60.56	53.358		
10,400.0	7,500.0	7,588.0	7,588.0	61.8	13.2	-90.00	131.9	-163.4	3,304.2	3,241.9	62.25	53.078		
10,500.0	7,500.0	7,588.0	7,588.0	63.1	13.2	-90.00	131.9	-163.4	3,378.5	3,314.6	63.95	52.832		
10,600.0	7,500.0	7,588.0	7,588.0	64.5	13.2	-90.00	131.9	-163.4	3,454.2	3,388.5	65.65	52.614		
10,703.1	7,500.0	7,588.0	7,588.0	65.9	13.2	-90.00	131.9	-163.4	3,533.5	3,466.1	67.41	52.417		
10,800.0	7,500.0	7,588.0	7,588.0	67.3	13.2	-90.00	131.9	-163.4	3,609.5	3,539.9	69.65	51.820		
10,900.0	7,500.0	7,588.0	7,588.0	68.8	13.2	-90.00	131.9	-163.4	3,690.1	3,618.1	71.96	51.279		
11,000.0	7,500.0	7,588.0	7,588.0	70.2	13.2	-90.00	131.9	-163.4	3,772.6	3,698.3	74.26	50.805		
11,100.0	7,500.0	7,588.0	7,588.0	71.7	13.2	-90.00	131.9	-163.4	3,856.8	3,780.3	76.54	50.392		
11,200.0	7,500.0	7,588.0	7,588.0	73.3	13.2	-90.00	131.9	-163.4	3,942.7	3,863.9	78.80	50.034		
11,253.1	7,500.0	7,588.0	7,588.0	74.1	13.2	-90.00	131.9	-163.4	3,989.0	3,909.0	80.00	49.863 SF		
11,300.0	7,500.0	7,588.0	7,588.0	74.8	13.2	-90.00	131.9	-163.4	4,030.0	3,949.2	80.80	49.875		
11,400.0	7,500.0	7,588.0	7,588.0	76.3	13.2	-90.00	131.9	-163.4	4,118.0	4,035.5	82.52	49.905		
11,500.0	7,500.0	7,588.0	7,588.0	77.9	13.2	-90.00	131.9	-163.4	4,206.5	4,122.3	84.24	49.938		
11,600.0	7,500.0	7,588.0	7,588.0	79.5	13.2	-90.00	131.9	-163.4	4,295.6	4,209.6	85.96	49.975		
11,700.0	7,500.0	7,588.0	7,588.0	81.0	13.2	-90.00	131.9	-163.4	4,385.1	4,297.4	87.68	50.014		
11,800.0	7,500.0	7,588.0	7,588.0	82.6	13.2	-90.00	131.9	-163.4	4,475.0	4,385.6	89.40	50.057		
11,900.0	7,500.0	7,588.0	7,588.0	84.2	13.2	-90.00	131.9	-163.4	4,565.4	4,474.3	91.12	50.102		
12,000.0	7,500.0	7,588.0	7,588.0	85.8	13.2	-90.00	131.9	-163.4	4,656.2	4,563.3	92.85	50.148		
12,100.0	7,500.0	7,588.0	7,588.0	87.4	13.2	-90.00	131.9	-163.4	4,747.3	4,652.7	94.58	50.196		
12,200.0	7,500.0	7,588.0	7,588.0	89.0	13.2	-90.00	131.9	-163.4	4,838.8	4,742.5	96.30	50.246		
12,300.0	7,500.0	7,588.0	7,588.0	90.6	13.2	-90.00	131.9	-163.4	4,930.6	4,832.6	98.03	50.296		
12,400.0	7,500.0	7,588.0	7,588.0	92.2	13.2	-90.00	131.9	-163.4	5,022.7	4,923.0	99.76	50.347		
12,500.0	7,500.0	7,588.0	7,588.0	93.8	13.2	-90.00	131.9	-163.4	5,115.2	5,013.7	101.49	50.399		
12,600.0	7,500.0	7,588.0	7,588.0	95.5	13.2	-90.00	131.9	-163.4	5,207.9	5,104.6	103.22	50.452		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error: 0.0 ft			
Survey Program: 100-MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	44.8	44.8	0.0	0.1	36.26	1,576.9	1,156.5	1,955.6						
100.0	100.0	143.2	143.2	0.2	0.3	36.29	1,576.6	1,157.6	1,955.9	1,955.5	0.40	4,865.709			
200.0	200.0	248.4	248.3	0.3	0.4	36.34	1,575.7	1,159.0	1,956.1	1,955.3	0.76	2,574.065			
300.0	300.0	349.8	349.8	0.5	0.6	-55.46	1,575.1	1,159.9	1,955.6	1,954.5	1.12	1,751.448			
400.0	400.0	454.3	454.3	0.7	0.8	-55.52	1,574.7	1,160.1	1,954.0	1,952.5	1.48	1,323.637			
500.0	499.9	556.2	556.2	0.9	1.0	-55.65	1,574.4	1,159.9	1,951.1	1,949.3	1.84	1,062.497			
600.0	599.7	665.5	665.4	1.1	1.2	-55.86	1,574.2	1,159.3	1,947.2	1,945.0	2.22	878.024			
700.0	699.4	776.8	776.7	1.3	1.4	-56.13	1,573.2	1,158.3	1,941.6	1,939.0	2.61	742.888			
800.0	798.9	880.6	880.6	1.5	1.5	-56.42	1,571.7	1,157.6	1,934.6	1,931.6	3.01	642.721			
900.0	898.3	982.7	982.6	1.8	1.7	-56.76	1,569.9	1,157.0	1,926.6	1,923.2	3.42	563.588			
1,000.0	997.4	1,083.4	1,083.3	2.0	1.9	-57.16	1,568.3	1,156.0	1,917.6	1,913.7	3.84	499.056			
1,100.0	1,096.3	1,188.3	1,188.2	2.3	2.1	-57.66	1,566.8	1,154.3	1,907.5	1,903.2	4.29	444.325			
1,200.0	1,194.9	1,286.0	1,285.9	2.7	2.3	-58.20	1,565.6	1,152.2	1,896.3	1,891.6	4.75	398.936			
1,300.0	1,293.3	1,384.4	1,384.3	3.0	2.4	-58.81	1,564.6	1,149.8	1,884.5	1,879.2	5.24	359.633			
1,400.0	1,391.2	1,477.9	1,477.7	3.4	2.6	-59.47	1,563.9	1,147.2	1,871.9	1,866.2	5.74	325.855			
1,500.0	1,488.9	1,571.0	1,570.7	3.8	2.8	-60.18	1,563.6	1,144.4	1,859.0	1,852.7	6.28	296.132			
1,600.0	1,586.1	1,669.9	1,669.6	4.3	2.9	-60.99	1,563.1	1,141.9	1,845.5	1,838.6	6.85	269.334			
1,700.0	1,682.9	1,761.0	1,760.7	4.7	3.1	-61.81	1,562.8	1,139.3	1,831.4	1,823.9	7.44	245.996			
1,800.0	1,779.3	1,853.7	1,853.4	5.2	3.3	-62.70	1,562.9	1,136.5	1,817.1	1,809.0	8.07	225.043			
1,900.0	1,875.2	1,944.5	1,944.1	5.8	3.4	-63.63	1,562.8	1,134.3	1,802.5	1,793.8	8.74	206.348			
2,000.0	1,970.5	2,029.9	2,029.5	6.3	3.6	-64.55	1,562.9	1,132.7	1,788.0	1,778.6	9.42	189.785			
2,022.8	1,992.2	2,049.8	2,049.4	6.4	3.6	-64.77	1,563.0	1,132.3	1,784.7	1,775.2	9.58	186.272			
2,100.0	2,065.5	2,119.6	2,119.2	6.9	3.7	-65.45	1,563.4	1,131.2	1,773.9	1,763.8	10.13	175.061			
2,200.0	2,160.5	2,218.2	2,217.7	7.5	3.9	-66.42	1,563.6	1,129.9	1,760.2	1,749.3	10.87	161.891			
2,300.0	2,255.5	2,312.6	2,312.1	8.0	4.1	-67.33	1,563.6	1,129.1	1,746.9	1,735.3	11.61	150.443			
2,400.0	2,350.5	2,407.9	2,407.5	8.6	4.2	-68.27	1,563.4	1,128.2	1,734.1	1,721.7	12.36	140.276			
2,500.0	2,445.5	2,490.3	2,489.9	9.2	4.4	-69.11	1,563.8	1,127.2	1,722.1	1,709.0	13.09	131.537			
2,600.0	2,540.4	2,572.5	2,572.1	9.8	4.5	-69.96	1,564.8	1,126.1	1,711.3	1,697.5	13.83	123.742			
2,700.0	2,635.4	2,666.7	2,666.2	10.4	4.7	-70.97	1,566.6	1,124.6	1,701.5	1,686.9	14.60	116.532			
2,800.0	2,730.4	2,768.4	2,767.8	11.0	4.9	-72.07	1,568.4	1,122.6	1,692.1	1,676.7	15.40	109.893			
2,900.0	2,825.4	2,866.1	2,865.5	11.6	5.0	-73.14	1,569.7	1,120.5	1,682.9	1,666.7	16.19	103.956			
3,000.0	2,920.4	2,958.1	2,957.6	12.2	5.2	-74.14	1,570.8	1,119.1	1,674.3	1,657.3	16.97	98.668			
3,100.0	3,015.4	3,048.3	3,047.7	12.8	5.4	-75.12	1,571.9	1,118.2	1,666.5	1,648.7	17.75	93.904			
3,200.0	3,110.3	3,143.6	3,143.0	13.3	5.5	-76.15	1,573.2	1,117.4	1,659.4	1,640.9	18.54	89.515			
3,300.0	3,205.3	3,252.5	3,251.9	13.9	5.7	-77.34	1,574.1	1,116.7	1,652.6	1,633.2	19.36	85.352			
3,400.0	3,300.3	3,358.5	3,357.9	14.5	5.9	-78.50	1,574.0	1,115.7	1,645.4	1,625.2	20.18	81.533			
3,500.0	3,395.3	3,463.2	3,462.6	15.1	6.1	-79.66	1,573.5	1,114.4	1,638.4	1,617.4	21.00	78.028			
3,600.0	3,490.3	3,566.4	3,565.7	15.7	6.3	-80.81	1,572.3	1,113.0	1,631.3	1,609.5	21.81	74.796			
3,700.0	3,585.2	3,678.6	3,678.0	16.3	6.5	-82.08	1,570.3	1,111.5	1,624.3	1,601.6	22.64	71.742			
3,800.0	3,680.2	3,769.0	3,768.3	16.9	6.6	-83.09	1,568.0	1,110.6	1,617.2	1,593.8	23.42	69.051			
3,900.0	3,775.2	3,863.0	3,862.2	17.5	6.8	-84.13	1,565.9	1,110.2	1,611.1	1,586.9	24.21	66.559			
4,000.0	3,870.2	3,962.6	3,961.8	18.1	7.0	-85.25	1,563.5	1,109.3	1,605.4	1,580.4	25.00	64.212			
4,100.0	3,965.2	4,063.5	4,062.6	18.7	7.2	-86.42	1,560.8	1,107.7	1,600.1	1,574.3	25.80	62.026			
4,200.0	4,060.2	4,160.3	4,159.4	19.3	7.3	-87.53	1,557.8	1,106.9	1,595.0	1,568.5	26.58	60.011			
4,300.0	4,155.1	4,250.4	4,249.5	19.9	7.5	-88.58	1,555.1	1,105.6	1,590.7	1,563.4	27.34	58.173			
4,400.0	4,250.1	4,334.9	4,334.0	20.5	7.6	-89.57	1,553.0	1,104.4	1,587.5	1,559.4	28.09	56.505			
4,500.0	4,345.1	4,416.2	4,415.2	21.1	7.8	-90.52	1,551.6	1,103.3	1,585.7	1,556.8	28.83	54.993			
4,587.4	4,428.1	4,490.1	4,489.1	21.6	7.9	-91.39	1,550.9	1,102.5	1,585.2	1,555.7	29.48	53.771			
4,600.0	4,440.1	4,500.0	4,499.0	21.7	7.9	-91.50	1,550.8	1,102.3	1,585.2	1,555.6	29.57	53.605			
4,700.0	4,535.1	4,593.3	4,592.3	22.3	8.1	-92.59	1,550.2	1,101.4	1,585.7	1,555.4	30.32	52.302			
4,800.0	4,630.1	4,691.9	4,690.9	22.9	8.3	-93.74	1,549.6	1,100.4	1,586.9	1,555.8	31.07	51.081			
4,900.0	4,725.0	4,784.6	4,783.6	23.5	8.4	-94.82	1,548.9	1,099.4	1,588.6	1,556.8	31.80	49.964			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												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
5,000.0	4,820.0	4,877.7	4,876.7	24.1	8.6	-95.89	1,548.4	1,098.5	1,591.1	1,558.6	32.52	48.932	
5,100.0	4,915.0	4,969.2	4,968.2	24.6	8.8	-96.96	1,547.9	1,097.2	1,594.4	1,561.2	33.23	47.985	
5,200.0	5,010.0	5,056.3	5,055.3	25.2	8.9	-97.98	1,547.7	1,095.9	1,598.6	1,564.7	33.92	47.127	
5,300.0	5,105.0	5,148.8	5,147.8	25.8	9.1	-99.04	1,548.0	1,094.8	1,603.9	1,569.3	34.61	46.339	
5,400.0	5,199.9	5,243.3	5,242.3	26.4	9.2	-100.11	1,548.1	1,093.9	1,609.7	1,574.4	35.30	45.607	
5,500.0	5,294.9	5,329.6	5,328.6	27.0	9.4	-101.08	1,548.5	1,092.9	1,616.5	1,580.5	35.96	44.951	
5,600.0	5,389.9	5,415.3	5,414.2	27.6	9.5	-102.04	1,549.5	1,091.9	1,624.4	1,587.8	36.61	44.366	
5,700.0	5,484.9	5,515.0	5,513.9	28.2	9.7	-103.15	1,550.6	1,090.7	1,632.9	1,595.7	37.27	43.817	
5,800.0	5,579.9	5,600.8	5,599.8	28.8	9.9	-104.10	1,551.6	1,089.5	1,642.3	1,604.4	37.90	43.330	
5,900.0	5,674.9	5,704.3	5,703.2	29.4	10.0	-105.23	1,552.8	1,088.0	1,652.1	1,613.6	38.53	42.878	
6,000.0	5,769.8	5,791.7	5,790.6	30.0	10.2	-106.18	1,553.8	1,086.8	1,662.5	1,623.4	39.14	42.475	
6,100.0	5,864.8	5,884.4	5,883.3	30.6	10.4	-107.17	1,555.2	1,085.5	1,673.8	1,634.1	39.74	42.115	
6,200.0	5,959.8	5,972.6	5,971.4	31.2	10.5	-108.09	1,556.7	1,084.3	1,685.8	1,645.5	40.33	41.797	
6,300.0	6,054.8	6,071.6	6,070.4	31.8	10.7	-109.11	1,558.6	1,083.2	1,698.5	1,657.6	40.91	41.516	
6,400.0	6,149.8	6,167.1	6,165.9	32.4	10.8	-110.06	1,560.3	1,082.6	1,711.4	1,670.0	41.48	41.257	
6,500.0	6,244.7	6,261.9	6,260.7	33.0	11.0	-111.00	1,562.0	1,081.9	1,724.9	1,682.9	42.04	41.030	
6,600.0	6,339.7	6,355.8	6,354.6	33.6	11.2	-111.92	1,563.6	1,081.0	1,738.9	1,696.3	42.59	40.832	
6,700.0	6,434.7	6,448.0	6,446.7	34.2	11.3	-112.81	1,565.3	1,080.3	1,753.4	1,710.3	43.12	40.661	
6,800.0	6,529.7	6,542.2	6,540.9	34.8	11.5	-113.72	1,567.0	1,079.0	1,768.6	1,724.9	43.65	40.520	
6,900.0	6,624.7	6,632.8	6,631.5	35.4	11.7	-114.57	1,568.6	1,077.9	1,784.1	1,740.0	44.16	40.401	
7,000.0	6,719.7	6,714.7	6,713.4	36.0	11.8	-115.32	1,570.6	1,077.0	1,800.7	1,756.0	44.67	40.311	
7,100.0	6,814.6	6,805.8	6,804.5	36.6	12.0	-116.13	1,573.5	1,076.3	1,818.1	1,773.0	45.17	40.251	
7,200.0	6,909.6	6,906.1	6,904.7	37.2	12.1	-116.98	1,577.0	1,076.4	1,835.9	1,790.2	45.66	40.207	
7,225.4	6,933.7	6,930.5	6,929.0	37.3	12.2	-117.17	1,577.9	1,076.6	1,840.4	1,794.6	45.79	40.196	
7,250.0	6,957.1	6,954.2	6,952.7	37.5	12.2	-109.73	1,578.8	1,076.8	1,844.3	1,798.4	45.96	40.129	
7,300.0	7,004.6	7,000.0	6,998.5	37.8	12.3	-95.05	1,580.6	1,077.3	1,849.3	1,803.2	46.08	40.132	
7,350.0	7,051.7	7,045.3	7,043.8	38.0	12.4	-82.48	1,582.5	1,078.0	1,850.4	1,804.5	45.89	40.327	
7,400.0	7,098.0	7,088.1	7,086.5	38.3	12.4	-72.72	1,584.4	1,078.7	1,847.7	1,802.3	45.38	40.715	
7,450.0	7,143.3	7,127.9	7,126.3	38.5	12.5	-65.56	1,586.4	1,079.5	1,841.2	1,796.6	44.58	41.298	
7,500.0	7,187.1	7,166.1	7,164.4	38.8	12.6	-60.51	1,588.5	1,080.4	1,831.1	1,787.6	43.51	42.085	
7,550.0	7,229.2	7,203.7	7,201.9	39.0	12.6	-57.09	1,590.8	1,081.3	1,817.4	1,775.3	42.18	43.085	
7,600.0	7,269.2	7,245.7	7,243.7	39.2	12.7	-55.02	1,593.6	1,082.5	1,800.3	1,759.7	40.63	44.311	
7,650.0	7,306.8	7,285.7	7,283.7	39.4	12.8	-53.99	1,596.4	1,083.9	1,779.8	1,740.9	38.90	45.755	
7,700.0	7,341.7	7,331.6	7,329.4	39.6	12.9	-54.03	1,599.6	1,085.7	1,756.0	1,719.0	37.03	47.418	
7,750.0	7,373.7	7,378.0	7,375.7	39.8	12.9	-55.01	1,602.5	1,087.6	1,729.0	1,693.9	35.11	49.248	
7,800.0	7,402.5	7,420.1	7,417.7	39.9	13.0	-56.83	1,604.8	1,089.3	1,699.2	1,665.9	33.22	51.141	
7,850.0	7,427.9	7,457.5	7,455.1	40.1	13.1	-59.48	1,606.7	1,090.8	1,666.7	1,635.2	31.49	52.924	
7,900.0	7,449.7	7,489.5	7,487.0	40.2	13.1	-62.96	1,608.0	1,092.2	1,632.0	1,602.0	30.04	54.336	
7,950.0	7,467.8	7,513.5	7,510.9	40.4	13.2	-67.16	1,608.9	1,093.2	1,595.4	1,566.5	28.96	55.086	
8,000.0	7,481.9	7,531.1	7,528.5	40.6	13.2	-72.07	1,609.6	1,094.0	1,557.4	1,529.1	28.34	54.958	
8,050.0	7,492.0	7,544.1	7,541.5	40.7	13.2	-77.71	1,610.0	1,094.5	1,518.2	1,490.1	28.14	53.949	
8,100.0	7,498.1	7,552.3	7,549.7	40.9	13.2	-83.93	1,610.3	1,094.8	1,478.3	1,450.0	28.25	52.324	
8,148.1	7,500.0	7,555.9	7,553.2	41.0	13.2	-90.29	1,610.4	1,095.0	1,439.3	1,410.8	28.50	50.507	
8,200.0	7,500.0	7,557.4	7,554.7	41.2	13.2	-90.39	1,610.4	1,095.0	1,397.5	1,368.6	28.97	48.239	
8,300.0	7,500.0	7,560.2	7,557.6	41.5	13.2	-90.58	1,610.5	1,095.1	1,319.0	1,289.0	29.99	43.985	
8,400.0	7,500.0	7,563.0	7,560.3	42.0	13.3	-90.77	1,610.6	1,095.2	1,243.5	1,212.4	31.12	39.959	
8,500.0	7,500.0	7,565.6	7,563.0	42.5	13.3	-90.95	1,610.7	1,095.4	1,171.7	1,139.3	32.35	36.223	
8,600.0	7,500.0	7,568.2	7,565.6	43.1	13.3	-91.13	1,610.7	1,095.5	1,104.3	1,070.6	33.65	32.814	
8,700.0	7,500.0	7,570.8	7,568.1	43.7	13.3	-91.30	1,610.8	1,095.5	1,042.1	1,007.1	35.02	29.755	
8,800.0	7,500.0	7,573.2	7,570.5	44.4	13.3	-91.47	1,610.9	1,095.6	986.2	949.7	36.45	27.059	
8,900.0	7,500.0	7,575.6	7,572.9	45.2	13.3	-91.63	1,610.9	1,095.7	937.6	899.7	37.91	24.731	
9,000.0	7,500.0	7,578.0	7,575.3	46.0	13.3	-91.79	1,611.0	1,095.8	897.5	858.1	39.41	22.773	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												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
9,100.0	7,500.0	7,580.2	7,577.6	46.9	13.3	-91.95	1,611.1	1,095.9	867.2	826.3	40.95	21.180	
9,200.0	7,500.0	7,582.5	7,579.8	47.8	13.3	-92.10	1,611.1	1,096.0	847.7	805.2	42.50	19.944	
9,300.0	7,500.0	7,584.6	7,581.9	48.8	13.3	-92.25	1,611.2	1,096.1	839.7	795.6	44.08	19.048	
9,317.6	7,500.0	7,585.0	7,582.3	48.9	13.3	-92.27	1,611.2	1,096.1	839.5	795.1	44.36	18.923 CC, ES	
9,400.0	7,500.0	7,586.7	7,584.0	49.8	13.3	-92.39	1,611.2	1,096.2	843.5	797.8	45.68	18.467	
9,500.0	7,500.0	7,588.8	7,586.1	50.8	13.3	-92.53	1,611.3	1,096.2	859.1	811.8	47.29	18.166	
9,600.0	7,500.0	7,590.8	7,588.1	51.9	13.3	-92.67	1,611.3	1,096.3	885.7	836.8	48.92	18.106 SF	
9,700.0	7,500.0	7,592.8	7,590.1	53.1	13.3	-92.81	1,611.4	1,096.4	922.4	871.9	50.55	18.247	
9,803.1	7,500.0	7,600.0	7,597.3	54.3	13.3	-93.30	1,611.6	1,096.6	969.8	917.5	52.25	18.559	
9,900.0	7,500.0	7,600.0	7,597.3	55.4	13.3	-93.30	1,611.6	1,096.6	1,021.7	967.8	53.86	18.970	
10,000.0	7,500.0	7,600.0	7,597.3	56.6	13.3	-93.30	1,611.6	1,096.6	1,081.8	1,026.2	55.52	19.484	
10,100.0	7,500.0	7,600.0	7,597.3	57.9	13.3	-93.30	1,611.6	1,096.6	1,147.4	1,090.2	57.19	20.063	
10,200.0	7,500.0	7,602.3	7,599.6	59.2	13.3	-93.45	1,611.6	1,096.7	1,217.8	1,158.9	58.87	20.687	
10,300.0	7,500.0	7,604.3	7,601.6	60.5	13.3	-93.59	1,611.7	1,096.8	1,292.1	1,231.5	60.55	21.339	
10,400.0	7,500.0	7,606.3	7,603.6	61.8	13.3	-93.73	1,611.7	1,096.9	1,369.6	1,307.4	62.23	22.007	
10,500.0	7,500.0	7,608.3	7,605.6	63.1	13.3	-93.87	1,611.8	1,096.9	1,449.9	1,386.0	63.92	22.682	
10,600.0	7,500.0	7,610.4	7,607.7	64.5	13.3	-94.01	1,611.8	1,097.0	1,532.5	1,466.9	65.62	23.356	
10,703.1	7,500.0	7,612.5	7,609.8	65.9	13.3	-94.15	1,611.9	1,097.1	1,619.8	1,552.4	67.36	24.045	
10,800.0	7,500.0	7,614.5	7,611.8	67.3	13.3	-94.42	1,611.9	1,097.2	1,703.7	1,634.1	69.58	24.484	
10,900.0	7,500.0	7,616.7	7,613.9	68.8	13.3	-94.72	1,612.0	1,097.2	1,792.5	1,720.7	71.86	24.945	
11,000.0	7,500.0	7,618.9	7,616.2	70.2	13.4	-95.07	1,612.0	1,097.3	1,883.2	1,809.1	74.12	25.409	
11,100.0	7,500.0	7,621.2	7,618.4	71.7	13.4	-95.46	1,612.1	1,097.4	1,975.4	1,899.1	76.35	25.875	
11,200.0	7,500.0	7,623.5	7,620.8	73.3	13.4	-95.92	1,612.2	1,097.5	2,069.0	1,990.5	78.55	26.340	
11,253.1	7,500.0	7,624.8	7,622.1	74.1	13.4	-96.18	1,612.2	1,097.5	2,119.2	2,039.5	79.71	26.587	
11,300.0	7,500.0	7,625.9	7,623.2	74.8	13.4	-96.28	1,612.2	1,097.6	2,163.7	2,083.2	80.50	26.879	
11,400.0	7,500.0	7,628.3	7,625.6	76.3	13.4	-96.48	1,612.3	1,097.6	2,258.8	2,176.7	82.18	27.487	
11,500.0	7,500.0	7,630.8	7,628.0	77.9	13.4	-96.69	1,612.3	1,097.7	2,354.4	2,270.5	83.86	28.076	
11,600.0	7,500.0	7,633.2	7,630.5	79.5	13.4	-96.89	1,612.4	1,097.8	2,450.3	2,364.8	85.54	28.646	
11,700.0	7,500.0	7,635.6	7,632.9	81.0	13.4	-97.09	1,612.5	1,097.9	2,546.6	2,459.3	87.22	29.198	
11,800.0	7,500.0	7,638.1	7,635.3	82.6	13.4	-97.30	1,612.5	1,098.0	2,643.1	2,554.2	88.89	29.733	
11,900.0	7,500.0	7,640.5	7,637.8	84.2	13.4	-97.50	1,612.6	1,098.1	2,739.8	2,649.3	90.57	30.250	
12,000.0	7,500.0	7,642.9	7,640.2	85.8	13.4	-97.71	1,612.6	1,098.1	2,836.8	2,744.6	92.25	30.752	
12,100.0	7,500.0	7,645.4	7,642.6	87.4	13.4	-97.91	1,612.7	1,098.2	2,934.0	2,840.1	93.92	31.239	
12,200.0	7,500.0	7,647.8	7,645.1	89.0	13.4	-98.12	1,612.8	1,098.3	3,031.4	2,935.8	95.59	31.711	
12,300.0	7,500.0	7,650.3	7,647.5	90.6	13.4	-98.32	1,612.8	1,098.4	3,128.9	3,031.6	97.26	32.169	
12,400.0	7,500.0	7,652.7	7,650.0	92.2	13.4	-98.53	1,612.9	1,098.5	3,226.6	3,127.6	98.93	32.614	
12,500.0	7,500.0	7,655.2	7,652.5	93.8	13.4	-98.73	1,612.9	1,098.6	3,324.4	3,223.8	100.60	33.046	
12,600.0	7,500.0	7,657.7	7,654.9	95.5	13.4	-98.94	1,613.0	1,098.6	3,422.3	3,320.0	102.26	33.466	
12,700.0	7,500.0	7,660.1	7,657.4	97.1	13.4	-99.15	1,613.1	1,098.7	3,520.4	3,416.4	103.92	33.874	
12,800.0	7,500.0	7,662.6	7,659.9	98.7	13.4	-99.35	1,613.1	1,098.8	3,618.5	3,512.9	105.58	34.272	
12,900.0	7,500.0	7,665.1	7,662.3	100.4	13.4	-99.56	1,613.2	1,098.9	3,716.8	3,609.5	107.24	34.658	
13,000.0	7,500.0	7,667.6	7,664.8	102.0	13.4	-99.77	1,613.2	1,099.0	3,815.1	3,706.2	108.89	35.035	
13,100.0	7,500.0	7,670.1	7,667.3	103.7	13.4	-99.97	1,613.3	1,099.0	3,913.5	3,803.0	110.55	35.402	
13,200.0	7,500.0	7,672.6	7,669.8	105.3	13.4	-100.18	1,613.4	1,099.1	4,012.0	3,899.9	112.19	35.760	
13,300.0	7,500.0	7,675.0	7,672.3	107.0	13.4	-100.39	1,613.4	1,099.2	4,110.6	3,996.8	113.84	36.109	
13,400.0	7,500.0	7,677.5	7,674.8	108.6	13.5	-100.59	1,613.5	1,099.3	4,209.3	4,093.8	115.48	36.449	
13,500.0	7,500.0	7,680.1	7,677.3	110.3	13.5	-100.80	1,613.6	1,099.4	4,308.0	4,190.8	117.12	36.782	
13,600.0	7,500.0	7,682.6	7,679.8	111.9	13.5	-101.01	1,613.6	1,099.4	4,406.7	4,288.0	118.76	37.107	
13,700.0	7,500.0	7,685.1	7,682.3	113.6	13.5	-101.21	1,613.7	1,099.5	4,505.5	4,385.1	120.39	37.424	
13,753.1	7,500.0	7,686.4	7,683.6	114.5	13.5	-101.32	1,613.7	1,099.6	4,558.1	4,436.8	121.26	37.590	
13,800.0	7,500.0	7,687.6	7,684.8	115.3	13.5	-102.13	1,613.8	1,099.6	4,604.4	4,482.4	122.00	37.742	
13,900.0	7,500.0	7,690.2	7,687.4	117.0	13.5	-104.29	1,613.8	1,099.7	4,703.6	4,580.3	123.24	38.167	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY				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	Separation	Warning						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor							
14,000.0	7,500.0	7,692.8	7,690.0	118.7	13.5	-107.30	1,613.9	1,099.8	4,803.0	4,679.2	123.72	38.820							
14,100.0	7,500.0	7,695.5	7,692.7	120.4	13.5	-111.75	1,614.0	1,099.8	4,902.6	4,779.9	122.69	39.959							
14,200.0	7,500.0	7,698.3	7,695.5	122.1	13.5	-118.88	1,614.0	1,099.9	5,002.3	4,884.2	118.16	42.337							
14,300.0	7,500.0	7,700.0	7,697.2	123.8	13.5	-131.26	1,614.1	1,100.0	5,102.2	4,997.6	104.57	48.792							
14,400.0	7,500.0	7,703.7	7,701.0	125.6	13.5	-155.17	1,614.2	1,100.1	5,202.1	5,136.6	65.55	79.365							

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-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	52.3	52.3	0.0	0.1	34.60	1,594.8	1,100.2	1,937.5					
100.0	100.0	151.1	151.1	0.2	0.3	34.60	1,594.8	1,100.2	1,937.5	1,937.1	0.42	4,662.472		
200.0	200.0	245.9	245.9	0.3	0.4	34.59	1,595.1	1,100.0	1,937.6	1,936.9	0.76	2,564.189		
300.0	300.0	381.0	381.0	0.5	0.7	-57.28	1,595.4	1,098.8	1,936.9	1,935.8	1.17	1,659.655		
400.0	400.0	548.4	548.2	0.7	1.0	-57.27	1,588.0	1,100.1	1,932.3	1,930.7	1.65	1,173.812		
500.0	499.9	817.4	813.9	0.9	1.7	-56.71	1,548.3	1,111.1	1,919.3	1,916.8	2.47	776.968		
600.0	599.7	906.6	901.2	1.1	2.1	-56.57	1,530.6	1,115.6	1,902.6	1,899.7	2.92	651.078		
700.0	699.4	1,143.7	1,131.8	1.3	3.1	-55.99	1,476.7	1,125.5	1,883.0	1,879.1	3.88	485.272		
800.0	798.9	1,299.1	1,280.1	1.5	3.9	-55.61	1,430.8	1,130.8	1,855.5	1,850.8	4.68	396.512		
900.0	898.3	1,401.6	1,377.3	1.8	4.5	-55.43	1,398.2	1,134.5	1,825.7	1,820.4	5.32	343.354		
1,000.0	997.4	1,505.0	1,474.9	2.0	5.1	-55.26	1,364.6	1,139.2	1,794.9	1,789.0	5.99	299.437		
1,100.0	1,096.3	1,585.6	1,550.9	2.3	5.5	-55.21	1,338.2	1,143.1	1,763.3	1,756.7	6.59	267.685		
1,200.0	1,194.9	1,667.0	1,627.9	2.7	6.0	-55.19	1,312.1	1,147.3	1,731.5	1,724.3	7.21	240.176		
1,300.0	1,293.3	1,771.0	1,726.1	3.0	6.6	-55.11	1,278.4	1,153.5	1,699.1	1,691.1	7.96	213.418		
1,400.0	1,391.2	1,853.0	1,803.5	3.4	7.1	-55.12	1,251.5	1,158.8	1,665.6	1,657.0	8.64	192.772		
1,500.0	1,488.9	1,971.4	1,915.2	3.8	7.8	-55.14	1,212.9	1,164.9	1,630.6	1,621.2	9.46	172.351		
1,600.0	1,586.1	2,037.0	1,977.3	4.3	8.2	-55.34	1,191.9	1,167.6	1,594.8	1,584.8	10.07	158.308		
1,700.0	1,682.9	2,109.4	2,046.0	4.7	8.6	-55.57	1,169.5	1,171.5	1,559.5	1,548.8	10.74	145.202		
1,800.0	1,779.3	2,220.3	2,151.4	5.2	9.2	-55.81	1,135.5	1,178.3	1,524.0	1,512.4	11.60	131.431		
1,900.0	1,875.2	2,323.9	2,249.2	5.8	9.9	-56.08	1,102.1	1,184.7	1,486.3	1,473.8	12.45	119.343		
2,000.0	1,970.5	2,415.8	2,336.0	6.3	10.4	-56.44	1,072.3	1,190.2	1,447.4	1,434.1	13.26	109.118		
2,022.8	1,992.2	2,436.5	2,355.5	6.4	10.5	-56.54	1,065.7	1,191.3	1,438.4	1,425.0	13.45	106.984		
2,100.0	2,065.5	2,507.2	2,422.6	6.9	10.9	-56.63	1,043.5	1,194.7	1,408.0	1,393.9	14.10	99.860		
2,200.0	2,160.5	2,599.4	2,510.0	7.5	11.5	-56.76	1,014.5	1,199.0	1,368.5	1,353.5	14.95	91.556		
2,300.0	2,255.5	2,690.7	2,596.6	8.0	12.0	-56.91	986.1	1,203.0	1,329.0	1,313.2	15.79	84.160		
2,400.0	2,350.5	2,821.9	2,720.8	8.6	12.8	-57.12	943.9	1,208.4	1,288.9	1,272.1	16.79	76.747		
2,500.0	2,445.5	2,935.2	2,827.0	9.2	13.5	-57.30	904.5	1,211.0	1,245.6	1,227.8	17.74	70.229		
2,600.0	2,540.4	3,019.0	2,905.2	9.8	14.0	-57.40	874.7	1,213.4	1,202.0	1,183.4	18.57	64.714		
2,700.0	2,635.4	3,103.5	2,984.3	10.4	14.6	-57.52	845.0	1,215.9	1,158.8	1,139.3	19.41	59.697		
2,800.0	2,730.4	3,188.4	3,063.8	11.0	15.1	-57.62	815.3	1,219.1	1,116.1	1,095.9	20.26	55.088		
2,900.0	2,825.4	3,290.5	3,159.4	11.6	15.8	-57.77	779.5	1,222.5	1,073.1	1,052.0	21.16	50.711		
3,000.0	2,920.4	3,379.9	3,243.1	12.2	16.3	-57.99	748.3	1,223.9	1,029.4	1,007.4	21.99	46.803		
3,100.0	3,015.4	3,451.7	3,310.6	12.8	16.8	-58.18	723.8	1,225.7	986.7	963.9	22.77	43.333		
3,200.0	3,110.3	3,521.0	3,376.2	13.3	17.1	-58.37	701.5	1,228.5	946.3	922.8	23.54	40.205		
3,300.0	3,205.3	3,598.3	3,449.7	13.9	17.6	-58.61	677.8	1,232.4	907.7	883.4	24.33	37.301		
3,400.0	3,300.3	3,678.1	3,525.6	14.5	18.0	-58.84	653.9	1,237.2	870.2	845.0	25.16	34.590		
3,500.0	3,395.3	3,756.5	3,600.4	15.1	18.4	-59.09	631.3	1,242.7	834.2	808.2	25.95	32.145		
3,600.0	3,490.3	3,844.0	3,684.9	15.7	18.8	-59.61	608.7	1,247.4	799.6	772.8	26.71	29.934		
3,700.0	3,585.2	3,966.0	3,802.9	16.3	19.4	-60.74	578.2	1,249.5	763.9	736.4	27.50	27.779		
3,800.0	3,680.2	4,070.5	3,903.1	16.9	20.0	-61.72	548.3	1,250.2	724.9	696.6	28.28	25.630		
3,900.0	3,775.2	4,153.2	3,982.0	17.5	20.5	-62.33	523.7	1,253.4	686.7	657.6	29.06	23.629		
4,000.0	3,870.2	4,264.9	4,087.7	18.1	21.2	-62.99	488.1	1,259.4	647.6	617.6	29.96	21.613		
4,100.0	3,965.2	4,368.0	4,184.3	18.7	21.8	-63.59	452.3	1,264.1	605.9	575.0	30.83	19.653		
4,200.0	4,060.2	4,456.9	4,267.3	19.3	22.4	-64.20	420.9	1,267.8	563.6	531.9	31.64	17.812		
4,300.0	4,155.1	4,536.0	4,341.5	19.9	22.9	-64.81	393.7	1,271.7	522.4	490.0	32.40	16.122		
4,400.0	4,250.1	4,614.2	4,415.5	20.5	23.3	-65.61	369.0	1,275.8	483.8	450.7	33.13	14.605		
4,500.0	4,345.1	4,699.8	4,497.3	21.1	23.8	-66.76	344.1	1,280.5	447.6	413.8	33.82	13.234		
4,600.0	4,440.1	4,790.4	4,584.1	21.7	24.2	-68.23	318.5	1,285.4	412.2	377.7	34.46	11.959		
4,700.0	4,535.1	4,882.9	4,673.1	22.3	24.7	-70.28	293.5	1,289.1	377.6	342.7	34.99	10.795		
4,800.0	4,630.1	4,971.3	4,758.4	22.9	25.1	-72.85	270.3	1,291.4	343.8	308.5	35.37	9.720		
4,900.0	4,725.0	5,055.8	4,840.3	23.5	25.5	-75.81	249.9	1,294.1	313.0	277.3	35.65	8.779		
5,000.0	4,820.0	5,141.2	4,923.7	24.1	25.8	-79.44	231.7	1,297.1	286.0	250.2	35.76	7.998		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU											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	4,915.0	5,228.2	5,009.2	24.6	26.1	-84.03	215.9	1,299.6	263.4	227.8	35.66	7.387	
5,200.0	5,010.0	5,317.7	5,097.6	25.2	26.4	-89.61	201.9	1,301.8	245.6	210.2	35.41	6.935	
5,300.0	5,105.0	5,408.3	5,187.3	25.8	26.6	-96.03	189.3	1,303.6	232.6	197.4	35.25	6.600	
5,400.0	5,199.9	5,497.9	5,276.2	26.4	26.9	-103.01	178.6	1,304.7	225.4	190.0	35.46	6.358	
5,456.9	5,254.0	5,548.6	5,326.6	26.8	27.0	-107.11	173.5	1,305.1	224.3	188.5	35.80	6.266 CC, ES	
5,500.0	5,294.9	5,586.9	5,364.8	27.0	27.0	-110.22	170.1	1,305.2	225.0	188.8	36.15	6.223 SF	
5,600.0	5,389.9	5,677.7	5,455.4	27.6	27.2	-117.33	163.6	1,305.4	231.1	194.0	37.11	6.228	
5,700.0	5,484.9	5,767.0	5,544.6	28.2	27.3	-123.53	159.3	1,306.2	242.8	204.8	38.00	6.390	
5,800.0	5,579.9	5,853.8	5,631.3	28.8	27.3	-128.66	158.1	1,306.8	260.3	221.6	38.73	6.721	
5,900.0	5,674.9	5,948.0	5,725.5	29.4	27.4	-133.68	158.0	1,305.5	282.3	243.0	39.28	7.187	
6,000.0	5,769.8	6,046.7	5,824.2	30.0	27.5	-138.03	157.7	1,305.4	305.2	265.5	39.67	7.693	
6,100.0	5,864.8	6,140.8	5,918.3	30.6	27.5	-141.51	157.6	1,306.1	328.9	289.0	39.94	8.235	
6,200.0	5,959.8	6,234.7	6,012.2	31.2	27.6	-144.47	157.9	1,306.7	354.1	314.0	40.15	8.820	
6,300.0	6,054.8	6,331.6	6,109.1	31.8	27.7	-147.08	158.5	1,307.5	380.1	339.7	40.31	9.429	
6,400.0	6,149.8	6,427.8	6,205.3	32.4	27.7	-149.33	158.9	1,308.7	406.2	365.8	40.44	10.044	
6,500.0	6,244.7	6,521.7	6,299.2	33.0	27.8	-151.29	159.2	1,309.6	433.0	392.5	40.57	10.674	
6,600.0	6,339.7	6,616.1	6,393.6	33.6	27.9	-153.05	159.5	1,310.3	460.6	419.9	40.68	11.320	
6,700.0	6,434.7	6,711.8	6,489.3	34.2	27.9	-154.65	159.7	1,310.9	488.5	447.7	40.80	11.973	
6,800.0	6,529.7	6,807.6	6,585.1	34.8	28.0	-156.09	159.8	1,311.6	516.6	475.7	40.91	12.626	
6,900.0	6,624.7	6,903.6	6,681.1	35.4	28.1	-157.39	159.8	1,312.3	544.8	503.8	41.03	13.278	
7,000.0	6,719.7	6,999.5	6,777.0	36.0	28.1	-158.57	159.6	1,313.2	573.2	532.0	41.15	13.927	
7,100.0	6,814.6	7,095.4	6,872.9	36.6	28.2	-159.65	159.4	1,314.1	601.6	560.3	41.29	14.572	
7,200.0	6,909.6	7,194.2	6,971.7	37.2	28.3	-160.68	158.8	1,315.2	630.0	588.5	41.43	15.206	
7,225.4	6,933.7	7,219.4	6,996.9	37.3	28.4	-160.94	158.5	1,315.6	637.1	595.6	41.46	15.364	
7,250.0	6,957.1	7,243.8	7,021.3	37.5	28.4	-163.10	158.2	1,316.0	643.8	602.0	41.77	15.411	
7,300.0	7,004.6	7,291.6	7,069.1	37.8	28.4	-137.89	157.5	1,316.7	655.9	613.6	42.30	15.507	
7,350.0	7,051.7	7,336.1	7,113.6	38.0	28.5	-125.00	156.9	1,317.3	666.4	623.7	42.68	15.613	
7,400.0	7,098.0	7,379.8	7,157.3	38.3	28.5	-115.13	156.4	1,317.7	675.6	632.6	42.94	15.734	
7,450.0	7,143.3	7,422.4	7,199.9	38.5	28.5	-108.02	156.0	1,318.0	683.5	640.4	43.08	15.867	
7,500.0	7,187.1	7,463.3	7,240.8	38.8	28.6	-103.08	155.8	1,318.2	690.4	647.3	43.13	16.008	
7,550.0	7,229.2	7,501.8	7,279.3	39.0	28.6	-99.72	155.5	1,318.1	696.6	653.5	43.13	16.151	
7,600.0	7,269.2	7,538.4	7,315.8	39.2	28.6	-97.51	155.4	1,317.9	702.5	659.3	43.11	16.295	
7,650.0	7,306.8	7,572.7	7,350.1	39.4	28.7	-96.12	155.2	1,317.5	708.2	665.1	43.09	16.438	
7,700.0	7,341.7	7,604.5	7,382.0	39.6	28.7	-95.27	155.1	1,317.1	714.3	671.2	43.09	16.578	
7,750.0	7,373.7	7,635.0	7,412.5	39.8	28.7	-94.84	155.0	1,316.5	720.9	677.8	43.11	16.722	
7,800.0	7,402.5	7,664.9	7,442.4	39.9	28.7	-94.73	155.0	1,316.0	728.3	685.1	43.16	16.874	
7,850.0	7,427.9	7,691.3	7,468.8	40.1	28.8	-94.65	154.9	1,315.6	736.7	693.4	43.25	17.033	
7,900.0	7,449.7	7,714.0	7,491.4	40.2	28.8	-94.46	154.9	1,315.2	746.4	703.0	43.38	17.206	
7,950.0	7,467.8	7,732.8	7,510.2	40.4	28.8	-94.06	154.8	1,315.0	757.6	714.1	43.54	17.400	
8,000.0	7,481.9	7,747.5	7,524.9	40.6	28.8	-93.39	154.8	1,314.8	770.5	726.8	43.72	17.623	
8,050.0	7,492.0	7,758.0	7,535.5	40.7	28.8	-92.38	154.8	1,314.7	785.1	741.2	43.90	17.886	
8,100.0	7,498.1	7,764.3	7,541.7	40.9	28.8	-91.02	154.8	1,314.6	801.3	757.3	44.02	18.203	
8,148.1	7,500.0	7,766.3	7,543.7	41.0	28.8	-89.38	154.8	1,314.6	818.4	774.4	44.05	18.579	
8,200.0	7,500.0	7,766.2	7,543.7	41.2	28.8	-89.37	154.8	1,314.6	838.9	794.4	44.52	18.844	
8,300.0	7,500.0	7,766.2	7,543.6	41.5	28.8	-89.37	154.8	1,314.6	885.6	840.1	45.52	19.454	
8,400.0	7,500.0	7,766.1	7,543.5	42.0	28.8	-89.36	154.8	1,314.6	940.7	894.1	46.65	20.166	
8,500.0	7,500.0	7,766.0	7,543.4	42.5	28.8	-89.35	154.8	1,314.6	1,002.8	954.9	47.87	20.948	
8,600.0	7,500.0	7,765.9	7,543.3	43.1	28.8	-89.35	154.8	1,314.6	1,070.6	1,021.4	49.17	21.773	
8,700.0	7,500.0	7,765.8	7,543.3	43.7	28.8	-89.34	154.8	1,314.6	1,143.1	1,092.6	50.54	22.620	
8,800.0	7,500.0	7,765.8	7,543.2	44.4	28.8	-89.34	154.8	1,314.6	1,219.6	1,167.6	51.95	23.474	
8,900.0	7,500.0	7,765.7	7,543.1	45.2	28.8	-89.33	154.8	1,314.6	1,299.2	1,245.8	53.42	24.322	
9,000.0	7,500.0	7,765.6	7,543.0	46.0	28.8	-89.32	154.8	1,314.6	1,381.5	1,326.6	54.92	25.156	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													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		
9,100.0	7,500.0	7,765.5	7,542.9	46.9	28.8	-89.32	154.8	1,314.6	1,466.0	1,409.6	56.45	25.970		
9,200.0	7,500.0	7,765.4	7,542.9	47.8	28.8	-89.31	154.8	1,314.6	1,552.4	1,494.4	58.01	26.762		
9,300.0	7,500.0	7,765.4	7,542.8	48.8	28.8	-89.31	154.8	1,314.6	1,640.3	1,580.7	59.59	27.528		
9,400.0	7,500.0	7,765.3	7,542.7	49.8	28.8	-89.30	154.8	1,314.6	1,729.5	1,668.3	61.18	28.267		
9,500.0	7,500.0	7,765.2	7,542.6	50.8	28.8	-89.29	154.8	1,314.6	1,819.8	1,757.0	62.80	28.979		
9,600.0	7,500.0	7,765.1	7,542.5	51.9	28.8	-89.29	154.8	1,314.6	1,911.1	1,846.7	64.43	29.663		
9,700.0	7,500.0	7,765.0	7,542.5	53.1	28.8	-89.28	154.8	1,314.6	2,003.2	1,937.2	66.07	30.321		
9,803.1	7,500.0	7,764.9	7,542.4	54.3	28.8	-89.27	154.8	1,314.6	2,099.0	2,031.2	67.77	30.973		
9,900.0	7,500.0	7,764.9	7,542.3	55.4	28.8	-89.27	154.8	1,314.6	2,189.5	2,120.2	69.38	31.560		
10,000.0	7,500.0	7,764.8	7,542.2	56.6	28.8	-89.26	154.8	1,314.6	2,283.6	2,212.5	71.05	32.142		
10,100.0	7,500.0	7,764.7	7,542.1	57.9	28.8	-89.26	154.8	1,314.6	2,378.1	2,305.4	72.72	32.701		
10,200.0	7,500.0	7,764.6	7,542.0	59.2	28.8	-89.25	154.8	1,314.6	2,473.0	2,398.6	74.40	33.238		
10,300.0	7,500.0	7,764.5	7,542.0	60.5	28.8	-89.24	154.8	1,314.6	2,568.4	2,492.3	76.09	33.754		
10,400.0	7,500.0	7,764.5	7,541.9	61.8	28.8	-89.24	154.8	1,314.6	2,664.0	2,586.3	77.78	34.249		
10,500.0	7,500.0	7,764.4	7,541.8	63.1	28.8	-89.23	154.8	1,314.6	2,760.0	2,680.5	79.48	34.725		
10,600.0	7,500.0	7,764.3	7,541.7	64.5	28.8	-89.23	154.8	1,314.6	2,856.3	2,775.1	81.18	35.183		
10,703.1	7,500.0	7,764.2	7,541.6	65.9	28.8	-89.22	154.8	1,314.6	2,955.8	2,872.9	82.94	35.637		
10,800.0	7,500.0	7,764.1	7,541.6	67.3	28.8	-89.16	154.8	1,314.6	3,049.7	2,964.6	85.16	35.810		
10,900.0	7,500.0	7,764.0	7,541.5	68.8	28.8	-89.08	154.8	1,314.6	3,147.2	3,059.8	87.44	35.995		
11,000.0	7,500.0	7,763.9	7,541.3	70.2	28.8	-88.99	154.8	1,314.6	3,245.3	3,155.6	89.69	36.183		
11,100.0	7,500.0	7,763.8	7,541.2	71.7	28.8	-88.87	154.8	1,314.6	3,343.7	3,251.8	91.92	36.376		
11,200.0	7,500.0	7,763.6	7,541.0	73.3	28.8	-88.71	154.8	1,314.6	3,442.5	3,348.4	94.13	36.573		
11,253.1	7,500.0	7,763.5	7,540.9	74.1	28.8	-88.61	154.8	1,314.6	3,495.2	3,399.9	95.29	36.679		
11,300.0	7,500.0	7,763.4	7,540.8	74.8	28.8	-88.60	154.8	1,314.6	3,541.6	3,445.6	96.09	36.856		
11,400.0	7,500.0	7,763.2	7,540.6	76.3	28.8	-88.58	154.8	1,314.6	3,640.8	3,543.0	97.81	37.224		
11,500.0	7,500.0	7,763.0	7,540.4	77.9	28.8	-88.55	154.8	1,314.6	3,740.1	3,640.5	99.52	37.579		
11,600.0	7,500.0	7,762.8	7,540.3	79.5	28.8	-88.53	154.8	1,314.6	3,839.3	3,738.1	101.24	37.922		
11,700.0	7,500.0	7,762.6	7,540.1	81.0	28.8	-88.51	154.8	1,314.6	3,938.6	3,835.7	102.96	38.253		
11,800.0	7,500.0	7,762.5	7,539.9	82.6	28.8	-88.48	154.8	1,314.6	4,038.0	3,933.3	104.68	38.574		
11,900.0	7,500.0	7,762.3	7,539.7	84.2	28.8	-88.46	154.8	1,314.6	4,137.3	4,030.9	106.40	38.883		
12,000.0	7,500.0	7,762.1	7,539.5	85.8	28.8	-88.43	154.8	1,314.6	4,236.7	4,128.6	108.13	39.183		
12,100.0	7,500.0	7,761.9	7,539.3	87.4	28.8	-88.41	154.8	1,314.7	4,336.2	4,226.3	109.85	39.473		
12,200.0	7,500.0	7,761.7	7,539.1	89.0	28.8	-88.39	154.8	1,314.7	4,435.6	4,324.1	111.58	39.754		
12,300.0	7,500.0	7,761.5	7,538.9	90.6	28.8	-88.36	154.8	1,314.7	4,535.1	4,421.8	113.31	40.026		
12,400.0	7,500.0	7,761.3	7,538.7	92.2	28.8	-88.34	154.8	1,314.7	4,634.6	4,519.6	115.03	40.289		
12,500.0	7,500.0	7,761.1	7,538.6	93.8	28.8	-88.32	154.8	1,314.7	4,734.1	4,617.4	116.76	40.545		
12,600.0	7,500.0	7,760.9	7,538.4	95.5	28.8	-88.29	154.8	1,314.7	4,833.7	4,715.2	118.49	40.794		
12,700.0	7,500.0	7,760.8	7,538.2	97.1	28.8	-88.27	154.8	1,314.7	4,933.2	4,813.0	120.22	41.035		
12,800.0	7,500.0	7,760.6	7,538.0	98.7	28.8	-88.24	154.8	1,314.7	5,032.8	4,910.9	121.95	41.269		
12,900.0	7,500.0	7,760.4	7,537.8	100.4	28.8	-88.22	154.8	1,314.7	5,132.4	5,008.7	123.68	41.496		
13,000.0	7,500.0	7,760.2	7,537.6	102.0	28.8	-88.20	154.8	1,314.7	5,232.0	5,106.6	125.42	41.717		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU											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	
0.0	0.0	103.0	102.9	0.0	0.2	34.74	1,584.6	1,099.0	1,929.0				
100.0	100.0	300.7	300.4	0.2	0.6	34.79	1,575.4	1,094.4	1,923.9	1,923.2	0.74	2,603.262	
200.0	200.0	500.1	498.6	0.3	1.1	35.00	1,554.5	1,088.4	1,913.7	1,912.2	1.42	1,344.969	
300.0	300.0	612.8	610.1	0.5	1.5	-56.73	1,538.5	1,085.8	1,900.2	1,898.6	1.62	1,172.043	
400.0	400.0	753.8	749.0	0.7	1.9	-56.59	1,514.3	1,083.3	1,883.5	1,881.4	2.11	893.796	
500.0	499.9	867.8	860.8	0.9	2.4	-56.52	1,492.4	1,081.8	1,864.6	1,862.1	2.56	729.650	
600.0	599.7	940.4	932.1	1.1	2.6	-56.56	1,478.9	1,081.4	1,845.7	1,842.8	2.92	632.877	
700.0	699.4	1,082.3	1,071.5	1.3	3.2	-56.56	1,451.8	1,080.4	1,825.6	1,822.1	3.46	527.265	
800.0	798.9	1,303.5	1,286.2	1.5	4.2	-56.49	1,399.0	1,075.2	1,799.7	1,795.5	4.25	423.019	
900.0	898.3	1,441.1	1,417.9	1.8	4.9	-56.55	1,359.5	1,069.9	1,768.0	1,763.1	4.86	363.603	
1,000.0	997.4	1,565.5	1,536.1	2.0	5.6	-56.67	1,321.1	1,065.1	1,733.6	1,728.2	5.47	317.132	
1,100.0	1,096.3	1,692.7	1,656.1	2.3	6.4	-56.83	1,279.3	1,059.9	1,696.8	1,690.7	6.11	277.841	
1,200.0	1,194.9	1,882.6	1,832.2	2.7	7.7	-56.89	1,208.9	1,050.6	1,655.0	1,648.0	7.01	236.202	
1,300.0	1,293.3	1,985.0	1,925.6	3.0	8.4	-57.10	1,167.3	1,045.7	1,609.9	1,602.2	7.65	210.386	
1,400.0	1,391.2	2,090.6	2,021.5	3.4	9.2	-57.37	1,123.3	1,040.2	1,562.7	1,554.4	8.32	187.808	
1,500.0	1,488.9	2,203.8	2,123.3	3.8	10.1	-57.64	1,074.3	1,034.8	1,513.9	1,504.8	9.06	167.096	
1,600.0	1,586.1	2,328.2	2,233.6	4.3	11.1	-57.92	1,017.0	1,028.6	1,461.7	1,451.9	9.86	148.200	
1,700.0	1,682.9	2,406.9	2,303.3	4.7	11.8	-58.39	980.7	1,023.7	1,408.3	1,397.8	10.48	134.370	
1,800.0	1,779.3	2,473.0	2,361.9	5.2	12.3	-58.95	950.6	1,019.6	1,354.6	1,343.5	11.06	122.438	
1,900.0	1,875.2	2,547.6	2,428.5	5.8	12.9	-59.58	917.2	1,015.4	1,301.0	1,289.3	11.69	111.283	
2,000.0	1,970.5	2,629.0	2,501.7	6.3	13.5	-60.35	881.7	1,010.7	1,247.4	1,235.1	12.33	101.187	
2,022.8	1,992.2	2,648.3	2,519.0	6.4	13.7	-60.56	873.4	1,009.4	1,235.1	1,222.6	12.47	99.035	
2,100.0	2,065.5	2,716.6	2,580.4	6.9	14.2	-60.85	843.9	1,004.9	1,193.2	1,180.2	13.05	91.433	
2,200.0	2,160.5	2,784.1	2,641.1	7.5	14.7	-61.11	814.5	1,001.2	1,139.4	1,125.6	13.75	82.841	
2,300.0	2,255.5	2,884.3	2,731.4	8.0	15.5	-61.53	771.5	996.6	1,086.6	1,072.0	14.54	74.747	
2,400.0	2,350.5	2,975.8	2,813.4	8.6	16.3	-62.03	731.1	990.2	1,031.6	1,016.3	15.27	67.548	
2,500.0	2,445.5	3,061.3	2,890.0	9.2	16.9	-62.58	693.7	983.9	976.8	960.8	15.97	61.174	
2,600.0	2,540.4	3,140.0	2,960.6	9.8	17.5	-63.21	659.7	977.3	921.9	905.3	16.63	55.451	
2,700.0	2,635.4	3,232.1	3,043.4	10.4	18.3	-64.05	620.2	969.6	867.4	850.1	17.29	50.163	
2,800.0	2,730.4	3,312.1	3,114.9	11.0	18.9	-64.84	584.9	962.9	812.1	794.2	17.94	45.266	
2,900.0	2,825.4	3,398.0	3,191.8	11.6	19.6	-65.74	547.0	956.8	757.5	738.9	18.58	40.763	
3,000.0	2,920.4	3,481.3	3,266.1	12.2	20.3	-66.80	510.1	949.9	702.3	683.1	19.19	36.588	
3,100.0	3,015.4	3,560.2	3,336.6	12.8	20.9	-67.88	475.0	944.4	647.8	628.0	19.80	32.718	
3,200.0	3,110.3	3,643.8	3,411.3	13.3	21.6	-69.16	437.8	939.1	593.8	573.4	20.38	29.133	
3,300.0	3,205.3	3,727.2	3,485.9	13.9	22.2	-70.83	401.1	932.8	539.8	518.9	20.90	25.830	
3,400.0	3,300.3	3,805.3	3,556.1	14.5	22.8	-72.86	367.4	926.0	486.7	465.3	21.36	22.780	
3,500.0	3,395.3	3,880.9	3,624.6	15.1	23.4	-75.43	336.3	918.9	435.5	413.7	21.81	19.974	
3,600.0	3,490.3	3,963.2	3,699.5	15.7	24.0	-78.88	303.2	911.2	386.3	364.0	22.31	17.317	
3,700.0	3,585.2	4,047.5	3,776.3	16.3	24.6	-83.13	269.1	904.5	338.7	315.7	23.04	14.700	
3,800.0	3,680.2	4,135.6	3,856.3	16.9	25.3	-88.72	232.7	898.2	292.6	268.3	24.30	12.041	
3,900.0	3,775.2	4,221.4	3,933.9	17.5	26.0	-95.52	196.4	893.6	248.8	222.5	26.29	9.464	
4,000.0	3,870.2	4,306.0	4,010.3	18.1	26.6	-104.18	160.3	890.4	208.8	179.8	29.09	7.179	
4,100.0	3,965.2	4,389.7	4,086.1	18.7	27.2	-115.61	125.0	887.2	176.2	143.7	32.49	5.423	
4,200.0	4,060.2	4,480.9	4,168.0	19.3	28.0	-131.91	85.0	883.6	153.5	117.7	35.88	4.279	
4,280.9	4,137.0	4,547.9	4,227.1	19.8	28.5	-146.32	53.7	880.1	146.6	109.4	37.16	3.945 CC, ES, SF	
4,300.0	4,155.1	4,563.5	4,240.9	19.9	28.7	-149.80	46.3	879.2	147.0	109.8	37.22	3.949	
4,400.0	4,250.1	4,645.2	4,312.8	20.5	29.4	-167.02	7.8	874.2	161.8	125.1	36.62	4.417	
4,500.0	4,345.1	4,730.6	4,388.8	21.1	30.0	-178.88	-30.8	869.7	192.3	156.1	36.21	5.311	
4,600.0	4,440.1	4,818.1	4,468.3	21.7	30.7	-169.09	-67.1	866.1	230.6	193.8	36.80	6.266	
4,700.0	4,535.1	4,907.5	4,551.0	22.3	31.2	-162.60	-100.8	862.7	272.2	234.6	37.62	7.236	
4,800.0	4,630.1	4,994.7	4,632.8	22.9	31.8	-158.50	-130.9	858.8	315.4	277.0	38.36	8.221	
4,900.0	4,725.0	5,087.4	4,720.6	23.5	32.3	-155.63	-160.3	854.1	359.3	320.2	39.10	9.189	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 41-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
5,000.0	4,820.0	5,186.6	4,815.5	24.1	32.8	153.66	-188.9	849.9	401.9	362.1	39.79	10.099	
5,100.0	4,915.0	5,285.6	4,911.3	24.6	33.2	152.60	-213.4	846.1	442.9	402.4	40.44	10.950	
5,200.0	5,010.0	5,390.8	5,014.3	25.2	33.6	152.24	-234.5	842.8	481.4	440.3	41.06	11.723	
5,300.0	5,105.0	5,488.1	5,110.1	25.8	33.9	152.27	-250.9	840.3	518.3	476.6	41.63	12.448	
5,400.0	5,199.9	5,589.8	5,210.8	26.4	34.2	152.55	-265.6	837.5	554.4	512.3	42.17	13.149	
5,500.0	5,294.9	5,688.0	5,308.4	27.0	34.4	153.18	-275.8	834.7	589.1	546.4	42.64	13.815	
5,600.0	5,389.9	5,794.2	5,414.2	27.6	34.6	154.04	-283.9	831.6	622.8	579.7	43.07	14.461	
5,700.0	5,484.9	5,900.0	5,519.9	28.2	34.7	155.04	-288.6	829.7	654.5	611.1	43.44	15.068	
5,800.0	5,579.9	5,997.4	5,617.2	28.8	34.8	156.05	-290.8	828.1	685.5	641.8	43.75	15.669	
5,900.0	5,674.9	6,095.0	5,714.8	29.4	34.8	157.13	-291.0	826.2	716.2	672.2	44.02	16.270	
6,000.0	5,769.8	6,189.9	5,809.7	30.0	34.9	158.11	-290.9	824.6	746.9	702.6	44.28	16.867	
6,100.0	5,864.8	6,283.9	5,903.7	30.6	34.9	159.00	-290.9	822.9	777.8	733.3	44.54	17.464	
6,200.0	5,959.8	6,378.7	5,998.5	31.2	35.0	159.82	-291.1	821.3	808.9	764.1	44.79	18.061	
6,300.0	6,054.8	6,474.0	6,093.7	31.8	35.0	160.59	-291.2	819.8	840.0	795.0	45.03	18.655	
6,400.0	6,149.8	6,573.8	6,193.5	32.4	35.1	161.33	-291.2	818.4	871.0	825.7	45.26	19.245	
6,500.0	6,244.7	6,674.0	6,293.7	33.0	35.1	162.05	-290.7	817.7	901.4	855.9	45.48	19.819	
6,600.0	6,339.7	6,767.3	6,387.1	33.6	35.2	162.67	-290.2	817.1	931.7	886.0	45.71	20.383	
6,700.0	6,434.7	6,860.6	6,480.4	34.2	35.3	163.23	-290.0	816.5	962.3	916.4	45.94	20.947	
6,800.0	6,529.7	6,954.1	6,573.9	34.8	35.3	163.76	-289.9	815.8	993.1	946.9	46.17	21.510	
6,900.0	6,624.7	7,047.0	6,666.8	35.4	35.4	164.24	-290.0	815.0	1,024.1	977.7	46.40	22.072	
7,000.0	6,719.7	7,138.7	6,758.5	36.0	35.4	164.69	-290.1	814.0	1,055.4	1,008.8	46.63	22.634	
7,100.0	6,814.6	7,231.3	6,851.0	36.6	35.5	165.12	-290.4	812.7	1,087.0	1,040.2	46.86	23.197	
7,200.0	6,909.6	7,324.7	6,944.5	37.2	35.6	165.53	-290.7	811.4	1,118.8	1,071.7	47.09	23.759	
7,225.4	6,933.7	7,348.5	6,968.2	37.3	35.6	165.63	-290.7	811.0	1,126.9	1,079.7	47.15	23.901	
7,250.0	6,957.1	7,371.4	6,991.1	37.5	35.6	174.03	-290.8	810.7	1,134.8	1,087.8	47.02	24.132	
7,300.0	7,004.6	7,417.6	7,037.3	37.8	35.6	-169.37	-290.9	809.9	1,151.2	1,104.4	46.80	24.597	
7,350.0	7,051.7	7,463.5	7,083.2	38.0	35.7	-154.87	-291.0	809.1	1,168.1	1,121.4	46.65	25.036	
7,400.0	7,098.0	7,508.6	7,128.3	38.3	35.7	-143.20	-291.1	808.3	1,185.2	1,138.6	46.58	25.442	
7,450.0	7,143.3	7,553.1	7,172.8	38.5	35.7	-134.13	-291.1	807.5	1,202.6	1,156.0	46.59	25.812	
7,500.0	7,187.1	7,596.8	7,216.5	38.8	35.8	-127.12	-291.1	806.6	1,220.3	1,173.6	46.67	26.146	
7,550.0	7,229.2	7,638.8	7,258.5	39.0	35.8	-121.63	-291.1	805.8	1,238.2	1,191.4	46.82	26.447	
7,600.0	7,269.2	7,678.8	7,298.4	39.2	35.8	-117.23	-291.0	805.1	1,256.5	1,209.5	47.03	26.717	
7,650.0	7,306.8	7,716.4	7,336.1	39.4	35.8	-113.61	-291.0	804.4	1,275.1	1,227.8	47.30	26.959	
7,700.0	7,341.7	7,751.6	7,371.2	39.6	35.9	-110.55	-290.9	803.7	1,294.1	1,246.5	47.62	27.176	
7,750.0	7,373.7	7,783.9	7,403.5	39.8	35.9	-107.86	-290.8	803.1	1,313.6	1,265.6	48.00	27.369	
7,800.0	7,402.5	7,813.1	7,432.7	39.9	35.9	-105.41	-290.7	802.5	1,333.6	1,285.2	48.42	27.543	
7,850.0	7,427.9	7,839.0	7,458.6	40.1	35.9	-103.11	-290.5	802.0	1,354.2	1,305.3	48.88	27.707	
7,900.0	7,449.7	7,861.3	7,480.9	40.2	35.9	-100.86	-290.4	801.5	1,375.4	1,326.0	49.34	27.876	
7,950.0	7,467.8	7,879.9	7,499.5	40.4	35.9	-98.62	-290.3	801.2	1,397.1	1,347.3	49.77	28.070	
8,000.0	7,481.9	7,895.5	7,515.1	40.6	35.9	-96.37	-290.2	800.9	1,419.4	1,369.2	50.12	28.317	
8,050.0	7,492.0	7,907.3	7,526.9	40.7	36.0	-94.08	-290.1	800.7	1,442.1	1,391.7	50.35	28.641	
8,100.0	7,498.1	7,914.5	7,534.2	40.9	36.0	-91.70	-290.0	800.5	1,465.1	1,414.7	50.39	29.073	
8,148.1	7,500.0	7,917.2	7,536.8	41.0	36.0	-89.34	-290.0	800.5	1,487.5	1,437.3	50.22	29.620	
8,200.0	7,500.0	7,917.7	7,537.3	41.2	36.0	-89.36	-290.0	800.5	1,512.5	1,461.8	50.69	29.837	
8,300.0	7,500.0	7,918.8	7,538.4	41.5	36.0	-89.41	-290.0	800.5	1,564.2	1,512.5	51.70	30.256	
8,400.0	7,500.0	7,919.8	7,539.4	42.0	36.0	-89.45	-290.0	800.4	1,620.5	1,567.7	52.83	30.676	
8,500.0	7,500.0	7,920.9	7,540.5	42.5	36.0	-89.50	-290.0	800.4	1,680.9	1,626.8	54.05	31.099	
8,600.0	7,500.0	7,921.9	7,541.6	43.1	36.0	-89.55	-290.0	800.4	1,744.9	1,689.6	55.35	31.523	
8,700.0	7,500.0	7,923.0	7,542.6	43.7	36.0	-89.59	-290.0	800.4	1,812.2	1,755.5	56.72	31.950	
8,800.0	7,500.0	7,924.1	7,543.7	44.4	36.0	-89.64	-290.0	800.4	1,882.4	1,824.2	58.14	32.376	
8,900.0	7,500.0	7,925.1	7,544.8	45.2	36.0	-89.68	-289.9	800.3	1,955.1	1,895.5	59.61	32.801	
9,000.0	7,500.0	7,926.2	7,545.8	46.0	36.0	-89.73	-289.9	800.3	2,030.2	1,969.1	61.11	33.224	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU													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		
9,100.0	7,500.0	7,927.3	7,546.9	46.9	36.0	-89.78	-289.9	800.3	2,107.4	2,044.8	62.64	33.643		
9,200.0	7,500.0	7,928.4	7,548.0	47.8	36.0	-89.82	-289.9	800.3	2,186.4	2,122.2	64.20	34.057		
9,300.0	7,500.0	7,929.4	7,549.1	48.8	36.0	-89.87	-289.9	800.3	2,267.1	2,201.3	65.78	34.465		
9,400.0	7,500.0	7,930.5	7,550.1	49.8	36.0	-89.92	-289.9	800.3	2,349.3	2,281.9	67.38	34.867		
9,500.0	7,500.0	7,931.6	7,551.2	50.8	36.0	-89.97	-289.9	800.2	2,432.7	2,363.8	68.99	35.261		
9,600.0	7,500.0	7,932.7	7,552.3	51.9	36.0	-90.01	-289.9	800.2	2,517.4	2,446.8	70.62	35.646		
9,700.0	7,500.0	7,933.8	7,553.4	53.1	36.0	-90.06	-289.9	800.2	2,603.2	2,531.0	72.26	36.024		
9,803.1	7,500.0	7,934.9	7,554.5	54.3	36.0	-90.11	-289.9	800.2	2,692.7	2,618.8	73.97	36.404		
9,900.0	7,500.0	7,936.0	7,555.6	55.4	36.0	-90.16	-289.9	800.2	2,777.7	2,702.1	75.58	36.753		
10,000.0	7,500.0	7,937.1	7,556.7	56.6	36.0	-90.20	-289.8	800.2	2,866.1	2,788.9	77.25	37.104		
10,100.0	7,500.0	7,938.2	7,557.8	57.9	36.0	-90.25	-289.8	800.1	2,955.3	2,876.4	78.92	37.446		
10,200.0	7,500.0	7,939.3	7,558.9	59.2	36.0	-90.30	-289.8	800.1	3,045.2	2,964.6	80.61	37.779		
10,300.0	7,500.0	7,940.4	7,560.0	60.5	36.0	-90.35	-289.8	800.1	3,135.7	3,053.4	82.29	38.103		
10,400.0	7,500.0	7,941.5	7,561.1	61.8	36.0	-90.40	-289.8	800.1	3,226.7	3,142.7	83.99	38.419		
10,500.0	7,500.0	7,942.6	7,562.2	63.1	36.0	-90.44	-289.8	800.1	3,318.3	3,232.6	85.69	38.726		
10,600.0	7,500.0	7,943.7	7,563.3	64.5	36.0	-90.49	-289.8	800.0	3,410.3	3,322.9	87.39	39.025		
10,703.1	7,500.0	7,944.8	7,564.4	65.9	36.0	-90.54	-289.8	800.0	3,505.7	3,416.5	89.15	39.324		
10,800.0	7,500.0	7,945.9	7,565.5	67.3	36.0	-90.61	-289.8	800.0	3,595.9	3,504.4	91.52	39.292		
10,900.0	7,500.0	7,947.0	7,566.6	68.8	36.0	-90.70	-289.8	800.0	3,690.1	3,596.1	93.95	39.279		
11,000.0	7,500.0	7,948.0	7,567.6	70.2	36.0	-90.79	-289.8	800.0	3,785.0	3,688.7	96.35	39.284		
11,100.0	7,500.0	7,949.1	7,568.7	71.7	36.0	-90.89	-289.8	800.0	3,880.8	3,782.0	98.73	39.306		
11,200.0	7,500.0	7,950.1	7,569.7	73.3	36.0	-91.00	-289.7	800.0	3,977.2	3,876.1	101.09	39.343		
11,253.1	7,500.0	7,950.6	7,570.2	74.1	36.0	-91.07	-289.7	799.9	4,028.7	3,926.4	102.33	39.369		
11,300.0	7,500.0	7,951.0	7,570.6	74.8	36.0	-91.10	-289.7	799.9	4,074.2	3,971.0	103.13	39.504		
11,400.0	7,500.0	7,952.0	7,571.6	76.3	36.0	-91.16	-289.7	799.9	4,171.4	4,066.5	104.85	39.785		
11,500.0	7,500.0	7,953.0	7,572.6	77.9	36.0	-91.21	-289.7	799.9	4,268.7	4,162.1	106.56	40.057		
11,600.0	7,500.0	7,954.0	7,573.6	79.5	36.0	-91.27	-289.7	799.9	4,366.1	4,257.8	108.28	40.321		
11,700.0	7,500.0	7,955.0	7,574.6	81.0	36.0	-91.33	-289.7	799.9	4,463.6	4,353.6	110.00	40.578		
11,800.0	7,500.0	7,955.9	7,575.6	82.6	36.0	-91.39	-289.7	799.9	4,561.3	4,449.6	111.72	40.827		
11,900.0	7,500.0	7,956.9	7,576.6	84.2	36.0	-91.45	-289.7	799.9	4,659.0	4,545.6	113.44	41.069		
12,000.0	7,500.0	7,957.9	7,577.6	85.8	36.0	-91.51	-289.7	799.8	4,756.9	4,641.7	115.17	41.305		
12,100.0	7,500.0	7,958.9	7,578.6	87.4	36.0	-91.57	-289.7	799.8	4,854.8	4,737.9	116.89	41.533		
12,200.0	7,500.0	7,960.0	7,579.6	89.0	36.0	-91.62	-289.7	799.8	4,952.8	4,834.2	118.61	41.756		
12,300.0	7,500.0	7,961.0	7,580.6	90.6	36.0	-91.68	-289.7	799.8	5,050.9	4,930.6	120.34	41.972		
12,400.0	7,500.0	7,962.0	7,581.6	92.2	36.0	-91.74	-289.6	799.8	5,149.1	5,027.0	122.07	42.183		
12,500.0	7,500.0	7,963.0	7,582.6	93.8	36.0	-91.80	-289.6	799.8	5,247.3	5,123.5	123.79	42.388		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU													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			
0.0	0.0	49.8	49.8	0.0	0.1	34.27	1,615.6	1,100.7	1,954.9					
100.0	100.0	125.9	125.9	0.2	0.2	34.27	1,615.8	1,101.2	1,955.5	1,955.2	0.37	5,244.812		
200.0	200.0	191.2	191.2	0.3	0.3	34.30	1,616.5	1,102.6	1,957.7	1,957.0	0.67	2,939.166		
300.0	300.0	254.0	253.9	0.5	0.5	-57.45	1,617.9	1,105.2	1,961.4	1,960.4	0.95	2,065.983		
400.0	400.0	309.5	309.2	0.7	0.6	-57.39	1,619.9	1,108.5	1,966.2	1,964.9	1.23	1,599.127		
500.0	499.9	345.0	344.6	0.9	0.7	-57.34	1,621.5	1,111.1	1,972.4	1,970.9	1.48	1,334.731		
600.0	599.7	437.0	436.1	1.1	0.9	-57.32	1,627.8	1,119.2	1,979.7	1,977.8	1.84	1,076.910		
700.0	699.4	471.4	470.2	1.3	1.0	-57.29	1,630.9	1,122.7	1,988.3	1,986.2	2.11	944.216		
800.0	798.9	529.0	527.0	1.5	1.2	-57.28	1,637.2	1,129.3	1,998.5	1,996.1	2.43	823.685		
900.0	898.3	581.8	579.0	1.8	1.4	-57.27	1,643.8	1,136.1	2,010.0	2,007.2	2.76	728.753		
1,000.0	997.4	645.0	640.9	2.0	1.6	-57.29	1,652.6	1,145.2	2,022.5	2,019.4	3.13	647.118		
1,100.0	1,096.3	723.9	718.0	2.3	1.9	-57.37	1,664.3	1,157.3	2,035.5	2,032.0	3.54	574.674		
1,200.0	1,194.9	806.5	801.0	2.7	2.6	-57.81	1,689.8	1,182.1	2,046.1	2,041.9	4.17	490.122		
1,300.0	1,293.3	1,001.2	990.3	3.0	3.0	-58.06	1,701.2	1,193.9	2,053.4	2,048.8	4.67	439.861		
1,400.0	1,391.2	1,065.2	1,053.2	3.4	3.2	-58.22	1,709.3	1,202.5	2,061.1	2,056.0	5.13	401.773		
1,500.0	1,488.9	1,120.0	1,106.8	3.8	3.4	-58.35	1,717.0	1,210.9	2,069.9	2,064.3	5.60	369.670		
1,600.0	1,586.1	1,196.7	1,181.6	4.3	3.8	-58.58	1,728.7	1,223.1	2,079.5	2,073.4	6.14	338.774		
1,700.0	1,682.9	1,278.2	1,260.9	4.7	4.1	-58.87	1,742.0	1,236.3	2,089.2	2,082.5	6.72	310.948		
1,800.0	1,779.3	1,382.3	1,362.2	5.2	4.6	-59.32	1,759.5	1,253.0	2,098.5	2,091.1	7.38	284.518		
1,900.0	1,875.2	1,541.5	1,517.8	5.8	5.2	-60.17	1,784.9	1,275.4	2,105.3	2,097.1	8.19	257.137		
2,000.0	1,970.5	1,644.0	1,618.2	6.3	5.6	-60.71	1,798.7	1,290.2	2,109.6	2,100.7	8.93	236.159		
2,022.8	1,992.2	1,669.2	1,642.9	6.4	5.7	-60.85	1,801.9	1,294.1	2,110.5	2,101.4	9.11	231.750		
2,100.0	2,065.5	1,731.0	1,703.4	6.9	6.0	-61.21	1,810.7	1,303.3	2,114.1	2,104.4	9.65	219.167		
2,200.0	2,160.5	1,814.7	1,785.3	7.5	6.3	-61.74	1,823.7	1,314.9	2,119.6	2,109.3	10.36	204.644		
2,300.0	2,255.5	1,897.6	1,866.3	8.0	6.6	-62.25	1,836.4	1,327.1	2,125.7	2,114.6	11.09	191.600		
2,400.0	2,350.5	1,981.2	1,947.7	8.6	7.0	-62.69	1,848.6	1,341.7	2,132.7	2,120.8	11.86	179.887		
2,500.0	2,445.5	2,080.0	2,043.7	9.2	7.5	-63.17	1,862.5	1,360.3	2,140.0	2,127.3	12.67	168.937		
2,600.0	2,540.4	2,168.0	2,129.1	9.8	7.9	-63.59	1,874.8	1,377.3	2,147.6	2,134.1	13.46	159.499		
2,700.0	2,635.4	2,260.7	2,219.0	10.4	8.3	-64.02	1,888.2	1,395.7	2,155.9	2,141.7	14.28	150.966		
2,800.0	2,730.4	2,372.8	2,327.8	11.0	8.8	-64.55	1,904.5	1,417.3	2,164.3	2,149.1	15.16	142.749		
2,900.0	2,825.4	2,493.8	2,445.6	11.6	9.3	-65.17	1,921.7	1,438.6	2,171.8	2,155.7	16.07	135.180		
3,000.0	2,920.4	2,691.0	2,639.3	12.2	10.0	-66.22	1,944.3	1,468.0	2,174.8	2,157.6	17.21	126.341		
3,100.0	3,015.4	2,736.0	2,683.5	12.8	10.2	-66.47	1,949.8	1,474.4	2,179.2	2,161.3	17.90	121.727		
3,200.0	3,110.3	2,817.5	2,763.3	13.3	10.5	-66.91	1,960.6	1,487.2	2,185.4	2,166.7	18.72	116.757		
3,300.0	3,205.3	2,960.4	2,903.2	13.9	11.1	-67.60	1,977.0	1,511.2	2,190.8	2,171.1	19.75	110.945		
3,400.0	3,300.3	3,070.2	3,011.2	14.5	11.5	-68.16	1,988.1	1,527.7	2,194.2	2,173.6	20.66	106.199		
3,500.0	3,395.3	3,128.0	3,067.8	15.1	11.7	-68.46	1,995.0	1,536.7	2,199.7	2,178.2	21.41	102.728		
3,600.0	3,490.3	3,176.2	3,114.9	15.7	11.9	-68.70	2,001.6	1,544.6	2,207.2	2,185.1	22.13	99.742		
3,700.0	3,585.2	3,303.6	3,239.2	16.3	12.5	-69.35	2,019.8	1,565.9	2,215.9	2,192.8	23.14	95.780		
3,800.0	3,680.2	3,390.0	3,323.6	16.9	12.8	-69.77	2,031.0	1,580.3	2,223.4	2,199.4	23.99	92.669		
3,900.0	3,775.2	3,461.8	3,393.8	17.5	13.1	-70.13	2,041.1	1,591.9	2,231.9	2,207.1	24.80	89.986		
4,000.0	3,870.2	3,521.1	3,451.5	18.1	13.4	-70.43	2,050.2	1,601.9	2,242.1	2,216.5	25.59	87.614		
4,100.0	3,965.2	3,602.5	3,530.2	18.7	13.8	-70.78	2,063.4	1,617.9	2,254.1	2,227.6	26.46	85.199		
4,200.0	4,060.2	3,622.6	3,545.2	19.3	14.7	-71.90	2,095.4	1,652.7	2,263.3	2,235.5	27.79	81.441		
4,300.0	4,155.1	3,662.5	3,582.6	19.9	15.3	-73.46	2,122.2	1,672.9	2,267.6	2,238.5	29.10	77.923		
4,400.0	4,250.1	3,724.2	3,643.7	20.5	15.7	-75.07	2,135.5	1,680.5	2,265.3	2,235.0	30.34	74.660		
4,500.0	4,345.1	3,793.9	3,713.3	21.1	15.8	-75.89	2,139.5	1,682.5	2,261.3	2,230.1	31.24	72.391		
4,600.0	4,440.1	3,870.9	3,790.3	21.7	16.0	-77.24	2,142.4	1,684.1	2,255.5	2,223.2	32.33	69.762		
4,700.0	4,535.1	3,952.7	3,872.0	22.3	16.1	-78.03	2,142.3	1,684.4	2,248.4	2,215.2	33.20	67.724		
4,800.0	4,630.1	4,039.1	3,958.5	22.9	16.2	-78.87	2,141.9	1,683.9	2,241.4	2,207.3	34.07	65.782		
4,900.0	4,725.0	4,126.0	4,045.3	23.5	16.2	-79.75	2,141.1	1,682.4	2,234.2	2,199.3	34.94	63.935		
5,000.0	4,820.0	4,213.7	4,132.0	24.1	16.3	-80.58	2,140.0	1,680.9	2,227.1	2,191.3	35.81	62.200		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU												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
5,100.0	4,915.0	5,083.4	5,002.7	24.6	16.4	-81.37	2,138.7	1,679.6	2,220.3	2,183.6	36.65	60.578	
5,200.0	5,010.0	5,173.5	5,092.8	25.2	16.4	-82.12	2,137.5	1,678.5	2,214.0	2,176.5	37.48	59.077	
5,300.0	5,105.0	5,263.6	5,182.9	25.8	16.5	-82.87	2,136.6	1,677.2	2,208.3	2,170.0	38.30	57.662	
5,400.0	5,199.9	5,353.5	5,272.8	26.4	16.6	-83.62	2,135.8	1,676.0	2,203.3	2,164.2	39.12	56.328	
5,500.0	5,294.9	5,441.9	5,361.2	27.0	16.6	-84.37	2,135.3	1,674.7	2,199.0	2,159.1	39.93	55.073	
5,600.0	5,389.9	5,528.9	5,448.2	27.6	16.7	-85.10	2,135.0	1,673.6	2,195.5	2,154.8	40.74	53.895	
5,700.0	5,484.9	5,617.2	5,536.5	28.2	16.8	-85.84	2,135.0	1,672.7	2,192.8	2,151.3	41.54	52.785	
5,800.0	5,579.9	5,706.7	5,625.9	28.8	16.9	-86.60	2,135.2	1,671.5	2,190.8	2,148.5	42.34	51.739	
5,900.0	5,674.9	5,796.7	5,715.9	29.4	17.0	-87.37	2,135.7	1,670.2	2,189.5	2,146.3	43.14	50.749	
6,000.0	5,769.8	5,887.2	5,806.4	30.0	17.1	-88.14	2,136.4	1,669.0	2,188.8	2,144.9	43.94	49.814	
6,050.1	5,817.4	5,932.7	5,851.9	30.3	17.1	-88.53	2,136.7	1,668.3	2,188.7	2,144.4	44.34	49.366	
6,100.0	5,864.8	5,978.1	5,897.3	30.6	17.1	-88.92	2,137.1	1,667.8	2,188.8	2,144.1	44.73	48.930	
6,200.0	5,959.8	6,069.3	5,988.5	31.2	17.2	-89.69	2,138.1	1,666.7	2,189.5	2,143.9	45.52	48.096	
6,300.0	6,054.8	6,156.5	6,075.7	31.8	17.3	-90.43	2,139.2	1,665.8	2,190.8	2,144.5	46.30	47.317	
6,400.0	6,149.8	6,242.1	6,161.3	32.4	17.4	-91.15	2,140.6	1,665.1	2,192.9	2,145.9	47.07	46.589	
6,500.0	6,244.7	6,337.1	6,256.2	33.0	17.6	-91.94	2,142.4	1,664.5	2,195.8	2,148.0	47.85	45.888	
6,600.0	6,339.7	6,436.8	6,355.9	33.6	17.7	-92.77	2,144.1	1,663.8	2,199.0	2,150.4	48.64	45.215	
6,700.0	6,434.7	6,534.5	6,453.6	34.2	17.8	-93.58	2,145.6	1,663.0	2,202.5	2,153.1	49.40	44.582	
6,800.0	6,529.7	6,631.0	6,550.1	34.8	17.9	-94.39	2,147.0	1,662.0	2,206.3	2,156.1	50.16	43.984	
6,900.0	6,624.7	6,721.1	6,640.2	35.4	18.0	-95.14	2,148.3	1,661.1	2,210.7	2,159.8	50.91	43.427	
7,000.0	6,719.7	6,814.3	6,733.3	36.0	18.1	-95.91	2,149.9	1,660.3	2,215.7	2,164.0	51.65	42.901	
7,100.0	6,814.6	6,919.7	6,838.8	36.6	18.2	-96.77	2,151.4	1,659.5	2,220.9	2,168.5	52.40	42.387	
7,200.0	6,909.6	7,011.0	6,930.0	37.2	18.4	-97.51	2,152.4	1,658.9	2,226.2	2,173.1	53.12	41.907	
7,225.4	6,933.7	7,031.0	6,950.1	37.3	18.4	-97.67	2,152.7	1,658.9	2,227.7	2,174.4	53.30	41.793	
7,250.0	6,957.1	7,050.5	6,969.5	37.5	18.4	-90.32	2,153.0	1,658.8	2,228.7	2,175.2	53.55	41.619	
7,300.0	7,004.6	7,090.1	7,009.1	37.8	18.5	-75.74	2,153.8	1,658.8	2,227.7	2,173.9	53.78	41.424	
7,350.0	7,051.7	7,144.0	7,063.0	38.0	18.6	-63.22	2,155.1	1,659.1	2,222.7	2,169.0	53.66	41.422	
7,400.0	7,098.0	7,173.9	7,092.9	38.3	18.6	-53.19	2,155.9	1,659.3	2,213.4	2,160.3	53.14	41.652	
7,450.0	7,143.3	7,220.3	7,139.3	38.5	18.7	-45.79	2,157.2	1,659.6	2,200.1	2,147.8	52.29	42.075	
7,500.0	7,187.1	7,265.3	7,184.3	38.8	18.7	-40.35	2,158.4	1,660.0	2,182.7	2,131.6	51.09	42.722	
7,550.0	7,229.2	7,308.7	7,227.7	39.0	18.8	-36.39	2,159.5	1,660.3	2,161.4	2,111.9	49.56	43.613	
7,600.0	7,269.2	7,351.3	7,270.2	39.2	18.9	-33.55	2,160.7	1,660.7	2,136.3	2,088.6	47.72	44.772	
7,650.0	7,306.8	7,391.7	7,310.6	39.4	18.9	-31.57	2,161.7	1,661.0	2,107.7	2,062.1	45.59	46.235	
7,700.0	7,341.7	7,429.2	7,348.2	39.6	19.0	-30.30	2,162.6	1,661.3	2,075.6	2,032.4	43.20	48.041	
7,750.0	7,373.7	7,463.7	7,382.6	39.8	19.0	-29.65	2,163.4	1,661.5	2,040.3	1,999.7	40.61	50.238	
7,800.0	7,402.5	7,494.8	7,413.7	39.9	19.1	-29.59	2,164.1	1,661.7	2,002.2	1,964.4	37.87	52.869	
7,850.0	7,427.9	7,521.1	7,439.9	40.1	19.1	-30.13	2,164.6	1,661.9	1,961.5	1,926.5	35.05	55.960	
7,900.0	7,449.7	7,543.8	7,462.7	40.2	19.2	-31.42	2,165.2	1,662.1	1,918.6	1,886.3	32.27	59.455	
7,950.0	7,467.8	7,562.9	7,481.8	40.4	19.2	-33.75	2,165.6	1,662.2	1,873.6	1,843.9	29.69	63.102	
8,000.0	7,481.9	7,578.1	7,497.0	40.6	19.2	-37.69	2,165.9	1,662.4	1,827.1	1,799.4	27.62	66.160	
8,050.0	7,492.0	7,589.3	7,508.2	40.7	19.2	-44.50	2,166.2	1,662.5	1,779.2	1,752.6	26.57	66.957	
8,100.0	7,498.1	7,596.5	7,515.3	40.9	19.2	-57.25	2,166.4	1,662.6	1,730.4	1,702.9	27.47	62.982	
8,148.1	7,500.0	7,599.5	7,518.3	41.0	19.2	-81.36	2,166.4	1,662.6	1,682.8	1,652.3	30.49	55.190	
8,200.0	7,500.0	7,600.6	7,519.5	41.2	19.2	-81.65	2,166.4	1,662.6	1,631.5	1,600.5	31.00	52.636	
8,300.0	7,500.0	7,602.8	7,521.7	41.5	19.2	-82.21	2,166.5	1,662.7	1,532.5	1,500.4	32.07	47.788	
8,400.0	7,500.0	7,605.0	7,523.9	42.0	19.2	-82.77	2,166.6	1,662.7	1,433.6	1,400.4	33.26	43.109	
8,500.0	7,500.0	7,607.2	7,526.1	42.5	19.2	-83.33	2,166.6	1,662.7	1,334.9	1,300.4	34.54	38.652	
8,600.0	7,500.0	7,609.4	7,528.3	43.1	19.3	-83.89	2,166.7	1,662.7	1,236.4	1,200.5	35.90	34.446	
8,700.0	7,500.0	7,611.6	7,530.5	43.7	19.3	-84.45	2,166.7	1,662.8	1,138.2	1,100.9	37.32	30.502	
8,800.0	7,500.0	7,613.8	7,532.7	44.4	19.3	-85.02	2,166.8	1,662.8	1,040.3	1,001.5	38.79	26.821	
8,900.0	7,500.0	7,616.1	7,534.9	45.2	19.3	-85.59	2,166.8	1,662.8	942.9	902.6	40.30	23.396	
9,000.0	7,500.0	7,618.3	7,537.1	46.0	19.3	-86.16	2,166.9	1,662.8	846.0	804.2	41.85	20.216	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU												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	
9,100.0	7,500.0	7,620.5	7,539.4	46.9	19.3	-86.73	2,166.9	1,662.9	750.0	706.6	43.42	17.271	
9,200.0	7,500.0	7,622.7	7,541.6	47.8	19.3	-87.30	2,167.0	1,662.9	655.1	610.1	45.02	14.551	
9,300.0	7,500.0	7,624.9	7,543.8	48.8	19.3	-87.88	2,167.0	1,662.9	562.0	515.4	46.64	12.051	
9,400.0	7,500.0	7,627.2	7,546.0	49.8	19.3	-88.45	2,167.1	1,663.0	471.8	423.5	48.27	9.773	
9,500.0	7,500.0	7,629.4	7,548.3	50.8	19.3	-89.03	2,167.1	1,663.0	386.3	336.4	49.91	7.739	
9,600.0	7,500.0	7,631.6	7,550.5	51.9	19.3	-89.61	2,167.2	1,663.0	309.7	258.1	51.57	6.005	
9,700.0	7,500.0	7,633.9	7,552.7	53.1	19.3	-90.19	2,167.2	1,663.0	250.1	196.9	53.23	4.699	
9,803.1	7,500.0	7,636.2	7,555.0	54.3	19.3	-90.79	2,167.3	1,663.1	221.6	166.7	54.95	4.033	
9,816.8	7,500.0	7,636.5	7,555.4	54.4	19.3	-90.87	2,167.3	1,663.1	221.2	166.0	55.18	4.009 CC, ES, SF	
9,900.0	7,500.0	7,638.4	7,557.2	55.4	19.3	-91.35	2,167.3	1,663.1	236.3	179.7	56.56	4.178	
10,000.0	7,500.0	7,640.6	7,559.5	56.6	19.3	-91.93	2,167.4	1,663.1	287.2	228.9	58.24	4.931	
10,100.0	7,500.0	7,642.9	7,561.7	57.9	19.3	-92.52	2,167.4	1,663.2	359.3	299.4	59.91	5.997	
10,200.0	7,500.0	7,645.1	7,564.0	59.2	19.3	-93.10	2,167.5	1,663.2	442.4	380.8	61.58	7.184	
10,300.0	7,500.0	7,647.4	7,566.2	60.5	19.3	-93.68	2,167.5	1,663.2	531.3	468.1	63.25	8.401	
10,400.0	7,500.0	7,649.6	7,568.5	61.8	19.3	-94.27	2,167.6	1,663.2	623.6	558.7	64.91	9.607	
10,500.0	7,500.0	7,651.9	7,570.7	63.1	19.3	-94.85	2,167.6	1,663.3	718.0	651.4	66.57	10.784	
10,600.0	7,500.0	7,654.2	7,573.0	64.5	19.3	-95.43	2,167.7	1,663.3	813.7	745.4	68.23	11.925	
10,703.1	7,500.0	7,656.5	7,575.4	65.9	19.3	-96.04	2,167.8	1,663.3	913.3	843.4	69.93	13.060	
10,800.0	7,500.0	7,658.7	7,577.6	67.3	19.3	-97.11	2,167.8	1,663.4	1,007.7	935.6	72.15	13.967	
10,900.0	7,500.0	7,661.0	7,579.9	68.8	19.3	-98.49	2,167.9	1,663.4	1,105.9	1,031.6	74.35	14.875	
11,000.0	7,500.0	7,663.4	7,582.2	70.2	19.3	-100.27	2,167.9	1,663.4	1,204.7	1,128.3	76.40	15.768	
11,100.0	7,500.0	7,665.8	7,584.6	71.7	19.3	-102.66	2,168.0	1,663.5	1,303.9	1,225.7	78.19	16.675	
11,200.0	7,500.0	7,668.2	7,587.0	73.3	19.3	-106.06	2,168.0	1,663.5	1,403.4	1,323.9	79.47	17.659	
11,253.1	7,500.0	7,669.4	7,588.3	74.1	19.3	-108.50	2,168.1	1,663.5	1,456.3	1,376.6	79.76	18.259	
11,300.0	7,500.0	7,670.6	7,589.4	74.8	19.3	-109.04	2,168.1	1,663.5	1,503.0	1,422.7	80.30	18.718	
11,400.0	7,500.0	7,673.0	7,591.8	76.3	19.4	-110.17	2,168.2	1,663.6	1,602.8	1,521.3	81.43	19.683	
11,500.0	7,500.0	7,675.4	7,594.2	77.9	19.4	-111.29	2,168.2	1,663.6	1,702.5	1,620.0	82.51	20.633	
11,600.0	7,500.0	7,677.8	7,596.6	79.5	19.4	-112.39	2,168.3	1,663.6	1,802.3	1,718.7	83.56	21.570	
11,700.0	7,500.0	7,680.2	7,599.0	81.0	19.4	-113.48	2,168.3	1,663.7	1,902.1	1,817.5	84.56	22.495	
11,800.0	7,500.0	7,682.6	7,601.4	82.6	19.4	-114.55	2,168.4	1,663.7	2,001.9	1,916.4	85.51	23.411	
11,900.0	7,500.0	7,685.0	7,603.8	84.2	19.4	-115.60	2,168.4	1,663.7	2,101.7	2,015.3	86.43	24.317	
12,000.0	7,500.0	7,687.4	7,606.2	85.8	19.4	-116.64	2,168.5	1,663.8	2,201.6	2,114.3	87.31	25.217	
12,100.0	7,500.0	7,689.8	7,608.6	87.4	19.4	-117.66	2,168.6	1,663.8	2,301.4	2,213.3	88.14	26.110	
12,200.0	7,500.0	7,692.2	7,611.0	89.0	19.4	-118.66	2,168.6	1,663.8	2,401.3	2,312.4	88.94	26.999	
12,300.0	7,500.0	7,694.6	7,613.5	90.6	19.4	-119.64	2,168.7	1,663.9	2,501.2	2,411.5	89.70	27.884	
12,400.0	7,500.0	7,697.0	7,615.9	92.2	19.4	-120.61	2,168.7	1,663.9	2,601.1	2,510.6	90.42	28.766	
12,500.0	7,500.0	7,699.5	7,618.3	93.8	19.4	-121.56	2,168.8	1,664.0	2,700.9	2,609.8	91.11	29.645	
12,600.0	7,500.0	7,701.9	7,620.7	95.5	19.4	-122.49	2,168.8	1,664.0	2,800.8	2,709.1	91.76	30.523	
12,700.0	7,500.0	7,704.3	7,623.1	97.1	19.4	-123.40	2,168.9	1,664.0	2,900.7	2,808.4	92.38	31.400	
12,800.0	7,500.0	7,706.7	7,625.5	98.7	19.4	-124.30	2,169.0	1,664.1	3,000.6	2,907.7	92.96	32.277	
12,900.0	7,500.0	7,709.1	7,628.0	100.4	19.4	-125.17	2,169.0	1,664.1	3,100.6	3,007.0	93.52	33.154	
13,000.0	7,500.0	7,711.6	7,630.4	102.0	19.4	-126.04	2,169.1	1,664.1	3,200.5	3,106.4	94.04	34.032	
13,100.0	7,500.0	7,714.0	7,632.8	103.7	19.4	-126.88	2,169.1	1,664.2	3,300.4	3,205.8	94.54	34.911	
13,200.0	7,500.0	7,716.4	7,635.2	105.3	19.4	-127.70	2,169.2	1,664.2	3,400.3	3,305.3	95.00	35.791	
13,300.0	7,500.0	7,718.9	7,637.7	107.0	19.4	-128.51	2,169.3	1,664.2	3,500.2	3,404.8	95.44	36.673	
13,400.0	7,500.0	7,721.3	7,640.1	108.6	19.4	-129.31	2,169.3	1,664.3	3,600.1	3,504.3	95.86	37.557	
13,500.0	7,500.0	7,723.7	7,642.5	110.3	19.4	-130.08	2,169.4	1,664.3	3,700.1	3,603.8	96.25	38.443	
13,600.0	7,500.0	7,726.2	7,645.0	111.9	19.4	-130.84	2,169.4	1,664.3	3,800.0	3,703.4	96.62	39.331	
13,700.0	7,500.0	7,728.6	7,647.4	113.6	19.4	-131.59	2,169.5	1,664.4	3,899.9	3,803.0	96.96	40.222	
13,753.1	7,500.0	7,729.9	7,648.7	114.5	19.4	-131.97	2,169.5	1,664.4	3,953.0	3,855.9	97.14	40.696	
13,800.0	7,500.0	7,731.0	7,649.8	115.3	19.4	-143.71	2,169.5	1,664.4	3,999.9	3,919.3	80.54	49.664	
13,900.0	7,500.0	7,733.5	7,652.3	117.0	19.4	176.77	2,169.6	1,664.4	4,099.8	4,068.6	31.19	131.438	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU													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		
14,000.0	7,500.0	7,736.0	7,654.8	118.7	19.4	140.39	2,169.7	1,664.5	4,199.8	4,112.1	87.65	47.918		
14,100.0	7,500.0	7,738.5	7,657.3	120.4	19.5	122.33	2,169.7	1,664.5	4,299.7	4,184.7	114.99	37.392		
14,200.0	7,500.0	7,741.1	7,659.9	122.1	19.5	113.38	2,169.8	1,664.5	4,399.6	4,273.2	126.39	34.810		
14,300.0	7,500.0	7,743.6	7,662.4	123.8	19.5	108.27	2,169.8	1,664.6	4,499.3	4,366.7	132.67	33.913		
14,400.0	7,500.0	7,746.2	7,665.0	125.6	19.5	105.02	2,169.9	1,664.6	4,599.0	4,462.0	136.99	33.572		
14,500.0	7,500.0	7,748.8	7,667.6	127.3	19.5	102.78	2,170.0	1,664.7	4,698.4	4,558.0	140.39	33.466		
14,600.0	7,500.0	7,751.5	7,670.3	129.1	19.5	101.15	2,170.0	1,664.7	4,797.7	4,654.4	143.31	33.478		
14,683.9	7,500.0	7,753.7	7,672.5	130.5	19.5	100.09	2,170.1	1,664.7	4,880.8	4,735.3	145.52	33.541		
14,700.0	7,500.0	7,754.1	7,672.9	130.8	19.5	100.13	2,170.1	1,664.7	4,896.8	4,751.0	145.78	33.589		
14,756.3	7,500.0	7,755.6	7,674.4	131.8	19.5	100.25	2,170.1	1,664.7	4,952.5	4,805.8	146.71	33.757		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8320-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	49.0	49.0	0.0	0.1	75.06	753.9	2,824.7	2,923.6					
100.0	100.0	149.0	149.0	0.2	0.3	75.06	753.9	2,824.7	2,923.6	2,923.2	0.41	7,094.492		
200.0	200.0	249.0	249.0	0.3	0.4	75.06	753.9	2,824.7	2,923.6	2,922.8	0.76	3,840.991		
300.0	300.0	349.0	349.0	0.5	0.6	-16.75	753.9	2,824.7	2,922.8	2,921.7	1.11	2,632.655		
400.0	400.0	449.0	449.0	0.7	0.8	-16.77	753.9	2,824.7	2,920.3	2,918.8	1.46	2,001.153		
500.0	499.9	548.9	548.9	0.9	1.0	-16.81	753.9	2,824.7	2,916.1	2,914.3	1.81	1,612.342		
600.0	599.7	648.7	648.7	1.1	1.1	-16.86	753.9	2,824.7	2,910.2	2,908.1	2.16	1,348.383		
700.0	699.4	748.4	748.4	1.3	1.3	-16.93	753.9	2,824.7	2,902.7	2,900.2	2.51	1,157.092		
800.0	798.9	847.9	847.9	1.5	1.5	-17.01	753.9	2,824.7	2,893.6	2,890.7	2.86	1,011.805		
900.0	898.3	947.3	947.3	1.8	1.7	-17.11	753.9	2,824.7	2,882.7	2,879.5	3.21	897.473		
1,000.0	997.4	1,046.4	1,046.4	2.0	1.8	-17.22	753.9	2,824.7	2,870.2	2,866.7	3.57	804.963		
1,100.0	1,096.3	1,145.3	1,145.3	2.3	2.0	-17.35	753.9	2,824.7	2,856.1	2,852.2	3.92	728.405		
1,200.0	1,194.9	1,243.9	1,243.9	2.7	2.2	-17.50	753.9	2,824.7	2,840.4	2,836.1	4.28	663.857		
1,300.0	1,293.3	1,342.3	1,342.3	3.0	2.3	-17.66	753.9	2,824.7	2,823.0	2,818.3	4.64	608.574		
1,400.0	1,391.2	1,440.2	1,440.2	3.4	2.5	-17.84	753.9	2,824.7	2,803.9	2,798.9	5.00	560.582		
1,500.0	1,488.9	1,537.9	1,537.9	3.8	2.7	-18.04	753.9	2,824.7	2,783.3	2,777.9	5.37	518.428		
1,600.0	1,586.1	1,635.1	1,635.1	4.3	2.9	-18.27	753.9	2,824.7	2,761.1	2,755.3	5.74	481.018		
1,700.0	1,682.9	1,731.9	1,731.9	4.7	3.0	-18.51	753.9	2,824.7	2,737.2	2,731.1	6.12	447.512		
1,800.0	1,779.3	1,828.3	1,828.3	5.2	3.2	-18.77	753.9	2,824.7	2,711.8	2,705.3	6.50	417.255		
1,900.0	1,875.2	1,924.2	1,924.2	5.8	3.4	-19.06	753.9	2,824.7	2,684.8	2,677.9	6.89	389.731		
2,000.0	1,970.5	2,019.5	2,019.5	6.3	3.5	-19.37	753.9	2,824.7	2,656.3	2,649.0	7.29	364.523		
2,022.8	1,992.2	2,041.2	2,041.2	6.4	3.6	-19.44	753.9	2,824.7	2,649.6	2,642.2	7.38	359.094		
2,100.0	2,065.5	2,114.5	2,114.5	6.9	3.7	-19.61	753.9	2,824.7	2,626.7	2,619.0	7.70	341.101		
2,200.0	2,160.5	2,209.5	2,209.5	7.5	3.9	-19.84	753.9	2,824.7	2,597.1	2,589.0	8.12	319.764		
2,300.0	2,255.5	2,304.5	2,304.5	8.0	4.0	-20.08	753.9	2,824.7	2,567.5	2,559.0	8.55	300.368		
2,400.0	2,350.5	2,399.5	2,399.5	8.6	4.2	-20.32	753.9	2,824.7	2,538.0	2,529.0	8.98	282.668		
2,500.0	2,445.5	2,494.5	2,494.5	9.2	4.4	-20.57	753.9	2,824.7	2,508.5	2,499.1	9.41	266.459		
2,600.0	2,540.4	2,589.4	2,589.4	9.8	4.5	-20.82	753.9	2,824.7	2,479.0	2,469.2	9.85	251.565		
2,700.0	2,635.4	2,684.4	2,684.4	10.4	4.7	-21.08	753.9	2,824.7	2,449.7	2,439.4	10.30	237.837		
2,800.0	2,730.4	2,779.4	2,779.4	11.0	4.9	-21.34	753.9	2,824.7	2,420.3	2,409.6	10.75	225.147		
2,900.0	2,825.4	2,874.4	2,874.4	11.6	5.0	-21.61	753.9	2,824.7	2,391.0	2,379.8	11.21	213.384		
3,000.0	2,920.4	2,969.4	2,969.4	12.2	5.2	-21.89	753.9	2,824.7	2,361.8	2,350.1	11.67	202.454		
3,100.0	3,015.4	3,064.4	3,064.4	12.8	5.3	-22.18	753.9	2,824.7	2,332.6	2,320.4	12.13	192.272		
3,200.0	3,110.3	3,159.3	3,159.3	13.3	5.5	-22.47	753.9	2,824.7	2,303.4	2,290.8	12.60	182.768		
3,300.0	3,205.3	3,254.3	3,254.3	13.9	5.7	-22.77	753.9	2,824.7	2,274.3	2,261.2	13.08	173.878		
3,400.0	3,300.3	3,349.3	3,349.3	14.5	5.8	-23.07	753.9	2,824.7	2,245.3	2,231.7	13.56	165.545		
3,500.0	3,395.3	3,444.3	3,444.3	15.1	6.0	-23.39	753.9	2,824.7	2,216.3	2,202.3	14.05	157.721		
3,600.0	3,490.3	3,539.3	3,539.3	15.7	6.2	-23.71	753.9	2,824.7	2,187.4	2,172.9	14.55	150.362		
3,700.0	3,585.2	3,634.2	3,634.2	16.3	6.3	-24.04	753.9	2,824.7	2,158.6	2,143.6	15.05	143.429		
3,800.0	3,680.2	3,729.2	3,729.2	16.9	6.5	-24.38	753.9	2,824.7	2,129.8	2,114.3	15.56	136.889		
3,900.0	3,775.2	3,824.2	3,824.2	17.5	6.7	-24.73	753.9	2,824.7	2,101.1	2,085.1	16.07	130.710		
4,000.0	3,870.2	3,919.2	3,919.2	18.1	6.8	-25.09	753.9	2,824.7	2,072.5	2,055.9	16.60	124.864		
4,100.0	3,965.2	4,014.2	4,014.2	18.7	7.0	-25.46	753.9	2,824.7	2,044.0	2,026.9	17.13	119.326		
4,200.0	4,060.2	4,109.2	4,109.2	19.3	7.2	-25.84	753.9	2,824.7	2,015.5	1,997.9	17.67	114.075		
4,300.0	4,155.1	4,204.1	4,204.1	19.9	7.3	-26.22	753.9	2,824.7	1,987.1	1,968.9	18.22	109.090		
4,400.0	4,250.1	4,299.1	4,299.1	20.5	7.5	-26.62	753.9	2,824.7	1,958.9	1,940.1	18.77	104.352		
4,500.0	4,345.1	4,394.1	4,394.1	21.1	7.7	-27.04	753.9	2,824.7	1,930.7	1,911.3	19.34	99.846		
4,600.0	4,440.1	4,489.1	4,489.1	21.7	7.8	-27.46	753.9	2,824.7	1,902.6	1,882.7	19.91	95.555		
4,700.0	4,535.1	4,584.1	4,584.1	22.3	8.0	-27.90	753.9	2,824.7	1,874.6	1,854.1	20.49	91.466		
4,800.0	4,630.1	4,679.1	4,679.1	22.9	8.2	-28.35	753.9	2,824.7	1,846.7	1,825.6	21.09	87.567		
4,900.0	4,725.0	4,774.0	4,774.0	23.5	8.3	-28.81	753.9	2,824.7	1,818.9	1,797.2	21.69	83.846		
5,000.0	4,820.0	4,869.0	4,869.0	24.1	8.5	-29.28	753.9	2,824.7	1,791.2	1,768.9	22.31	80.293		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8320-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	4,915.0	4,964.0	4,964.0	24.6	8.7	-29.78	753.9	2,824.7	1,763.7	1,740.7	22.94	76.897		
5,200.0	5,010.0	5,059.0	5,059.0	25.2	8.8	-30.28	753.9	2,824.7	1,736.3	1,712.7	23.57	73.651		
5,300.0	5,105.0	5,154.0	5,154.0	25.8	9.0	-30.80	753.9	2,824.7	1,709.0	1,684.8	24.23	70.545		
5,400.0	5,199.9	5,248.9	5,248.9	26.4	9.2	-31.34	753.9	2,824.7	1,681.8	1,656.9	24.89	67.573		
5,500.0	5,294.9	5,343.9	5,343.9	27.0	9.3	-31.90	753.9	2,824.7	1,654.8	1,629.3	25.57	64.727		
5,600.0	5,389.9	5,438.9	5,438.9	27.6	9.5	-32.47	753.9	2,824.7	1,628.0	1,601.7	26.26	62.001		
5,700.0	5,484.9	5,533.9	5,533.9	28.2	9.7	-33.06	753.9	2,824.7	1,601.3	1,574.3	26.96	59.390		
5,800.0	5,579.9	5,628.9	5,628.9	28.8	9.8	-33.67	753.9	2,824.7	1,574.8	1,547.1	27.68	56.887		
5,900.0	5,674.9	5,723.9	5,723.9	29.4	10.0	-34.31	753.9	2,824.7	1,548.4	1,520.0	28.42	54.487		
6,000.0	5,769.8	5,818.8	5,818.8	30.0	10.2	-34.96	753.9	2,824.7	1,522.3	1,493.1	29.17	52.186		
6,100.0	5,864.8	5,913.8	5,913.8	30.6	10.3	-35.63	753.9	2,824.7	1,496.3	1,466.4	29.94	49.980		
6,200.0	5,959.8	6,008.8	6,008.8	31.2	10.5	-36.33	753.9	2,824.7	1,470.6	1,439.8	30.72	47.864		
6,300.0	6,054.8	6,103.8	6,103.8	31.8	10.7	-37.05	753.9	2,824.7	1,445.0	1,413.5	31.53	45.835		
6,400.0	6,149.8	6,198.8	6,198.8	32.4	10.8	-37.80	753.9	2,824.7	1,419.7	1,387.4	32.35	43.889		
6,500.0	6,244.7	6,293.7	6,293.7	33.0	11.0	-38.57	753.9	2,824.7	1,394.7	1,361.5	33.19	42.023		
6,600.0	6,339.7	6,388.7	6,388.7	33.6	11.2	-39.37	753.9	2,824.7	1,369.9	1,335.8	34.05	40.234		
6,700.0	6,434.7	6,483.7	6,483.7	34.2	11.3	-40.20	753.9	2,824.7	1,345.3	1,310.4	34.93	38.518		
6,800.0	6,529.7	6,578.7	6,578.7	34.8	11.5	-41.06	753.9	2,824.7	1,321.1	1,285.3	35.83	36.874		
6,900.0	6,624.7	6,673.7	6,673.7	35.4	11.6	-41.94	753.9	2,824.7	1,297.1	1,260.4	36.75	35.299		
7,000.0	6,719.7	6,768.7	6,768.7	36.0	11.8	-42.86	753.9	2,824.7	1,273.5	1,235.8	37.69	33.790		
7,100.0	6,814.6	6,863.6	6,863.6	36.6	12.0	-43.81	753.9	2,824.7	1,250.2	1,211.6	38.65	32.346		
7,200.0	6,909.6	6,958.6	6,958.6	37.2	12.1	-44.80	753.9	2,824.7	1,227.3	1,187.6	39.64	30.963		
7,225.4	6,933.7	6,982.7	6,982.7	37.3	12.2	-45.06	753.9	2,824.7	1,221.5	1,181.6	39.89	30.622		
7,250.0	6,957.1	7,006.1	7,006.1	37.5	12.2	-37.31	753.9	2,824.7	1,215.6	1,175.8	39.86	30.500		
7,300.0	7,004.6	7,053.6	7,053.6	37.8	12.3	-21.63	753.9	2,824.7	1,201.8	1,162.3	39.49	30.434		
7,350.0	7,051.7	7,100.7	7,100.7	38.0	12.4	-7.47	753.9	2,824.7	1,185.5	1,146.8	38.73	30.606		
7,400.0	7,098.0	7,147.0	7,147.0	38.3	12.5	4.45	753.9	2,824.7	1,166.8	1,129.2	37.60	31.029		
7,450.0	7,143.3	7,192.3	7,192.3	38.5	12.6	14.40	753.9	2,824.7	1,145.9	1,109.7	36.13	31.715		
7,500.0	7,187.1	7,236.1	7,236.1	38.8	12.6	22.94	753.9	2,824.7	1,122.8	1,088.5	34.37	32.669		
7,550.0	7,229.2	7,278.2	7,278.2	39.0	12.7	30.57	753.9	2,824.7	1,098.0	1,065.6	32.42	33.868		
7,600.0	7,269.2	7,318.2	7,318.2	39.2	12.8	37.69	753.9	2,824.7	1,071.7	1,041.2	30.43	35.220		
7,650.0	7,306.8	7,355.8	7,355.8	39.4	12.8	44.53	753.9	2,824.7	1,044.2	1,015.6	28.59	36.519		
7,700.0	7,341.7	7,390.7	7,390.7	39.6	12.9	51.19	753.9	2,824.7	1,015.9	988.7	27.15	37.416		
7,750.0	7,373.7	7,422.7	7,422.7	39.8	13.0	57.68	753.9	2,824.7	987.3	961.0	26.31	37.522		
7,800.0	7,402.5	7,451.5	7,451.5	39.9	13.0	63.92	753.9	2,824.7	958.9	932.7	26.14	36.683		
7,850.0	7,427.9	7,476.9	7,476.9	40.1	13.0	69.76	753.9	2,824.7	931.2	904.7	26.49	35.159		
7,900.0	7,449.7	7,498.7	7,498.7	40.2	13.1	75.07	753.9	2,824.7	904.9	877.8	27.08	33.420		
7,950.0	7,467.8	7,516.8	7,516.8	40.4	13.1	79.70	753.9	2,824.7	880.5	852.8	27.66	31.833		
8,000.0	7,481.9	7,530.9	7,530.9	40.6	13.1	83.56	753.9	2,824.7	858.6	830.5	28.09	30.563		
8,050.0	7,492.0	7,541.0	7,541.0	40.7	13.2	86.58	753.9	2,824.7	839.8	811.4	28.34	29.632		
8,100.0	7,498.1	7,547.1	7,547.1	40.9	13.2	88.74	753.9	2,824.7	824.6	796.1	28.44	28.993		
8,148.1	7,500.0	7,549.0	7,549.0	41.0	13.2	90.00	753.9	2,824.7	813.7	785.2	28.46	28.595		
8,200.0	7,500.0	7,549.0	7,549.0	41.2	13.2	90.00	753.9	2,824.7	805.7	776.8	28.92	27.857		
8,298.5	7,500.0	7,549.0	7,549.0	41.5	13.2	90.00	753.9	2,824.7	799.7	769.8	29.92	26.732 CC		
8,300.0	7,500.0	7,549.0	7,549.0	41.5	13.2	90.00	753.9	2,824.7	799.7	769.8	29.93	26.719 ES		
8,400.0	7,500.0	7,549.0	7,549.0	42.0	13.2	90.00	753.9	2,824.7	806.1	775.0	31.05	25.958		
8,500.0	7,500.0	7,549.0	7,549.0	42.5	13.2	90.00	753.9	2,824.7	824.7	792.4	32.27	25.553		
8,600.0	7,500.0	7,549.0	7,549.0	43.1	13.2	90.00	753.9	2,824.7	854.6	821.1	33.57	25.456 SF		
8,700.0	7,500.0	7,549.0	7,549.0	43.7	13.2	90.00	753.9	2,824.7	894.8	859.9	34.94	25.611		
8,800.0	7,500.0	7,549.0	7,549.0	44.4	13.2	90.00	753.9	2,824.7	943.9	907.6	36.36	25.963		
8,900.0	7,500.0	7,549.0	7,549.0	45.2	13.2	90.00	753.9	2,824.7	1,000.6	962.8	37.82	26.458		
9,000.0	7,500.0	7,549.0	7,549.0	46.0	13.2	90.00	753.9	2,824.7	1,063.8	1,024.4	39.32	27.055		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8320-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	7,549.0	7,549.0	46.9	13.2	90.00	753.9	2,824.7	1,132.2	1,091.3	40.85	27.716		
9,200.0	7,500.0	7,549.0	7,549.0	47.8	13.2	90.00	753.9	2,824.7	1,205.1	1,162.6	42.41	28.417		
9,300.0	7,500.0	7,549.0	7,549.0	48.8	13.2	90.00	753.9	2,824.7	1,281.6	1,237.6	43.98	29.137		
9,400.0	7,500.0	7,549.0	7,549.0	49.8	13.2	90.00	753.9	2,824.7	1,361.2	1,315.6	45.58	29.861		
9,500.0	7,500.0	7,549.0	7,549.0	50.8	13.2	90.00	753.9	2,824.7	1,443.3	1,396.1	47.20	30.580		
9,600.0	7,500.0	7,549.0	7,549.0	51.9	13.2	90.00	753.9	2,824.7	1,527.5	1,478.7	48.82	31.286		
9,700.0	7,500.0	7,549.0	7,549.0	53.1	13.2	90.00	753.9	2,824.7	1,613.6	1,563.1	50.46	31.974		
9,803.1	7,500.0	7,549.0	7,549.0	54.3	13.2	90.00	753.9	2,824.7	1,703.9	1,651.8	52.17	32.663		
9,900.0	7,500.0	7,549.0	7,549.0	55.4	13.2	90.00	753.9	2,824.7	1,790.0	1,736.3	53.78	33.287		
10,000.0	7,500.0	7,549.0	7,549.0	56.6	13.2	90.00	753.9	2,824.7	1,880.0	1,824.6	55.44	33.909		
10,100.0	7,500.0	7,549.0	7,549.0	57.9	13.2	90.00	753.9	2,824.7	1,971.0	1,913.9	57.12	34.506		
10,200.0	7,500.0	7,549.0	7,549.0	59.2	13.2	90.00	753.9	2,824.7	2,062.8	2,004.0	58.80	35.080		
10,300.0	7,500.0	7,549.0	7,549.0	60.5	13.2	90.00	753.9	2,824.7	2,155.3	2,094.8	60.49	35.631		
10,400.0	7,500.0	7,549.0	7,549.0	61.8	13.2	90.00	753.9	2,824.7	2,248.5	2,186.3	62.18	36.159		
10,500.0	7,500.0	7,549.0	7,549.0	63.1	13.2	90.00	753.9	2,824.7	2,342.2	2,278.3	63.88	36.665		
10,600.0	7,500.0	7,549.0	7,549.0	64.5	13.2	90.00	753.9	2,824.7	2,436.4	2,370.9	65.58	37.151		
10,703.1	7,500.0	7,549.0	7,549.0	65.9	13.2	90.00	753.9	2,824.7	2,534.1	2,466.8	67.34	37.630		
10,800.0	7,500.0	7,549.0	7,549.0	67.3	13.2	90.00	753.9	2,824.7	2,625.9	2,556.3	69.59	37.736		
10,900.0	7,500.0	7,549.0	7,549.0	68.8	13.2	90.00	753.9	2,824.7	2,720.6	2,648.7	71.89	37.842		
11,000.0	7,500.0	7,549.0	7,549.0	70.2	13.2	90.00	753.9	2,824.7	2,815.1	2,740.9	74.19	37.945		
11,100.0	7,500.0	7,549.0	7,549.0	71.7	13.2	90.00	753.9	2,824.7	2,909.3	2,832.9	76.47	38.046		
11,200.0	7,500.0	7,549.0	7,549.0	73.3	13.2	90.00	753.9	2,824.7	3,003.4	2,924.7	78.73	38.147		
11,253.1	7,500.0	7,549.0	7,549.0	74.1	13.2	90.00	753.9	2,824.7	3,053.3	2,973.4	79.93	38.200		
11,300.0	7,500.0	7,549.0	7,549.0	74.8	13.2	90.00	753.9	2,824.7	3,097.3	3,016.6	80.73	38.365		
11,400.0	7,500.0	7,549.0	7,549.0	76.3	13.2	90.00	753.9	2,824.7	3,191.6	3,109.1	82.45	38.709		
11,500.0	7,500.0	7,549.0	7,549.0	77.9	13.2	90.00	753.9	2,824.7	3,286.1	3,202.0	84.17	39.043		
11,600.0	7,500.0	7,549.0	7,549.0	79.5	13.2	90.00	753.9	2,824.7	3,381.0	3,295.1	85.89	39.366		
11,700.0	7,500.0	7,549.0	7,549.0	81.0	13.2	90.00	753.9	2,824.7	3,476.2	3,388.6	87.61	39.679		
11,800.0	7,500.0	7,549.0	7,549.0	82.6	13.2	90.00	753.9	2,824.7	3,571.6	3,482.3	89.33	39.982		
11,900.0	7,500.0	7,549.0	7,549.0	84.2	13.2	90.00	753.9	2,824.7	3,667.3	3,576.2	91.05	40.276		
12,000.0	7,500.0	7,549.0	7,549.0	85.8	13.2	90.00	753.9	2,824.7	3,763.2	3,670.4	92.78	40.560		
12,100.0	7,500.0	7,549.0	7,549.0	87.4	13.2	90.00	753.9	2,824.7	3,859.3	3,764.8	94.51	40.836		
12,200.0	7,500.0	7,549.0	7,549.0	89.0	13.2	90.00	753.9	2,824.7	3,955.6	3,859.4	96.23	41.104		
12,300.0	7,500.0	7,549.0	7,549.0	90.6	13.2	90.00	753.9	2,824.7	4,052.1	3,954.1	97.96	41.363		
12,400.0	7,500.0	7,549.0	7,549.0	92.2	13.2	90.00	753.9	2,824.7	4,148.7	4,049.0	99.69	41.615		
12,500.0	7,500.0	7,549.0	7,549.0	93.8	13.2	90.00	753.9	2,824.7	4,245.5	4,144.1	101.42	41.859		
12,600.0	7,500.0	7,549.0	7,549.0	95.5	13.2	90.00	753.9	2,824.7	4,342.5	4,239.3	103.16	42.096		
12,700.0	7,500.0	7,549.0	7,549.0	97.1	13.2	90.00	753.9	2,824.7	4,439.6	4,334.7	104.89	42.326		
12,800.0	7,500.0	7,549.0	7,549.0	98.7	13.2	90.00	753.9	2,824.7	4,536.8	4,430.2	106.62	42.550		
12,900.0	7,500.0	7,549.0	7,549.0	100.4	13.2	90.00	753.9	2,824.7	4,634.1	4,525.7	108.36	42.767		
13,000.0	7,500.0	7,549.0	7,549.0	102.0	13.2	90.00	753.9	2,824.7	4,731.5	4,621.4	110.09	42.978		
13,100.0	7,500.0	7,549.0	7,549.0	103.7	13.2	90.00	753.9	2,824.7	4,829.1	4,717.3	111.83	43.184		
13,200.0	7,500.0	7,549.0	7,549.0	105.3	13.2	90.00	753.9	2,824.7	4,926.7	4,813.2	113.56	43.383		
13,300.0	7,500.0	7,549.0	7,549.0	107.0	13.2	90.00	753.9	2,824.7	5,024.5	4,909.2	115.30	43.578		
13,400.0	7,500.0	7,549.0	7,549.0	108.6	13.2	90.00	753.9	2,824.7	5,122.3	5,005.2	117.04	43.766		
13,500.0	7,500.0	7,549.0	7,549.0	110.3	13.2	90.00	753.9	2,824.7	5,220.2	5,101.4	118.77	43.950		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL										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	
0.0	0.0	33.5	33.5	0.0	0.1	42.39	801.8	731.9	1,085.7				
100.0	100.0	123.4	123.4	0.2	0.2	42.43	802.0	733.0	1,086.6	1,086.2	0.37	2,944.689	
200.0	200.0	222.1	222.1	0.3	0.4	42.49	802.3	734.9	1,088.1	1,087.4	0.72	1,516.376	
300.0	300.0	333.3	333.3	0.5	0.6	-49.30	802.4	736.2	1,088.4	1,087.4	1.09	1,002.816	
400.0	400.0	436.2	436.2	0.7	0.8	-49.41	802.5	736.4	1,086.9	1,085.5	1.44	753.929	
500.0	499.9	535.6	535.6	0.9	0.9	-49.63	803.0	736.3	1,084.4	1,082.6	1.80	603.520	
600.0	599.7	639.2	639.2	1.1	1.1	-49.92	803.1	736.2	1,080.4	1,078.2	2.17	498.740	
700.0	699.4	743.1	743.1	1.3	1.3	-50.30	803.0	735.9	1,075.1	1,072.6	2.55	422.365	
800.0	798.9	846.2	846.2	1.5	1.5	-50.81	802.9	734.7	1,068.2	1,065.2	2.94	363.933	
900.0	898.3	945.4	945.3	1.8	1.7	-51.40	803.0	733.4	1,060.3	1,056.9	3.33	318.183	
1,000.0	997.4	1,046.6	1,046.6	2.0	1.8	-52.08	802.8	732.1	1,051.1	1,047.4	3.75	280.296	
1,100.0	1,096.3	1,146.4	1,146.4	2.3	2.0	-52.85	802.4	730.9	1,041.0	1,036.8	4.19	248.740	
1,200.0	1,194.9	1,246.5	1,246.4	2.7	2.2	-53.73	802.1	729.3	1,029.8	1,025.1	4.64	221.778	
1,300.0	1,293.3	1,341.6	1,341.5	3.0	2.3	-54.69	801.9	727.5	1,017.7	1,012.6	5.12	198.865	
1,400.0	1,391.2	1,434.7	1,434.5	3.4	2.5	-55.74	802.2	726.1	1,005.5	999.9	5.62	179.014	
1,500.0	1,488.9	1,532.2	1,532.0	3.8	2.7	-56.95	802.8	724.6	992.8	986.7	6.16	161.287	
1,600.0	1,586.1	1,629.4	1,629.3	4.3	2.8	-58.27	803.1	723.0	979.4	972.7	6.73	145.570	
1,700.0	1,682.9	1,720.9	1,720.7	4.7	3.0	-59.64	803.8	721.7	966.0	958.7	7.33	131.867	
1,800.0	1,779.3	1,816.1	1,816.0	5.2	3.2	-61.18	804.6	720.4	952.5	944.5	7.97	119.509	
1,900.0	1,875.2	1,911.2	1,911.1	5.8	3.3	-62.86	805.6	719.1	938.9	930.3	8.66	108.457	
2,000.0	1,970.5	2,000.0	1,999.8	6.3	3.5	-64.56	806.8	717.8	925.6	916.2	9.37	98.748	
2,022.8	1,992.2	2,022.4	2,022.2	6.4	3.5	-65.01	807.1	717.5	922.6	913.1	9.55	96.656	
2,100.0	2,065.5	2,090.8	2,090.6	6.9	3.7	-66.31	808.4	716.8	913.1	903.0	10.12	90.257	
2,200.0	2,160.5	2,181.6	2,181.4	7.5	3.8	-68.05	810.3	716.2	902.2	891.3	10.87	82.963	
2,300.0	2,255.5	2,275.2	2,275.0	8.0	4.0	-69.88	812.5	715.9	892.5	880.9	11.65	76.609	
2,400.0	2,350.5	2,373.5	2,373.2	8.6	4.2	-71.82	814.7	715.7	883.8	871.4	12.45	71.006	
2,500.0	2,445.5	2,473.7	2,473.4	9.2	4.3	-73.83	816.3	715.4	875.7	862.4	13.26	66.059	
2,600.0	2,540.4	2,570.8	2,570.5	9.8	4.5	-75.79	817.4	715.2	868.1	854.0	14.06	61.739	
2,700.0	2,635.4	2,667.5	2,667.1	10.4	4.7	-77.78	818.3	714.9	861.5	846.6	14.87	57.942	
2,800.0	2,730.4	2,762.6	2,762.2	11.0	4.8	-79.77	819.1	714.5	855.8	840.1	15.67	54.609	
2,900.0	2,825.4	2,858.1	2,857.7	11.6	5.0	-81.78	819.8	714.2	851.3	834.8	16.47	51.677	
3,000.0	2,920.4	2,952.3	2,952.0	12.2	5.2	-83.80	820.6	713.5	847.8	830.6	17.27	49.099	
3,100.0	3,015.4	3,046.8	3,046.5	12.8	5.3	-85.88	821.5	712.3	845.8	827.7	18.06	46.840	
3,200.0	3,110.3	3,143.0	3,142.7	13.3	5.5	-87.99	822.3	711.2	844.8	825.9	18.84	44.845	
3,239.3	3,147.7	3,180.6	3,180.3	13.6	5.6	-88.82	822.6	710.7	844.7	825.5	19.14	44.129 CC	
3,300.0	3,205.3	3,237.4	3,237.0	13.9	5.7	-90.09	823.0	709.8	844.9	825.3	19.60	43.103 ES	
3,400.0	3,300.3	3,329.5	3,329.1	14.5	5.8	-92.13	823.9	708.3	846.5	826.2	20.35	41.603	
3,500.0	3,395.3	3,421.7	3,421.3	15.1	6.0	-94.16	825.0	706.9	849.7	828.6	21.08	40.316	
3,600.0	3,490.3	3,515.9	3,515.5	15.7	6.2	-96.19	826.3	706.1	854.1	832.3	21.79	39.203	
3,700.0	3,585.2	3,605.1	3,604.7	16.3	6.3	-98.05	827.9	705.8	860.1	837.7	22.48	38.270	
3,800.0	3,680.2	3,695.0	3,694.6	16.9	6.5	-99.88	830.1	705.8	867.8	844.7	23.15	37.495	
3,900.0	3,775.2	3,791.4	3,790.9	17.5	6.7	-101.81	832.7	705.7	876.8	853.0	23.80	36.838	
4,000.0	3,870.2	3,897.3	3,896.8	18.1	6.8	-103.93	834.7	705.1	886.2	861.7	24.44	36.263	
4,100.0	3,965.2	3,993.4	3,992.9	18.7	7.0	-105.83	835.7	704.4	895.8	870.8	25.04	35.772	
4,200.0	4,060.2	4,093.7	4,093.2	19.3	7.2	-107.83	836.2	703.0	906.2	880.6	25.62	35.369	
4,300.0	4,155.1	4,182.9	4,182.4	19.9	7.3	-109.60	836.4	701.2	917.6	891.4	26.17	35.058	
4,400.0	4,250.1	4,283.0	4,282.5	20.5	7.5	-111.54	836.7	699.2	930.1	903.4	26.70	34.838	
4,500.0	4,345.1	4,378.8	4,378.2	21.1	7.7	-113.33	836.7	697.8	943.1	915.9	27.20	34.670	
4,600.0	4,440.1	4,465.7	4,465.1	21.7	7.8	-114.91	836.8	696.3	957.3	929.7	27.69	34.572	
4,700.0	4,535.1	4,551.0	4,550.3	22.3	8.0	-116.45	837.6	694.2	973.4	945.2	28.16	34.569 SF	
4,800.0	4,630.1	4,645.9	4,645.2	22.9	8.2	-118.09	839.1	691.8	990.9	962.3	28.60	34.649	
4,900.0	4,725.0	4,746.5	4,745.8	23.5	8.3	-119.76	840.2	689.9	1,008.6	979.6	29.02	34.759	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL												Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.0	4,820.0	4,848.3	4,847.5	24.1	8.5	-121.41	840.8	687.8	1,026.7	997.3	29.41	34.910	
5,100.0	4,915.0	4,950.7	4,949.9	24.6	8.7	-122.99	840.7	686.7	1,044.4	1,014.7	29.79	35.062	
5,200.0	5,010.0	5,041.4	5,040.7	25.2	8.9	-124.36	840.3	685.5	1,062.8	1,032.7	30.16	35.235	
5,300.0	5,105.0	5,129.8	5,129.1	25.8	9.0	-125.65	840.5	684.1	1,082.4	1,051.9	30.53	35.454	
5,400.0	5,199.9	5,220.6	5,219.9	26.4	9.2	-126.93	840.9	682.5	1,103.1	1,072.2	30.88	35.722	
5,500.0	5,294.9	5,316.5	5,315.8	27.0	9.3	-128.26	841.3	680.4	1,124.4	1,093.2	31.20	36.033	
5,600.0	5,389.9	5,415.3	5,414.5	27.6	9.5	-129.53	841.9	679.1	1,146.0	1,114.5	31.52	36.355	
5,700.0	5,484.9	5,512.4	5,511.6	28.2	9.7	-130.74	842.4	678.0	1,167.8	1,136.0	31.84	36.683	
5,800.0	5,579.9	5,603.8	5,603.0	28.8	9.9	-131.83	842.8	677.0	1,190.2	1,158.0	32.15	37.022	
5,900.0	5,674.9	5,692.6	5,691.8	29.4	10.0	-132.87	843.3	675.6	1,213.3	1,180.9	32.45	37.387	
6,000.0	5,769.8	5,786.7	5,785.9	30.0	10.2	-133.95	843.8	673.7	1,237.2	1,204.4	32.74	37.791	
6,100.0	5,864.8	5,880.1	5,879.2	30.6	10.3	-134.99	844.2	671.6	1,261.4	1,228.4	33.01	38.211	
6,200.0	5,959.8	5,976.4	5,975.5	31.2	10.5	-136.02	844.7	669.7	1,286.1	1,252.9	33.28	38.645	
6,300.0	6,054.8	6,071.1	6,070.2	31.8	10.7	-136.99	845.0	667.8	1,311.1	1,277.5	33.55	39.084	
6,400.0	6,149.8	6,165.1	6,164.2	32.4	10.9	-137.96	844.9	665.4	1,336.4	1,302.6	33.80	39.542	
6,500.0	6,244.7	6,260.3	6,259.4	33.0	11.0	-138.90	844.8	663.1	1,362.0	1,328.0	34.04	40.012	
6,600.0	6,339.7	6,357.5	6,356.5	33.6	11.2	-139.81	844.7	660.9	1,387.9	1,353.6	34.28	40.485	
6,700.0	6,434.7	6,446.8	6,445.8	34.2	11.4	-140.61	844.9	659.3	1,414.0	1,379.5	34.54	40.940	
6,800.0	6,529.7	6,540.9	6,539.9	34.8	11.5	-141.40	845.9	657.4	1,440.9	1,406.1	34.79	41.415	
6,900.0	6,624.7	6,643.3	6,642.2	35.4	11.7	-142.22	846.6	656.1	1,467.4	1,432.4	35.04	41.883	
7,000.0	6,719.7	6,737.7	6,736.6	36.0	11.9	-142.95	847.3	654.8	1,494.2	1,458.9	35.29	42.343	
7,100.0	6,814.6	6,835.2	6,834.1	36.6	12.0	-143.69	847.5	653.6	1,520.9	1,485.3	35.53	42.804	
7,200.0	6,909.6	6,920.1	6,919.0	37.2	12.2	-144.32	847.7	652.0	1,548.1	1,512.3	35.78	43.263	
7,225.4	6,933.7	6,941.9	6,940.8	37.3	12.2	-144.48	847.7	651.6	1,555.2	1,519.3	35.85	43.383	
7,250.0	6,957.1	6,963.1	6,962.0	37.5	12.3	-136.65	847.8	651.1	1,561.7	1,525.5	36.17	43.173	
7,300.0	7,004.6	7,008.7	7,007.7	37.8	12.3	-121.34	848.0	650.0	1,573.0	1,536.3	36.63	42.947	
7,350.0	7,051.7	7,069.7	7,068.6	38.0	12.5	-108.47	848.2	648.8	1,581.2	1,544.5	36.74	43.041	
7,400.0	7,098.0	7,119.4	7,118.3	38.3	12.5	-98.47	848.0	648.0	1,586.3	1,549.7	36.60	43.341	
7,450.0	7,143.3	7,157.6	7,156.5	38.5	12.6	-91.04	847.9	647.3	1,588.9	1,552.6	36.26	43.816	
7,500.0	7,187.1	7,200.0	7,198.9	38.8	12.7	-85.87	847.7	646.3	1,589.1	1,553.4	35.69	44.529	
7,550.0	7,229.2	7,233.3	7,232.2	39.0	12.7	-82.21	847.6	645.4	1,586.8	1,551.9	34.98	45.371	
7,600.0	7,269.2	7,270.7	7,269.5	39.2	12.8	-79.91	847.3	644.2	1,582.4	1,548.3	34.10	46.399	
7,650.0	7,306.8	7,306.9	7,305.7	39.4	12.9	-78.61	846.9	643.0	1,575.9	1,542.7	33.15	47.536	
7,700.0	7,341.7	7,346.5	7,345.2	39.6	12.9	-78.23	846.1	641.5	1,567.4	1,535.2	32.15	48.756	
7,750.0	7,373.7	7,381.2	7,379.9	39.8	13.0	-78.43	844.8	640.0	1,557.1	1,525.9	31.19	49.915	
7,800.0	7,402.5	7,525.9	7,524.1	39.9	13.2	-82.89	833.8	637.9	1,544.0	1,514.1	29.93	51.579	
7,850.0	7,427.9	7,549.3	7,547.5	40.1	13.3	-83.99	831.8	638.4	1,529.4	1,500.1	29.36	52.093	
7,900.0	7,449.7	7,569.8	7,567.9	40.2	13.3	-85.34	830.3	638.9	1,514.2	1,485.2	28.94	52.319	
7,950.0	7,467.8	7,586.9	7,584.9	40.4	13.3	-86.86	829.2	639.5	1,498.5	1,469.8	28.68	52.257	
8,000.0	7,481.9	7,600.0	7,598.0	40.6	13.4	-88.46	828.5	640.0	1,482.6	1,454.0	28.54	51.944	
8,050.0	7,492.0	7,600.0	7,598.0	40.7	13.4	-89.71	828.5	640.0	1,466.7	1,438.2	28.50	51.459	
8,100.0	7,498.1	7,600.0	7,598.0	40.9	13.4	-91.09	828.5	640.0	1,451.1	1,422.5	28.54	50.847	
8,148.1	7,500.0	7,600.0	7,598.0	41.0	13.4	-92.51	828.5	640.0	1,436.3	1,407.7	28.63	50.168	
8,200.0	7,500.0	7,600.0	7,598.0	41.2	13.4	-92.51	828.5	640.0	1,421.5	1,392.4	29.10	48.858	
8,300.0	7,500.0	7,600.0	7,598.0	41.5	13.4	-92.51	828.5	640.0	1,398.0	1,367.9	30.10	46.451	
8,400.0	7,500.0	7,593.9	7,591.9	42.0	13.4	-92.26	828.8	639.7	1,381.2	1,350.0	31.20	44.274	
8,500.0	7,500.0	7,584.0	7,582.1	42.5	13.3	-91.84	829.4	639.4	1,371.6	1,339.2	32.39	42.347	
8,583.8	7,500.0	7,574.5	7,572.6	43.0	13.3	-91.45	830.0	639.1	1,369.0	1,335.6	33.45	40.925	
8,600.0	7,500.0	7,572.5	7,570.6	43.1	13.3	-91.36	830.1	639.0	1,369.1	1,335.5	33.66	40.678	
8,700.0	7,500.0	7,558.8	7,556.9	43.7	13.3	-90.79	831.1	638.6	1,373.9	1,338.9	34.99	39.270	
8,800.0	7,500.0	7,542.3	7,540.4	44.4	13.3	-90.10	832.4	638.2	1,385.8	1,349.5	36.36	38.113	
8,900.0	7,500.0	7,521.9	7,520.1	45.2	13.2	-89.25	834.2	637.8	1,404.7	1,366.9	37.77	37.193	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,497.4	7,495.8	46.0	13.2	-88.23	836.6	637.5	1,430.1	1,390.9	39.19	36.489		
9,100.0	7,500.0	7,480.2	7,478.7	46.9	13.2	-87.52	838.2	637.4	1,461.9	1,421.2	40.67	35.946		
9,200.0	7,500.0	7,466.1	7,464.6	47.8	13.1	-86.93	839.5	637.4	1,499.5	1,457.3	42.18	35.553		
9,300.0	7,500.0	7,454.4	7,452.9	48.8	13.1	-86.44	840.5	637.6	1,542.6	1,498.9	43.71	35.292		
9,400.0	7,500.0	7,444.4	7,443.0	49.8	13.1	-86.03	841.2	637.7	1,590.8	1,545.6	45.27	35.143		
9,500.0	7,500.0	7,435.8	7,434.4	50.8	13.1	-85.67	841.8	637.9	1,643.7	1,596.8	46.84	35.089		
9,600.0	7,500.0	7,428.4	7,427.0	51.9	13.1	-85.36	842.3	638.1	1,700.7	1,652.3	48.44	35.113		
9,700.0	7,500.0	7,421.9	7,420.5	53.1	13.1	-85.09	842.7	638.3	1,761.6	1,711.5	50.04	35.202		
9,803.1	7,500.0	7,415.9	7,414.6	54.3	13.1	-84.85	843.1	638.5	1,827.9	1,776.2	51.71	35.348		
9,900.0	7,500.0	7,411.0	7,409.7	55.4	13.1	-84.64	843.4	638.7	1,893.3	1,840.0	53.29	35.526		
10,000.0	7,500.0	7,406.4	7,405.1	56.6	13.1	-84.45	843.6	638.9	1,963.4	1,908.5	54.93	35.743		
10,100.0	7,500.0	7,400.0	7,398.7	57.9	13.0	-84.18	844.0	639.2	2,036.0	1,979.5	56.57	35.994		
10,200.0	7,500.0	7,400.0	7,398.7	59.2	13.0	-84.18	844.0	639.2	2,110.9	2,052.7	58.24	36.244		
10,300.0	7,500.0	7,400.0	7,398.7	60.5	13.0	-84.18	844.0	639.2	2,187.8	2,127.9	59.92	36.509		
10,400.0	7,500.0	7,400.0	7,398.7	61.8	13.0	-84.18	844.0	639.2	2,266.5	2,204.8	61.61	36.787		
10,500.0	7,500.0	7,400.0	7,398.7	63.1	13.0	-84.18	844.0	639.2	2,346.8	2,283.5	63.30	37.073		
10,600.0	7,500.0	7,400.0	7,398.7	64.5	13.0	-84.18	844.0	639.2	2,428.5	2,363.5	65.00	37.364		
10,703.1	7,500.0	7,400.0	7,398.7	65.9	13.0	-84.18	844.0	639.2	2,514.2	2,447.5	66.75	37.667		
10,800.0	7,500.0	7,400.0	7,398.7	67.3	13.0	-84.02	844.0	639.2	2,596.3	2,527.4	68.97	37.647		
10,900.0	7,500.0	7,400.0	7,398.7	68.8	13.0	-83.84	844.0	639.2	2,683.0	2,611.7	71.24	37.661		
11,000.0	7,500.0	7,400.0	7,398.7	70.2	13.0	-83.63	844.0	639.2	2,771.3	2,697.8	73.49	37.708		
11,100.0	7,500.0	7,400.0	7,398.7	71.7	13.0	-83.40	844.0	639.2	2,861.2	2,785.4	75.73	37.781		
11,200.0	7,500.0	7,400.0	7,398.7	73.3	13.0	-83.14	844.0	639.2	2,952.4	2,874.4	77.94	37.879		
11,253.1	7,500.0	7,400.0	7,398.7	74.1	13.0	-82.99	844.0	639.2	3,001.4	2,922.3	79.11	37.940		
11,300.0	7,500.0	7,400.0	7,398.7	74.8	13.0	-82.99	844.0	639.2	3,044.8	2,964.9	79.91	38.104		
11,400.0	7,500.0	7,400.0	7,398.7	76.3	13.0	-82.99	844.0	639.2	3,137.7	3,056.1	81.61	38.447		
11,500.0	7,500.0	7,400.0	7,398.7	77.9	13.0	-82.99	844.0	639.2	3,231.1	3,147.7	83.32	38.780		
11,600.0	7,500.0	7,370.9	7,369.7	79.5	13.0	-81.54	845.2	640.5	3,324.5	3,239.8	84.70	39.249		
11,700.0	7,500.0	7,369.3	7,368.1	81.0	13.0	-81.46	845.3	640.5	3,418.6	3,332.2	86.39	39.572		
11,800.0	7,500.0	7,367.7	7,366.5	82.6	13.0	-81.38	845.4	640.6	3,513.0	3,424.9	88.07	39.887		
11,900.0	7,500.0	7,366.2	7,365.0	84.2	13.0	-81.30	845.4	640.7	3,607.7	3,517.9	89.76	40.192		
12,000.0	7,500.0	7,364.8	7,363.5	85.8	13.0	-81.23	845.5	640.7	3,702.6	3,611.2	91.45	40.489		
12,100.0	7,500.0	7,363.3	7,362.1	87.4	13.0	-81.16	845.5	640.8	3,797.9	3,704.7	93.14	40.777		
12,200.0	7,500.0	7,361.9	7,360.7	89.0	13.0	-81.09	845.6	640.8	3,893.3	3,798.5	94.83	41.058		
12,300.0	7,500.0	7,360.6	7,359.4	90.6	13.0	-81.02	845.6	640.9	3,989.0	3,892.5	96.52	41.330		
12,400.0	7,500.0	7,359.3	7,358.1	92.2	13.0	-80.96	845.7	641.0	4,084.9	3,986.7	98.21	41.594		
12,500.0	7,500.0	7,358.0	7,356.8	93.8	13.0	-80.90	845.7	641.0	4,181.0	4,081.1	99.90	41.852		
12,600.0	7,500.0	7,356.8	7,355.6	95.5	13.0	-80.84	845.7	641.1	4,277.2	4,175.7	101.59	42.102		
12,700.0	7,500.0	7,355.6	7,354.4	97.1	13.0	-80.78	845.8	641.1	4,373.7	4,270.4	103.29	42.345		
12,800.0	7,500.0	7,354.5	7,353.2	98.7	13.0	-80.72	845.8	641.2	4,470.3	4,365.3	104.98	42.582		
12,900.0	7,500.0	7,353.3	7,352.1	100.4	13.0	-80.66	845.9	641.2	4,567.0	4,460.3	106.67	42.812		
13,000.0	7,500.0	7,352.2	7,351.0	102.0	13.0	-80.61	845.9	641.2	4,663.9	4,555.5	108.37	43.037		
13,100.0	7,500.0	7,351.2	7,349.9	103.7	13.0	-80.56	845.9	641.3	4,760.9	4,650.8	110.07	43.255		
13,200.0	7,500.0	7,350.1	7,348.9	105.3	13.0	-80.50	846.0	641.3	4,858.0	4,746.2	111.76	43.467		
13,300.0	7,500.0	7,349.1	7,347.9	107.0	12.9	-80.45	846.0	641.4	4,955.2	4,841.7	113.46	43.674		
13,400.0	7,500.0	7,348.1	7,346.9	108.6	12.9	-80.41	846.0	641.4	5,052.5	4,937.4	115.15	43.876		
13,500.0	7,500.0	7,347.2	7,345.9	110.3	12.9	-80.36	846.0	641.4	5,150.0	5,033.1	116.85	44.073		
13,600.0	7,500.0	7,346.2	7,345.0	111.9	12.9	-80.31	846.1	641.5	5,247.5	5,129.0	118.55	44.264		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.70	0.4	-70.0	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.70	0.4	-70.0	70.0	69.7	0.30	230.404		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.4	-70.0	70.0	69.3	0.65	107.193 CC, ES		
300.0	300.0	298.9	298.9	0.5	0.5	178.17	-0.1	-70.7	71.6	70.6	1.00	71.584		
400.0	400.0	397.7	397.7	0.7	0.7	177.27	-1.3	-72.9	76.5	75.1	1.35	56.728		
500.0	499.9	496.1	496.0	0.9	0.9	176.01	-3.5	-76.6	84.6	82.9	1.70	49.880		
600.0	599.7	594.1	593.8	1.1	1.1	174.59	-6.4	-81.7	96.0	94.0	2.04	46.966		
700.0	699.4	693.0	692.5	1.3	1.3	173.75	-9.1	-87.7	110.0	107.6	2.39	46.027		
800.0	798.9	791.8	791.1	1.5	1.5	173.77	-10.5	-93.8	125.7	123.0	2.74	45.966		
900.0	898.3	890.3	889.4	1.8	1.7	173.90	-11.8	-99.8	143.1	140.0	3.08	46.494		
1,000.0	997.4	988.5	987.3	2.0	1.9	174.05	-13.2	-105.8	162.2	158.8	3.42	47.436		
1,100.0	1,096.3	1,086.3	1,085.0	2.3	2.0	174.22	-14.5	-111.8	183.0	179.3	3.76	48.680		
1,200.0	1,194.9	1,183.7	1,182.2	2.7	2.2	174.41	-15.8	-117.7	205.6	201.5	4.10	50.155		
1,300.0	1,293.3	1,280.7	1,279.0	3.0	2.4	174.59	-17.1	-123.7	229.8	225.3	4.43	51.810		
1,400.0	1,391.2	1,377.3	1,375.4	3.4	2.6	174.77	-18.4	-129.6	255.6	250.9	4.77	53.610		
1,500.0	1,488.9	1,473.4	1,471.4	3.8	2.8	174.94	-19.7	-135.5	283.2	278.1	5.10	55.529		
1,600.0	1,586.1	1,569.1	1,566.8	4.3	3.0	175.11	-21.0	-141.3	312.4	307.0	5.43	57.548		
1,700.0	1,682.9	1,664.2	1,661.7	4.7	3.2	175.26	-22.3	-147.2	343.3	337.6	5.76	59.653		
1,800.0	1,779.3	1,758.7	1,756.1	5.2	3.4	175.41	-23.5	-152.9	375.9	369.8	6.08	61.833		
1,900.0	1,875.2	1,852.7	1,849.9	5.8	3.6	175.55	-24.8	-158.7	410.1	403.7	6.40	64.079		
2,000.0	1,970.5	1,946.0	1,943.0	6.3	3.8	175.68	-26.1	-164.4	445.9	439.2	6.72	66.385		
2,022.8	1,992.2	1,967.2	1,964.1	6.4	3.9	175.71	-26.4	-165.7	454.3	447.5	6.79	66.918		
2,100.0	2,065.5	2,038.9	2,035.8	6.9	4.0	175.83	-27.3	-170.1	482.8	475.8	7.05	68.511		
2,200.0	2,160.5	2,131.8	2,128.5	7.5	4.2	175.95	-28.6	-175.8	519.8	512.5	7.38	70.409		
2,300.0	2,255.5	2,224.7	2,221.2	8.0	4.4	176.06	-29.8	-181.5	556.9	549.1	7.72	72.143		
2,400.0	2,350.5	2,317.6	2,313.9	8.6	4.6	176.16	-31.1	-187.2	593.9	585.8	8.05	73.734		
2,500.0	2,445.5	2,410.5	2,406.6	9.2	4.8	176.25	-32.3	-192.8	630.9	622.5	8.39	75.200		
2,600.0	2,540.4	2,503.4	2,499.3	9.8	5.0	176.32	-33.6	-198.5	667.9	659.2	8.72	76.553		
2,700.0	2,635.4	2,596.3	2,592.0	10.4	5.1	176.39	-34.8	-204.2	704.9	695.8	9.06	77.808		
2,800.0	2,730.4	2,689.2	2,684.7	11.0	5.3	176.45	-36.1	-209.9	741.9	732.5	9.39	78.973		
2,900.0	2,825.4	2,782.1	2,777.5	11.6	5.5	176.51	-37.3	-215.6	778.9	769.2	9.73	80.059		
3,000.0	2,920.4	2,875.0	2,870.2	12.2	5.7	176.56	-38.6	-221.3	815.9	805.9	10.06	81.074		
3,100.0	3,015.4	2,967.9	2,962.9	12.8	5.9	176.60	-39.8	-227.0	853.0	842.6	10.40	82.023		
3,200.0	3,110.3	3,060.8	3,055.6	13.3	6.1	176.65	-41.1	-232.6	890.0	879.2	10.73	82.914		
3,300.0	3,205.3	3,153.7	3,148.3	13.9	6.3	176.68	-42.4	-238.3	927.0	915.9	11.07	83.751		
3,400.0	3,300.3	3,246.6	3,241.0	14.5	6.5	176.72	-43.6	-244.0	964.0	952.6	11.40	84.539		
3,500.0	3,395.3	3,339.5	3,333.7	15.1	6.7	176.75	-44.9	-249.7	1,001.0	989.3	11.74	85.283		
3,600.0	3,490.3	3,432.4	3,426.4	15.7	6.9	176.78	-46.1	-255.4	1,038.0	1,026.0	12.07	85.986		
3,700.0	3,585.2	3,525.3	3,519.2	16.3	7.1	176.81	-47.4	-261.1	1,075.1	1,062.7	12.41	86.651		
3,800.0	3,680.2	3,618.1	3,611.9	16.9	7.2	176.84	-48.6	-266.8	1,112.1	1,099.3	12.74	87.281		
3,900.0	3,775.2	3,711.0	3,704.6	17.5	7.4	176.86	-49.9	-272.5	1,149.1	1,136.0	13.08	87.880		
4,000.0	3,870.2	3,803.9	3,797.3	18.1	7.6	176.89	-51.1	-278.1	1,186.1	1,172.7	13.41	88.448		
4,100.0	3,965.2	3,896.8	3,890.0	18.7	7.8	176.91	-52.4	-283.8	1,223.1	1,209.4	13.74	88.989		
4,200.0	4,060.2	3,989.7	3,982.7	19.3	8.0	176.93	-53.6	-289.5	1,260.2	1,246.1	14.08	89.505		
4,300.0	4,155.1	4,082.6	4,075.4	19.9	8.2	176.95	-54.9	-295.2	1,297.2	1,282.8	14.41	89.997		
4,400.0	4,250.1	4,175.5	4,168.1	20.5	8.4	176.97	-56.1	-300.9	1,334.2	1,319.4	14.75	90.466		
4,500.0	4,345.1	4,268.4	4,260.8	21.1	8.6	176.99	-57.4	-306.6	1,371.2	1,356.1	15.08	90.915		
4,600.0	4,440.1	4,361.3	4,353.6	21.7	8.8	177.00	-58.6	-312.3	1,408.2	1,392.8	15.42	91.344		
4,700.0	4,535.1	4,454.2	4,446.3	22.3	9.0	177.02	-59.9	-317.9	1,445.3	1,429.5	15.75	91.756		
4,800.0	4,630.1	4,547.1	4,539.0	22.9	9.2	177.03	-61.1	-323.6	1,482.3	1,466.2	16.09	92.150		
4,900.0	4,725.0	4,640.0	4,631.7	23.5	9.4	177.05	-62.4	-329.3	1,519.3	1,502.9	16.42	92.528		
5,000.0	4,820.0	4,732.9	4,724.4	24.1	9.5	177.06	-63.6	-335.0	1,556.3	1,539.6	16.75	92.892		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	4,915.0	4,825.8	4,817.1	24.6	9.7	177.07	-64.9	-340.7	1,593.3	1,576.2	17.09	93.241	
5,200.0	5,010.0	4,918.7	4,909.8	25.2	9.9	177.09	-66.1	-346.4	1,630.4	1,612.9	17.42	93.577	
5,300.0	5,105.0	5,011.6	5,002.5	25.8	10.1	177.10	-67.4	-352.1	1,667.4	1,649.6	17.76	93.900	
5,400.0	5,199.9	5,104.5	5,095.3	26.4	10.3	177.11	-68.6	-357.8	1,704.4	1,686.3	18.09	94.211	
5,500.0	5,294.9	5,197.4	5,188.0	27.0	10.5	177.12	-69.9	-363.4	1,741.4	1,723.0	18.43	94.511	
5,600.0	5,389.9	5,290.3	5,280.7	27.6	10.7	177.13	-71.2	-369.1	1,778.4	1,759.7	18.76	94.800	
5,700.0	5,484.9	5,383.1	5,373.4	28.2	10.9	177.14	-72.4	-374.8	1,815.5	1,796.4	19.09	95.080	
5,800.0	5,579.9	5,476.0	5,466.1	28.8	11.1	177.15	-73.7	-380.5	1,852.5	1,833.0	19.43	95.350	
5,900.0	5,674.9	5,568.9	5,558.8	29.4	11.3	177.16	-74.9	-386.2	1,889.5	1,869.7	19.76	95.610	
6,000.0	5,769.8	5,661.8	5,651.5	30.0	11.5	177.17	-76.2	-391.9	1,926.5	1,906.4	20.10	95.862	
6,100.0	5,864.8	5,754.7	5,744.2	30.6	11.7	177.18	-77.4	-397.6	1,963.5	1,943.1	20.43	96.106	
6,200.0	5,959.8	5,847.6	5,837.0	31.2	11.8	177.18	-78.7	-403.2	2,000.6	1,979.8	20.77	96.342	
6,300.0	6,054.8	5,940.5	5,929.7	31.8	12.0	177.19	-79.9	-408.9	2,037.6	2,016.5	21.10	96.571	
6,400.0	6,149.8	6,033.4	6,022.4	32.4	12.2	177.20	-81.2	-414.6	2,074.6	2,053.2	21.43	96.792	
6,500.0	6,244.7	6,126.3	6,115.1	33.0	12.4	177.21	-82.4	-420.3	2,111.6	2,089.8	21.77	97.007	
6,600.0	6,339.7	6,219.2	6,207.8	33.6	12.6	177.21	-83.7	-426.0	2,148.6	2,126.5	22.10	97.215	
6,700.0	6,434.7	6,312.1	6,300.5	34.2	12.8	177.22	-84.9	-431.7	2,185.7	2,163.2	22.44	97.417	
6,800.0	6,529.7	6,405.0	6,393.2	34.8	13.0	177.23	-86.2	-437.4	2,222.7	2,199.9	22.77	97.613	
6,900.0	6,624.7	6,497.9	6,485.9	35.4	13.2	177.23	-87.4	-443.1	2,259.7	2,236.6	23.10	97.803	
7,000.0	6,719.7	6,590.8	6,578.6	36.0	13.4	177.24	-88.7	-448.7	2,296.7	2,273.3	23.44	97.988	
7,100.0	6,814.6	6,683.7	6,671.4	36.6	13.6	177.25	-89.9	-454.4	2,333.7	2,310.0	23.77	98.168	
7,200.0	6,909.6	6,776.6	6,764.1	37.2	13.8	177.25	-91.2	-460.1	2,370.8	2,346.6	24.11	98.343	
7,225.4	6,933.7	6,800.1	6,787.6	37.3	13.8	177.25	-91.5	-461.6	2,380.1	2,356.0	24.19	98.387	
7,250.0	6,957.1	6,823.0	6,810.4	37.5	13.9	-174.28	-91.8	-463.0	2,389.2	2,365.0	24.24	98.581	
7,300.0	7,004.6	6,869.4	6,856.7	37.8	13.9	-157.55	-92.4	-465.8	2,407.4	2,382.9	24.43	98.555	
7,350.0	7,051.7	6,915.4	6,902.6	38.0	14.0	-142.93	-93.1	-468.6	2,425.0	2,400.3	24.73	98.047	
7,400.0	7,098.0	6,960.6	6,947.8	38.3	14.1	-131.14	-93.7	-471.4	2,442.1	2,417.0	25.12	97.214	
7,450.0	7,143.3	7,004.8	6,991.8	38.5	14.2	-121.97	-94.3	-474.1	2,458.6	2,433.1	25.55	96.218	
7,500.0	7,187.1	7,047.5	7,034.5	38.8	14.3	-114.88	-94.8	-476.7	2,474.4	2,448.4	25.99	95.194	
7,550.0	7,229.2	7,088.5	7,075.3	39.0	14.4	-109.34	-95.4	-479.2	2,489.5	2,463.1	26.42	94.238	
7,600.0	7,269.2	7,127.3	7,114.2	39.2	14.5	-104.97	-95.9	-481.6	2,503.9	2,477.1	26.81	93.409	
7,650.0	7,306.8	7,163.9	7,150.6	39.4	14.6	-101.46	-96.4	-483.8	2,517.6	2,490.4	27.15	92.736	
7,700.0	7,341.7	7,212.4	7,199.1	39.6	14.6	-98.84	-96.8	-486.8	2,530.5	2,503.1	27.41	92.328	
7,750.0	7,373.7	7,272.2	7,258.3	39.8	14.8	-96.92	-97.4	-490.4	2,542.4	2,514.8	27.59	92.145	
7,800.0	7,402.5	7,340.7	7,325.1	39.9	14.9	-95.57	-74.6	-494.5	2,553.2	2,525.5	27.72	92.093	
7,850.0	7,427.9	7,421.1	7,400.4	40.1	15.0	-94.73	-47.2	-499.1	2,562.6	2,534.8	27.84	92.058	
7,900.0	7,449.7	7,517.0	7,484.3	40.2	15.2	-94.37	-1.1	-504.3	2,570.5	2,542.5	28.00	91.811	
7,950.0	7,467.8	7,632.7	7,573.4	40.4	15.5	-94.40	72.1	-509.8	2,576.5	2,548.1	28.33	90.944	
8,000.0	7,481.9	7,770.5	7,657.8	40.6	16.0	-94.69	180.5	-514.9	2,580.1	2,551.0	29.05	88.828	
8,050.0	7,492.0	7,927.4	7,719.5	40.7	17.0	-94.98	324.2	-518.7	2,580.8	2,550.5	30.35	85.035	
8,100.0	7,498.1	8,084.6	7,740.0	40.9	18.4	-95.06	479.6	-520.0	2,578.5	2,546.3	32.13	80.263	
8,148.1	7,500.0	8,132.6	7,740.0	41.0	18.9	-95.37	527.5	-520.0	2,574.3	2,541.4	32.89	78.270	
8,200.0	7,500.0	8,184.2	7,740.0	41.2	19.4	-95.38	579.1	-520.0	2,569.4	2,535.4	33.96	75.662	
8,300.0	7,500.0	8,283.7	7,740.0	41.5	20.5	-95.40	678.7	-520.0	2,559.8	2,523.6	36.19	70.730	
8,400.0	7,500.0	8,383.3	7,740.0	42.0	21.7	-95.42	778.2	-520.0	2,550.3	2,511.7	38.61	66.049	
8,500.0	7,500.0	8,482.8	7,740.0	42.5	23.0	-95.45	877.8	-520.0	2,540.8	2,499.6	41.19	61.689	
8,600.0	7,500.0	8,582.3	7,740.0	43.1	24.3	-95.47	977.3	-520.0	2,531.2	2,487.3	43.89	57.674	
8,700.0	7,500.0	8,681.9	7,740.0	43.7	25.7	-95.49	1,076.8	-520.0	2,521.7	2,475.0	46.69	54.003	
8,800.0	7,500.0	8,781.4	7,740.0	44.4	27.1	-95.51	1,176.4	-520.0	2,512.1	2,462.5	49.59	50.660	
8,900.0	7,500.0	8,881.0	7,740.0	45.2	28.6	-95.53	1,275.9	-520.0	2,502.6	2,450.0	52.55	47.620	
9,000.0	7,500.0	8,980.5	7,740.0	46.0	30.1	-95.55	1,375.5	-520.0	2,493.0	2,437.5	55.58	44.856	
9,100.0	7,500.0	9,080.0	7,740.0	46.9	31.6	-95.57	1,475.0	-520.0	2,483.5	2,424.8	58.66	42.340	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,200.0	7,500.0	9,179.6	7,740.0	47.8	33.1	-95.59	1,574.5	-520.0	2,474.0	2,412.2	61.78	40.047	
9,300.0	7,500.0	9,279.1	7,740.0	48.8	34.7	-95.61	1,674.1	-520.0	2,464.4	2,399.5	64.93	37.953	
9,400.0	7,500.0	9,378.7	7,740.0	49.8	36.2	-95.64	1,773.6	-520.0	2,454.9	2,386.8	68.12	36.036	
9,500.0	7,500.0	9,478.2	7,740.0	50.8	37.8	-95.66	1,873.2	-520.0	2,445.3	2,374.0	71.34	34.278	
9,600.0	7,500.0	9,577.7	7,740.0	51.9	39.4	-95.68	1,972.7	-520.0	2,435.8	2,361.2	74.58	32.660	
9,700.0	7,500.0	9,677.3	7,740.0	53.1	41.0	-95.70	2,072.2	-520.0	2,426.3	2,348.4	77.84	31.170	
9,803.1	7,500.0	9,779.9	7,740.0	54.3	42.7	-95.73	2,174.9	-520.0	2,416.4	2,335.2	81.22	29.751	
9,900.0	7,500.0	9,876.4	7,740.0	55.4	44.3	-95.75	2,271.3	-520.0	2,407.2	2,322.8	84.41	28.517	
10,000.0	7,500.0	9,975.9	7,740.0	56.6	45.9	-95.77	2,370.9	-520.0	2,397.7	2,309.9	87.72	27.332	
10,100.0	7,500.0	10,075.4	7,740.0	57.9	47.6	-95.79	2,470.4	-520.0	2,388.1	2,297.1	91.04	26.230	
10,200.0	7,500.0	10,175.0	7,740.0	59.2	49.2	-95.82	2,569.9	-520.0	2,378.6	2,284.2	94.38	25.203	
10,300.0	7,500.0	10,274.5	7,740.0	60.5	50.9	-95.84	2,669.5	-520.0	2,369.1	2,271.3	97.72	24.243	
10,400.0	7,500.0	10,374.1	7,740.0	61.8	52.6	-95.86	2,769.0	-520.0	2,359.5	2,258.4	101.07	23.345	
10,500.0	7,500.0	10,473.6	7,740.0	63.1	54.2	-95.89	2,868.6	-520.0	2,350.0	2,245.6	104.43	22.503	
10,600.0	7,500.0	10,573.1	7,740.0	64.5	55.9	-95.91	2,968.1	-520.0	2,340.4	2,232.6	107.80	21.712	
10,703.1	7,500.0	10,675.8	7,740.0	65.9	57.7	-95.94	3,070.8	-520.0	2,330.6	2,219.3	111.28	20.944	
10,800.0	7,500.0	10,772.3	7,740.0	67.3	59.3	-95.95	3,167.2	-520.0	2,322.2	2,207.1	115.09	20.178	
10,900.0	7,500.0	10,872.0	7,740.0	68.8	61.0	-95.96	3,267.0	-520.0	2,315.2	2,196.2	119.00	19.455	
11,000.0	7,500.0	10,971.9	7,740.0	70.2	62.7	-95.97	3,366.9	-520.0	2,309.9	2,187.0	122.90	18.796	
11,100.0	7,500.0	11,071.8	7,740.0	71.7	64.4	-95.98	3,466.8	-520.0	2,306.4	2,179.6	126.77	18.194	
11,200.0	7,500.0	11,152.8	7,740.0	73.3	65.8	-95.98	3,547.8	-520.2	2,304.9	2,174.6	130.29	17.691	
11,203.3	7,500.0	11,155.2	7,740.0	73.3	65.8	-95.98	3,550.2	-520.2	2,304.9	2,174.5	130.40	17.676	
11,253.1	7,500.0	11,191.0	7,740.0	74.1	66.4	-95.98	3,586.0	-520.6	2,305.3	2,173.2	132.06	17.456	
11,300.0	7,500.0	11,237.6	7,740.0	74.8	67.2	-95.97	3,632.5	-521.3	2,306.0	2,172.3	133.66	17.253	
11,400.0	7,500.0	11,337.5	7,740.0	76.3	68.9	-95.97	3,732.5	-522.8	2,307.4	2,170.4	137.07	16.834	
11,500.0	7,500.0	11,437.5	7,740.0	77.9	70.6	-95.97	3,832.5	-524.3	2,308.9	2,168.4	140.49	16.434	
11,600.0	7,500.0	11,537.5	7,740.0	79.5	72.4	-95.96	3,932.4	-525.8	2,310.4	2,166.5	143.92	16.054	
11,700.0	7,500.0	11,637.5	7,740.0	81.0	74.1	-95.96	4,032.4	-527.3	2,311.9	2,164.6	147.35	15.690	
11,800.0	7,500.0	11,737.5	7,740.0	82.6	75.8	-95.96	4,132.4	-528.8	2,313.4	2,162.6	150.78	15.343	
11,900.0	7,500.0	11,837.5	7,740.0	84.2	77.5	-95.95	4,232.4	-530.3	2,314.9	2,160.7	154.21	15.011	
12,000.0	7,500.0	11,937.5	7,740.0	85.8	79.2	-95.95	4,332.3	-531.7	2,316.4	2,158.7	157.65	14.693	
12,100.0	7,500.0	12,037.5	7,740.0	87.4	81.0	-95.94	4,432.3	-533.2	2,317.8	2,156.8	161.09	14.389	
12,200.0	7,500.0	12,137.5	7,740.0	89.0	82.7	-95.94	4,532.3	-534.7	2,319.3	2,154.8	164.53	14.097	
12,300.0	7,500.0	12,237.4	7,740.0	90.6	84.4	-95.94	4,632.3	-536.2	2,320.8	2,152.8	167.97	13.817	
12,400.0	7,500.0	12,337.4	7,740.0	92.2	86.1	-95.93	4,732.3	-537.7	2,322.3	2,150.9	171.41	13.548	
12,500.0	7,500.0	12,437.4	7,740.0	93.8	87.9	-95.93	4,832.2	-539.2	2,323.8	2,148.9	174.86	13.289	
12,600.0	7,500.0	12,537.4	7,740.0	95.5	89.6	-95.92	4,932.2	-540.7	2,325.3	2,147.0	178.31	13.041	
12,700.0	7,500.0	12,637.4	7,740.0	97.1	91.3	-95.92	5,032.2	-542.2	2,326.8	2,145.0	181.76	12.801	
12,800.0	7,500.0	12,737.4	7,740.0	98.7	93.1	-95.92	5,132.2	-543.7	2,328.2	2,143.0	185.21	12.571	
12,900.0	7,500.0	12,837.4	7,740.0	100.4	94.8	-95.91	5,232.1	-545.2	2,329.7	2,141.1	188.66	12.349	
13,000.0	7,500.0	12,937.4	7,740.0	102.0	96.5	-95.91	5,332.1	-546.7	2,331.2	2,139.1	192.12	12.134	
13,100.0	7,500.0	13,037.4	7,740.0	103.7	98.3	-95.91	5,432.1	-548.2	2,332.7	2,137.1	195.57	11.928	
13,200.0	7,500.0	13,137.3	7,740.0	105.3	100.0	-95.90	5,532.1	-549.7	2,334.2	2,135.2	199.03	11.728	
13,300.0	7,500.0	13,237.3	7,740.0	107.0	101.7	-95.90	5,632.1	-551.2	2,335.7	2,133.2	202.49	11.535	
13,400.0	7,500.0	13,337.3	7,740.0	108.6	103.5	-95.89	5,732.0	-552.7	2,337.2	2,131.2	205.95	11.348	
13,500.0	7,500.0	13,437.3	7,740.0	110.3	105.2	-95.89	5,832.0	-554.2	2,338.6	2,129.2	209.41	11.168	
13,600.0	7,500.0	13,537.3	7,740.0	111.9	106.9	-95.89	5,932.0	-555.6	2,340.1	2,127.3	212.87	10.993	
13,700.0	7,500.0	13,637.3	7,740.0	113.6	108.7	-95.88	6,032.0	-557.1	2,341.6	2,125.3	216.33	10.824	
13,753.1	7,500.0	13,690.4	7,740.0	114.5	109.6	-95.88	6,085.1	-557.9	2,342.4	2,124.2	218.17	10.737	
13,800.0	7,500.0	13,737.3	7,740.0	115.3	110.4	-95.88	6,131.9	-558.6	2,343.3	2,123.3	219.99	10.652	
13,900.0	7,500.0	13,837.2	7,740.0	117.0	112.1	-95.88	6,231.9	-560.1	2,346.6	2,122.8	223.80	10.485	
14,000.0	7,500.0	13,937.1	7,740.0	118.7	113.9	-95.87	6,331.7	-561.6	2,351.9	2,124.3	227.54	10.336	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-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
14,100.0	7,500.0	14,036.8	7,740.0	120.4	115.6	-95.86	6,431.5	-563.1	2,359.0	2,127.8	231.20	10.203	
14,200.0	7,500.0	14,136.4	7,740.0	122.1	117.3	-95.85	6,531.0	-564.6	2,368.0	2,133.3	234.77	10.087	
14,300.0	7,500.0	14,235.8	7,740.0	123.8	119.1	-95.83	6,630.4	-566.1	2,379.0	2,140.7	238.25	9.985	
14,400.0	7,500.0	14,335.0	7,740.0	125.6	120.8	-95.81	6,729.6	-567.6	2,391.8	2,150.1	241.65	9.898	
14,500.0	7,500.0	14,433.9	7,740.0	127.3	122.5	-95.80	6,828.5	-569.0	2,406.5	2,161.5	244.94	9.825	
14,600.0	7,500.0	14,532.5	7,740.0	129.1	124.2	-95.77	6,927.0	-570.5	2,423.1	2,174.9	248.15	9.765	
14,683.9	7,500.0	14,614.9	7,740.0	130.5	125.7	-95.75	7,009.5	-571.7	2,438.4	2,187.7	250.75	9.724	
14,700.0	7,500.0	14,630.7	7,740.0	130.8	126.0	-95.75	7,025.3	-572.0	2,441.5	2,190.2	251.31	9.715	
14,756.3	7,500.0	14,682.3	7,740.0	131.8	126.8	-95.72	7,076.8	-572.8	2,452.2	2,199.0	253.18	9.686 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	0.4	-59.9	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.4	-59.9	59.9	59.6	0.30	197.227		
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.4	-59.9	59.9	59.2	0.65	91.758 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.57	0.4	-59.9	60.8	59.8	1.00	60.663		
400.0	400.0	399.2	399.2	0.7	0.7	178.03	-0.3	-60.4	63.9	62.6	1.35	47.379		
500.0	499.9	498.3	498.3	0.9	0.9	176.54	-2.3	-62.1	70.0	68.3	1.70	41.211		
600.0	599.7	597.0	596.8	1.1	1.0	174.48	-5.5	-64.8	79.0	77.0	2.05	38.544		
700.0	699.4	697.5	697.3	1.3	1.2	172.82	-9.0	-67.6	89.8	87.4	2.40	37.364		
800.0	798.9	798.3	798.1	1.5	1.4	172.19	-11.5	-68.9	100.8	98.1	2.75	36.618		
900.0	898.3	898.7	898.4	1.8	1.6	172.26	-12.8	-69.0	112.2	109.1	3.10	36.177		
1,000.0	997.4	997.9	997.6	2.0	1.7	172.53	-14.0	-68.7	125.0	121.6	3.45	36.257		
1,100.0	1,096.3	1,096.8	1,096.5	2.3	1.9	172.83	-15.1	-68.4	139.5	135.8	3.79	36.788		
1,200.0	1,194.9	1,195.5	1,195.2	2.7	2.1	173.14	-16.2	-68.2	155.8	151.6	4.14	37.660		
1,300.0	1,293.3	1,293.9	1,293.6	3.0	2.3	173.46	-17.3	-67.9	173.7	169.2	4.48	38.795		
1,400.0	1,391.2	1,391.9	1,391.6	3.4	2.4	173.78	-18.4	-67.7	193.4	188.5	4.82	40.141		
1,500.0	1,488.9	1,489.6	1,489.3	3.8	2.6	174.07	-19.5	-67.4	214.7	209.5	5.15	41.658		
1,600.0	1,586.1	1,586.9	1,586.6	4.3	2.8	174.36	-20.6	-67.2	237.8	232.3	5.49	43.316		
1,700.0	1,682.9	1,683.8	1,683.4	4.7	2.9	174.62	-21.7	-66.9	262.5	256.7	5.82	45.093		
1,800.0	1,779.3	1,780.2	1,779.9	5.2	3.1	174.87	-22.8	-66.6	288.9	282.8	6.15	46.973		
1,900.0	1,875.2	1,876.2	1,875.8	5.8	3.3	175.10	-23.9	-66.4	317.0	310.5	6.48	48.941		
2,000.0	1,970.5	1,971.6	1,971.3	6.3	3.5	175.31	-24.9	-66.1	346.8	340.0	6.80	50.988		
2,022.8	1,992.2	1,993.3	1,992.9	6.4	3.5	175.35	-25.2	-66.1	353.8	346.9	6.87	51.464		
2,100.0	2,065.5	2,066.7	2,066.3	6.9	3.6	175.52	-26.0	-65.9	377.7	370.6	7.14	52.917		
2,200.0	2,160.5	2,161.8	2,161.4	7.5	3.8	175.70	-27.1	-65.6	408.7	401.2	7.48	54.649		
2,300.0	2,255.5	2,256.8	2,256.5	8.0	4.0	175.86	-28.2	-65.4	439.7	431.9	7.82	56.231		
2,400.0	2,350.5	2,351.9	2,351.5	8.6	4.1	176.00	-29.2	-65.1	470.7	462.6	8.16	57.683		
2,500.0	2,445.5	2,447.0	2,446.6	9.2	4.3	176.11	-30.3	-64.9	501.7	493.2	8.50	59.019		
2,600.0	2,540.4	2,542.1	2,541.7	9.8	4.5	176.22	-31.4	-64.6	532.7	523.9	8.84	60.254		
2,700.0	2,635.4	2,637.1	2,636.7	10.4	4.6	176.32	-32.4	-64.4	563.7	554.5	9.18	61.397		
2,800.0	2,730.4	2,732.2	2,731.8	11.0	4.8	176.40	-33.5	-64.1	594.7	585.2	9.52	62.459		
2,900.0	2,825.4	2,827.3	2,826.9	11.6	5.0	176.48	-34.6	-63.9	625.7	615.9	9.86	63.449		
3,000.0	2,920.4	2,922.3	2,921.9	12.2	5.1	176.54	-35.7	-63.6	656.7	646.5	10.20	64.373		
3,100.0	3,015.4	3,017.4	3,017.0	12.8	5.3	176.61	-36.7	-63.4	687.7	677.2	10.54	65.238		
3,200.0	3,110.3	3,112.5	3,112.0	13.3	5.5	176.66	-37.8	-63.1	718.7	707.9	10.88	66.049		
3,300.0	3,205.3	3,207.5	3,207.1	13.9	5.6	176.72	-38.9	-62.9	749.7	738.5	11.22	66.812		
3,400.0	3,300.3	3,302.6	3,302.2	14.5	5.8	176.76	-39.9	-62.6	780.7	769.2	11.56	67.529		
3,500.0	3,395.3	3,397.7	3,397.2	15.1	6.0	176.81	-41.0	-62.4	811.8	799.9	11.90	68.207		
3,600.0	3,490.3	3,492.8	3,492.3	15.7	6.1	176.85	-42.1	-62.1	842.8	830.5	12.24	68.846		
3,700.0	3,585.2	3,587.8	3,587.4	16.3	6.3	176.89	-43.2	-61.9	873.8	861.2	12.58	69.452		
3,800.0	3,680.2	3,682.9	3,682.4	16.9	6.5	176.93	-44.2	-61.6	904.8	891.9	12.92	70.025		
3,900.0	3,775.2	3,778.0	3,777.5	17.5	6.6	176.96	-45.3	-61.4	935.8	922.5	13.26	70.570		
4,000.0	3,870.2	3,873.0	3,872.5	18.1	6.8	176.99	-46.4	-61.1	966.8	953.2	13.60	71.087		
4,100.0	3,965.2	3,968.1	3,967.6	18.7	7.0	177.02	-47.4	-60.9	997.8	983.9	13.94	71.579		
4,200.0	4,060.2	4,063.2	4,062.7	19.3	7.1	177.05	-48.5	-60.6	1,028.8	1,014.5	14.28	72.048		
4,300.0	4,155.1	4,158.2	4,157.7	19.9	7.3	177.07	-49.6	-60.3	1,059.8	1,045.2	14.62	72.495		
4,400.0	4,250.1	4,253.3	4,252.8	20.5	7.5	177.10	-50.7	-60.1	1,090.8	1,075.9	14.96	72.922		
4,500.0	4,345.1	4,348.4	4,347.9	21.1	7.6	177.12	-51.7	-59.8	1,121.8	1,106.5	15.30	73.331		
4,600.0	4,440.1	4,443.4	4,442.9	21.7	7.8	177.14	-52.8	-59.6	1,152.8	1,137.2	15.64	73.721		
4,700.0	4,535.1	4,538.5	4,538.0	22.3	8.0	177.16	-53.9	-59.3	1,183.9	1,167.9	15.98	74.095		
4,800.0	4,630.1	4,633.6	4,633.1	22.9	8.1	177.18	-54.9	-59.1	1,214.9	1,198.6	16.32	74.453		
4,900.0	4,725.0	4,728.7	4,728.1	23.5	8.3	177.20	-56.0	-58.8	1,245.9	1,229.2	16.66	74.797		
5,000.0	4,820.0	4,823.7	4,823.2	24.1	8.5	177.22	-57.1	-58.6	1,276.9	1,259.9	17.00	75.128		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference				Offset		Semi Major Axis		Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	4,918.8	4,918.2	24.6	8.6	177.24	-58.2	-58.3	1,307.9	1,290.6	17.34	75.445		
5,200.0	5,010.0	5,013.9	5,013.3	25.2	8.8	177.25	-59.2	-58.1	1,338.9	1,321.2	17.68	75.750		
5,300.0	5,105.0	5,108.9	5,108.4	25.8	9.0	177.27	-60.3	-57.8	1,369.9	1,351.9	18.01	76.044		
5,400.0	5,199.9	5,204.0	5,203.4	26.4	9.1	177.28	-61.4	-57.6	1,400.9	1,382.6	18.35	76.327		
5,500.0	5,294.9	5,299.1	5,298.5	27.0	9.3	177.30	-62.4	-57.3	1,431.9	1,413.2	18.69	76.599		
5,600.0	5,389.9	5,394.1	5,393.6	27.6	9.5	177.31	-63.5	-57.1	1,463.0	1,443.9	19.03	76.862		
5,700.0	5,484.9	5,489.2	5,488.6	28.2	9.6	177.32	-64.6	-56.8	1,494.0	1,474.6	19.37	77.116		
5,800.0	5,579.9	5,584.3	5,583.7	28.8	9.8	177.34	-65.7	-56.6	1,525.0	1,505.3	19.71	77.361		
5,900.0	5,674.9	5,679.4	5,678.7	29.4	10.0	177.35	-66.7	-56.3	1,556.0	1,535.9	20.05	77.598		
6,000.0	5,769.8	5,774.4	5,773.8	30.0	10.1	177.36	-67.8	-56.1	1,587.0	1,566.6	20.39	77.827		
6,100.0	5,864.8	5,869.5	5,868.9	30.6	10.3	177.37	-68.9	-55.8	1,618.0	1,597.3	20.73	78.048		
6,200.0	5,959.8	5,964.6	5,963.9	31.2	10.5	177.38	-69.9	-55.6	1,649.0	1,628.0	21.07	78.263		
6,300.0	6,054.8	6,059.6	6,059.0	31.8	10.6	177.39	-71.0	-55.3	1,680.0	1,658.6	21.41	78.470		
6,400.0	6,149.8	6,154.7	6,154.1	32.4	10.8	177.40	-72.1	-55.1	1,711.0	1,689.3	21.75	78.671		
6,500.0	6,244.7	6,249.8	6,249.1	33.0	11.0	177.41	-73.2	-54.8	1,742.1	1,720.0	22.09	78.866		
6,600.0	6,339.7	6,344.8	6,344.2	33.6	11.1	177.42	-74.2	-54.6	1,773.1	1,750.6	22.43	79.055		
6,700.0	6,434.7	6,439.9	6,439.3	34.2	11.3	177.43	-75.3	-54.3	1,804.1	1,781.3	22.77	79.239		
6,800.0	6,529.7	6,535.0	6,534.3	34.8	11.5	177.44	-76.4	-54.1	1,835.1	1,812.0	23.11	79.417		
6,900.0	6,624.7	6,630.0	6,629.4	35.4	11.6	177.44	-77.4	-53.8	1,866.1	1,842.7	23.45	79.590		
7,000.0	6,719.7	6,725.1	6,724.4	36.0	11.8	177.45	-78.5	-53.6	1,897.1	1,873.3	23.79	79.758		
7,100.0	6,814.6	6,820.2	6,819.5	36.6	12.0	177.46	-79.6	-53.3	1,928.1	1,904.0	24.13	79.921		
7,200.0	6,909.6	6,915.3	6,914.6	37.2	12.1	177.47	-80.7	-53.1	1,959.1	1,934.7	24.46	80.080		
7,225.4	6,933.7	6,939.0	6,938.3	37.3	12.2	177.48	-80.7	-53.0	1,967.0	1,942.5	24.55	80.129		
7,250.0	6,957.1	6,961.8	6,961.1	37.5	12.2	-174.20	-79.8	-53.0	1,974.6	1,950.0	24.59	80.316		
7,300.0	7,004.6	7,008.2	7,007.3	37.8	12.3	-157.69	-75.1	-52.9	1,989.8	1,965.0	24.73	80.457		
7,350.0	7,051.7	7,054.7	7,053.0	38.0	12.3	-143.18	-66.8	-53.0	2,004.5	1,979.5	24.97	80.275		
7,400.0	7,098.0	7,101.3	7,098.0	38.3	12.4	-131.42	-54.7	-53.1	2,018.6	1,993.3	25.29	79.816		
7,450.0	7,143.3	7,148.1	7,142.0	38.5	12.5	-122.22	-38.9	-53.2	2,032.0	2,006.4	25.67	79.150		
7,500.0	7,187.1	7,195.1	7,184.8	38.8	12.5	-115.03	-19.5	-53.5	2,044.7	2,018.6	26.09	78.357		
7,550.0	7,229.2	7,242.4	7,226.1	39.0	12.6	-109.37	3.5	-53.8	2,056.5	2,029.9	26.53	77.510		
7,600.0	7,269.2	7,289.9	7,265.6	39.2	12.7	-104.87	29.9	-54.1	2,067.3	2,040.3	26.97	76.660		
7,650.0	7,306.8	7,337.8	7,303.0	39.4	12.9	-101.24	59.8	-54.6	2,077.0	2,049.6	27.39	75.841		
7,700.0	7,341.7	7,385.9	7,337.9	39.6	13.0	-98.31	92.9	-55.0	2,085.6	2,057.8	27.79	75.061		
7,750.0	7,373.7	7,434.3	7,370.2	39.8	13.2	-95.93	129.0	-55.6	2,093.1	2,064.9	28.17	74.314		
7,800.0	7,402.5	7,483.0	7,399.4	39.9	13.4	-94.03	167.9	-56.2	2,099.2	2,070.7	28.53	73.578		
7,850.0	7,427.9	7,532.0	7,425.3	40.1	13.7	-92.53	209.4	-56.9	2,104.1	2,075.2	28.89	72.826		
7,900.0	7,449.7	7,581.1	7,447.7	40.2	14.1	-91.38	253.1	-57.6	2,107.7	2,078.4	29.26	72.028		
7,950.0	7,467.8	7,630.4	7,466.4	40.4	14.4	-90.55	298.7	-58.3	2,109.9	2,080.2	29.65	71.154		
8,000.0	7,481.9	7,679.8	7,481.0	40.6	14.9	-90.01	345.9	-59.1	2,110.7	2,080.6	30.08	70.179		
8,050.0	7,492.0	7,729.3	7,491.6	40.7	15.3	-89.75	394.2	-59.9	2,110.1	2,079.6	30.54	69.092		
8,100.0	7,498.1	7,778.8	7,497.9	40.9	15.8	-89.75	443.3	-60.8	2,108.2	2,077.2	31.05	67.892		
8,148.1	7,500.0	7,826.4	7,500.0	41.0	16.3	-90.00	490.8	-61.6	2,105.1	2,073.5	31.59	66.647		
8,200.0	7,500.0	7,878.1	7,500.0	41.2	16.9	-90.00	542.5	-62.5	2,101.0	2,068.4	32.64	64.366		
8,300.0	7,500.0	7,977.8	7,500.0	41.5	18.1	-90.00	642.1	-64.2	2,093.1	2,058.3	34.85	60.064		
8,400.0	7,500.0	8,077.5	7,500.0	42.0	19.4	-90.00	741.8	-66.0	2,085.3	2,048.0	37.25	55.977		
8,500.0	7,500.0	8,177.2	7,500.0	42.5	20.8	-90.00	841.5	-67.7	2,077.5	2,037.6	39.82	52.169		
8,600.0	7,500.0	8,276.8	7,500.0	43.1	22.2	-90.00	941.2	-69.5	2,069.6	2,027.1	42.52	48.668		
8,700.0	7,500.0	8,376.5	7,500.0	43.7	23.6	-90.00	1,040.9	-71.2	2,061.8	2,016.4	45.34	45.475		
8,800.0	7,500.0	8,476.2	7,500.0	44.4	25.1	-90.00	1,140.5	-72.9	2,053.9	2,005.7	48.24	42.573		
8,900.0	7,500.0	8,575.9	7,500.0	45.2	26.6	-90.00	1,240.2	-74.7	2,046.1	1,994.8	51.22	39.943		
9,000.0	7,500.0	8,675.6	7,500.0	46.0	28.2	-90.00	1,339.9	-76.4	2,038.2	1,984.0	54.27	37.558		
9,100.0	7,500.0	8,775.3	7,500.0	46.9	29.8	-90.00	1,439.6	-78.2	2,030.4	1,973.0	57.37	35.393		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,200.0	7,500.0	8,875.0	7,500.0	47.8	31.4	-90.00	1,539.2	-79.9	2,022.5	1,962.0	60.51	33.426	
9,300.0	7,500.0	8,974.7	7,500.0	48.8	33.0	-90.00	1,638.9	-81.6	2,014.7	1,951.0	63.69	31.634	
9,400.0	7,500.0	9,074.4	7,500.0	49.8	34.6	-90.00	1,738.6	-83.4	2,006.8	1,939.9	66.90	29.997	
9,500.0	7,500.0	9,162.1	7,500.0	50.8	36.0	-90.00	1,826.3	-85.0	1,999.1	1,929.2	69.95	28.581	
9,600.0	7,500.0	9,236.1	7,500.0	51.9	37.2	-90.00	1,900.2	-87.2	1,992.5	1,919.7	72.79	27.374	
9,700.0	7,500.0	9,300.0	7,500.0	53.1	38.3	-90.00	1,964.1	-89.9	1,987.2	1,911.8	75.48	26.327	
9,803.1	7,500.0	9,386.7	7,500.0	54.3	39.7	-90.00	2,050.7	-94.7	1,983.1	1,904.5	78.63	25.222	
9,900.0	7,500.0	9,469.4	7,500.0	55.4	41.1	-90.00	2,133.2	-100.3	1,980.4	1,898.7	81.61	24.266	
10,000.0	7,500.0	9,569.4	7,500.0	56.6	42.8	-90.00	2,232.9	-107.3	1,977.7	1,892.8	84.95	23.280	
10,100.0	7,500.0	9,669.3	7,500.0	57.9	44.5	-90.00	2,332.6	-114.2	1,975.1	1,886.8	88.31	22.366	
10,200.0	7,500.0	9,769.3	7,500.0	59.2	46.1	-90.00	2,432.3	-121.2	1,972.5	1,880.8	91.67	21.516	
10,300.0	7,500.0	9,869.3	7,500.0	60.5	47.8	-90.00	2,532.1	-128.2	1,969.9	1,874.8	95.05	20.724	
10,400.0	7,500.0	9,969.2	7,500.0	61.8	49.5	-90.00	2,631.8	-135.2	1,967.3	1,868.8	98.44	19.984	
10,500.0	7,500.0	10,069.2	7,500.0	63.1	51.2	-90.00	2,731.5	-142.1	1,964.6	1,862.8	101.84	19.292	
10,600.0	7,500.0	10,169.1	7,500.0	64.5	52.9	-90.00	2,831.2	-149.1	1,962.0	1,856.8	105.24	18.643	
10,703.1	7,500.0	10,272.3	7,500.0	65.9	54.7	-90.00	2,934.1	-156.3	1,959.3	1,850.6	108.76	18.015	
10,800.0	7,500.0	10,369.1	7,500.0	67.3	56.3	-90.00	3,030.7	-163.0	1,957.6	1,844.9	112.71	17.369	
10,853.2	7,500.0	10,422.3	7,500.0	68.1	57.3	-90.00	3,083.7	-166.8	1,957.4	1,842.5	114.86	17.041	
10,900.0	7,500.0	10,469.1	7,500.0	68.8	58.1	-90.00	3,130.4	-170.0	1,957.6	1,840.8	116.76	16.766	
11,000.0	7,500.0	10,569.1	7,500.0	70.2	59.8	-90.00	3,230.2	-177.0	1,959.2	1,838.5	120.78	16.221	
11,100.0	7,500.0	10,690.5	7,500.0	71.7	61.9	-90.00	3,351.4	-185.1	1,962.5	1,837.3	125.15	15.681	
11,200.0	7,500.0	10,842.6	7,500.0	73.3	64.5	-90.00	3,503.3	-192.1	1,965.2	1,835.2	130.01	15.116	
11,253.1	7,500.0	10,923.5	7,500.0	74.1	65.9	-90.00	3,584.1	-194.1	1,966.3	1,833.7	132.58	14.831	
11,300.0	7,500.0	10,994.8	7,500.0	74.8	67.1	-90.00	3,655.5	-195.0	1,966.9	1,832.3	134.61	14.612	
11,400.0	7,500.0	11,104.5	7,500.0	76.3	69.0	-90.00	3,765.2	-195.1	1,967.0	1,828.8	138.21	14.232	
11,500.0	7,500.0	11,204.5	7,500.0	77.9	70.7	-90.00	3,865.2	-195.2	1,967.1	1,825.4	141.66	13.886	
11,600.0	7,500.0	11,304.5	7,500.0	79.5	72.4	-90.00	3,965.2	-195.3	1,967.2	1,822.1	145.10	13.557	
11,700.0	7,500.0	11,404.5	7,500.0	81.0	74.2	-90.00	4,065.2	-195.4	1,967.2	1,818.7	148.55	13.243	
11,800.0	7,500.0	11,504.5	7,500.0	82.6	75.9	-90.00	4,165.2	-195.4	1,967.3	1,815.3	152.00	12.943	
11,900.0	7,500.0	11,604.5	7,500.0	84.2	77.6	-90.00	4,265.2	-195.5	1,967.4	1,812.0	155.45	12.656	
12,000.0	7,500.0	11,704.5	7,500.0	85.8	79.3	-90.00	4,365.2	-195.6	1,967.5	1,808.6	158.91	12.381	
12,100.0	7,500.0	11,804.5	7,500.0	87.4	81.1	-90.00	4,465.2	-195.7	1,967.6	1,805.2	162.37	12.118	
12,200.0	7,500.0	11,904.5	7,500.0	89.0	82.8	-90.00	4,565.2	-195.8	1,967.6	1,801.8	165.83	11.866	
12,300.0	7,500.0	12,004.5	7,500.0	90.6	84.5	-90.00	4,665.2	-195.8	1,967.7	1,798.4	169.29	11.624	
12,400.0	7,500.0	12,104.5	7,500.0	92.2	86.3	-90.00	4,765.2	-195.9	1,967.8	1,795.1	172.75	11.391	
12,500.0	7,500.0	12,204.5	7,500.0	93.8	88.0	-90.00	4,865.2	-196.0	1,967.9	1,791.7	176.22	11.167	
12,600.0	7,500.0	12,304.5	7,500.0	95.5	89.7	-90.00	4,965.2	-196.1	1,968.0	1,788.3	179.68	10.952	
12,700.0	7,500.0	12,404.5	7,500.0	97.1	91.5	-90.00	5,065.2	-196.2	1,968.1	1,784.9	183.15	10.745	
12,800.0	7,500.0	12,504.5	7,500.0	98.7	93.2	-90.00	5,165.2	-196.3	1,968.1	1,781.5	186.62	10.546	
12,900.0	7,500.0	12,604.5	7,500.0	100.4	94.9	-90.00	5,265.2	-196.3	1,968.2	1,778.1	190.09	10.354	
13,000.0	7,500.0	12,704.5	7,500.0	102.0	96.7	-90.00	5,365.2	-196.4	1,968.3	1,774.7	193.57	10.169	
13,100.0	7,500.0	12,804.5	7,500.0	103.7	98.4	-90.00	5,465.2	-196.5	1,968.4	1,771.3	197.04	9.990	
13,200.0	7,500.0	12,904.5	7,500.0	105.3	100.2	-90.00	5,565.2	-196.6	1,968.5	1,767.9	200.52	9.817	
13,300.0	7,500.0	13,004.5	7,500.0	107.0	101.9	-90.00	5,665.2	-196.7	1,968.5	1,764.6	203.99	9.650	
13,400.0	7,500.0	13,104.5	7,500.0	108.6	103.6	-90.00	5,765.2	-196.7	1,968.6	1,761.2	207.47	9.489	
13,500.0	7,500.0	13,204.5	7,500.0	110.3	105.4	-90.00	5,865.2	-196.8	1,968.7	1,757.8	210.95	9.333	
13,600.0	7,500.0	13,304.5	7,500.0	111.9	107.1	-90.00	5,965.2	-196.9	1,968.8	1,754.4	214.43	9.182	
13,700.0	7,500.0	13,404.5	7,500.0	113.6	108.9	-90.00	6,065.2	-197.0	1,968.9	1,751.0	217.91	9.035	
13,753.1	7,500.0	13,457.7	7,500.0	114.5	109.8	-90.00	6,118.3	-197.0	1,968.9	1,749.2	219.76	8.959	
13,800.0	7,500.0	13,504.5	7,500.0	115.3	110.6	-90.00	6,165.2	-197.1	1,969.2	1,747.5	221.64	8.885	
13,900.0	7,500.0	13,604.5	7,500.0	117.0	112.3	-90.00	6,265.1	-197.2	1,971.1	1,745.5	225.60	8.737	
14,000.0	7,500.0	13,704.4	7,500.0	118.7	114.1	-90.00	6,365.1	-197.2	1,974.9	1,745.5	229.47	8.606	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-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
14,100.0	7,500.0	13,804.3	7,500.0	120.4	115.8	-90.00	6,464.9	-197.3	1,980.7	1,747.4	233.27	8.491	
14,200.0	7,500.0	13,904.0	7,500.0	122.1	117.6	-90.00	6,564.6	-197.4	1,988.4	1,751.4	236.98	8.390	
14,300.0	7,500.0	14,003.5	7,500.0	123.8	119.3	-90.00	6,664.1	-197.5	1,998.0	1,757.3	240.60	8.304	
14,400.0	7,500.0	14,102.8	7,500.0	125.6	121.0	-90.00	6,763.5	-197.6	2,009.4	1,765.3	244.13	8.231	
14,500.0	7,500.0	14,201.9	7,500.0	127.3	122.8	-90.00	6,862.6	-197.6	2,022.8	1,775.2	247.57	8.171	
14,600.0	7,500.0	14,300.8	7,500.0	129.1	124.5	-90.00	6,961.4	-197.7	2,038.1	1,787.2	250.90	8.123	
14,683.9	7,500.0	14,383.4	7,500.0	130.5	125.9	-90.00	7,044.0	-197.8	2,052.3	1,798.7	253.62	8.092	
14,700.0	7,500.0	14,399.3	7,500.0	130.8	126.2	-90.00	7,059.9	-197.8	2,055.2	1,801.0	254.18	8.086	
14,756.3	7,500.0	14,422.4	7,500.0	131.8	126.6	-90.00	7,083.0	-197.8	2,065.5	1,809.9	255.57	8.082 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-89.58	0.4	-49.8	49.8				
100.0	100.0	100.0	100.0	0.2	0.2	-89.58	0.4	-49.8	49.8	49.5	0.30	164.050	
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.4	-49.8	49.8	49.2	0.65	76.323 CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.64	0.4	-49.8	50.7	49.7	1.00	50.605	
400.0	400.0	400.0	400.0	0.7	0.7	178.71	0.4	-49.8	53.3	52.0	1.35	39.477	
500.0	499.9	499.9	499.9	0.9	0.8	178.81	0.4	-49.8	57.7	56.0	1.70	33.952	
600.0	599.7	599.7	599.7	1.1	1.0	178.92	0.4	-49.8	63.8	61.7	2.05	31.169	
700.0	699.4	700.6	700.6	1.3	1.2	178.97	0.3	-48.9	70.8	68.4	2.40	29.541	
800.0	798.9	801.7	801.6	1.5	1.4	178.89	-0.1	-46.3	77.7	75.0	2.74	28.327	
900.0	898.3	902.8	902.6	1.8	1.6	178.72	-0.6	-41.9	84.7	81.6	3.09	27.387	
1,000.0	997.4	1,002.5	1,002.2	2.0	1.7	178.55	-1.2	-36.7	92.6	89.2	3.44	26.938	
1,100.0	1,096.3	1,102.0	1,101.6	2.3	1.9	178.44	-1.8	-31.6	102.2	98.5	3.78	27.039	
1,200.0	1,194.9	1,201.3	1,200.8	2.7	2.1	178.37	-2.4	-26.5	113.6	109.5	4.12	27.552	
1,300.0	1,293.3	1,300.5	1,299.8	3.0	2.3	178.33	-3.0	-21.4	126.8	122.3	4.47	28.383	
1,400.0	1,391.2	1,399.4	1,398.6	3.4	2.5	178.32	-3.6	-16.3	141.6	136.8	4.81	29.466	
1,500.0	1,488.9	1,498.0	1,497.0	3.8	2.7	178.33	-4.2	-11.2	158.2	153.0	5.14	30.751	
1,600.0	1,586.1	1,596.3	1,595.2	4.3	2.9	178.35	-4.8	-6.1	176.5	171.0	5.48	32.203	
1,700.0	1,682.9	1,694.3	1,693.1	4.7	3.1	178.39	-5.4	-1.1	196.5	190.6	5.81	33.794	
1,800.0	1,779.3	1,791.9	1,790.5	5.2	3.3	178.42	-6.0	4.0	218.2	212.0	6.14	35.504	
1,900.0	1,875.2	1,889.1	1,887.6	5.8	3.4	178.46	-6.6	9.0	241.6	235.1	6.47	37.315	
2,000.0	1,970.5	1,985.9	1,984.3	6.3	3.6	178.51	-7.2	14.0	266.7	259.9	6.80	39.215	
2,022.8	1,992.2	2,007.9	2,006.2	6.4	3.7	178.52	-7.3	15.1	272.6	265.7	6.87	39.659	
2,100.0	2,065.5	2,082.4	2,080.7	6.9	3.8	178.55	-7.7	19.0	293.0	285.8	7.14	41.036	
2,200.0	2,160.5	2,178.9	2,177.0	7.5	4.0	178.59	-8.3	23.9	319.3	311.8	7.48	42.675	
2,300.0	2,255.5	2,275.3	2,273.3	8.0	4.2	178.63	-8.9	28.9	345.6	337.8	7.82	44.171	
2,400.0	2,350.5	2,371.8	2,369.7	8.6	4.4	178.65	-9.5	33.9	371.9	363.8	8.17	45.542	
2,500.0	2,445.5	2,468.3	2,466.0	9.2	4.6	178.68	-10.1	38.9	398.3	389.7	8.51	46.803	
2,600.0	2,540.4	2,564.7	2,562.4	9.8	4.8	178.70	-10.7	43.8	424.6	415.7	8.85	47.967	
2,700.0	2,635.4	2,661.2	2,658.7	10.4	5.0	178.72	-11.3	48.8	450.9	441.7	9.19	49.044	
2,800.0	2,730.4	2,757.7	2,755.0	11.0	5.1	178.74	-11.8	53.8	477.2	467.7	9.54	50.045	
2,900.0	2,825.4	2,854.2	2,851.4	11.6	5.3	178.75	-12.4	58.8	503.6	493.7	9.88	50.976	
3,000.0	2,920.4	2,950.6	2,947.7	12.2	5.5	178.77	-13.0	63.7	529.9	519.7	10.22	51.845	
3,100.0	3,015.4	3,047.1	3,044.1	12.8	5.7	178.78	-13.6	68.7	556.2	545.7	10.56	52.658	
3,200.0	3,110.3	3,143.6	3,140.4	13.3	5.9	178.79	-14.2	73.7	582.5	571.6	10.90	53.420	
3,300.0	3,205.3	3,240.1	3,236.8	13.9	6.1	178.80	-14.8	78.7	608.9	597.6	11.25	54.136	
3,400.0	3,300.3	3,336.5	3,333.1	14.5	6.3	178.81	-15.4	83.6	635.2	623.6	11.59	54.810	
3,500.0	3,395.3	3,433.0	3,429.4	15.1	6.5	178.82	-15.9	88.6	661.5	649.6	11.93	55.446	
3,600.0	3,490.3	3,529.5	3,525.8	15.7	6.7	178.83	-16.5	93.6	687.8	675.6	12.27	56.046	
3,700.0	3,585.2	3,625.9	3,622.1	16.3	6.8	178.83	-17.1	98.6	714.2	701.6	12.61	56.613	
3,800.0	3,680.2	3,722.4	3,718.5	16.9	7.0	178.84	-17.7	103.5	740.5	727.5	12.96	57.151	
3,900.0	3,775.2	3,818.9	3,814.8	17.5	7.2	178.85	-18.3	108.5	766.8	753.5	13.30	57.661	
4,000.0	3,870.2	3,915.4	3,911.2	18.1	7.4	178.85	-18.9	113.5	793.2	779.5	13.64	58.146	
4,100.0	3,965.2	4,011.8	4,007.5	18.7	7.6	178.86	-19.5	118.5	819.5	805.5	13.98	58.607	
4,200.0	4,060.2	4,108.3	4,103.8	19.3	7.8	178.86	-20.0	123.4	845.8	831.5	14.32	59.046	
4,300.0	4,155.1	4,204.8	4,200.2	19.9	8.0	178.87	-20.6	128.4	872.1	857.5	14.67	59.464	
4,400.0	4,250.1	4,301.2	4,296.5	20.5	8.2	178.87	-21.2	133.4	898.5	883.5	15.01	59.864	
4,500.0	4,345.1	4,397.7	4,392.9	21.1	8.4	178.88	-21.8	138.4	924.8	909.4	15.35	60.246	
4,600.0	4,440.1	4,494.2	4,489.2	21.7	8.5	178.88	-22.4	143.3	951.1	935.4	15.69	60.611	
4,700.0	4,535.1	4,590.7	4,585.5	22.3	8.7	178.89	-23.0	148.3	977.4	961.4	16.03	60.961	
4,800.0	4,630.1	4,687.1	4,681.9	22.9	8.9	178.89	-23.6	153.3	1,003.8	987.4	16.38	61.296	
4,900.0	4,725.0	4,783.6	4,778.2	23.5	9.1	178.89	-24.2	158.3	1,030.1	1,013.4	16.72	61.617	
5,000.0	4,820.0	4,880.1	4,874.6	24.1	9.3	178.90	-24.7	163.2	1,056.4	1,039.4	17.06	61.926	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,915.0	4,976.6	4,970.9	24.6	9.5	178.90	-25.3	168.2	1,082.7	1,065.3	17.40	62.223	
5,200.0	5,010.0	5,073.0	5,067.3	25.2	9.7	178.90	-25.9	173.2	1,109.1	1,091.3	17.74	62.508	
5,300.0	5,105.0	5,169.5	5,163.6	25.8	9.9	178.91	-26.5	178.2	1,135.4	1,117.3	18.08	62.782	
5,400.0	5,199.9	5,266.0	5,259.9	26.4	10.1	178.91	-27.1	183.1	1,161.7	1,143.3	18.43	63.046	
5,500.0	5,294.9	5,362.4	5,356.3	27.0	10.3	178.91	-27.7	188.1	1,188.1	1,169.3	18.77	63.301	
5,600.0	5,389.9	5,458.9	5,452.6	27.6	10.4	178.92	-28.3	193.1	1,214.4	1,195.3	19.11	63.547	
5,700.0	5,484.9	5,555.4	5,549.0	28.2	10.6	178.92	-28.8	198.1	1,240.7	1,221.3	19.45	63.784	
5,800.0	5,579.9	5,651.9	5,645.3	28.8	10.8	178.92	-29.4	203.0	1,267.0	1,247.2	19.79	64.012	
5,900.0	5,674.9	5,748.3	5,741.7	29.4	11.0	178.92	-30.0	208.0	1,293.4	1,273.2	20.14	64.233	
6,000.0	5,769.8	5,844.8	5,838.0	30.0	11.2	178.92	-30.6	213.0	1,319.7	1,299.2	20.48	64.447	
6,100.0	5,864.8	5,941.3	5,934.3	30.6	11.4	178.93	-31.2	218.0	1,346.0	1,325.2	20.82	64.654	
6,200.0	5,959.8	6,037.7	6,030.7	31.2	11.6	178.93	-31.8	222.9	1,372.3	1,351.2	21.16	64.854	
6,300.0	6,054.8	6,134.2	6,127.0	31.8	11.8	178.93	-32.4	227.9	1,398.7	1,377.2	21.50	65.047	
6,400.0	6,149.8	6,230.7	6,223.4	32.4	12.0	178.93	-32.9	232.9	1,425.0	1,403.2	21.84	65.235	
6,500.0	6,244.7	6,327.2	6,319.7	33.0	12.1	178.93	-33.5	237.9	1,451.3	1,429.1	22.19	65.417	
6,600.0	6,339.7	6,423.6	6,416.0	33.6	12.3	178.94	-34.1	242.8	1,477.7	1,455.1	22.53	65.593	
6,700.0	6,434.7	6,520.1	6,512.4	34.2	12.5	178.94	-34.7	247.8	1,504.0	1,481.1	22.87	65.764	
6,800.0	6,529.7	6,616.6	6,608.7	34.8	12.7	178.94	-35.3	252.8	1,530.3	1,507.1	23.21	65.930	
6,900.0	6,624.7	6,713.1	6,705.1	35.4	12.9	178.94	-35.9	257.8	1,556.6	1,533.1	23.55	66.092	
7,000.0	6,719.7	6,809.5	6,801.4	36.0	13.1	178.94	-36.5	262.7	1,583.0	1,559.1	23.89	66.248	
7,100.0	6,814.6	6,906.0	6,897.8	36.6	13.3	178.94	-37.0	267.7	1,609.3	1,585.0	24.24	66.400	
7,200.0	6,909.6	7,002.5	6,994.1	37.2	13.5	178.94	-37.6	272.7	1,635.6	1,611.0	24.58	66.548	
7,225.4	6,933.7	7,026.9	7,018.5	37.3	13.5	178.95	-37.8	273.9	1,642.3	1,617.6	24.66	66.585	
7,250.0	6,957.1	7,050.7	7,042.3	37.5	13.6	-172.91	-37.9	275.2	1,648.7	1,624.0	24.74	66.631	
7,300.0	7,004.6	7,098.9	7,090.4	37.8	13.7	-156.86	-38.2	277.7	1,661.4	1,636.5	24.95	66.588	
7,350.0	7,051.7	7,146.6	7,138.0	38.0	13.8	-142.95	-38.5	280.1	1,673.6	1,648.4	25.20	66.413	
7,400.0	7,098.0	7,192.6	7,184.0	38.3	13.8	-131.89	-38.4	282.5	1,685.2	1,659.7	25.47	66.165	
7,450.0	7,143.3	7,238.0	7,229.2	38.5	13.9	-123.36	-35.3	284.8	1,696.2	1,670.4	25.75	65.863	
7,500.0	7,187.1	7,284.4	7,275.0	38.8	14.0	-116.83	-28.4	287.0	1,706.6	1,680.6	26.05	65.516	
7,550.0	7,229.2	7,332.0	7,321.3	39.0	14.1	-111.81	-17.5	289.2	1,716.4	1,690.0	26.35	65.142	
7,600.0	7,269.2	7,381.0	7,367.8	39.2	14.2	-107.92	-2.3	291.3	1,725.4	1,698.8	26.64	64.758	
7,650.0	7,306.8	7,431.5	7,414.2	39.4	14.3	-104.89	17.4	293.4	1,733.6	1,706.6	26.94	64.347	
7,700.0	7,341.7	7,483.4	7,460.0	39.6	14.4	-102.53	41.9	295.3	1,740.9	1,713.6	27.24	63.915	
7,750.0	7,373.7	7,537.1	7,504.7	39.8	14.6	-100.70	71.4	297.1	1,747.2	1,719.7	27.54	63.443	
7,800.0	7,402.5	7,592.5	7,547.8	39.9	14.7	-99.31	106.2	298.7	1,752.6	1,724.7	27.86	62.908	
7,850.0	7,427.9	7,649.7	7,588.5	40.1	15.0	-98.29	146.3	300.1	1,756.9	1,728.7	28.21	62.284	
7,900.0	7,449.7	7,708.7	7,626.2	40.2	15.2	-97.59	191.7	301.3	1,760.0	1,731.4	28.60	61.529	
7,950.0	7,467.8	7,769.5	7,659.9	40.4	15.6	-97.17	242.2	302.1	1,762.0	1,733.0	29.06	60.630	
8,000.0	7,481.9	7,832.0	7,688.7	40.6	16.0	-97.00	297.6	302.6	1,762.8	1,733.2	29.59	59.574	
8,050.0	7,492.0	7,896.1	7,711.9	40.7	16.5	-97.07	357.4	302.8	1,762.4	1,732.2	30.20	58.360	
8,100.0	7,498.1	7,961.5	7,728.5	40.9	17.0	-97.34	420.6	302.5	1,760.7	1,729.8	30.90	56.982	
8,148.1	7,500.0	8,025.6	7,737.8	41.0	17.7	-97.79	484.0	301.9	1,757.9	1,726.3	31.65	55.535	
8,200.0	7,500.0	8,090.5	7,740.0	41.2	18.3	-97.89	548.8	300.9	1,754.0	1,721.3	32.79	53.488	
8,300.0	7,500.0	8,190.2	7,740.0	41.5	19.5	-97.92	648.5	299.2	1,746.3	1,711.4	34.92	50.011	
8,400.0	7,500.0	8,289.9	7,740.0	42.0	20.7	-97.96	748.2	297.4	1,738.5	1,701.3	37.24	46.682	
8,500.0	7,500.0	8,389.6	7,740.0	42.5	22.0	-98.00	847.8	295.7	1,730.7	1,691.0	39.73	43.559	
8,600.0	7,500.0	8,489.3	7,740.0	43.1	23.3	-98.03	947.5	293.9	1,723.0	1,680.6	42.36	40.672	
8,700.0	7,500.0	8,589.0	7,740.0	43.7	24.7	-98.07	1,047.2	292.2	1,715.2	1,670.1	45.11	38.027	
8,800.0	7,500.0	8,688.7	7,740.0	44.4	26.1	-98.11	1,146.9	290.5	1,707.4	1,659.5	47.94	35.614	
8,900.0	7,500.0	8,788.4	7,740.0	45.2	27.6	-98.14	1,246.5	288.7	1,699.7	1,648.8	50.86	33.420	
9,000.0	7,500.0	8,888.0	7,740.0	46.0	29.1	-98.18	1,346.2	287.0	1,691.9	1,638.1	53.84	31.426	
9,100.0	7,500.0	8,987.7	7,740.0	46.9	30.6	-98.22	1,445.9	285.2	1,684.1	1,627.3	56.87	29.612	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,200.0	7,500.0	9,087.4	7,740.0	47.8	32.2	-98.26	1,545.6	283.5	1,676.4	1,616.4	59.95	27.961		
9,300.0	7,500.0	9,187.1	7,740.0	48.8	33.7	-98.29	1,645.3	281.8	1,668.6	1,605.5	63.07	26.454		
9,400.0	7,500.0	9,286.8	7,740.0	49.8	35.3	-98.33	1,744.9	280.0	1,660.8	1,594.6	66.23	25.077		
9,500.0	7,500.0	9,386.5	7,740.0	50.8	36.9	-98.37	1,844.6	278.3	1,653.1	1,583.7	69.41	23.815		
9,600.0	7,500.0	9,486.2	7,740.0	51.9	38.5	-98.41	1,944.3	276.5	1,645.3	1,572.7	72.62	22.656		
9,700.0	7,500.0	9,585.9	7,740.0	53.1	40.2	-98.45	2,044.0	274.8	1,637.5	1,561.7	75.85	21.589		
9,803.1	7,500.0	9,688.7	7,740.0	54.3	41.9	-98.50	2,146.8	273.0	1,629.5	1,550.3	79.20	20.575		
9,900.0	7,500.0	9,785.3	7,740.0	55.4	43.5	-98.53	2,243.3	271.3	1,622.0	1,539.7	82.36	19.693		
10,000.0	7,500.0	9,885.0	7,740.0	56.6	45.1	-98.58	2,343.0	269.6	1,614.3	1,528.6	85.64	18.849		
10,100.0	7,500.0	9,984.7	7,740.0	57.9	46.8	-98.62	2,442.7	267.8	1,606.5	1,517.6	88.94	18.063		
10,200.0	7,500.0	10,084.3	7,740.0	59.2	48.4	-98.66	2,542.3	266.1	1,598.7	1,506.5	92.24	17.332		
10,300.0	7,500.0	10,184.0	7,740.0	60.5	50.1	-98.70	2,642.0	264.4	1,591.0	1,495.4	95.55	16.650		
10,400.0	7,500.0	10,283.7	7,740.0	61.8	51.8	-98.75	2,741.7	262.6	1,583.2	1,484.4	98.88	16.012		
10,500.0	7,500.0	10,383.4	7,740.0	63.1	53.5	-98.79	2,841.4	260.9	1,575.5	1,473.3	102.21	15.414		
10,600.0	7,500.0	10,483.1	7,740.0	64.5	55.1	-98.83	2,941.0	259.1	1,567.7	1,462.2	105.55	14.853		
10,703.1	7,500.0	10,585.9	7,740.0	65.9	56.9	-98.88	3,043.9	257.3	1,559.7	1,450.7	109.00	14.310		
10,800.0	7,500.0	10,682.6	7,740.0	67.3	58.5	-98.91	3,140.5	255.7	1,553.0	1,440.0	112.98	13.746		
10,900.0	7,500.0	10,782.4	7,740.0	68.8	60.2	-98.93	3,240.3	253.9	1,547.8	1,430.7	117.08	13.220		
11,000.0	7,500.0	10,882.3	7,740.0	70.2	61.9	-98.94	3,340.2	252.2	1,544.3	1,423.1	121.16	12.746		
11,100.0	7,500.0	10,982.3	7,740.0	71.7	63.6	-98.95	3,440.2	250.4	1,542.5	1,417.3	125.22	12.318		
11,153.2	7,500.0	11,035.5	7,740.0	72.5	64.5	-98.95	3,493.3	249.5	1,542.3	1,414.9	127.37	12.109		
11,200.0	7,500.0	11,082.3	7,740.0	73.3	65.3	-98.95	3,540.2	248.7	1,542.5	1,413.2	129.25	11.934		
11,253.1	7,500.0	11,135.5	7,740.0	74.1	66.3	-98.95	3,593.3	247.8	1,543.1	1,411.8	131.38	11.745		
11,300.0	7,500.0	11,182.3	7,740.0	74.8	67.1	-98.94	3,640.1	246.9	1,543.9	1,411.0	132.97	11.611		
11,400.0	7,500.0	11,282.3	7,740.0	76.3	68.8	-98.93	3,740.1	245.2	1,545.7	1,409.3	136.37	11.334		
11,500.0	7,500.0	11,382.3	7,740.0	77.9	70.5	-98.92	3,840.1	243.4	1,547.4	1,407.6	139.77	11.071		
11,600.0	7,500.0	11,482.3	7,740.0	79.5	72.2	-98.91	3,940.1	241.7	1,549.1	1,405.9	143.17	10.820		
11,700.0	7,500.0	11,582.3	7,740.0	81.0	73.9	-98.90	4,040.0	240.0	1,550.8	1,404.3	146.58	10.580		
11,800.0	7,500.0	11,682.2	7,740.0	82.6	75.6	-98.89	4,140.0	238.2	1,552.6	1,402.6	149.99	10.351		
11,900.0	7,500.0	11,782.2	7,740.0	84.2	77.4	-98.88	4,240.0	236.5	1,554.3	1,400.9	153.40	10.132		
12,000.0	7,500.0	11,882.2	7,740.0	85.8	79.1	-98.87	4,339.9	234.7	1,556.0	1,399.2	156.82	9.922		
12,100.0	7,500.0	11,982.2	7,740.0	87.4	80.8	-98.86	4,439.9	233.0	1,557.7	1,397.5	160.24	9.721		
12,200.0	7,500.0	12,082.2	7,740.0	89.0	82.5	-98.85	4,539.9	231.2	1,559.5	1,395.8	163.66	9.529		
12,300.0	7,500.0	12,182.2	7,740.0	90.6	84.3	-98.84	4,639.8	229.5	1,561.2	1,394.1	167.08	9.344		
12,400.0	7,500.0	12,282.2	7,740.0	92.2	86.0	-98.83	4,739.8	227.7	1,562.9	1,392.4	170.51	9.166		
12,500.0	7,500.0	12,382.1	7,740.0	93.8	87.7	-98.82	4,839.8	226.0	1,564.6	1,390.7	173.93	8.996		
12,600.0	7,500.0	12,482.1	7,740.0	95.5	89.5	-98.81	4,939.8	224.3	1,566.4	1,389.0	177.36	8.831		
12,700.0	7,500.0	12,582.1	7,740.0	97.1	91.2	-98.81	5,039.7	222.5	1,568.1	1,387.3	180.79	8.673		
12,800.0	7,500.0	12,682.1	7,740.0	98.7	92.9	-98.80	5,139.7	220.8	1,569.8	1,385.6	184.23	8.521		
12,900.0	7,500.0	12,782.1	7,740.0	100.4	94.7	-98.79	5,239.7	219.0	1,571.5	1,383.9	187.66	8.374		
13,000.0	7,500.0	12,882.1	7,740.0	102.0	96.4	-98.78	5,339.6	217.3	1,573.3	1,382.2	191.10	8.233		
13,100.0	7,500.0	12,982.0	7,740.0	103.7	98.1	-98.77	5,439.6	215.5	1,575.0	1,380.4	194.53	8.096		
13,200.0	7,500.0	13,082.0	7,740.0	105.3	99.9	-98.76	5,539.6	213.8	1,576.7	1,378.7	197.97	7.964		
13,300.0	7,500.0	13,182.0	7,740.0	107.0	101.6	-98.75	5,639.5	212.0	1,578.4	1,377.0	201.41	7.837		
13,400.0	7,500.0	13,282.0	7,740.0	108.6	103.3	-98.74	5,739.5	210.3	1,580.2	1,375.3	204.85	7.714		
13,500.0	7,500.0	13,382.0	7,740.0	110.3	105.1	-98.73	5,839.5	208.6	1,581.9	1,373.6	208.29	7.594		
13,600.0	7,500.0	13,482.0	7,740.0	111.9	106.8	-98.72	5,939.4	206.8	1,583.6	1,371.9	211.74	7.479		
13,700.0	7,500.0	13,582.0	7,740.0	113.6	108.5	-98.71	6,039.4	205.1	1,585.3	1,370.1	215.18	7.367		
13,753.1	7,500.0	13,635.1	7,740.0	114.5	109.5	-98.70	6,092.5	204.1	1,586.2	1,369.2	217.01	7.309		
13,800.0	7,500.0	13,681.9	7,740.0	115.3	110.3	-98.70	6,139.4	203.3	1,587.3	1,368.3	218.93	7.250		
13,900.0	7,500.0	13,781.9	7,740.0	117.0	112.0	-98.69	6,239.3	201.6	1,590.8	1,367.9	222.97	7.135		
14,000.0	7,500.0	13,881.7	7,740.0	118.7	113.8	-98.67	6,339.1	199.8	1,596.3	1,369.3	226.93	7.034		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4					Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
14,100.0	7,500.0	13,981.4	7,740.0	120.4	115.5	-98.64	6,438.8	198.1	1,603.6	1,372.8	230.82	6.947						
14,200.0	7,500.0	14,080.0	7,740.0	122.1	117.2	-98.60	6,537.4	196.4	1,612.8	1,378.2	234.60	6.875						
14,300.0	7,500.0	14,157.6	7,740.0	123.8	118.6	-98.57	6,615.0	194.4	1,624.7	1,386.7	237.94	6.828						
14,400.0	7,500.0	14,234.7	7,740.0	125.6	119.9	-98.54	6,692.0	191.5	1,639.7	1,398.5	241.19	6.798						
14,500.0	7,500.0	14,311.2	7,740.0	127.3	121.2	-98.49	6,768.4	187.5	1,657.9	1,413.6	244.33	6.785						
14,600.0	7,500.0	14,401.1	7,740.0	129.1	122.8	-98.43	6,858.1	181.9	1,679.0	1,431.4	247.62	6.780 SF						
14,683.9	7,500.0	14,482.7	7,740.0	130.5	124.2	-98.36	6,939.6	176.8	1,698.2	1,447.8	250.42	6.781						
14,700.0	7,500.0	14,498.4	7,740.0	130.8	124.5	-98.34	6,955.2	175.8	1,702.0	1,451.0	250.98	6.782						
14,756.3	7,500.0	14,553.0	7,740.0	131.8	125.4	-98.28	7,009.7	172.3	1,715.3	1,462.4	252.91	6.782						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
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	-89.48	0.4	-40.0	40.0				
100.0	100.0	100.0	100.0	0.2	0.2	-89.48	0.4	-40.0	40.0	39.7	0.30	131.795	CC, ES
200.0	200.0	200.0	200.0	0.3	0.3	-89.48	0.4	-40.0	40.0	39.4	0.65	61.316	
300.0	300.0	300.0	300.0	0.5	0.5	178.75	0.4	-40.0	40.9	39.9	1.00	40.827	
400.0	400.0	400.0	400.0	0.7	0.7	178.83	0.4	-40.0	43.5	42.2	1.35	32.223	
500.0	499.9	499.9	499.9	0.9	0.8	178.93	0.4	-40.0	47.9	46.2	1.70	28.186	
600.0	599.7	600.6	600.6	1.1	1.0	178.96	0.3	-39.1	53.1	51.1	2.05	25.935	
700.0	699.4	701.4	701.4	1.3	1.2	178.84	0.0	-36.5	58.3	55.9	2.40	24.339	
800.0	798.9	802.4	802.2	1.5	1.4	178.62	-0.5	-32.1	63.6	60.8	2.75	23.149	
900.0	898.3	903.4	903.1	1.8	1.6	178.31	-1.2	-25.9	68.8	65.7	3.09	22.226	
1,000.0	997.4	1,004.5	1,003.9	2.0	1.8	177.93	-2.1	-18.0	74.0	70.5	3.44	21.487	
1,100.0	1,096.3	1,104.6	1,103.6	2.3	2.0	177.55	-3.1	-8.9	79.7	75.9	3.79	21.035	
1,200.0	1,194.9	1,204.4	1,202.9	2.7	2.2	177.27	-4.1	0.2	87.2	83.0	4.14	21.076	
1,300.0	1,293.3	1,303.9	1,302.0	3.0	2.4	177.09	-5.2	9.3	96.3	91.9	4.48	21.504	
1,400.0	1,391.2	1,403.3	1,401.0	3.4	2.7	176.99	-6.2	18.4	107.2	102.4	4.82	22.235	
1,500.0	1,488.9	1,502.5	1,499.8	3.8	2.9	176.95	-7.2	27.4	119.9	114.7	5.17	23.212	
1,600.0	1,586.1	1,601.5	1,598.3	4.3	3.1	176.95	-8.2	36.4	134.3	128.8	5.51	24.388	
1,700.0	1,682.9	1,700.2	1,696.6	4.7	3.3	176.99	-9.2	45.4	150.4	144.5	5.84	25.731	
1,800.0	1,779.3	1,798.6	1,794.6	5.2	3.6	177.05	-10.2	54.4	168.2	162.0	6.18	27.214	
1,900.0	1,875.2	1,896.7	1,892.2	5.8	3.8	177.12	-11.2	63.3	187.7	181.2	6.51	28.817	
2,000.0	1,970.5	1,994.4	1,989.6	6.3	4.0	177.20	-12.2	72.3	208.9	202.1	6.84	30.524	
2,022.8	1,992.2	2,016.6	2,011.6	6.4	4.1	177.22	-12.4	74.3	214.0	207.1	6.92	30.925	
2,100.0	2,065.5	2,091.8	2,086.6	6.9	4.2	177.29	-13.2	81.1	231.3	224.2	7.19	32.187	
2,200.0	2,160.5	2,189.3	2,183.6	7.5	4.5	177.36	-14.2	90.0	253.8	246.3	7.53	33.688	
2,300.0	2,255.5	2,286.7	2,280.7	8.0	4.7	177.42	-15.2	98.9	276.3	268.4	7.88	35.057	
2,400.0	2,350.5	2,384.2	2,377.7	8.6	4.9	177.48	-16.2	107.8	298.8	290.5	8.23	36.311	
2,500.0	2,445.5	2,481.6	2,474.7	9.2	5.2	177.52	-17.2	116.7	321.2	312.7	8.57	37.464	
2,600.0	2,540.4	2,579.0	2,571.7	9.8	5.4	177.56	-18.2	125.6	343.7	334.8	8.92	38.527	
2,700.0	2,635.4	2,676.5	2,668.8	10.4	5.6	177.60	-19.2	134.5	366.2	356.9	9.27	39.512	
2,800.0	2,730.4	2,773.9	2,765.8	11.0	5.8	177.63	-20.2	143.3	388.6	379.0	9.61	40.425	
2,900.0	2,825.4	2,871.4	2,862.8	11.6	6.1	177.65	-21.2	152.2	411.1	401.2	9.96	41.275	
3,000.0	2,920.4	2,968.8	2,959.9	12.2	6.3	177.68	-22.2	161.1	433.6	423.3	10.31	42.069	
3,100.0	3,015.4	3,066.3	3,056.9	12.8	6.5	177.70	-23.2	170.0	456.1	445.4	10.65	42.810	
3,200.0	3,110.3	3,163.7	3,153.9	13.3	6.8	177.72	-24.2	178.9	478.5	467.5	11.00	43.506	
3,300.0	3,205.3	3,261.1	3,251.0	13.9	7.0	177.74	-25.2	187.8	501.0	489.7	11.35	44.158	
3,400.0	3,300.3	3,358.6	3,348.0	14.5	7.2	177.76	-26.2	196.7	523.5	511.8	11.69	44.773	
3,500.0	3,395.3	3,456.0	3,445.0	15.1	7.5	177.77	-27.2	205.5	545.9	533.9	12.04	45.352	
3,600.0	3,490.3	3,553.5	3,542.1	15.7	7.7	177.78	-28.2	214.4	568.4	556.0	12.38	45.899	
3,700.0	3,585.2	3,650.9	3,639.1	16.3	7.9	177.80	-29.1	223.3	590.9	578.2	12.73	46.416	
3,800.0	3,680.2	3,748.3	3,736.1	16.9	8.1	177.81	-30.1	232.2	613.4	600.3	13.08	46.905	
3,900.0	3,775.2	3,845.8	3,833.2	17.5	8.4	177.82	-31.1	241.1	635.8	622.4	13.42	47.370	
4,000.0	3,870.2	3,943.2	3,930.2	18.1	8.6	177.83	-32.1	250.0	658.3	644.5	13.77	47.811	
4,100.0	3,965.2	4,040.7	4,027.2	18.7	8.8	177.84	-33.1	258.9	680.8	666.7	14.11	48.231	
4,200.0	4,060.2	4,138.1	4,124.3	19.3	9.1	177.85	-34.1	267.7	703.2	688.8	14.46	48.631	
4,300.0	4,155.1	4,235.6	4,221.3	19.9	9.3	177.86	-35.1	276.6	725.7	710.9	14.81	49.012	
4,400.0	4,250.1	4,333.0	4,318.3	20.5	9.5	177.87	-36.1	285.5	748.2	733.0	15.15	49.375	
4,500.0	4,345.1	4,430.4	4,415.3	21.1	9.8	177.87	-37.1	294.4	770.7	755.2	15.50	49.723	
4,600.0	4,440.1	4,527.9	4,512.4	21.7	10.0	177.88	-38.1	303.3	793.1	777.3	15.85	50.055	
4,700.0	4,535.1	4,625.3	4,609.4	22.3	10.2	177.89	-39.1	312.2	815.6	799.4	16.19	50.373	
4,800.0	4,630.1	4,722.8	4,706.4	22.9	10.4	177.89	-40.1	321.1	838.1	821.5	16.54	50.678	
4,900.0	4,725.0	4,820.2	4,803.5	23.5	10.7	177.90	-41.1	329.9	860.5	843.7	16.88	50.970	
5,000.0	4,820.0	4,917.7	4,900.5	24.1	10.9	177.91	-42.1	338.8	883.0	865.8	17.23	51.251	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	4,915.0	5,015.1	4,997.5	24.6	11.1	177.91	-43.1	347.7	905.5	887.9	17.58	51.520	
5,200.0	5,010.0	5,112.5	5,094.6	25.2	11.4	177.92	-44.1	356.6	928.0	910.0	17.92	51.780	
5,300.0	5,105.0	5,210.0	5,191.6	25.8	11.6	177.92	-45.1	365.5	950.4	932.2	18.27	52.029	
5,400.0	5,199.9	5,307.4	5,288.6	26.4	11.8	177.93	-46.1	374.4	972.9	954.3	18.61	52.269	
5,500.0	5,294.9	5,404.9	5,385.7	27.0	12.1	177.93	-47.1	383.3	995.4	976.4	18.96	52.501	
5,600.0	5,389.9	5,502.3	5,482.7	27.6	12.3	177.93	-48.1	392.1	1,017.8	998.5	19.31	52.724	
5,700.0	5,484.9	5,599.8	5,579.7	28.2	12.5	177.94	-49.1	401.0	1,040.3	1,020.7	19.65	52.939	
5,800.0	5,579.9	5,697.2	5,676.8	28.8	12.8	177.94	-50.1	409.9	1,062.8	1,042.8	20.00	53.147	
5,900.0	5,674.9	5,794.6	5,773.8	29.4	13.0	177.95	-51.1	418.8	1,085.3	1,064.9	20.34	53.348	
6,000.0	5,769.8	5,892.1	5,870.8	30.0	13.2	177.95	-52.1	427.7	1,107.7	1,087.0	20.69	53.542	
6,100.0	5,864.8	5,989.5	5,967.8	30.6	13.4	177.95	-53.1	436.6	1,130.2	1,109.2	21.04	53.729	
6,200.0	5,959.8	6,087.0	6,064.9	31.2	13.7	177.96	-54.0	445.5	1,152.7	1,131.3	21.38	53.911	
6,300.0	6,054.8	6,184.4	6,161.9	31.8	13.9	177.96	-55.0	454.3	1,175.1	1,153.4	21.73	54.087	
6,400.0	6,149.8	6,281.9	6,258.9	32.4	14.1	177.96	-56.0	463.2	1,197.6	1,175.5	22.07	54.257	
6,500.0	6,244.7	6,379.3	6,356.0	33.0	14.4	177.97	-57.0	472.1	1,220.1	1,197.7	22.42	54.422	
6,600.0	6,339.7	6,476.7	6,453.0	33.6	14.6	177.97	-58.0	481.0	1,242.6	1,219.8	22.76	54.583	
6,700.0	6,434.7	6,574.2	6,550.0	34.2	14.8	177.97	-59.0	489.9	1,265.0	1,241.9	23.11	54.738	
6,800.0	6,529.7	6,671.6	6,647.1	34.8	15.1	177.97	-60.0	498.8	1,287.5	1,264.0	23.46	54.889	
6,900.0	6,624.7	6,769.1	6,744.1	35.4	15.3	177.98	-61.0	507.7	1,310.0	1,286.2	23.80	55.035	
7,000.0	6,719.7	6,866.5	6,841.1	36.0	15.5	177.98	-62.0	516.5	1,332.5	1,308.3	24.15	55.177	
7,100.0	6,814.6	6,964.4	6,938.6	36.6	15.8	177.99	-62.8	525.5	1,354.9	1,330.4	24.49	55.319	
7,200.0	6,909.6	7,063.6	7,036.8	37.2	16.0	178.46	-52.8	534.6	1,377.3	1,352.5	24.79	55.555	
7,225.4	6,933.7	7,087.9	7,060.5	37.3	16.0	178.69	-47.7	536.8	1,383.0	1,358.1	24.86	55.629	
7,250.0	6,957.1	7,111.3	7,082.9	37.5	16.1	-173.02	-41.9	538.9	1,388.5	1,363.5	24.92	55.709	
7,300.0	7,004.6	7,158.0	7,127.2	37.8	16.2	-156.57	-27.6	543.1	1,399.3	1,374.2	25.13	55.674	
7,350.0	7,051.7	7,204.1	7,169.6	38.0	16.3	-142.13	-9.9	547.2	1,409.7	1,384.2	25.45	55.391	
7,400.0	7,098.0	7,250.0	7,210.2	38.3	16.4	-130.45	11.0	551.1	1,419.5	1,393.6	25.86	54.889	
7,450.0	7,143.3	7,294.5	7,247.9	38.5	16.5	-121.32	34.4	554.8	1,428.7	1,402.4	26.34	54.244	
7,500.0	7,187.1	7,338.9	7,283.6	38.8	16.6	-114.22	60.5	558.4	1,437.2	1,410.3	26.86	53.511	
7,550.0	7,229.2	7,382.8	7,316.9	39.0	16.8	-108.64	89.1	561.7	1,444.9	1,417.5	27.39	52.752	
7,600.0	7,269.2	7,426.4	7,347.5	39.2	16.9	-104.22	119.7	564.9	1,451.7	1,423.8	27.91	52.011	
7,650.0	7,306.8	7,469.5	7,375.5	39.4	17.1	-100.67	152.4	567.8	1,457.6	1,429.2	28.40	51.320	
7,700.0	7,341.7	7,512.2	7,400.8	39.6	17.3	-97.81	186.7	570.5	1,462.6	1,433.8	28.85	50.694	
7,750.0	7,373.7	7,554.6	7,423.3	39.8	17.6	-95.50	222.6	572.9	1,466.6	1,437.3	29.25	50.137	
7,800.0	7,402.5	7,600.0	7,444.3	39.9	17.8	-93.65	262.7	575.2	1,469.5	1,439.9	29.63	49.589	
7,850.0	7,427.9	7,638.4	7,459.6	40.1	18.1	-92.22	297.9	577.0	1,471.4	1,441.5	29.92	49.178	
7,900.0	7,449.7	7,679.9	7,473.5	40.2	18.4	-91.13	337.0	578.7	1,472.2	1,442.0	30.20	48.749	
7,950.0	7,467.8	7,721.1	7,484.4	40.4	18.7	-90.35	376.7	580.1	1,471.9	1,441.4	30.46	48.328	
8,000.0	7,481.9	7,762.1	7,492.5	40.6	19.0	-89.87	416.8	581.3	1,470.5	1,439.8	30.70	47.891	
8,050.0	7,492.0	7,800.0	7,497.4	40.7	19.3	-89.66	454.4	582.1	1,468.0	1,437.1	30.93	47.464	
8,100.0	7,498.1	7,843.4	7,499.9	40.9	19.7	-89.69	497.7	582.8	1,464.4	1,433.2	31.23	46.888	
8,148.1	7,500.0	7,888.5	7,500.0	41.0	20.2	-90.00	542.8	583.3	1,459.9	1,428.4	31.59	46.216	
8,200.0	7,500.0	7,940.1	7,500.0	41.2	20.7	-90.00	594.4	583.8	1,454.4	1,421.8	32.64	44.559	
8,300.0	7,500.0	8,039.5	7,500.0	41.5	21.8	-90.00	693.8	584.9	1,443.8	1,409.0	34.83	41.459	
8,400.0	7,500.0	8,138.9	7,500.0	42.0	22.9	-90.00	793.2	585.9	1,433.2	1,396.0	37.21	38.515	
8,500.0	7,500.0	8,238.4	7,500.0	42.5	24.2	-90.00	892.7	586.9	1,422.6	1,382.8	39.76	35.776	
8,600.0	7,500.0	8,337.8	7,500.0	43.1	25.5	-90.00	992.1	588.0	1,411.9	1,369.5	42.45	33.261	
8,700.0	7,500.0	8,437.2	7,500.0	43.7	26.8	-90.00	1,091.5	589.0	1,401.3	1,356.1	45.25	30.969	
8,800.0	7,500.0	8,536.7	7,500.0	44.4	28.2	-90.00	1,190.9	590.1	1,390.7	1,342.5	48.14	28.889	
8,900.0	7,500.0	8,636.1	7,500.0	45.2	29.6	-90.00	1,290.4	591.1	1,380.0	1,328.9	51.11	27.004	
9,000.0	7,500.0	8,735.5	7,500.0	46.0	31.1	-90.00	1,389.8	592.2	1,369.4	1,315.3	54.14	25.296	
9,100.0	7,500.0	8,835.0	7,500.0	46.9	32.5	-90.00	1,489.2	593.2	1,358.8	1,301.6	57.22	23.747	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,200.0	7,500.0	8,934.4	7,500.0	47.8	34.0	-90.00	1,588.6	594.2	1,348.2	1,287.8	60.35	22.340	
9,300.0	7,500.0	9,033.8	7,500.0	48.8	35.6	-90.00	1,688.1	595.3	1,337.5	1,274.0	63.52	21.058	
9,400.0	7,500.0	9,133.3	7,500.0	49.8	37.1	-90.00	1,787.5	596.3	1,326.9	1,260.2	66.72	19.889	
9,500.0	7,500.0	9,232.7	7,500.0	50.8	38.7	-90.00	1,886.9	597.4	1,316.3	1,246.3	69.95	18.819	
9,600.0	7,500.0	9,332.1	7,500.0	51.9	40.3	-90.00	1,986.4	598.4	1,305.7	1,232.5	73.20	17.837	
9,700.0	7,500.0	9,431.6	7,500.0	53.1	41.9	-90.00	2,085.8	599.4	1,295.0	1,218.6	76.47	16.934	
9,803.1	7,500.0	9,534.1	7,500.0	54.3	43.5	-90.00	2,188.3	600.5	1,284.1	1,204.2	79.87	16.076	
9,900.0	7,500.0	9,630.4	7,500.0	55.4	45.1	-90.00	2,284.6	601.5	1,273.8	1,190.7	83.08	15.332	
10,000.0	7,500.0	9,729.9	7,500.0	56.6	46.7	-90.00	2,384.1	602.6	1,263.2	1,176.8	86.41	14.619	
10,100.0	7,500.0	9,829.3	7,500.0	57.9	48.3	-90.00	2,483.5	603.6	1,252.5	1,162.8	89.74	13.957	
10,200.0	7,500.0	9,928.7	7,500.0	59.2	50.0	-90.00	2,582.9	604.7	1,241.9	1,148.8	93.09	13.340	
10,300.0	7,500.0	10,028.2	7,500.0	60.5	51.6	-90.00	2,682.4	605.7	1,231.3	1,134.8	96.45	12.765	
10,400.0	7,500.0	10,113.3	7,500.0	61.8	53.0	-90.00	2,767.5	606.2	1,221.1	1,121.5	99.58	12.262	
10,500.0	7,500.0	10,200.0	7,500.0	63.1	54.5	-90.00	2,854.2	605.4	1,212.4	1,109.6	102.75	11.799	
10,600.0	7,500.0	10,277.8	7,500.0	64.5	55.8	-90.00	2,932.0	603.6	1,205.1	1,099.3	105.77	11.393	
10,703.1	7,500.0	10,363.0	7,500.0	65.9	57.2	-90.00	3,017.0	600.4	1,199.0	1,090.0	108.98	11.002	
10,800.0	7,500.0	10,443.0	7,500.0	67.3	58.5	-90.00	3,097.0	596.3	1,195.6	1,082.7	112.85	10.594	
10,867.2	7,500.0	10,500.0	7,500.0	68.3	59.5	-90.00	3,153.9	592.7	1,194.9	1,079.4	115.55	10.342	
10,900.0	7,500.0	10,525.8	7,500.0	68.8	59.9	-90.00	3,179.6	590.8	1,195.1	1,078.3	116.82	10.230	
11,000.0	7,500.0	10,600.0	7,500.0	70.2	61.1	-90.00	3,253.6	584.9	1,197.9	1,077.3	120.62	9.931	
11,100.0	7,500.0	10,691.0	7,500.0	71.7	62.6	-90.00	3,344.1	576.4	1,203.8	1,079.1	124.68	9.656	
11,200.0	7,500.0	10,773.2	7,500.0	73.3	64.0	-90.00	3,425.9	567.4	1,212.9	1,084.4	128.55	9.436	
11,253.1	7,500.0	10,816.8	7,500.0	74.1	64.7	-90.00	3,469.1	562.2	1,219.1	1,088.5	130.58	9.335	
11,300.0	7,500.0	10,855.1	7,500.0	74.8	65.3	-90.00	3,507.1	557.3	1,225.0	1,093.0	132.04	9.277	
11,400.0	7,500.0	10,943.2	7,500.0	76.3	66.8	-90.00	3,594.4	545.3	1,238.6	1,103.4	135.27	9.157	
11,500.0	7,500.0	11,042.2	7,500.0	77.9	68.4	-90.00	3,692.4	531.5	1,252.6	1,113.9	138.68	9.032	
11,600.0	7,500.0	11,141.2	7,500.0	79.5	70.1	-90.00	3,790.5	517.7	1,266.5	1,124.4	142.10	8.913	
11,700.0	7,500.0	11,240.2	7,500.0	81.0	71.7	-90.00	3,888.6	503.9	1,280.4	1,134.9	145.52	8.799	
11,800.0	7,500.0	11,363.5	7,500.0	82.6	73.8	-90.00	4,010.8	487.8	1,293.5	1,144.2	149.36	8.660	
11,900.0	7,500.0	11,492.0	7,500.0	84.2	76.0	-90.00	4,138.5	473.7	1,304.5	1,151.2	153.30	8.509	
12,000.0	7,500.0	11,621.2	7,500.0	85.8	78.2	-90.00	4,267.2	462.5	1,313.2	1,155.9	157.26	8.350	
12,100.0	7,500.0	11,750.7	7,500.0	87.4	80.4	-90.00	4,396.4	454.1	1,319.6	1,158.4	161.23	8.185	
12,200.0	7,500.0	11,880.6	7,500.0	89.0	82.6	-90.00	4,526.2	448.7	1,323.8	1,158.6	165.21	8.013	
12,300.0	7,500.0	12,010.7	7,500.0	90.6	84.8	-90.00	4,656.2	446.1	1,325.8	1,156.6	169.19	7.836	
12,400.0	7,500.0	12,140.8	7,500.0	92.2	87.1	-90.00	4,786.3	446.6	1,325.4	1,152.3	173.18	7.654	
12,500.0	7,500.0	12,247.3	7,500.0	93.8	88.9	-90.00	4,892.9	448.6	1,323.5	1,146.8	176.76	7.488	
12,600.0	7,500.0	12,347.3	7,500.0	95.5	90.7	-90.00	4,992.8	450.6	1,321.5	1,141.3	180.22	7.333	
12,700.0	7,500.0	12,447.3	7,500.0	97.1	92.4	-90.00	5,092.8	452.6	1,319.6	1,135.9	183.69	7.184	
12,800.0	7,500.0	12,547.3	7,500.0	98.7	94.1	-90.00	5,192.8	454.5	1,317.6	1,130.4	187.16	7.040	
12,900.0	7,500.0	12,647.2	7,500.0	100.4	95.9	-90.00	5,292.7	456.5	1,315.6	1,125.0	190.63	6.901	
13,000.0	7,500.0	12,747.2	7,500.0	102.0	97.6	-90.00	5,392.7	458.5	1,313.7	1,119.5	194.11	6.768	
13,100.0	7,500.0	12,847.2	7,500.0	103.7	99.3	-90.00	5,492.6	460.5	1,311.7	1,114.1	197.58	6.639	
13,200.0	7,500.0	12,947.2	7,500.0	105.3	101.1	-90.00	5,592.6	462.4	1,309.7	1,108.7	201.06	6.514	
13,300.0	7,500.0	13,047.2	7,500.0	107.0	102.8	-90.00	5,692.6	464.4	1,307.7	1,103.2	204.53	6.394	
13,400.0	7,500.0	13,147.1	7,500.0	108.6	104.5	-90.00	5,792.5	466.4	1,305.8	1,097.8	208.01	6.277	
13,500.0	7,500.0	13,247.1	7,500.0	110.3	106.3	-90.00	5,892.5	468.3	1,303.8	1,092.3	211.49	6.165	
13,600.0	7,500.0	13,347.1	7,500.0	111.9	108.0	-90.00	5,992.4	470.3	1,301.8	1,086.9	214.97	6.056	
13,700.0	7,500.0	13,447.1	7,500.0	113.6	109.7	-90.00	6,092.4	472.3	1,299.8	1,081.4	218.45	5.950	
13,753.1	7,500.0	13,500.2	7,500.0	114.5	110.7	-90.00	6,145.5	473.3	1,298.8	1,078.5	220.30	5.896	
13,800.0	7,500.0	13,547.1	7,500.0	115.3	111.5	-90.00	6,192.4	474.3	1,298.1	1,075.8	222.28	5.840	
13,856.2	7,500.0	13,603.3	7,500.0	116.2	112.5	-90.00	6,248.6	475.4	1,297.8	1,073.2	224.63	5.777	
13,900.0	7,500.0	13,647.1	7,500.0	117.0	113.2	-90.00	6,292.3	476.2	1,298.0	1,071.5	226.45	5.732	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
14,000.0	7,500.0	13,747.0	7,500.0	118.7	115.0	-90.00	6,392.3	478.2	1,299.8	1,069.2	230.55	5.638						
14,100.0	7,500.0	13,847.0	7,500.0	120.4	116.7	-90.00	6,492.2	480.2	1,303.5	1,068.9	234.57	5.557						
14,200.0	7,500.0	13,946.8	7,500.0	122.1	118.4	-90.00	6,592.0	482.1	1,309.1	1,070.6	238.50	5.489						
14,300.0	7,500.0	14,046.5	7,500.0	123.8	120.2	-90.00	6,691.7	484.1	1,316.6	1,074.3	242.34	5.433						
14,400.0	7,500.0	14,146.1	7,500.0	125.6	121.9	-90.00	6,791.3	486.1	1,326.1	1,080.0	246.10	5.388						
14,500.0	7,500.0	14,245.4	7,500.0	127.3	123.6	-90.00	6,890.6	488.0	1,337.4	1,087.6	249.76	5.355						
14,600.0	7,500.0	14,344.6	7,500.0	129.1	125.4	-90.00	6,989.7	490.0	1,350.6	1,097.3	253.32	5.332						
14,683.9	7,500.0	14,427.5	7,500.0	130.5	126.8	-90.00	7,072.6	491.6	1,363.2	1,107.0	256.23	5.320						
14,700.0	7,500.0	14,443.4	7,500.0	130.8	127.1	-90.00	7,088.5	491.9	1,365.7	1,108.9	256.79	5.318 SF						
14,756.3	7,500.0	14,455.0	7,500.0	131.8	127.3	-90.00	7,100.1	492.2	1,375.3	1,117.3	257.98	5.331						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.30	0.4	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.30	0.4	-29.9	29.9	29.6	0.30	98.619		
200.0	200.0	200.0	200.0	0.3	0.3	-89.30	0.4	-29.9	29.9	29.3	0.65	45.882 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.93	0.4	-29.9	30.8	29.8	1.00	30.769		
400.0	400.0	400.0	400.0	0.7	0.7	179.01	0.4	-29.9	33.4	32.1	1.35	24.763		
500.0	499.9	500.5	500.5	0.9	0.9	179.05	0.3	-29.1	36.9	35.2	1.70	21.724		
600.0	599.7	601.1	601.1	1.1	1.0	178.99	0.1	-26.4	40.4	38.4	2.05	19.720		
700.0	699.4	701.8	701.7	1.3	1.2	178.85	-0.2	-22.0	43.9	41.5	2.40	18.298		
800.0	798.9	802.6	802.2	1.5	1.4	178.64	-0.6	-15.8	47.3	44.6	2.75	17.235		
900.0	898.3	903.4	902.7	1.8	1.6	178.39	-1.2	-7.9	50.8	47.7	3.10	16.409		
1,000.0	997.4	1,004.2	1,003.1	2.0	1.8	178.09	-1.9	1.8	54.2	50.8	3.44	15.748		
1,100.0	1,096.3	1,104.9	1,103.1	2.3	2.1	177.77	-2.7	13.2	57.7	53.9	3.79	15.226		
1,200.0	1,194.9	1,204.7	1,202.3	2.7	2.3	177.52	-3.5	24.9	62.5	58.4	4.14	15.110		
1,300.0	1,293.3	1,304.5	1,301.4	3.0	2.6	177.37	-4.3	36.6	69.1	64.6	4.48	15.404		
1,400.0	1,391.2	1,404.2	1,400.3	3.4	2.8	177.31	-5.1	48.4	77.3	72.5	4.83	16.019		
1,500.0	1,488.9	1,503.7	1,499.1	3.8	3.1	177.32	-6.0	60.1	87.3	82.2	5.17	16.893		
1,600.0	1,586.1	1,603.0	1,597.7	4.3	3.4	177.37	-6.8	71.7	99.1	93.6	5.51	17.979		
1,700.0	1,682.9	1,702.1	1,696.1	4.7	3.6	177.44	-7.6	83.4	112.6	106.7	5.85	19.239		
1,800.0	1,779.3	1,800.9	1,794.3	5.2	3.9	177.54	-8.4	95.0	127.7	121.6	6.19	20.647		
1,900.0	1,875.2	1,899.5	1,892.2	5.8	4.1	177.64	-9.2	106.6	144.7	138.1	6.52	22.181		
2,000.0	1,970.5	1,997.7	1,989.7	6.3	4.4	177.74	-10.0	118.1	163.3	156.4	6.85	23.824		
2,022.8	1,992.2	2,020.0	2,011.9	6.4	4.5	177.76	-10.2	120.7	167.8	160.9	6.93	24.211		
2,100.0	2,065.5	2,095.7	2,087.1	6.9	4.7	177.84	-10.8	129.6	183.1	175.9	7.20	25.441		
2,200.0	2,160.5	2,193.7	2,184.4	7.5	4.9	177.92	-11.6	141.2	203.0	195.5	7.55	26.904		
2,300.0	2,255.5	2,291.7	2,281.7	8.0	5.2	177.99	-12.5	152.7	222.9	215.0	7.89	28.238		
2,400.0	2,350.5	2,389.7	2,379.0	8.6	5.4	178.05	-13.3	164.2	242.8	234.5	8.24	29.460		
2,500.0	2,445.5	2,487.7	2,476.3	9.2	5.7	178.10	-14.1	175.7	262.7	254.1	8.59	30.583		
2,600.0	2,540.4	2,585.7	2,573.7	9.8	6.0	178.14	-14.9	187.2	282.6	273.6	8.94	31.619		
2,700.0	2,635.4	2,683.7	2,671.0	10.4	6.2	178.17	-15.7	198.8	302.4	293.2	9.28	32.578		
2,800.0	2,730.4	2,781.7	2,768.3	11.0	6.5	178.21	-16.5	210.3	322.3	312.7	9.63	33.468		
2,900.0	2,825.4	2,879.7	2,865.6	11.6	6.8	178.23	-17.3	221.8	342.2	332.2	9.98	34.296		
3,000.0	2,920.4	2,977.7	2,962.9	12.2	7.0	178.26	-18.1	233.3	362.1	351.8	10.32	35.069		
3,100.0	3,015.4	3,075.8	3,060.3	12.8	7.3	178.28	-18.9	244.8	382.0	371.3	10.67	35.791		
3,200.0	3,110.3	3,173.8	3,157.6	13.3	7.5	178.30	-19.7	256.3	401.8	390.8	11.02	36.468		
3,300.0	3,205.3	3,271.8	3,254.9	13.9	7.8	178.32	-20.5	267.9	421.7	410.4	11.37	37.104		
3,400.0	3,300.3	3,369.8	3,352.2	14.5	8.1	178.34	-21.3	279.4	441.6	429.9	11.71	37.702		
3,500.0	3,395.3	3,467.8	3,449.5	15.1	8.3	178.35	-22.2	290.9	461.5	449.4	12.06	38.266		
3,600.0	3,490.3	3,565.8	3,546.9	15.7	8.6	178.37	-23.0	302.4	481.4	469.0	12.41	38.798		
3,700.0	3,585.2	3,663.8	3,644.2	16.3	8.9	178.38	-23.8	313.9	501.3	488.5	12.75	39.301		
3,800.0	3,680.2	3,761.8	3,741.5	16.9	9.1	178.39	-24.6	325.5	521.2	508.0	13.10	39.778		
3,900.0	3,775.2	3,859.8	3,838.8	17.5	9.4	178.40	-25.4	337.0	541.0	527.6	13.45	40.231		
4,000.0	3,870.2	3,957.8	3,936.1	18.1	9.7	178.41	-26.2	348.5	560.9	547.1	13.80	40.660		
4,100.0	3,965.2	4,055.8	4,033.5	18.7	9.9	178.42	-27.0	360.0	580.8	566.7	14.14	41.069		
4,200.0	4,060.2	4,153.8	4,130.8	19.3	10.2	178.43	-27.8	371.5	600.7	586.2	14.49	41.458		
4,300.0	4,155.1	4,251.8	4,228.1	19.9	10.4	178.44	-28.6	383.1	620.6	605.7	14.84	41.829		
4,400.0	4,250.1	4,349.8	4,325.4	20.5	10.7	178.45	-29.4	394.6	640.5	625.3	15.18	42.182		
4,500.0	4,345.1	4,447.8	4,422.7	21.1	11.0	178.45	-30.2	406.1	660.3	644.8	15.53	42.521		
4,600.0	4,440.1	4,545.8	4,520.1	21.7	11.2	178.46	-31.0	417.6	680.2	664.3	15.88	42.844		
4,700.0	4,535.1	4,643.8	4,617.4	22.3	11.5	178.47	-31.9	429.1	700.1	683.9	16.22	43.154		
4,800.0	4,630.1	4,741.8	4,714.7	22.9	11.8	178.47	-32.7	440.6	720.0	703.4	16.57	43.450		
4,900.0	4,725.0	4,839.8	4,812.0	23.5	12.0	178.48	-33.5	452.2	739.9	723.0	16.92	43.735		
5,000.0	4,820.0	4,937.8	4,909.3	24.1	12.3	178.48	-34.3	463.7	759.8	742.5	17.26	44.008		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,100.0	4,915.0	5,035.8	5,006.7	24.6	12.6	178.49	-35.1	475.2	779.6	762.0	17.61	44.271	
5,200.0	5,010.0	5,133.8	5,104.0	25.2	12.8	178.49	-35.9	486.7	799.5	781.6	17.96	44.523	
5,300.0	5,105.0	5,231.8	5,201.3	25.8	13.1	178.50	-36.7	498.2	819.4	801.1	18.30	44.766	
5,400.0	5,199.9	5,329.8	5,298.6	26.4	13.4	178.50	-37.5	509.8	839.3	820.6	18.65	44.999	
5,500.0	5,294.9	5,427.8	5,396.0	27.0	13.6	178.51	-38.3	521.3	859.2	840.2	19.00	45.224	
5,600.0	5,389.9	5,525.8	5,493.3	27.6	13.9	178.51	-39.1	532.8	879.1	859.7	19.34	45.442	
5,700.0	5,484.9	5,623.8	5,590.6	28.2	14.2	178.51	-39.9	544.3	898.9	879.2	19.69	45.651	
5,800.0	5,579.9	5,721.8	5,687.9	28.8	14.4	178.52	-40.7	555.8	918.8	898.8	20.04	45.853	
5,900.0	5,674.9	5,819.8	5,785.2	29.4	14.7	178.52	-41.5	567.4	938.7	918.3	20.39	46.049	
6,000.0	5,769.8	5,917.8	5,882.6	30.0	14.9	178.53	-42.4	578.9	958.6	937.9	20.73	46.238	
6,100.0	5,864.8	6,015.9	5,979.9	30.6	15.2	178.53	-43.2	590.4	978.5	957.4	21.08	46.420	
6,200.0	5,959.8	6,113.9	6,077.2	31.2	15.5	178.53	-44.0	601.9	998.4	976.9	21.43	46.597	
6,300.0	6,054.8	6,211.9	6,174.5	31.8	15.7	178.53	-44.8	613.4	1,018.2	996.5	21.77	46.768	
6,400.0	6,149.8	6,309.9	6,271.8	32.4	16.0	178.54	-45.6	625.0	1,038.1	1,016.0	22.12	46.934	
6,500.0	6,244.7	6,407.9	6,369.2	33.0	16.3	178.54	-46.4	636.5	1,058.0	1,035.5	22.47	47.095	
6,600.0	6,339.7	6,505.9	6,466.5	33.6	16.5	178.54	-47.2	648.0	1,077.9	1,055.1	22.81	47.251	
6,700.0	6,434.7	6,603.9	6,563.8	34.2	16.8	178.55	-48.0	659.5	1,097.8	1,074.6	23.16	47.402	
6,800.0	6,529.7	6,701.9	6,661.1	34.8	17.1	178.55	-48.8	671.0	1,117.7	1,094.2	23.51	47.548	
6,900.0	6,624.7	6,799.9	6,758.4	35.4	17.3	178.55	-49.6	682.5	1,137.5	1,113.7	23.85	47.691	
7,000.0	6,719.7	6,897.9	6,855.8	36.0	17.6	178.55	-50.4	694.1	1,157.4	1,133.2	24.20	47.829	
7,100.0	6,814.6	6,995.9	6,953.1	36.6	17.9	178.56	-51.2	705.6	1,177.3	1,152.8	24.55	47.964	
7,200.0	6,909.6	7,093.9	7,050.4	37.2	18.1	178.56	-52.1	717.1	1,197.2	1,172.3	24.89	48.094	
7,225.4	6,933.7	7,118.8	7,075.1	37.3	18.2	178.56	-52.3	720.0	1,202.2	1,177.3	24.98	48.127	
7,250.0	6,957.1	7,142.9	7,099.1	37.5	18.3	-173.47	-52.5	722.9	1,207.1	1,182.0	25.05	48.184	
7,300.0	7,004.6	7,191.8	7,147.6	37.8	18.4	-157.81	-52.9	728.6	1,216.6	1,191.4	25.22	48.232	
7,350.0	7,051.7	7,239.9	7,195.4	38.0	18.5	-144.30	-52.5	734.3	1,225.6	1,200.2	25.42	48.217	
7,400.0	7,098.0	7,288.3	7,243.3	38.3	18.6	-133.52	-48.3	739.9	1,234.2	1,208.6	25.63	48.155	
7,450.0	7,143.3	7,337.5	7,291.4	38.5	18.8	-125.26	-39.9	745.5	1,242.2	1,216.4	25.86	48.045	
7,500.0	7,187.1	7,387.5	7,339.4	38.8	18.9	-118.98	-27.2	751.1	1,249.7	1,223.6	26.10	47.887	
7,550.0	7,229.2	7,438.4	7,387.0	39.0	19.0	-114.19	-9.9	756.5	1,256.5	1,230.1	26.35	47.683	
7,600.0	7,269.2	7,490.2	7,433.6	39.2	19.1	-110.51	11.9	761.9	1,262.6	1,236.0	26.62	47.437	
7,650.0	7,306.8	7,542.9	7,478.9	39.4	19.3	-107.66	38.4	767.0	1,267.9	1,241.0	26.90	47.137	
7,700.0	7,341.7	7,596.6	7,522.3	39.6	19.4	-105.45	69.6	771.9	1,272.4	1,245.2	27.20	46.784	
7,750.0	7,373.7	7,651.1	7,563.3	39.8	19.6	-103.74	105.3	776.4	1,276.1	1,248.6	27.52	46.369	
7,800.0	7,402.5	7,706.6	7,601.2	39.9	19.8	-102.45	145.4	780.5	1,278.9	1,251.1	27.88	45.880	
7,850.0	7,427.9	7,762.9	7,635.7	40.1	20.1	-101.50	189.7	784.2	1,280.8	1,252.6	28.27	45.312	
7,900.0	7,449.7	7,819.9	7,666.0	40.2	20.4	-100.85	237.9	787.4	1,281.8	1,253.1	28.70	44.659	
7,950.0	7,467.8	7,877.6	7,691.7	40.4	20.7	-100.45	289.5	790.0	1,281.8	1,252.6	29.19	43.919	
8,000.0	7,481.9	7,935.9	7,712.3	40.6	21.0	-100.27	343.9	791.9	1,280.8	1,251.1	29.72	43.089	
8,050.0	7,492.0	7,994.6	7,727.4	40.7	21.4	-100.30	400.7	793.2	1,278.9	1,248.6	30.32	42.175	
8,100.0	7,498.1	8,053.7	7,736.7	40.9	21.9	-100.52	459.0	793.8	1,276.0	1,245.0	30.98	41.181	
8,148.1	7,500.0	8,110.7	7,740.0	41.0	22.3	-100.91	515.9	793.7	1,272.3	1,240.6	31.68	40.161	
8,200.0	7,500.0	8,163.1	7,740.0	41.2	22.8	-100.95	568.3	793.3	1,267.9	1,235.2	32.67	38.811	
8,300.0	7,500.0	8,262.7	7,740.0	41.5	23.7	-101.03	667.9	792.4	1,259.3	1,224.6	34.72	36.266	
8,400.0	7,500.0	8,362.4	7,740.0	42.0	24.7	-101.10	767.5	791.5	1,250.8	1,213.8	36.98	33.821	
8,500.0	7,500.0	8,462.0	7,740.0	42.5	25.8	-101.18	867.1	790.7	1,242.2	1,202.8	39.41	31.521	
8,600.0	7,500.0	8,561.6	7,740.0	43.1	27.0	-101.26	966.7	789.8	1,233.7	1,191.7	41.98	29.390	
8,700.0	7,500.0	8,661.2	7,740.0	43.7	28.2	-101.34	1,066.3	788.9	1,225.1	1,180.5	44.66	27.434	
8,800.0	7,500.0	8,760.8	7,740.0	44.4	29.5	-101.42	1,166.0	788.0	1,216.6	1,169.1	47.43	25.648	
8,900.0	7,500.0	8,860.5	7,740.0	45.2	30.8	-101.50	1,265.6	787.2	1,208.0	1,157.7	50.29	24.022	
9,000.0	7,500.0	8,960.1	7,740.0	46.0	32.2	-101.58	1,365.2	786.3	1,199.5	1,146.3	53.21	22.543	
9,100.0	7,500.0	9,059.7	7,740.0	46.9	33.6	-101.67	1,464.8	785.4	1,191.0	1,134.8	56.18	21.197	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,200.0	7,500.0	9,159.3	7,740.0	47.8	35.0	-101.75	1,564.4	784.6	1,182.4	1,123.2	59.21	19.971	
9,300.0	7,500.0	9,258.9	7,740.0	48.8	36.5	-101.84	1,664.0	783.7	1,173.9	1,111.6	62.27	18.853	
9,400.0	7,500.0	9,358.6	7,740.0	49.8	38.0	-101.93	1,763.7	782.8	1,165.4	1,100.0	65.36	17.830	
9,500.0	7,500.0	9,458.2	7,740.0	50.8	39.5	-102.02	1,863.3	782.0	1,156.8	1,088.4	68.48	16.893	
9,600.0	7,500.0	9,557.8	7,740.0	51.9	41.0	-102.11	1,962.9	781.1	1,148.3	1,076.7	71.62	16.032	
9,700.0	7,500.0	9,657.4	7,740.0	53.1	42.6	-102.20	2,062.5	780.2	1,139.8	1,065.0	74.79	15.240	
9,803.1	7,500.0	9,760.2	7,740.0	54.3	44.2	-102.30	2,165.3	779.3	1,131.0	1,052.9	78.07	14.486	
9,900.0	7,500.0	9,856.7	7,740.0	55.4	45.7	-102.39	2,261.7	778.5	1,122.7	1,041.6	81.17	13.832	
10,000.0	7,500.0	9,956.3	7,740.0	56.6	47.3	-102.48	2,361.4	777.6	1,114.2	1,029.9	84.38	13.205	
10,100.0	7,500.0	10,055.9	7,740.0	57.9	48.9	-102.58	2,461.0	776.7	1,105.7	1,018.1	87.60	12.622	
10,200.0	7,500.0	10,155.5	7,740.0	59.2	50.5	-102.68	2,560.6	775.9	1,097.2	1,006.4	90.83	12.079	
10,300.0	7,500.0	10,255.1	7,740.0	60.5	52.1	-102.78	2,660.2	775.0	1,088.7	994.6	94.07	11.573	
10,400.0	7,500.0	10,354.8	7,740.0	61.8	53.7	-102.88	2,759.8	774.1	1,080.2	982.9	97.32	11.100	
10,500.0	7,500.0	10,454.4	7,740.0	63.1	55.4	-102.99	2,859.4	773.3	1,071.7	971.2	100.57	10.657	
10,600.0	7,500.0	10,554.0	7,740.0	64.5	57.0	-103.09	2,959.0	772.4	1,063.2	959.4	103.82	10.241	
10,703.1	7,500.0	10,656.7	7,740.0	65.9	58.7	-103.20	3,061.8	771.5	1,054.5	947.3	107.19	9.838	
10,800.0	7,500.0	10,753.3	7,740.0	67.3	60.3	-103.28	3,158.3	770.7	1,047.0	935.8	111.22	9.415	
10,900.0	7,500.0	10,853.1	7,740.0	68.8	61.9	-103.35	3,258.1	769.8	1,041.1	925.7	115.36	9.024	
11,000.0	7,500.0	10,953.0	7,740.0	70.2	63.6	-103.39	3,358.0	768.9	1,036.8	917.3	119.50	8.676	
11,100.0	7,500.0	11,053.0	7,740.0	71.7	65.3	-103.42	3,458.0	768.0	1,034.2	910.5	123.62	8.366	
11,200.0	7,500.0	11,153.0	7,740.0	73.3	67.0	-103.43	3,558.0	767.2	1,033.3	905.5	127.72	8.090	
11,203.2	7,500.0	11,156.1	7,740.0	73.3	67.0	-103.43	3,561.1	767.1	1,033.3	905.4	127.85	8.082	
11,253.1	7,500.0	11,206.1	7,740.0	74.1	67.8	-103.43	3,611.1	766.7	1,033.5	903.6	129.89	7.956	
11,300.0	7,500.0	11,253.0	7,740.0	74.8	68.6	-103.42	3,658.0	766.3	1,033.9	902.4	131.46	7.865	
11,400.0	7,500.0	11,353.0	7,740.0	76.3	70.3	-103.41	3,758.0	765.4	1,034.7	899.9	134.80	7.676	
11,500.0	7,500.0	11,465.2	7,740.0	77.9	72.2	-103.41	3,870.3	764.9	1,035.2	896.9	138.36	7.482	
11,600.0	7,500.0	11,586.2	7,740.0	79.5	74.3	-103.43	3,991.2	766.6	1,033.9	891.8	142.05	7.278	
11,700.0	7,500.0	11,686.2	7,740.0	81.0	76.0	-103.46	4,091.2	769.0	1,031.5	886.1	145.38	7.095	
11,800.0	7,500.0	11,786.2	7,740.0	82.6	77.7	-103.49	4,191.1	771.4	1,029.1	880.4	148.71	6.920	
11,900.0	7,500.0	11,886.1	7,740.0	84.2	79.4	-103.52	4,291.0	773.9	1,026.8	874.7	152.05	6.753	
12,000.0	7,500.0	11,986.1	7,740.0	85.8	81.1	-103.55	4,391.0	776.3	1,024.4	869.0	155.39	6.593	
12,100.0	7,500.0	12,086.1	7,740.0	87.4	82.8	-103.59	4,490.9	778.7	1,022.0	863.3	158.72	6.439	
12,200.0	7,500.0	12,186.0	7,740.0	89.0	84.5	-103.62	4,590.9	781.2	1,019.7	857.6	162.06	6.292	
12,300.0	7,500.0	12,286.0	7,740.0	90.6	86.2	-103.65	4,690.8	783.6	1,017.3	851.9	165.41	6.150	
12,400.0	7,500.0	12,386.0	7,740.0	92.2	87.9	-103.68	4,790.7	786.0	1,014.9	846.2	168.75	6.015	
12,500.0	7,500.0	12,485.9	7,740.0	93.8	89.7	-103.71	4,890.7	788.5	1,012.6	840.5	172.09	5.884	
12,600.0	7,500.0	12,585.9	7,740.0	95.5	91.4	-103.75	4,990.6	790.9	1,010.2	834.8	175.43	5.758	
12,700.0	7,500.0	12,685.9	7,740.0	97.1	93.1	-103.78	5,090.6	793.3	1,007.9	829.1	178.78	5.637	
12,800.0	7,500.0	12,785.9	7,740.0	98.7	94.8	-103.81	5,190.5	795.7	1,005.5	823.4	182.12	5.521	
12,900.0	7,500.0	12,885.8	7,740.0	100.4	96.5	-103.85	5,290.4	798.2	1,003.1	817.7	185.47	5.409	
13,000.0	7,500.0	12,985.8	7,740.0	102.0	98.3	-103.88	5,390.4	800.6	1,000.8	812.0	188.81	5.300	
13,100.0	7,500.0	13,085.8	7,740.0	103.7	100.0	-103.91	5,490.3	803.0	998.4	806.3	192.15	5.196	
13,200.0	7,500.0	13,185.7	7,740.0	105.3	101.7	-103.95	5,590.3	805.5	996.0	800.5	195.50	5.095	
13,300.0	7,500.0	13,285.7	7,740.0	107.0	103.5	-103.98	5,690.2	807.9	993.7	794.8	198.84	4.997	
13,400.0	7,500.0	13,385.7	7,740.0	108.6	105.2	-104.01	5,790.2	810.3	991.3	789.1	202.19	4.903	
13,500.0	7,500.0	13,485.6	7,740.0	110.3	106.9	-104.05	5,890.1	812.8	989.0	783.4	205.53	4.812	
13,600.0	7,500.0	13,585.6	7,740.0	111.9	108.6	-104.08	5,990.0	815.2	986.6	777.7	208.88	4.723	
13,700.0	7,500.0	13,685.6	7,740.0	113.6	110.4	-104.12	6,090.0	817.6	984.3	772.0	212.22	4.638	
13,753.1	7,500.0	13,738.7	7,740.0	114.5	111.3	-104.14	6,143.1	818.9	983.0	769.0	214.00	4.593	
13,800.0	7,500.0	13,785.6	7,740.0	115.3	112.1	-104.15	6,189.9	820.1	982.1	766.1	215.96	4.548	
13,880.2	7,500.0	13,865.8	7,740.0	116.6	113.5	-104.15	6,270.1	822.0	981.5	762.2	219.28	4.476	
13,900.0	7,500.0	13,885.6	7,740.0	117.0	113.8	-104.15	6,289.9	822.5	981.5	761.4	220.09	4.460	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - 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						
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
14,000.0	7,500.0	13,985.5	7,740.0	118.7	115.6	-104.14	6,389.8	824.9	982.8	758.7	224.18	4.384	
14,100.0	7,500.0	14,085.5	7,740.0	120.4	117.3	-104.10	6,489.8	827.3	986.0	757.8	228.21	4.321	
14,200.0	7,500.0	14,185.4	7,740.0	122.1	119.0	-104.04	6,589.6	829.8	991.0	758.8	232.18	4.268	
14,300.0	7,500.0	14,285.1	7,740.0	123.8	120.8	-103.96	6,689.3	832.2	997.8	761.8	236.09	4.227	
14,400.0	7,500.0	14,384.7	7,740.0	125.6	122.5	-103.86	6,788.9	834.6	1,006.6	766.6	239.93	4.195	
14,500.0	7,500.0	14,484.1	7,740.0	127.3	124.2	-103.74	6,888.3	837.0	1,017.1	773.4	243.71	4.174	
14,600.0	7,500.0	14,583.3	7,740.0	129.1	125.9	-103.60	6,987.4	839.5	1,029.6	782.2	247.41	4.161	
14,683.9	7,500.0	14,666.3	7,740.0	130.5	127.4	-103.48	7,070.4	841.5	1,041.4	791.0	250.46	4.158 SF	
14,700.0	7,500.0	14,682.2	7,740.0	130.8	127.7	-103.45	7,086.3	841.9	1,043.8	792.8	251.03	4.158	
14,756.3	7,500.0	14,696.1	7,740.0	131.8	127.9	-103.42	7,100.2	842.2	1,053.0	800.8	252.26	4.174	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.9	19.9	19.6	0.30	65.434		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.9	19.9	19.2	0.65	30.442 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.28	0.0	-19.9	20.7	19.7	1.00	20.708		
400.0	400.0	400.4	400.3	0.7	0.7	178.79	0.1	-19.0	22.5	21.1	1.35	16.649		
500.0	499.9	500.7	500.7	0.9	0.9	179.92	0.5	-16.4	24.3	22.6	1.70	14.268		
600.0	599.7	601.2	601.0	1.1	1.0	-178.45	1.1	-12.0	26.1	24.0	2.05	12.714		
700.0	699.4	701.6	701.3	1.3	1.2	-176.43	1.9	-5.9	27.9	25.5	2.40	11.630		
800.0	798.9	802.1	801.4	1.5	1.5	-174.10	3.0	1.9	29.8	27.1	2.75	10.839		
900.0	898.3	902.6	901.4	1.8	1.7	-171.53	4.3	11.5	31.9	28.8	3.11	10.241		
1,000.0	997.4	1,003.1	1,001.3	2.0	1.9	-168.79	5.9	22.8	34.0	30.5	3.48	9.772		
1,100.0	1,096.3	1,103.6	1,101.0	2.3	2.2	-165.94	7.7	35.9	36.3	32.5	3.87	9.389		
1,200.0	1,194.9	1,204.1	1,200.4	2.7	2.5	-163.02	9.7	50.6	38.8	34.5	4.29	9.060		
1,300.0	1,293.3	1,304.7	1,299.6	3.0	2.8	-160.08	12.0	67.2	41.5	36.8	4.74	8.762		
1,400.0	1,391.2	1,405.3	1,398.4	3.4	3.2	-157.17	14.6	85.4	44.4	39.2	5.24	8.481		
1,500.0	1,488.9	1,505.3	1,496.5	3.8	3.5	-154.76	17.2	104.6	48.1	42.3	5.77	8.335		
1,600.0	1,586.1	1,605.1	1,594.5	4.3	3.9	-153.54	19.9	123.8	53.4	47.1	6.30	8.473		
1,700.0	1,682.9	1,704.9	1,692.4	4.7	4.3	-153.30	22.5	143.0	60.2	53.4	6.81	8.845		
1,800.0	1,779.3	1,804.5	1,790.1	5.2	4.6	-153.75	25.2	162.1	68.7	61.4	7.29	9.412		
1,900.0	1,875.2	1,904.0	1,887.7	5.8	5.0	-154.65	27.8	181.3	78.6	70.9	7.75	10.149		
2,000.0	1,970.5	2,003.3	1,985.1	6.3	5.4	-155.79	30.4	200.4	90.2	82.1	8.18	11.034		
2,022.8	1,992.2	2,025.9	2,007.3	6.4	5.5	-156.07	31.0	204.7	93.1	84.8	8.27	11.255		
2,100.0	2,065.5	2,102.5	2,082.4	6.9	5.7	-156.97	33.1	219.4	103.0	94.4	8.60	11.979		
2,200.0	2,160.5	2,201.7	2,179.7	7.5	6.1	-157.91	35.7	238.5	115.8	106.8	9.02	12.835		
2,300.0	2,255.5	2,300.8	2,277.0	8.0	6.5	-158.66	38.4	257.5	128.6	119.2	9.45	13.611		
2,400.0	2,350.5	2,400.0	2,374.2	8.6	6.9	-159.27	41.0	276.6	141.5	131.6	9.88	14.316		
2,500.0	2,445.5	2,499.2	2,471.5	9.2	7.3	-159.79	43.6	295.7	154.3	144.0	10.32	14.961		
2,600.0	2,540.4	2,598.3	2,568.8	9.8	7.6	-160.22	46.3	314.7	167.2	156.5	10.75	15.551		
2,700.0	2,635.4	2,697.5	2,666.1	10.4	8.0	-160.59	48.9	333.8	180.1	168.9	11.19	16.093		
2,800.0	2,730.4	2,796.6	2,763.3	11.0	8.4	-160.91	51.5	352.9	193.0	181.3	11.63	16.594		
2,900.0	2,825.4	2,895.8	2,860.6	11.6	8.8	-161.20	54.2	371.9	205.9	193.8	12.07	17.057		
3,000.0	2,920.4	2,995.0	2,957.9	12.2	9.1	-161.44	56.8	391.0	218.8	206.3	12.51	17.486		
3,100.0	3,015.4	3,094.1	3,055.2	12.8	9.5	-161.66	59.4	410.0	231.7	218.7	12.95	17.886		
3,200.0	3,110.3	3,193.3	3,152.4	13.3	9.9	-161.86	62.1	429.1	244.6	231.2	13.40	18.259		
3,300.0	3,205.3	3,292.4	3,249.7	13.9	10.3	-162.04	64.7	448.2	257.5	243.7	13.84	18.607		
3,400.0	3,300.3	3,391.6	3,347.0	14.5	10.7	-162.20	67.3	467.2	270.4	256.1	14.28	18.933		
3,500.0	3,395.3	3,490.8	3,444.3	15.1	11.0	-162.35	70.0	486.3	283.3	268.6	14.73	19.239		
3,600.0	3,490.3	3,589.9	3,541.5	15.7	11.4	-162.48	72.6	505.3	296.2	281.1	15.17	19.526		
3,700.0	3,585.2	3,689.1	3,638.8	16.3	11.8	-162.60	75.2	524.4	309.1	293.5	15.62	19.797		
3,800.0	3,680.2	3,788.2	3,736.1	16.9	12.2	-162.71	77.9	543.5	322.1	306.0	16.06	20.053		
3,900.0	3,775.2	3,887.4	3,833.4	17.5	12.6	-162.82	80.5	562.5	335.0	318.5	16.51	20.295		
4,000.0	3,870.2	3,986.6	3,930.6	18.1	13.0	-162.91	83.2	581.6	347.9	330.9	16.95	20.523		
4,100.0	3,965.2	4,085.7	4,027.9	18.7	13.3	-163.00	85.8	600.7	360.8	343.4	17.40	20.740		
4,200.0	4,060.2	4,184.9	4,125.2	19.3	13.7	-163.09	88.4	619.7	373.7	355.9	17.84	20.946		
4,300.0	4,155.1	4,284.0	4,222.5	19.9	14.1	-163.16	91.1	638.8	386.7	368.4	18.29	21.142		
4,400.0	4,250.1	4,383.2	4,319.7	20.5	14.5	-163.24	93.7	657.8	399.6	380.8	18.74	21.328		
4,500.0	4,345.1	4,482.4	4,417.0	21.1	14.9	-163.30	96.3	676.9	412.5	393.3	19.18	21.505		
4,600.0	4,440.1	4,581.5	4,514.3	21.7	15.2	-163.37	99.0	696.0	425.4	405.8	19.63	21.674		
4,700.0	4,535.1	4,680.7	4,611.6	22.3	15.6	-163.43	101.6	715.0	438.4	418.3	20.07	21.836		
4,800.0	4,630.1	4,779.8	4,708.8	22.9	16.0	-163.48	104.2	734.1	451.3	430.8	20.52	21.990		
4,900.0	4,725.0	4,879.0	4,806.1	23.5	16.4	-163.54	106.9	753.1	464.2	443.2	20.97	22.138		
5,000.0	4,820.0	4,978.2	4,903.4	24.1	16.8	-163.59	109.5	772.2	477.1	455.7	21.42	22.280		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,915.0	5,077.3	5,000.7	24.6	17.2	-163.64	112.1	791.3	490.1	468.2	21.86	22.415	
5,200.0	5,010.0	5,176.5	5,098.0	25.2	17.5	-163.68	114.8	810.3	503.0	480.7	22.31	22.545	
5,300.0	5,105.0	5,275.6	5,195.2	25.8	17.9	-163.72	117.4	829.4	515.9	493.1	22.76	22.670	
5,400.0	5,199.9	5,374.8	5,292.5	26.4	18.3	-163.77	120.0	848.5	528.8	505.6	23.20	22.790	
5,500.0	5,294.9	5,474.0	5,389.8	27.0	18.7	-163.80	122.7	867.5	541.8	518.1	23.65	22.906	
5,600.0	5,389.9	5,573.1	5,487.1	27.6	19.1	-163.84	125.3	886.6	554.7	530.6	24.10	23.017	
5,700.0	5,484.9	5,672.3	5,584.3	28.2	19.4	-163.88	127.9	905.6	567.6	543.1	24.55	23.124	
5,800.0	5,579.9	5,771.4	5,681.6	28.8	19.8	-163.91	130.6	924.7	580.5	555.5	24.99	23.227	
5,900.0	5,674.9	5,870.6	5,778.9	29.4	20.2	-163.94	133.2	943.8	593.5	568.0	25.44	23.326	
6,000.0	5,769.8	5,969.8	5,876.2	30.0	20.6	-163.97	135.9	962.8	606.4	580.5	25.89	23.422	
6,100.0	5,864.8	6,068.9	5,973.4	30.6	21.0	-164.00	138.5	981.9	619.3	593.0	26.34	23.515	
6,200.0	5,959.8	6,168.1	6,070.7	31.2	21.4	-164.03	141.1	1,001.0	632.3	605.5	26.78	23.605	
6,300.0	6,054.8	6,267.2	6,168.0	31.8	21.7	-164.06	143.8	1,020.0	645.2	617.9	27.23	23.691	
6,400.0	6,149.8	6,366.4	6,265.3	32.4	22.1	-164.09	146.4	1,039.1	658.1	630.4	27.68	23.775	
6,500.0	6,244.7	6,465.6	6,362.5	33.0	22.5	-164.11	149.0	1,058.1	671.0	642.9	28.13	23.856	
6,600.0	6,339.7	6,564.7	6,459.8	33.6	22.9	-164.14	151.7	1,077.2	684.0	655.4	28.58	23.935	
6,700.0	6,434.7	6,663.9	6,557.1	34.2	23.3	-164.16	154.3	1,096.3	696.9	667.9	29.02	24.011	
6,800.0	6,529.7	6,763.0	6,654.4	34.8	23.7	-164.18	156.9	1,115.3	709.8	680.4	29.47	24.084	
6,900.0	6,624.7	6,862.2	6,751.6	35.4	24.0	-164.20	159.6	1,134.4	722.8	692.8	29.92	24.156	
7,000.0	6,719.7	6,961.4	6,848.9	36.0	24.4	-164.23	162.2	1,153.4	735.7	705.3	30.37	24.225	
7,100.0	6,814.6	7,060.5	6,946.2	36.6	24.8	-164.25	164.8	1,172.5	748.6	717.8	30.82	24.293	
7,200.0	6,909.6	7,153.9	7,037.9	37.2	25.1	-163.99	170.6	1,186.6	763.1	731.7	31.43	24.282	
7,225.4	6,933.7	7,150.0	7,033.5	37.3	25.2	-163.84	173.1	1,189.7	767.3	735.7	31.63	24.262	
7,250.0	6,957.1	7,168.8	7,051.6	37.5	25.2	-155.76	176.5	1,193.2	771.5	739.4	32.13	24.013	
7,300.0	7,004.6	7,200.0	7,081.4	37.8	25.4	-139.88	183.6	1,199.1	779.4	746.4	32.99	23.627	
7,350.0	7,051.7	7,237.9	7,117.1	38.0	25.6	-126.02	194.5	1,206.2	786.3	752.6	33.76	23.289	
7,400.0	7,098.0	7,272.3	7,148.7	38.3	25.7	-115.01	206.4	1,212.5	792.4	758.1	34.34	23.077	
7,450.0	7,143.3	7,300.0	7,173.7	38.5	25.8	-106.61	217.3	1,217.5	797.6	763.0	34.67	23.007	
7,500.0	7,187.1	7,341.0	7,209.5	38.8	26.0	-100.25	235.8	1,224.7	801.7	766.8	34.93	22.953	
7,550.0	7,229.2	7,375.3	7,238.5	39.0	26.2	-95.48	253.2	1,230.5	804.9	769.9	34.96	23.025	
7,600.0	7,269.2	7,409.6	7,266.4	39.2	26.4	-91.88	272.4	1,236.1	806.9	772.1	34.81	23.180	
7,650.0	7,306.8	7,450.0	7,297.7	39.4	26.6	-89.21	297.1	1,242.5	808.0	773.4	34.57	23.372	
7,700.0	7,341.7	7,478.4	7,318.7	39.6	26.8	-87.22	315.7	1,246.7	807.9	773.8	34.13	23.672	
7,750.0	7,373.7	7,512.9	7,342.9	39.8	27.0	-85.83	339.8	1,251.7	806.8	773.2	33.65	23.980	
7,800.0	7,402.5	7,550.0	7,367.2	39.9	27.2	-84.95	367.3	1,256.7	804.7	771.6	33.14	24.285	
7,850.0	7,427.9	7,582.3	7,387.0	40.1	27.4	-84.45	392.6	1,260.8	801.6	769.0	32.59	24.596	
7,900.0	7,449.7	7,617.3	7,406.8	40.2	27.6	-84.34	421.1	1,264.9	797.5	765.4	32.09	24.851	
7,950.0	7,467.8	7,650.0	7,423.7	40.4	27.8	-84.54	448.8	1,268.5	792.5	760.9	31.64	25.053	
8,000.0	7,481.9	7,687.8	7,441.3	40.6	28.1	-85.11	482.1	1,272.2	786.7	755.3	31.33	25.111	
8,050.0	7,492.0	7,723.5	7,455.9	40.7	28.4	-85.94	514.5	1,275.3	780.0	748.9	31.11	25.069	
8,100.0	7,498.1	7,759.4	7,468.6	40.9	28.6	-87.06	548.0	1,278.1	772.6	741.6	31.03	24.903	
8,148.1	7,500.0	7,800.0	7,480.4	41.0	29.0	-88.51	586.7	1,280.7	765.0	733.8	31.13	24.571	
8,200.0	7,500.0	7,833.0	7,487.9	41.2	29.2	-89.08	618.8	1,282.5	756.8	724.8	32.00	23.653	
8,300.0	7,500.0	7,910.6	7,498.5	41.5	29.8	-89.89	695.6	1,285.2	743.5	709.6	33.94	21.910	
8,400.0	7,500.0	7,999.7	7,500.0	42.0	30.6	-90.00	784.6	1,286.3	732.7	696.6	36.15	20.268	
8,500.0	7,500.0	8,099.1	7,500.0	42.5	31.5	-90.00	884.1	1,287.2	722.3	683.6	38.66	18.681	
8,600.0	7,500.0	8,198.6	7,500.0	43.1	32.5	-90.00	983.5	1,288.0	711.8	670.5	41.32	17.229	
8,700.0	7,500.0	8,298.0	7,500.0	43.7	33.6	-90.00	1,083.0	1,288.9	701.4	657.3	44.09	15.908	
8,800.0	7,500.0	8,397.5	7,500.0	44.4	34.7	-90.00	1,182.4	1,289.8	690.9	644.0	46.96	14.714	
8,900.0	7,500.0	8,496.9	7,500.0	45.2	35.8	-90.00	1,281.8	1,290.7	680.5	630.6	49.91	13.635	
9,000.0	7,500.0	8,596.4	7,500.0	46.0	37.0	-90.00	1,381.3	1,291.5	670.0	617.1	52.92	12.660	
9,100.0	7,500.0	8,695.9	7,500.0	46.9	38.3	-90.00	1,480.7	1,292.4	659.6	603.6	55.99	11.779	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,200.0	7,500.0	8,795.3	7,500.0	47.8	39.6	-90.00	1,580.2	1,293.3	649.1	590.0	59.11	10.981	
9,300.0	7,500.0	8,894.8	7,500.0	48.8	40.9	-90.00	1,679.6	1,294.1	638.6	576.4	62.27	10.256	
9,400.0	7,500.0	8,994.2	7,500.0	49.8	42.2	-90.00	1,779.1	1,295.0	628.2	562.7	65.47	9.596	
9,500.0	7,500.0	9,093.7	7,500.0	50.8	43.6	-90.00	1,878.5	1,295.9	617.7	549.1	68.69	8.993	
9,600.0	7,500.0	9,193.1	7,500.0	51.9	45.0	-90.00	1,978.0	1,296.7	607.3	535.4	71.94	8.442	
9,700.0	7,500.0	9,292.6	7,500.0	53.1	46.4	-90.00	2,077.4	1,297.6	596.8	521.6	75.21	7.936	
9,803.1	7,500.0	9,395.1	7,500.0	54.3	47.9	-90.00	2,180.0	1,298.5	586.1	507.5	78.60	7.456	
9,900.0	7,500.0	9,491.5	7,500.0	55.4	49.3	-90.00	2,276.3	1,299.3	575.9	494.1	81.81	7.040	
10,000.0	7,500.0	9,587.4	7,500.0	56.6	50.8	-90.00	2,372.3	1,300.1	565.6	480.5	85.07	6.648	
10,100.0	7,500.0	9,678.1	7,500.0	57.9	52.1	-90.00	2,463.0	1,299.6	556.6	468.3	88.27	6.305	
10,200.0	7,500.0	9,769.1	7,500.0	59.2	53.5	-90.00	2,553.9	1,297.6	549.1	457.6	91.48	6.002	
10,300.0	7,500.0	9,860.2	7,500.0	60.5	54.8	-90.00	2,645.0	1,294.3	543.2	448.5	94.71	5.736	
10,400.0	7,500.0	9,951.5	7,500.0	61.8	56.2	-90.00	2,736.1	1,289.4	538.9	441.0	97.95	5.502	
10,500.0	7,500.0	10,042.9	7,500.0	63.1	57.6	-90.00	2,827.3	1,283.1	536.2	435.0	101.20	5.299	
10,600.0	7,500.0	10,134.3	7,500.0	64.5	59.0	-90.00	2,918.4	1,275.4	535.1	430.6	104.46	5.123	
10,619.2	7,500.0	10,151.9	7,500.0	64.8	59.2	-90.00	2,935.9	1,273.7	535.1	430.0	105.09	5.092	
10,703.1	7,500.0	10,231.2	7,500.0	65.9	60.4	-90.00	3,014.8	1,265.6	535.6	427.7	107.87	4.965	
10,800.0	7,500.0	10,328.0	7,500.0	67.3	61.9	-90.00	3,111.1	1,255.5	537.2	425.0	112.21	4.788	
10,900.0	7,500.0	10,427.9	7,500.0	68.8	63.4	-90.00	3,210.5	1,245.1	540.7	424.0	116.67	4.634	
11,000.0	7,500.0	10,527.8	7,500.0	70.2	65.0	-90.00	3,309.8	1,234.6	545.8	424.7	121.10	4.507	
11,100.0	7,500.0	10,627.6	7,500.0	71.7	66.5	-90.00	3,409.0	1,224.2	552.8	427.3	125.50	4.404	
11,200.0	7,500.0	10,727.2	7,500.0	73.3	68.1	-90.00	3,508.1	1,213.8	561.4	431.6	129.86	4.323	
11,253.1	7,500.0	10,780.1	7,500.0	74.1	68.9	-90.00	3,560.7	1,208.3	566.7	434.6	132.17	4.288	
11,300.0	7,500.0	10,826.7	7,500.0	74.8	69.7	-90.00	3,607.0	1,203.4	571.6	437.9	133.77	4.273	
11,400.0	7,500.0	10,926.1	7,500.0	76.3	71.2	-90.00	3,705.9	1,193.0	582.1	444.9	137.20	4.243	
11,500.0	7,500.0	11,025.6	7,500.0	77.9	72.8	-90.00	3,804.8	1,182.6	592.5	451.9	140.63	4.213	
11,600.0	7,500.0	11,125.0	7,500.0	79.5	74.4	-90.00	3,903.7	1,172.2	603.0	458.9	144.07	4.185	
11,700.0	7,500.0	11,224.5	7,500.0	81.0	76.0	-90.00	4,002.6	1,161.8	613.4	465.9	147.51	4.159	
11,800.0	7,500.0	11,323.9	7,500.0	82.6	77.6	-90.00	4,101.5	1,151.4	623.9	472.9	150.95	4.133	
11,900.0	7,500.0	11,423.4	7,500.0	84.2	79.2	-90.00	4,200.5	1,141.0	634.3	480.0	154.39	4.109	
12,000.0	7,500.0	11,522.8	7,500.0	85.8	80.8	-90.00	4,299.4	1,130.6	644.8	487.0	157.84	4.085	
12,100.0	7,500.0	11,622.3	7,500.0	87.4	82.5	-90.00	4,398.3	1,120.2	655.3	494.0	161.29	4.063	
12,200.0	7,500.0	11,721.7	7,500.0	89.0	84.1	-90.00	4,497.2	1,109.8	665.7	501.0	164.74	4.041	
12,300.0	7,500.0	11,823.8	7,500.0	90.6	85.8	-90.00	4,596.7	1,099.2	676.1	507.9	168.23	4.019	
12,400.0	7,500.0	11,936.8	7,500.0	92.2	87.6	-90.00	4,711.2	1,088.9	685.2	513.3	171.93	3.986	
12,500.0	7,500.0	12,050.2	7,500.0	93.8	89.5	-90.00	4,824.3	1,080.9	692.3	516.7	175.62	3.942	
12,600.0	7,500.0	12,163.8	7,500.0	95.5	91.4	-90.00	4,937.8	1,075.0	697.5	518.2	179.33	3.889	
12,700.0	7,500.0	12,277.7	7,500.0	97.1	93.4	-90.00	5,051.6	1,071.4	700.6	517.6	183.04	3.828	
12,800.0	7,500.0	12,391.6	7,500.0	98.7	95.3	-90.00	5,165.5	1,070.1	701.8	515.1	186.75	3.758	
12,900.0	7,500.0	12,505.5	7,500.0	100.4	97.2	-90.00	5,279.4	1,071.0	701.0	510.5	190.46	3.681	
13,000.0	7,500.0	12,619.4	7,500.0	102.0	99.2	-90.00	5,393.3	1,074.2	698.2	504.0	194.18	3.596	
13,100.0	7,500.0	12,733.1	7,500.0	103.7	101.2	-90.00	5,506.8	1,079.6	693.4	495.5	197.89	3.504	
13,200.0	7,500.0	12,841.7	7,500.0	105.3	103.0	-90.00	5,615.2	1,086.8	686.8	485.3	201.52	3.408	
13,300.0	7,500.0	12,941.5	7,500.0	107.0	104.8	-90.00	5,714.7	1,093.9	679.7	474.7	204.99	3.316	
13,400.0	7,500.0	13,041.2	7,500.0	108.6	106.5	-90.00	5,814.2	1,100.9	672.7	464.2	208.46	3.227	
13,500.0	7,500.0	13,141.0	7,500.0	110.3	108.2	-90.00	5,913.7	1,107.9	665.6	453.7	211.94	3.141	
13,600.0	7,500.0	13,240.7	7,500.0	111.9	110.0	-90.00	6,013.2	1,115.0	658.6	443.1	215.42	3.057	
13,700.0	7,500.0	13,340.5	7,500.0	113.6	111.7	-90.00	6,112.7	1,122.0	651.5	432.6	218.89	2.976	
13,753.1	7,500.0	13,393.5	7,500.0	114.5	112.6	-90.00	6,165.6	1,125.7	647.8	427.0	220.74	2.934	
13,800.0	7,500.0	13,440.3	7,500.0	115.3	113.4	-90.00	6,212.2	1,129.0	644.7	421.8	222.82	2.893	
13,900.0	7,500.0	13,540.1	7,500.0	117.0	115.2	-90.00	6,311.9	1,136.1	639.5	412.2	227.21	2.814	
14,000.0	7,500.0	13,640.1	7,500.0	118.7	116.9	-90.00	6,411.5	1,143.1	636.2	404.6	231.52	2.748	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (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
14,100.0	7,500.0	13,740.0	7,500.0	120.4	118.6	-90.00	6,511.3	1,150.2	634.8	399.0	235.77	2.692	
14,122.1	7,500.0	13,762.1	7,500.0	120.8	119.0	-90.00	6,533.3	1,151.7	634.7	398.0	236.69	2.682	
14,200.0	7,500.0	13,840.0	7,500.0	122.1	120.4	-90.00	6,611.0	1,157.2	635.3	395.4	239.93	2.648	
14,300.0	7,500.0	13,940.0	7,500.0	123.8	122.1	-90.00	6,710.8	1,164.3	637.8	393.8	244.01	2.614	
14,400.0	7,500.0	14,039.9	7,500.0	125.6	123.8	-90.00	6,810.4	1,171.3	642.1	394.1	248.00	2.589	
14,500.0	7,500.0	14,139.7	7,500.0	127.3	125.6	-90.00	6,910.0	1,178.4	648.4	396.5	251.90	2.574	
14,600.0	7,500.0	14,239.4	7,500.0	129.1	127.3	-90.00	7,009.4	1,185.4	656.6	400.9	255.71	2.568 SF	
14,683.9	7,500.0	14,322.8	7,500.0	130.5	128.8	-90.00	7,092.6	1,191.3	664.9	406.1	258.83	2.569	
14,700.0	7,500.0	14,335.9	7,500.0	130.8	129.0	-90.00	7,105.6	1,192.2	666.6	407.3	259.35	2.570	
14,756.3	7,500.0	14,335.9	7,500.0	131.8	129.0	-90.00	7,105.6	1,192.2	675.3	414.9	260.34	2.594	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-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
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-10.1	10.1				
100.0	100.0	100.0	100.0	0.2	0.2	-90.02	0.0	-10.1	10.1	9.8	0.30	33.178	
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-10.1	10.1	9.4	0.65	15.436	CC, ES
300.0	300.0	300.1	300.1	0.5	0.5	178.12	0.0	-9.9	10.7	9.7	1.00	10.712	
400.0	400.0	400.3	400.3	0.7	0.7	177.04	-0.3	-8.1	11.6	10.3	1.35	8.608	
500.0	499.9	500.5	500.4	0.9	0.9	174.97	-1.0	-4.7	12.6	10.9	1.70	7.388	
600.0	599.7	600.7	600.5	1.1	1.1	172.15	-1.9	0.5	13.6	11.5	2.05	6.609	
700.0	699.4	700.9	700.5	1.3	1.3	168.77	-3.1	7.4	14.6	12.2	2.41	6.083	
800.0	798.9	801.2	800.3	1.5	1.5	165.00	-4.6	16.0	15.8	13.1	2.77	5.716	
900.0	898.3	901.4	900.0	1.8	1.7	161.00	-6.4	26.4	17.2	14.0	3.15	5.451	
1,000.0	997.4	1,001.7	999.5	2.0	2.0	156.91	-8.6	38.4	18.7	15.2	3.57	5.251	
1,100.0	1,096.3	1,101.9	1,098.8	2.3	2.3	152.84	-11.0	52.2	20.5	16.4	4.02	5.090	
1,200.0	1,194.9	1,202.2	1,197.8	2.7	2.6	148.89	-13.7	67.7	22.4	17.9	4.53	4.954	
1,300.0	1,293.3	1,302.5	1,296.5	3.0	2.9	145.13	-16.7	84.9	24.6	19.5	5.10	4.832	
1,400.0	1,391.2	1,402.7	1,395.0	3.4	3.3	141.60	-20.1	103.7	27.1	21.3	5.73	4.721	
1,500.0	1,488.9	1,503.0	1,493.1	3.8	3.7	138.32	-23.7	124.3	29.8	23.3	6.45	4.619	
1,600.0	1,586.1	1,603.3	1,590.8	4.3	4.1	135.30	-27.6	146.6	32.7	25.5	7.23	4.525	
1,700.0	1,682.9	1,703.6	1,688.0	4.7	4.6	132.53	-31.9	170.5	36.0	27.9	8.10	4.441	
1,800.0	1,779.3	1,804.0	1,785.1	5.2	5.0	130.53	-36.1	196.0	39.4	30.4	8.99	4.380	
1,900.0	1,875.2	1,904.5	1,882.2	5.8	5.5	131.69	-38.8	221.8	42.6	32.9	9.70	4.391	
2,000.0	1,970.5	2,004.7	1,979.0	6.3	6.0	135.68	-39.8	247.6	45.8	35.7	10.15	4.511	
2,022.8	1,992.2	2,027.3	2,000.8	6.4	6.1	136.91	-39.9	253.3	46.7	36.5	10.21	4.578	
2,100.0	2,065.5	2,103.8	2,075.1	6.9	6.4	141.32	-40.2	272.0	50.7	40.4	10.33	4.915	
2,200.0	2,160.5	2,202.9	2,171.5	7.5	6.8	146.86	-40.6	294.8	57.5	47.2	10.36	5.557	
2,300.0	2,255.5	2,302.5	2,268.5	8.0	7.3	151.45	-41.1	317.2	65.2	54.9	10.39	6.282	
2,400.0	2,350.5	2,402.0	2,365.5	8.6	7.7	155.06	-41.5	339.6	73.3	62.8	10.46	7.003	
2,500.0	2,445.5	2,501.6	2,462.5	9.2	8.1	157.94	-41.9	362.0	81.5	70.9	10.58	7.705	
2,600.0	2,540.4	2,601.2	2,559.6	9.8	8.6	160.30	-42.3	384.4	89.9	79.2	10.73	8.380	
2,700.0	2,635.4	2,700.8	2,656.6	10.4	9.0	162.24	-42.7	406.8	98.5	87.6	10.92	9.022	
2,800.0	2,730.4	2,800.4	2,753.6	11.0	9.4	163.88	-43.1	429.2	107.1	96.0	11.12	9.631	
2,900.0	2,825.4	2,900.0	2,850.7	11.6	9.9	165.27	-43.5	451.6	115.9	104.5	11.35	10.207	
3,000.0	2,920.4	2,999.5	2,947.7	12.2	10.3	166.46	-44.0	474.0	124.6	113.0	11.59	10.750	
3,100.0	3,015.4	3,099.1	3,044.7	12.8	10.7	167.50	-44.4	496.3	133.5	121.6	11.85	11.263	
3,200.0	3,110.3	3,198.7	3,141.8	13.3	11.1	168.41	-44.8	518.7	142.3	130.2	12.12	11.745	
3,300.0	3,205.3	3,298.3	3,238.8	13.9	11.6	169.21	-45.2	541.1	151.2	138.8	12.39	12.201	
3,400.0	3,300.3	3,397.9	3,335.8	14.5	12.0	169.92	-45.6	563.5	160.1	147.5	12.68	12.630	
3,500.0	3,395.3	3,497.5	3,432.9	15.1	12.4	170.56	-46.0	585.9	169.1	156.1	12.97	13.036	
3,600.0	3,490.3	3,597.0	3,529.9	15.7	12.9	171.13	-46.4	608.3	178.0	164.8	13.27	13.419	
3,700.0	3,585.2	3,696.6	3,626.9	16.3	13.3	171.65	-46.9	630.7	187.0	173.4	13.57	13.781	
3,800.0	3,680.2	3,796.2	3,724.0	16.9	13.8	172.12	-47.3	653.1	196.0	182.1	13.88	14.124	
3,900.0	3,775.2	3,895.8	3,821.0	17.5	14.2	172.55	-47.7	675.5	205.0	190.8	14.19	14.450	
4,000.0	3,870.2	3,995.4	3,918.0	18.1	14.6	172.94	-48.1	697.9	214.0	199.5	14.50	14.758	
4,100.0	3,965.2	4,095.0	4,015.1	18.7	15.1	173.30	-48.5	720.3	223.0	208.2	14.82	15.051	
4,200.0	4,060.2	4,194.5	4,112.1	19.3	15.5	173.64	-48.9	742.6	232.1	216.9	15.14	15.330	
4,300.0	4,155.1	4,294.1	4,209.1	19.9	15.9	173.95	-49.4	765.0	241.1	225.6	15.46	15.595	
4,400.0	4,250.1	4,393.7	4,306.2	20.5	16.4	174.23	-49.8	787.4	250.1	234.3	15.78	15.847	
4,500.0	4,345.1	4,493.3	4,403.2	21.1	16.8	174.50	-50.2	809.8	259.2	243.1	16.11	16.088	
4,600.0	4,440.1	4,592.9	4,500.2	21.7	17.2	174.75	-50.6	832.2	268.2	251.8	16.44	16.318	
4,700.0	4,535.1	4,692.5	4,597.3	22.3	17.7	174.98	-51.0	854.6	277.3	260.5	16.77	16.538	
4,800.0	4,630.1	4,792.0	4,694.3	22.9	18.1	175.20	-51.4	877.0	286.3	269.2	17.10	16.748	
4,900.0	4,725.0	4,891.6	4,791.3	23.5	18.5	175.40	-51.8	899.4	295.4	278.0	17.43	16.949	
5,000.0	4,820.0	4,991.2	4,888.3	24.1	19.0	175.59	-52.3	921.8	304.5	286.7	17.76	17.141	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	5,090.8	4,985.4	24.6	19.4	175.77	-52.7	944.2	313.6	295.5	18.10	17.326		
5,200.0	5,010.0	5,190.4	5,082.4	25.2	19.8	175.94	-53.1	966.6	322.6	304.2	18.43	17.503		
5,300.0	5,105.0	5,290.0	5,179.4	25.8	20.3	176.10	-53.5	988.9	331.7	312.9	18.77	17.673		
5,400.0	5,199.9	5,389.5	5,276.5	26.4	20.7	176.26	-53.9	1,011.3	340.8	321.7	19.11	17.837		
5,500.0	5,294.9	5,489.1	5,373.5	27.0	21.1	176.40	-54.3	1,033.7	349.9	330.4	19.44	17.994		
5,600.0	5,389.9	5,588.7	5,470.5	27.6	21.6	176.54	-54.7	1,056.1	359.0	339.2	19.78	18.145		
5,700.0	5,484.9	5,688.3	5,567.6	28.2	22.0	176.67	-55.2	1,078.5	368.0	347.9	20.12	18.291		
5,800.0	5,579.9	5,787.9	5,664.6	28.8	22.5	176.79	-55.6	1,100.9	377.1	356.7	20.46	18.431		
5,900.0	5,674.9	5,887.4	5,761.6	29.4	22.9	176.91	-56.0	1,123.3	386.2	365.4	20.80	18.566		
6,000.0	5,769.8	5,987.0	5,858.7	30.0	23.3	177.03	-56.4	1,145.7	395.3	374.2	21.14	18.697		
6,100.0	5,864.8	6,086.6	5,955.7	30.6	23.8	177.13	-56.8	1,168.1	404.4	382.9	21.49	18.823		
6,200.0	5,959.8	6,186.2	6,052.7	31.2	24.2	177.24	-57.2	1,190.5	413.5	391.7	21.83	18.944		
6,300.0	6,054.8	6,285.8	6,149.8	31.8	24.6	177.34	-57.6	1,212.9	422.6	400.4	22.17	19.062		
6,400.0	6,149.8	6,385.4	6,246.8	32.4	25.1	177.43	-58.1	1,235.3	431.7	409.2	22.51	19.175		
6,500.0	6,244.7	6,484.9	6,343.8	33.0	25.5	177.52	-58.5	1,257.6	440.8	417.9	22.86	19.286		
6,600.0	6,339.7	6,584.5	6,440.9	33.6	25.9	177.61	-58.9	1,280.0	449.9	426.7	23.20	19.392		
6,700.0	6,434.7	6,684.1	6,537.9	34.2	26.4	177.69	-59.3	1,302.4	459.0	435.4	23.54	19.495		
6,800.0	6,529.7	6,783.7	6,634.9	34.8	26.8	177.77	-59.7	1,324.8	468.1	444.2	23.89	19.595		
6,900.0	6,624.7	6,883.3	6,732.0	35.4	27.3	177.85	-60.1	1,347.2	477.2	453.0	24.23	19.692		
7,000.0	6,719.7	6,982.9	6,829.0	36.0	27.7	177.92	-60.5	1,369.6	486.3	461.7	24.58	19.786		
7,100.0	6,814.6	7,082.4	6,926.0	36.6	28.1	178.00	-61.0	1,392.0	495.4	470.5	24.92	19.877		
7,200.0	6,909.6	7,182.0	7,023.1	37.2	28.6	178.06	-61.4	1,414.4	504.5	479.2	25.27	19.966		
7,225.4	6,933.7	7,207.3	7,047.7	37.3	28.7	178.08	-61.5	1,420.1	506.8	481.5	25.36	19.988		
7,250.0	6,957.1	7,231.8	7,071.6	37.5	28.8	-174.24	-61.6	1,425.6	509.0	483.6	25.43	20.015		
7,300.0	7,004.6	7,281.5	7,119.9	37.8	29.0	-159.37	-61.8	1,436.7	513.2	487.6	25.61	20.036		
7,350.0	7,051.7	7,330.6	7,167.8	38.0	29.2	-146.93	-62.0	1,447.8	517.1	491.2	25.84	20.013		
7,400.0	7,098.0	7,380.4	7,216.4	38.3	29.4	-137.50	-60.9	1,459.0	520.7	494.6	26.09	19.955		
7,450.0	7,143.3	7,431.6	7,265.9	38.5	29.6	-130.58	-55.4	1,470.4	524.2	497.8	26.35	19.889		
7,500.0	7,187.1	7,483.9	7,315.9	38.8	29.9	-125.60	-45.1	1,481.9	527.3	500.7	26.60	19.825		
7,550.0	7,229.2	7,537.4	7,365.8	39.0	30.1	-122.05	-29.8	1,493.3	530.2	503.4	26.82	19.772		
7,600.0	7,269.2	7,592.2	7,415.3	39.2	30.3	-119.56	-9.2	1,504.6	532.7	505.7	27.00	19.732		
7,650.0	7,306.8	7,648.2	7,463.6	39.4	30.5	-117.84	16.7	1,515.6	534.8	507.7	27.14	19.707		
7,700.0	7,341.7	7,705.4	7,510.3	39.6	30.7	-116.69	48.1	1,526.2	536.5	509.3	27.24	19.697		
7,750.0	7,373.7	7,763.9	7,554.6	39.8	31.0	-115.97	85.0	1,536.3	537.7	510.4	27.31	19.690		
7,800.0	7,402.5	7,823.6	7,595.8	39.9	31.2	-115.58	127.1	1,545.5	538.3	510.9	27.37	19.671		
7,850.0	7,427.9	7,884.4	7,633.1	40.1	31.5	-115.44	174.3	1,553.9	538.3	510.9	27.44	19.617		
7,900.0	7,449.7	7,946.2	7,665.9	40.2	31.7	-115.49	226.2	1,561.2	537.7	510.1	27.58	19.499		
7,950.0	7,467.8	8,008.9	7,693.3	40.4	32.0	-115.68	282.2	1,567.2	536.4	508.6	27.82	19.281		
8,000.0	7,481.9	8,072.3	7,714.9	40.6	32.3	-115.99	341.6	1,571.9	534.5	506.3	28.22	18.939		
8,050.0	7,492.0	8,136.2	7,730.0	40.7	32.6	-116.38	403.6	1,575.1	531.8	503.0	28.81	18.460		
8,100.0	7,498.1	8,200.4	7,738.3	40.9	33.0	-116.83	467.1	1,576.7	528.4	498.8	29.62	17.842		
8,148.1	7,500.0	8,258.4	7,740.0	41.0	33.3	-117.32	525.1	1,576.7	524.5	494.0	30.59	17.148		
8,200.0	7,500.0	8,310.0	7,740.0	41.2	33.6	-117.56	576.7	1,576.5	520.4	489.0	31.38	16.585		
8,300.0	7,500.0	8,409.6	7,740.0	41.5	34.2	-118.03	676.3	1,575.9	512.3	479.3	33.04	15.507		
8,400.0	7,500.0	8,509.2	7,740.0	42.0	34.9	-118.51	775.9	1,575.4	504.4	469.5	34.87	14.464		
8,500.0	7,500.0	8,608.8	7,740.0	42.5	35.7	-119.01	875.5	1,574.9	496.4	459.6	36.84	13.476		
8,600.0	7,500.0	8,708.3	7,740.0	43.1	36.5	-119.53	975.1	1,574.4	488.5	449.6	38.91	12.555		
8,700.0	7,500.0	8,807.9	7,740.0	43.7	37.5	-120.06	1,074.7	1,573.9	480.6	439.6	41.06	11.706		
8,800.0	7,500.0	8,907.5	7,740.0	44.4	38.4	-120.61	1,174.2	1,573.3	472.8	429.5	43.27	10.927		
8,900.0	7,500.0	9,007.1	7,740.0	45.2	39.4	-121.18	1,273.8	1,572.8	465.0	419.5	45.51	10.217		
9,000.0	7,500.0	9,106.7	7,740.0	46.0	40.5	-121.77	1,373.4	1,572.3	457.3	409.5	47.79	9.569		
9,100.0	7,500.0	9,206.3	7,740.0	46.9	41.6	-122.37	1,473.0	1,571.8	449.6	399.5	50.07	8.979		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-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)			
9,200.0	7,500.0	9,305.9	7,740.0	47.8	42.8	-123.00	1,572.6	1,571.3	441.9	389.6	52.35	8.442	
9,300.0	7,500.0	9,405.5	7,740.0	48.8	44.0	-123.65	1,672.2	1,570.7	434.3	379.7	54.62	7.953	
9,400.0	7,500.0	9,505.1	7,740.0	49.8	45.2	-124.32	1,771.8	1,570.2	426.8	370.0	56.86	7.506	
9,500.0	7,500.0	9,604.6	7,740.0	50.8	46.5	-125.02	1,871.3	1,569.7	419.4	360.3	59.07	7.099	
9,600.0	7,500.0	9,704.2	7,740.0	51.9	47.8	-125.74	1,970.9	1,569.2	412.0	350.7	61.25	6.726	
9,700.0	7,500.0	9,803.8	7,740.0	53.1	49.1	-126.49	2,070.5	1,568.6	404.6	341.3	63.37	6.386	
9,803.1	7,500.0	9,906.5	7,740.0	54.3	50.5	-127.29	2,173.2	1,568.1	397.1	331.6	65.49	6.064	
9,900.0	7,500.0	10,003.0	7,740.0	55.4	51.9	-128.07	2,269.7	1,567.6	390.2	322.8	67.42	5.787	
10,000.0	7,500.0	10,102.6	7,740.0	56.6	53.3	-128.91	2,369.3	1,567.1	383.1	313.7	69.34	5.525	
10,100.0	7,500.0	10,202.2	7,740.0	57.9	54.7	-129.77	2,468.9	1,566.6	376.1	304.9	71.17	5.284	
10,200.0	7,500.0	10,301.8	7,740.0	59.2	56.1	-130.67	2,568.5	1,566.0	369.1	296.2	72.91	5.063	
10,300.0	7,500.0	10,401.4	7,740.0	60.5	57.6	-131.61	2,668.0	1,565.5	362.3	287.7	74.55	4.860	
10,400.0	7,500.0	10,500.9	7,740.0	61.8	59.0	-132.57	2,767.6	1,565.0	355.5	279.5	76.07	4.674	
10,500.0	7,500.0	10,600.5	7,740.0	63.1	60.5	-133.58	2,867.2	1,564.5	348.9	271.4	77.47	4.504	
10,600.0	7,500.0	10,700.1	7,740.0	64.5	62.0	-134.62	2,966.8	1,564.0	342.4	263.7	78.73	4.349	
10,703.1	7,500.0	10,802.8	7,740.0	65.9	63.6	-135.74	3,069.5	1,563.4	335.8	255.9	79.88	4.204	
10,800.0	7,500.0	10,899.4	7,740.0	67.3	65.1	-136.69	3,166.0	1,562.9	330.3	248.6	81.69	4.043	
10,900.0	7,500.0	10,999.2	7,740.0	68.8	66.6	-137.49	3,265.8	1,562.4	325.8	242.2	83.66	3.895	
11,000.0	7,500.0	11,099.0	7,740.0	70.2	68.2	-138.09	3,365.7	1,561.9	322.6	236.8	85.79	3.761	
11,100.0	7,500.0	11,199.0	7,740.0	71.7	69.7	-138.47	3,465.7	1,561.3	320.6	232.5	88.15	3.637	
11,200.0	7,500.0	11,299.0	7,740.0	73.3	71.3	-138.64	3,565.7	1,560.8	319.8	229.0	90.79	3.522	
11,223.1	7,500.0	11,322.1	7,740.0	73.6	71.7	-138.64	3,588.8	1,560.7	319.7	228.3	91.45	3.496	
11,253.1	7,500.0	11,352.1	7,740.0	74.1	72.1	-138.63	3,618.8	1,560.5	319.8	227.5	92.32	3.464	
11,300.0	7,500.0	11,399.0	7,740.0	74.8	72.9	-138.60	3,665.7	1,560.3	320.0	226.5	93.44	3.424	
11,400.0	7,500.0	11,499.0	7,740.0	76.3	74.5	-138.53	3,765.7	1,559.8	320.3	224.5	95.81	3.343	
11,500.0	7,500.0	11,599.0	7,740.0	77.9	76.1	-138.46	3,865.7	1,559.2	320.6	222.4	98.20	3.265	
11,600.0	7,500.0	11,699.0	7,740.0	79.5	77.7	-138.39	3,965.6	1,558.7	321.0	220.4	100.60	3.191	
11,700.0	7,500.0	11,799.0	7,740.0	81.0	79.3	-138.32	4,065.6	1,558.2	321.3	218.3	103.01	3.120	
11,800.0	7,500.0	11,899.0	7,740.0	82.6	80.9	-138.25	4,165.6	1,557.7	321.7	216.3	105.42	3.051	
11,900.0	7,500.0	11,999.0	7,740.0	84.2	82.5	-138.18	4,265.6	1,557.2	322.0	214.2	107.85	2.986	
12,000.0	7,500.0	12,099.0	7,740.0	85.8	84.1	-138.11	4,365.6	1,556.6	322.4	212.1	110.28	2.923	
12,100.0	7,500.0	12,199.0	7,740.0	87.4	85.8	-138.04	4,465.6	1,556.1	322.7	210.0	112.72	2.863	
12,200.0	7,500.0	12,299.0	7,740.0	89.0	87.4	-137.97	4,565.6	1,555.6	323.1	207.9	115.16	2.805	
12,300.0	7,500.0	12,399.0	7,740.0	90.6	89.0	-137.90	4,665.6	1,555.1	323.4	205.8	117.62	2.750	
12,400.0	7,500.0	12,499.0	7,740.0	92.2	90.7	-137.84	4,765.6	1,554.5	323.8	203.7	120.08	2.696	
12,500.0	7,500.0	12,599.0	7,740.0	93.8	92.3	-137.77	4,865.6	1,554.0	324.1	201.6	122.55	2.645	
12,600.0	7,500.0	12,699.0	7,740.0	95.5	94.0	-137.70	4,965.6	1,553.5	324.5	199.5	125.03	2.595	
12,700.0	7,500.0	12,799.0	7,740.0	97.1	95.6	-137.63	5,065.6	1,553.0	324.8	197.3	127.52	2.547	
12,800.0	7,500.0	12,899.0	7,740.0	98.7	97.3	-137.56	5,165.6	1,552.4	325.2	195.2	130.01	2.501	
12,900.0	7,500.0	12,999.0	7,740.0	100.4	99.0	-137.49	5,265.6	1,551.9	325.6	193.0	132.51	2.457	
13,000.0	7,500.0	13,099.0	7,740.0	102.0	100.6	-137.43	5,365.6	1,551.4	325.9	190.9	135.02	2.414	
13,100.0	7,500.0	13,199.0	7,740.0	103.7	102.3	-137.36	5,465.6	1,550.9	326.3	188.7	137.53	2.372	
13,200.0	7,500.0	13,299.0	7,740.0	105.3	104.0	-137.29	5,565.6	1,550.3	326.6	186.6	140.05	2.332	
13,300.0	7,500.0	13,399.0	7,740.0	107.0	105.7	-137.22	5,665.6	1,549.8	327.0	184.4	142.57	2.293	
13,400.0	7,500.0	13,498.9	7,740.0	108.6	107.3	-137.16	5,765.6	1,549.3	327.3	182.2	145.11	2.256	
13,500.0	7,500.0	13,598.9	7,740.0	110.3	109.0	-137.09	5,865.6	1,548.8	327.7	180.0	147.65	2.219	
13,600.0	7,500.0	13,698.9	7,740.0	111.9	110.7	-137.02	5,965.6	1,548.3	328.0	177.9	150.19	2.184	
13,700.0	7,500.0	13,798.9	7,740.0	113.6	112.4	-136.96	6,065.6	1,547.7	328.4	175.7	152.74	2.150	
13,753.1	7,500.0	13,852.1	7,740.0	114.5	113.3	-136.92	6,118.7	1,547.5	328.6	174.5	154.10	2.132	
13,800.0	7,500.0	13,898.9	7,740.0	115.3	114.1	-136.86	6,165.6	1,547.2	328.9	173.2	155.70	2.112	
13,900.0	7,500.0	13,998.9	7,740.0	117.0	115.8	-136.58	6,265.6	1,546.7	330.5	171.0	159.53	2.072	
14,000.0	7,500.0	14,098.8	7,740.0	118.7	117.4	-136.07	6,365.5	1,546.2	333.5	169.5	163.94	2.034	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-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		
14,100.0	7,500.0	14,198.6	7,740.0	120.4	119.1	-135.34	6,465.3	1,545.6	337.8	168.9	168.94	2.000		
14,200.0	7,500.0	14,298.3	7,740.0	122.1	120.8	-134.43	6,564.9	1,545.1	343.6	169.1	174.46	1.969		
14,300.0	7,500.0	14,397.8	7,740.0	123.8	122.5	-133.34	6,664.4	1,544.6	350.8	170.4	180.45	1.944		
14,400.0	7,500.0	14,497.1	7,740.0	125.6	124.2	-132.10	6,763.7	1,544.1	359.6	172.8	186.84	1.925		
14,500.0	7,500.0	14,596.1	7,740.0	127.3	125.9	-130.75	6,862.7	1,543.6	370.0	176.5	193.51	1.912		
14,600.0	7,500.0	14,694.9	7,740.0	129.1	127.6	-129.30	6,961.5	1,543.0	382.1	181.7	200.39	1.907 SF		
14,683.9	7,500.0	14,777.4	7,740.0	130.5	129.0	-128.04	7,044.1	1,542.6	393.6	187.4	206.24	1.908		
14,700.0	7,500.0	14,793.3	7,740.0	130.8	129.2	-127.78	7,059.9	1,542.5	395.9	188.6	207.37	1.909		
14,756.3	7,500.0	14,844.9	7,740.0	131.8	130.1	-126.96	7,111.5	1,542.3	404.2	193.1	211.04	1.915		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-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		
0.0	0.0	0.0	0.0	0.0	0.0	-89.68	0.7	-129.9	129.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.68	0.7	-129.9	129.9	129.6	0.30	427.631		
200.0	200.0	200.0	200.0	0.3	0.3	-89.68	0.7	-129.9	129.9	129.2	0.65	198.951	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.53	0.7	-129.9	130.7	129.7	1.00	130.514		
400.0	400.0	398.5	398.5	0.7	0.7	178.84	1.4	-130.4	133.9	132.6	1.35	99.331		
500.0	499.9	496.7	496.7	0.9	0.8	179.66	3.3	-132.0	140.0	138.3	1.70	82.543		
600.0	599.7	594.6	594.5	1.1	1.0	-179.11	6.5	-134.7	148.9	146.9	2.05	72.817		
700.0	699.4	692.0	691.7	1.3	1.2	-177.61	11.0	-138.5	160.9	158.5	2.40	67.089		
800.0	798.9	790.7	790.1	1.5	1.4	-176.10	16.3	-142.9	175.3	172.6	2.75	63.675		
900.0	898.3	889.3	888.5	1.8	1.6	-174.86	21.5	-147.3	191.6	188.5	3.11	61.630		
1,000.0	997.4	987.6	986.5	2.0	1.8	-173.86	26.8	-151.7	209.7	206.2	3.46	60.531		
1,100.0	1,096.3	1,085.5	1,084.3	2.3	2.0	-173.07	32.0	-156.1	229.5	225.7	3.82	60.106		
1,200.0	1,194.9	1,183.2	1,181.7	2.7	2.2	-172.44	37.2	-160.5	251.1	246.9	4.17	60.177		
1,300.0	1,293.3	1,282.8	1,281.0	3.0	2.4	-171.85	43.0	-164.5	274.0	269.4	4.54	60.410		
1,400.0	1,391.2	1,382.9	1,380.9	3.4	2.7	-171.11	49.9	-167.3	297.6	292.7	4.91	60.635		
1,500.0	1,488.9	1,481.9	1,479.6	3.8	2.9	-170.29	57.9	-168.9	321.9	316.7	5.29	60.911		
1,600.0	1,586.1	1,578.5	1,575.7	4.3	3.1	-169.59	65.9	-170.1	347.8	342.1	5.66	61.423		
1,700.0	1,682.9	1,674.5	1,671.5	4.7	3.3	-169.02	73.9	-171.4	375.3	369.3	6.04	62.131		
1,800.0	1,779.3	1,770.1	1,766.7	5.2	3.5	-168.57	81.9	-172.6	404.5	398.1	6.42	62.999		
1,900.0	1,875.2	1,865.2	1,861.5	5.8	3.7	-168.21	89.8	-173.8	435.4	428.6	6.80	64.000		
2,000.0	1,970.5	1,959.8	1,955.7	6.3	3.9	-167.94	97.7	-175.1	467.9	460.7	7.19	65.113		
2,022.8	1,992.2	1,981.2	1,977.1	6.4	4.0	-167.89	99.5	-175.3	475.5	468.2	7.27	65.382		
2,100.0	2,065.5	2,054.0	2,049.6	6.9	4.1	-167.77	105.6	-176.3	501.5	493.9	7.58	66.122		
2,200.0	2,160.5	2,148.1	2,143.4	7.5	4.3	-167.65	113.4	-177.5	535.2	527.2	7.99	66.981		
2,300.0	2,255.5	2,242.3	2,237.2	8.0	4.5	-167.53	121.3	-178.7	568.8	560.4	8.40	67.744		
2,400.0	2,350.5	2,336.4	2,331.0	8.6	4.8	-167.43	129.1	-179.9	602.5	593.7	8.81	68.424		
2,500.0	2,445.5	2,430.6	2,424.9	9.2	5.0	-167.34	137.0	-181.1	636.2	626.9	9.21	69.035		
2,600.0	2,540.4	2,524.8	2,518.7	9.8	5.2	-167.26	144.8	-182.4	669.8	660.2	9.63	69.585		
2,700.0	2,635.4	2,618.9	2,612.5	10.4	5.4	-167.19	152.7	-183.6	703.5	693.5	10.04	70.084		
2,800.0	2,730.4	2,713.1	2,706.3	11.0	5.6	-167.13	160.5	-184.8	737.2	726.7	10.45	70.537		
2,900.0	2,825.4	2,807.2	2,800.1	11.6	5.8	-167.07	168.4	-186.0	770.8	760.0	10.86	70.950		
3,000.0	2,920.4	2,901.4	2,894.0	12.2	6.0	-167.01	176.2	-187.2	804.5	793.2	11.28	71.329		
3,100.0	3,015.4	2,995.6	2,987.8	12.8	6.2	-166.96	184.1	-188.4	838.2	826.5	11.69	71.676		
3,200.0	3,110.3	3,089.7	3,081.6	13.3	6.4	-166.91	191.9	-189.6	871.8	859.7	12.11	71.997		
3,300.0	3,205.3	3,183.9	3,175.4	13.9	6.7	-166.87	199.8	-190.9	905.5	893.0	12.53	72.293		
3,400.0	3,300.3	3,278.0	3,269.3	14.5	6.9	-166.83	207.6	-192.1	939.2	926.2	12.94	72.568		
3,500.0	3,395.3	3,372.2	3,363.1	15.1	7.1	-166.79	215.5	-193.3	972.9	959.5	13.36	72.823		
3,600.0	3,490.3	3,466.3	3,456.9	15.7	7.3	-166.76	223.3	-194.5	1,006.5	992.8	13.78	73.060		
3,700.0	3,585.2	3,560.5	3,550.7	16.3	7.5	-166.72	231.2	-195.7	1,040.2	1,026.0	14.19	73.282		
3,800.0	3,680.2	3,654.7	3,644.5	16.9	7.7	-166.69	239.0	-196.9	1,073.9	1,059.3	14.61	73.489		
3,900.0	3,775.2	3,748.8	3,738.4	17.5	7.9	-166.66	246.9	-198.2	1,107.6	1,092.5	15.03	73.684		
4,000.0	3,870.2	3,843.0	3,832.2	18.1	8.2	-166.64	254.7	-199.4	1,141.2	1,125.8	15.45	73.866		
4,100.0	3,965.2	3,937.1	3,926.0	18.7	8.4	-166.61	262.6	-200.6	1,174.9	1,159.0	15.87	74.038		
4,200.0	4,060.2	4,031.3	4,019.8	19.3	8.6	-166.59	270.4	-201.8	1,208.6	1,192.3	16.29	74.200		
4,300.0	4,155.1	4,125.5	4,113.7	19.9	8.8	-166.56	278.3	-203.0	1,242.3	1,225.5	16.71	74.352		
4,400.0	4,250.1	4,219.6	4,207.5	20.5	9.0	-166.54	286.1	-204.2	1,275.9	1,258.8	17.13	74.497		
4,500.0	4,345.1	4,313.8	4,301.3	21.1	9.2	-166.52	294.0	-205.4	1,309.6	1,292.1	17.55	74.633		
4,600.0	4,440.1	4,407.9	4,395.1	21.7	9.4	-166.50	301.8	-206.7	1,343.3	1,325.3	17.97	74.763		
4,700.0	4,535.1	4,502.1	4,489.0	22.3	9.7	-166.48	309.7	-207.9	1,377.0	1,358.6	18.39	74.886		
4,800.0	4,630.1	4,596.2	4,582.8	22.9	9.9	-166.47	317.5	-209.1	1,410.6	1,391.8	18.81	75.002		
4,900.0	4,725.0	4,690.4	4,676.6	23.5	10.1	-166.45	325.4	-210.3	1,444.3	1,425.1	19.23	75.114		
5,000.0	4,820.0	4,784.6	4,770.4	24.1	10.3	-166.43	333.2	-211.5	1,478.0	1,458.3	19.65	75.219		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,915.0	4,878.7	4,864.2	24.6	10.5	-166.42	341.1	-212.7	1,511.7	1,491.6	20.07	75.320	
5,200.0	5,010.0	4,972.9	4,958.1	25.2	10.7	-166.40	348.9	-213.9	1,545.3	1,524.8	20.49	75.417	
5,300.0	5,105.0	5,067.0	5,051.9	25.8	10.9	-166.39	356.8	-215.2	1,579.0	1,558.1	20.91	75.509	
5,400.0	5,199.9	5,161.2	5,145.7	26.4	11.1	-166.38	364.6	-216.4	1,612.7	1,591.4	21.33	75.597	
5,500.0	5,294.9	5,255.4	5,239.5	27.0	11.4	-166.36	372.5	-217.6	1,646.4	1,624.6	21.75	75.681	
5,600.0	5,389.9	5,349.5	5,333.4	27.6	11.6	-166.35	380.3	-218.8	1,680.0	1,657.9	22.18	75.762	
5,700.0	5,484.9	5,443.7	5,427.2	28.2	11.8	-166.34	388.2	-220.0	1,713.7	1,691.1	22.60	75.839	
5,800.0	5,579.9	5,537.8	5,521.0	28.8	12.0	-166.33	396.0	-221.2	1,747.4	1,724.4	23.02	75.914	
5,900.0	5,674.9	5,632.0	5,614.8	29.4	12.2	-166.32	403.9	-222.4	1,781.1	1,757.6	23.44	75.985	
6,000.0	5,769.8	5,726.1	5,708.6	30.0	12.4	-166.31	411.7	-223.7	1,814.7	1,790.9	23.86	76.054	
6,100.0	5,864.8	5,820.3	5,802.5	30.6	12.6	-166.30	419.6	-224.9	1,848.4	1,824.1	24.28	76.120	
6,200.0	5,959.8	5,914.5	5,896.3	31.2	12.9	-166.29	427.4	-226.1	1,882.1	1,857.4	24.70	76.184	
6,300.0	6,054.8	6,008.6	5,990.1	31.8	13.1	-166.28	435.3	-227.3	1,915.8	1,890.6	25.13	76.245	
6,400.0	6,149.8	6,102.8	6,083.9	32.4	13.3	-166.27	443.1	-228.5	1,949.5	1,923.9	25.55	76.304	
6,500.0	6,244.7	6,196.9	6,177.8	33.0	13.5	-166.26	451.0	-229.7	1,983.1	1,957.2	25.97	76.361	
6,600.0	6,339.7	6,291.1	6,271.6	33.6	13.7	-166.25	458.8	-231.0	2,016.8	1,990.4	26.39	76.416	
6,700.0	6,434.7	6,385.3	6,365.4	34.2	13.9	-166.24	466.7	-232.2	2,050.5	2,023.7	26.81	76.469	
6,800.0	6,529.7	6,479.4	6,459.2	34.8	14.2	-166.23	474.5	-233.4	2,084.2	2,056.9	27.24	76.520	
6,900.0	6,624.7	6,573.6	6,553.0	35.4	14.4	-166.23	482.4	-234.6	2,117.8	2,090.2	27.66	76.570	
7,000.0	6,719.7	6,667.7	6,646.9	36.0	14.6	-166.22	490.2	-235.8	2,151.5	2,123.4	28.08	76.618	
7,100.0	6,814.6	6,761.9	6,740.7	36.6	14.8	-166.21	498.1	-237.0	2,185.2	2,156.7	28.50	76.664	
7,200.0	6,909.6	6,856.0	6,834.5	37.2	15.0	-166.20	505.9	-238.2	2,218.9	2,189.9	28.93	76.709	
7,225.4	6,933.7	6,879.9	6,858.3	37.3	15.1	-166.20	507.9	-238.6	2,227.4	2,198.4	29.03	76.721	
7,250.0	6,957.1	7,500.0	7,397.1	37.5	13.9	-165.55	266.4	-245.5	2,235.2	2,208.6	26.60	84.022	
7,300.0	7,004.6	7,787.5	7,496.7	37.8	13.7	-157.26	0.0	-246.8	2,239.0	2,213.1	25.99	86.140	
7,350.0	7,051.7	7,769.4	7,494.5	38.0	13.7	-143.41	17.9	-246.8	2,243.3	2,217.2	26.12	85.901	
7,400.0	7,098.0	7,746.1	7,490.8	38.3	13.7	-132.05	40.9	-246.7	2,248.1	2,221.8	26.28	85.533	
7,450.0	7,143.3	7,721.6	7,485.9	38.5	13.6	-123.08	65.0	-246.7	2,253.2	2,226.7	26.52	84.953	
7,500.0	7,187.1	7,696.6	7,479.9	38.8	13.6	-116.01	89.2	-246.6	2,258.5	2,231.7	26.81	84.252	
7,550.0	7,229.2	7,671.5	7,472.8	39.0	13.6	-110.35	113.3	-246.5	2,263.9	2,236.8	27.14	83.412	
7,600.0	7,269.2	7,646.3	7,464.6	39.2	13.6	-105.74	137.1	-246.4	2,269.3	2,241.8	27.49	82.558	
7,650.0	7,306.8	7,621.2	7,455.4	39.4	13.7	-101.92	160.4	-246.3	2,274.7	2,246.8	27.84	81.692	
7,700.0	7,341.7	7,596.1	7,445.2	39.6	13.7	-98.71	183.4	-246.2	2,279.8	2,251.6	28.17	80.918	
7,750.0	7,373.7	7,571.1	7,434.0	39.8	13.7	-95.98	205.7	-246.0	2,284.5	2,256.1	28.48	80.228	
7,800.0	7,402.5	7,546.2	7,421.9	39.9	13.8	-93.66	227.5	-245.9	2,288.9	2,260.2	28.72	79.687	
7,850.0	7,427.9	7,521.4	7,409.0	40.1	13.9	-91.67	248.6	-245.7	2,292.8	2,263.9	28.93	79.263	
7,900.0	7,449.7	7,496.7	7,395.2	40.2	13.9	-89.99	269.1	-245.5	2,296.1	2,267.0	29.07	78.985	
7,950.0	7,467.8	7,472.2	7,380.6	40.4	14.0	-88.58	288.9	-245.3	2,298.7	2,269.5	29.17	78.802	
8,000.0	7,481.9	7,450.0	7,366.7	40.6	14.1	-87.47	306.1	-245.1	2,300.5	2,271.3	29.22	78.734	
8,050.0	7,492.0	7,423.3	7,349.1	40.7	14.2	-86.51	326.2	-244.9	2,301.6	2,272.3	29.26	78.648	
8,100.0	7,498.1	7,400.0	7,333.0	40.9	14.2	-85.85	343.0	-244.7	2,301.8	2,272.5	29.28	78.609	
8,148.1	7,500.0	7,375.8	7,315.6	41.0	14.3	-85.40	359.8	-244.5	2,301.2	2,271.9	29.30	78.529	
8,200.0	7,500.0	7,350.0	7,296.2	41.2	14.4	-84.92	376.9	-244.2	2,300.4	2,270.5	29.84	77.095	
8,224.2	7,500.0	7,341.6	7,289.8	41.2	14.5	-84.76	382.3	-244.1	2,300.3	2,270.2	30.10	76.415	
8,300.0	7,500.0	7,311.8	7,266.2	41.5	14.6	-84.17	400.5	-243.8	2,301.3	2,270.4	30.94	74.383	
8,400.0	7,500.0	7,278.1	7,238.5	42.0	14.7	-83.48	419.7	-243.5	2,305.6	2,273.5	32.13	71.750	
8,500.0	7,500.0	7,250.0	7,214.6	42.5	14.8	-82.88	434.3	-243.2	2,313.5	2,280.1	33.41	69.253	
8,600.0	7,500.0	7,225.2	7,192.9	43.1	14.8	-82.34	446.3	-242.9	2,325.1	2,290.4	34.74	66.935	
8,700.0	7,500.0	7,200.0	7,170.3	43.7	14.9	-81.78	457.5	-242.6	2,340.5	2,304.4	36.13	64.787	
8,800.0	7,500.0	7,200.0	7,170.3	44.4	14.9	-81.78	457.5	-242.6	2,359.7	2,322.2	37.54	62.856	
8,900.0	7,500.0	7,170.3	7,143.1	45.2	15.0	-81.10	469.4	-242.2	2,382.6	2,343.6	39.01	61.083	
9,000.0	7,500.0	7,150.0	7,124.1	46.0	15.0	-80.64	476.7	-242.0	2,409.2	2,368.7	40.50	59.493	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-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)				
9,100.0	7,500.0	7,150.0	7,124.1	46.9	15.0	-80.64	476.7	-242.0	2,439.5	2,397.5	42.02	58.060		
9,200.0	7,500.0	7,133.0	7,108.1	47.8	15.1	-80.24	482.4	-241.8	2,473.2	2,429.7	43.54	56.797		
9,300.0	7,500.0	7,123.1	7,098.7	48.8	15.1	-80.01	485.4	-241.7	2,510.4	2,465.3	45.10	55.666		
9,400.0	7,500.0	7,100.0	7,076.5	49.8	15.1	-79.47	491.9	-241.4	2,551.0	2,504.3	46.65	54.687		
9,500.0	7,500.0	7,100.0	7,076.5	50.8	15.1	-79.47	491.9	-241.4	2,594.4	2,546.2	48.24	53.781		
9,600.0	7,500.0	7,100.0	7,076.5	51.9	15.1	-79.47	491.9	-241.4	2,641.0	2,591.1	49.85	52.980		
9,700.0	7,500.0	7,100.0	7,076.5	53.1	15.1	-79.47	491.9	-241.4	2,690.4	2,639.0	51.47	52.274		
9,803.1	7,500.0	7,100.0	7,076.5	54.3	15.1	-79.47	491.9	-241.4	2,744.3	2,691.2	53.15	51.635		
9,900.0	7,500.0	7,080.5	7,057.5	55.4	15.2	-79.00	496.6	-241.1	2,797.2	2,742.5	54.68	51.157		
10,000.0	7,500.0	7,075.3	7,052.5	56.6	15.2	-78.88	497.8	-241.1	2,854.3	2,798.0	56.31	50.692		
10,100.0	7,500.0	7,070.5	7,047.8	57.9	15.2	-78.76	498.8	-241.0	2,913.6	2,855.7	57.94	50.287		
10,200.0	7,500.0	7,050.0	7,027.7	59.2	15.2	-78.28	502.8	-240.7	2,975.3	2,915.8	59.52	49.987		
10,300.0	7,500.0	7,050.0	7,027.7	60.5	15.2	-78.28	502.8	-240.7	3,038.8	2,977.6	61.18	49.670		
10,400.0	7,500.0	7,050.0	7,027.7	61.8	15.2	-78.28	502.8	-240.7	3,104.1	3,041.3	62.84	49.396		
10,500.0	7,500.0	7,050.0	7,027.7	63.1	15.2	-78.28	502.8	-240.7	3,171.3	3,106.8	64.51	49.161		
10,600.0	7,500.0	7,050.0	7,027.7	64.5	15.2	-78.28	502.8	-240.7	3,240.2	3,174.0	66.18	48.961		
10,703.1	7,500.0	7,050.0	7,027.7	65.9	15.2	-78.28	502.8	-240.7	3,312.9	3,245.0	67.91	48.786		
10,800.0	7,500.0	7,050.0	7,027.7	67.3	15.2	-78.07	502.8	-240.7	3,383.1	3,313.1	70.05	48.295		
10,900.0	7,500.0	7,050.0	7,027.7	68.8	15.2	-77.83	502.8	-240.7	3,458.1	3,385.9	72.24	47.868		
11,000.0	7,500.0	7,050.0	7,027.7	70.2	15.2	-77.57	502.8	-240.7	3,535.4	3,461.0	74.41	47.512		
11,100.0	7,500.0	7,050.0	7,027.7	71.7	15.2	-77.29	502.8	-240.7	3,614.9	3,538.3	76.55	47.222		
11,200.0	7,500.0	7,050.0	7,027.7	73.3	15.2	-76.97	502.8	-240.7	3,696.3	3,617.7	78.66	46.991		
11,253.1	7,500.0	7,050.0	7,027.7	74.1	15.2	-76.79	502.8	-240.7	3,740.3	3,660.6	79.77	46.891 SF		
11,300.0	7,500.0	7,050.0	7,027.7	74.8	15.2	-76.79	502.8	-240.7	3,779.5	3,698.9	80.55	46.921		
11,400.0	7,500.0	7,050.0	7,027.7	76.3	15.2	-76.79	502.8	-240.7	3,863.6	3,781.4	82.22	46.989		
11,500.0	7,500.0	7,028.1	7,006.1	77.9	15.2	-76.21	506.2	-240.5	3,948.0	3,864.3	83.71	47.160		
11,600.0	7,500.0	7,026.1	7,004.2	79.5	15.2	-76.16	506.5	-240.4	4,033.5	3,948.1	85.37	47.247		
11,700.0	7,500.0	7,024.3	7,002.3	81.0	15.2	-76.11	506.7	-240.4	4,119.6	4,032.5	87.03	47.337		
11,800.0	7,500.0	7,022.5	7,000.6	82.6	15.2	-76.06	507.0	-240.4	4,206.3	4,117.6	88.69	47.429		
11,900.0	7,500.0	7,000.0	6,978.2	84.2	15.2	-75.46	509.4	-240.1	4,294.0	4,203.8	90.14	47.634		
12,000.0	7,500.0	7,000.0	6,978.2	85.8	15.2	-75.46	509.4	-240.1	4,381.7	4,289.9	91.82	47.722		
12,100.0	7,500.0	7,000.0	6,978.2	87.4	15.2	-75.46	509.4	-240.1	4,470.0	4,376.5	93.49	47.812		
12,200.0	7,500.0	7,000.0	6,978.2	89.0	15.2	-75.46	509.4	-240.1	4,558.8	4,463.6	95.17	47.904		
12,300.0	7,500.0	7,000.0	6,978.2	90.6	15.2	-75.46	509.4	-240.1	4,648.0	4,551.2	96.84	47.997		
12,400.0	7,500.0	7,000.0	6,978.2	92.2	15.2	-75.46	509.4	-240.1	4,737.7	4,639.2	98.52	48.090		
12,500.0	7,500.0	7,000.0	6,978.2	93.8	15.2	-75.46	509.4	-240.1	4,827.7	4,727.5	100.19	48.184		
12,600.0	7,500.0	7,000.0	6,978.2	95.5	15.2	-75.46	509.4	-240.1	4,918.2	4,816.3	101.87	48.278		
12,700.0	7,500.0	7,000.0	6,978.2	97.1	15.2	-75.46	509.4	-240.1	5,009.0	4,905.4	103.55	48.372		
12,800.0	7,500.0	7,000.0	6,978.2	98.7	15.2	-75.46	509.4	-240.1	5,100.1	4,994.9	105.23	48.466		
12,900.0	7,500.0	7,000.0	6,978.2	100.4	15.2	-75.46	509.4	-240.1	5,191.6	5,084.7	106.91	48.560		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	0.7	-120.1	120.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.7	-120.1	120.1	119.8	0.30	395.375		
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.7	-120.1	120.1	119.4	0.65	183.945 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.56	0.7	-120.1	120.9	119.9	1.00	120.735		
400.0	400.0	400.0	400.0	0.7	0.7	178.59	0.7	-120.1	123.6	122.2	1.35	91.500		
500.0	499.9	500.8	500.8	0.9	0.9	179.00	1.5	-119.7	127.5	125.8	1.70	74.995		
600.0	599.7	601.6	601.6	1.1	1.0	-179.91	3.9	-118.5	132.6	130.5	2.05	64.563		
700.0	699.4	702.3	702.2	1.3	1.2	-178.25	7.9	-116.6	138.7	136.3	2.41	57.529		
800.0	798.9	802.8	802.5	1.5	1.4	-176.11	13.5	-113.9	146.0	143.2	2.78	52.588		
900.0	898.3	903.0	902.4	1.8	1.6	-173.63	20.6	-110.4	154.7	151.6	3.16	49.032		
1,000.0	997.4	1,002.3	1,001.2	2.0	1.8	-171.25	28.3	-106.6	165.2	161.6	3.54	46.650		
1,100.0	1,096.3	1,101.3	1,099.9	2.3	2.0	-169.26	36.1	-102.9	177.6	173.7	3.93	45.153		
1,200.0	1,194.9	1,200.2	1,198.4	2.7	2.3	-167.63	43.8	-99.1	191.9	187.5	4.33	44.297		
1,300.0	1,293.3	1,298.8	1,296.6	3.0	2.5	-166.33	51.5	-95.4	208.0	203.2	4.74	43.917		
1,400.0	1,391.2	1,397.1	1,394.6	3.4	2.7	-165.31	59.1	-91.6	225.8	220.7	5.14	43.896		
1,500.0	1,488.9	1,495.1	1,492.2	3.8	2.9	-164.54	66.8	-87.9	245.3	239.8	5.56	44.154		
1,600.0	1,586.1	1,592.8	1,589.6	4.3	3.1	-163.98	74.4	-84.2	266.6	260.6	5.97	44.633		
1,700.0	1,682.9	1,690.1	1,686.5	4.7	3.4	-163.58	82.0	-80.5	289.4	283.0	6.39	45.291		
1,800.0	1,779.3	1,787.1	1,783.1	5.2	3.6	-163.32	89.6	-76.8	313.9	307.1	6.81	46.095		
1,900.0	1,875.2	1,883.6	1,879.3	5.8	3.8	-163.17	97.1	-73.2	340.0	332.8	7.23	47.022		
2,000.0	1,970.5	1,979.7	1,975.0	6.3	4.0	-163.11	104.6	-69.5	367.8	360.1	7.65	48.055		
2,022.8	1,992.2	2,001.5	1,996.7	6.4	4.1	-163.11	106.3	-68.7	374.3	366.5	7.75	48.305		
2,100.0	2,065.5	2,075.4	2,070.4	6.9	4.2	-163.16	112.1	-65.9	396.6	388.5	8.09	49.046		
2,200.0	2,160.5	2,171.2	2,165.7	7.5	4.5	-163.22	119.6	-62.2	425.5	417.0	8.52	49.912		
2,300.0	2,255.5	2,266.9	2,261.1	8.0	4.7	-163.28	127.1	-58.6	454.4	445.4	8.96	50.687		
2,400.0	2,350.5	2,362.7	2,356.5	8.6	4.9	-163.33	134.5	-55.0	483.3	473.9	9.41	51.384		
2,500.0	2,445.5	2,458.4	2,451.9	9.2	5.1	-163.37	142.0	-51.3	512.2	502.3	9.85	52.015		
2,600.0	2,540.4	2,554.1	2,547.2	9.8	5.3	-163.41	149.5	-47.7	541.1	530.8	10.29	52.589		
2,700.0	2,635.4	2,649.9	2,642.6	10.4	5.6	-163.44	157.0	-44.0	569.9	559.2	10.73	53.117		
2,800.0	2,730.4	2,745.6	2,738.0	11.0	5.8	-163.47	164.4	-40.4	598.8	587.7	11.17	53.592		
2,900.0	2,825.4	2,841.3	2,833.4	11.6	6.0	-163.50	171.9	-36.8	627.7	616.1	11.62	54.033		
3,000.0	2,920.4	2,937.1	2,928.7	12.2	6.2	-163.53	179.4	-33.1	656.6	644.6	12.06	54.439		
3,100.0	3,015.4	3,032.8	3,024.1	12.8	6.4	-163.55	186.9	-29.5	685.5	673.0	12.51	54.815		
3,200.0	3,110.3	3,128.5	3,119.5	13.3	6.7	-163.57	194.3	-25.8	714.4	701.5	12.95	55.164		
3,300.0	3,205.3	3,224.3	3,214.8	13.9	6.9	-163.59	201.8	-22.2	743.3	729.9	13.40	55.489		
3,400.0	3,300.3	3,320.0	3,310.2	14.5	7.1	-163.61	209.3	-18.6	772.2	758.4	13.84	55.792		
3,500.0	3,395.3	3,415.7	3,405.6	15.1	7.3	-163.63	216.8	-14.9	801.1	786.8	14.29	56.075		
3,600.0	3,490.3	3,511.5	3,501.0	15.7	7.5	-163.64	224.2	-11.3	830.0	815.3	14.73	56.340		
3,700.0	3,585.2	3,607.2	3,596.3	16.3	7.8	-163.66	231.7	-7.7	858.9	843.7	15.18	56.589		
3,800.0	3,680.2	3,702.9	3,691.7	16.9	8.0	-163.67	239.2	-4.0	887.8	872.2	15.62	56.823		
3,900.0	3,775.2	3,798.7	3,787.1	17.5	8.2	-163.68	246.7	-0.4	916.7	900.6	16.07	57.043		
4,000.0	3,870.2	3,894.4	3,882.5	18.1	8.4	-163.70	254.1	3.3	945.6	929.0	16.52	57.252		
4,100.0	3,965.2	3,990.1	3,977.8	18.7	8.6	-163.71	261.6	6.9	974.5	957.5	16.96	57.448		
4,200.0	4,060.2	4,085.9	4,073.2	19.3	8.9	-163.72	269.1	10.5	1,003.3	985.9	17.41	57.634		
4,300.0	4,155.1	4,181.6	4,168.6	19.9	9.1	-163.73	276.6	14.2	1,032.2	1,014.4	17.86	57.811		
4,400.0	4,250.1	4,277.3	4,264.0	20.5	9.3	-163.74	284.0	17.8	1,061.1	1,042.8	18.30	57.978		
4,500.0	4,345.1	4,373.1	4,359.3	21.1	9.5	-163.75	291.5	21.4	1,090.0	1,071.3	18.75	58.138		
4,600.0	4,440.1	4,468.8	4,454.7	21.7	9.7	-163.76	299.0	25.1	1,118.9	1,099.7	19.20	58.289		
4,700.0	4,535.1	4,564.5	4,550.1	22.3	10.0	-163.77	306.5	28.7	1,147.8	1,128.2	19.64	58.434		
4,800.0	4,630.1	4,660.3	4,645.4	22.9	10.2	-163.77	313.9	32.4	1,176.7	1,156.6	20.09	58.571		
4,900.0	4,725.0	4,756.0	4,740.8	23.5	10.4	-163.78	321.4	36.0	1,205.6	1,185.1	20.54	58.703		
5,000.0	4,820.0	4,851.8	4,836.2	24.1	10.6	-163.79	328.9	39.6	1,234.5	1,213.5	20.98	58.829		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	4,947.5	4,931.6	24.6	10.8	-163.79	336.4	43.3	1,263.4	1,242.0	21.43	58.949		
5,200.0	5,010.0	5,043.2	5,026.9	25.2	11.1	-163.80	343.8	46.9	1,292.3	1,270.4	21.88	59.064		
5,300.0	5,105.0	5,139.0	5,122.3	25.8	11.3	-163.81	351.3	50.5	1,321.2	1,298.9	22.33	59.175		
5,400.0	5,199.9	5,234.7	5,217.7	26.4	11.5	-163.81	358.8	54.2	1,350.1	1,327.3	22.77	59.281		
5,500.0	5,294.9	5,330.4	5,313.1	27.0	11.7	-163.82	366.3	57.8	1,379.0	1,355.7	23.22	59.383		
5,600.0	5,389.9	5,426.2	5,408.4	27.6	12.0	-163.82	373.7	61.5	1,407.9	1,384.2	23.67	59.481		
5,700.0	5,484.9	5,521.9	5,503.8	28.2	12.2	-163.83	381.2	65.1	1,436.8	1,412.6	24.12	59.575		
5,800.0	5,579.9	5,617.6	5,599.2	28.8	12.4	-163.83	388.7	68.7	1,465.6	1,441.1	24.56	59.665		
5,900.0	5,674.9	5,713.4	5,694.5	29.4	12.6	-163.84	396.2	72.4	1,494.5	1,469.5	25.01	59.753		
6,000.0	5,769.8	5,809.1	5,789.9	30.0	12.8	-163.84	403.6	76.0	1,523.4	1,498.0	25.46	59.837		
6,100.0	5,864.8	5,904.8	5,885.3	30.6	13.1	-163.85	411.1	79.6	1,552.3	1,526.4	25.91	59.918		
6,200.0	5,959.8	6,000.6	5,980.7	31.2	13.3	-163.85	418.6	83.3	1,581.2	1,554.9	26.36	59.996		
6,300.0	6,054.8	6,096.3	6,076.0	31.8	13.5	-163.86	426.1	86.9	1,610.1	1,583.3	26.80	60.072		
6,400.0	6,149.8	6,192.0	6,171.4	32.4	13.7	-163.86	433.5	90.6	1,639.0	1,611.8	27.25	60.145		
6,500.0	6,244.7	6,287.8	6,266.8	33.0	13.9	-163.86	441.0	94.2	1,667.9	1,640.2	27.70	60.215		
6,600.0	6,339.7	6,383.5	6,362.2	33.6	14.2	-163.87	448.5	97.8	1,696.8	1,668.7	28.15	60.283		
6,700.0	6,434.7	6,479.2	6,457.5	34.2	14.4	-163.87	456.0	101.5	1,725.7	1,697.1	28.59	60.350		
6,800.0	6,529.7	6,575.0	6,552.9	34.8	14.6	-163.88	463.4	105.1	1,754.6	1,725.5	29.04	60.414		
6,900.0	6,624.7	6,670.7	6,648.3	35.4	14.8	-163.88	470.9	108.7	1,783.5	1,754.0	29.49	60.476		
7,000.0	6,719.7	6,766.4	6,743.7	36.0	15.0	-163.88	478.4	112.4	1,812.4	1,782.4	29.94	60.536		
7,100.0	6,814.6	6,862.2	6,839.0	36.6	15.3	-163.89	485.9	116.0	1,841.3	1,810.9	30.39	60.594		
7,200.0	6,909.6	6,957.9	6,934.4	37.2	15.5	-163.89	493.3	119.7	1,870.2	1,839.3	30.84	60.651		
7,225.4	6,933.7	6,982.2	6,958.6	37.3	15.5	-163.89	495.2	120.6	1,877.5	1,846.5	30.95	60.665		
7,250.0	6,957.1	7,005.8	6,982.1	37.5	15.6	-155.74	497.1	121.5	1,884.4	1,853.0	31.37	60.070		
7,300.0	7,004.6	7,054.0	7,030.1	37.8	15.7	-139.76	500.8	123.3	1,897.2	1,865.1	32.13	59.044		
7,350.0	7,051.7	7,102.1	7,078.0	38.0	15.8	-126.02	504.6	125.1	1,908.2	1,875.5	32.73	58.303		
7,400.0	7,098.0	7,204.8	7,180.5	38.3	16.0	-115.77	509.7	129.0	1,917.4	1,884.4	33.00	58.096		
7,450.0	7,143.3	7,250.7	7,226.0	38.5	15.2	-117.04	332.1	144.4	1,918.5	1,889.5	28.97	66.216		
7,500.0	7,187.1	7,236.5	7,211.8	38.8	14.9	-113.61	269.9	146.3	1,916.9	1,888.7	28.20	67.978		
7,550.0	7,229.2	7,278.6	7,253.9	39.0	14.9	-109.77	255.7	146.7	1,915.3	1,887.2	28.13	68.085		
7,600.0	7,269.2	7,318.6	7,293.9	39.2	14.9	-106.36	257.8	146.6	1,914.0	1,885.8	28.25	67.751		
7,650.0	7,306.8	7,356.2	7,331.5	39.4	14.9	-103.43	266.8	146.4	1,913.1	1,884.6	28.45	67.254		
7,700.0	7,341.7	7,391.1	7,366.4	39.6	15.0	-100.92	279.2	146.1	1,912.3	1,883.7	28.67	66.703		
7,750.0	7,373.7	7,423.1	7,398.4	39.8	15.0	-98.77	293.3	145.6	1,911.8	1,882.9	28.90	66.156		
7,800.0	7,402.5	7,451.9	7,427.2	39.9	15.1	-96.90	308.2	145.2	1,911.4	1,882.3	29.12	65.638		
7,850.0	7,427.9	7,477.3	7,452.6	40.1	15.1	-95.29	323.5	144.7	1,911.0	1,881.7	29.32	65.173		
7,900.0	7,449.7	7,499.1	7,475.0	40.2	15.2	-93.90	338.8	144.1	1,910.6	1,881.1	29.49	64.778		
7,950.0	7,467.8	7,517.2	7,493.1	40.4	15.3	-92.71	353.9	143.5	1,910.1	1,880.5	29.64	64.451		
8,000.0	7,481.9	7,531.3	7,507.2	40.6	15.3	-91.70	368.7	142.9	1,909.4	1,879.7	29.75	64.193		
8,050.0	7,492.0	7,541.4	7,517.3	40.7	15.4	-90.87	383.0	142.3	1,908.6	1,878.7	29.82	63.997		
8,100.0	7,498.1	7,547.5	7,523.4	40.9	15.5	-90.21	396.7	141.6	1,907.4	1,877.5	29.87	63.851		
8,148.1	7,500.0	7,549.9	7,525.8	41.0	15.5	-89.74	409.3	140.9	1,905.9	1,876.0	29.90	63.752		
8,200.0	7,500.0	7,549.9	7,525.8	41.2	15.6	-89.18	421.5	140.2	1,904.7	1,874.3	30.41	62.644		
8,232.4	7,500.0	7,549.9	7,525.8	41.3	15.6	-88.82	428.9	139.7	1,904.5	1,873.7	30.76	61.921		
8,300.0	7,500.0	7,477.9	7,441.7	41.5	15.7	-88.25	439.9	139.0	1,905.5	1,874.0	31.47	60.551		
8,400.0	7,500.0	7,450.0	7,416.9	42.0	15.8	-87.50	452.6	138.1	1,910.7	1,878.1	32.63	58.553		
8,500.0	7,500.0	7,424.1	7,393.4	42.5	15.8	-86.79	463.4	137.2	1,920.5	1,886.7	33.87	56.695		
8,600.0	7,500.0	7,400.0	7,371.0	43.1	15.9	-86.12	472.4	136.3	1,935.0	1,899.8	35.19	54.986		
8,700.0	7,500.0	7,386.6	7,358.4	43.7	15.9	-85.75	477.1	135.8	1,954.1	1,917.6	36.56	53.454		
8,800.0	7,500.0	7,371.8	7,344.4	44.4	15.9	-85.33	481.8	135.3	1,977.9	1,939.9	37.97	52.085		
8,900.0	7,500.0	7,350.0	7,323.6	45.2	16.0	-84.71	488.1	134.5	2,006.2	1,966.7	39.43	50.880		
9,000.0	7,500.0	7,350.0	7,323.6	46.0	16.0	-84.71	488.1	134.5	2,038.7	1,997.8	40.93	49.811		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,500.0	7,350.0	7,323.6	46.9	16.0	-84.71	488.1	134.5	2,075.6	2,033.1	42.46	48.884	
9,200.0	7,500.0	7,329.5	7,303.8	47.8	16.0	-84.12	493.4	133.7	2,116.2	2,072.2	43.99	48.111	
9,300.0	7,500.0	7,321.8	7,296.3	48.8	16.0	-83.89	495.2	133.5	2,160.7	2,115.2	45.55	47.437	
9,400.0	7,500.0	7,300.0	7,275.0	49.8	16.0	-83.26	499.7	132.6	2,209.0	2,161.9	47.10	46.895	
9,500.0	7,500.0	7,300.0	7,275.0	50.8	16.0	-83.26	499.7	132.6	2,260.3	2,211.6	48.71	46.401	
9,600.0	7,500.0	7,300.0	7,275.0	51.9	16.0	-83.26	499.7	132.6	2,314.8	2,264.4	50.33	45.988	
9,700.0	7,500.0	7,300.0	7,275.0	53.1	16.0	-83.26	499.7	132.6	2,372.2	2,320.2	51.97	45.649	
9,803.1	7,500.0	7,300.0	7,275.0	54.3	16.0	-83.26	499.7	132.6	2,434.4	2,380.7	53.66	45.365	
9,900.0	7,500.0	7,300.0	7,275.0	55.4	16.0	-83.26	499.7	132.6	2,495.2	2,439.9	55.26	45.152	
10,000.0	7,500.0	7,300.0	7,275.0	56.6	16.0	-83.26	499.7	132.6	2,560.3	2,503.4	56.92	44.979	
10,100.0	7,500.0	7,300.0	7,275.0	57.9	16.0	-83.26	499.7	132.6	2,627.7	2,569.1	58.59	44.848	
10,200.0	7,500.0	7,277.7	7,253.0	59.2	16.0	-82.61	503.4	131.8	2,696.6	2,636.4	60.19	44.804	
10,300.0	7,500.0	7,274.5	7,249.9	60.5	16.0	-82.52	503.9	131.7	2,767.7	2,705.8	61.85	44.747	
10,400.0	7,500.0	7,271.6	7,246.9	61.8	16.0	-82.43	504.3	131.6	2,840.5	2,777.0	63.52	44.717	
10,500.0	7,500.0	7,250.0	7,225.5	63.1	16.0	-81.80	506.9	130.8	2,915.2	2,850.1	65.12	44.769	
10,600.0	7,500.0	7,250.0	7,225.5	64.5	16.0	-81.80	506.9	130.8	2,991.0	2,924.2	66.81	44.773	
10,703.1	7,500.0	7,250.0	7,225.5	65.9	16.0	-81.80	506.9	130.8	3,070.7	3,002.2	68.55	44.795	
10,800.0	7,500.0	7,250.0	7,225.5	67.3	16.0	-81.62	506.9	130.8	3,147.2	3,076.4	70.79	44.457	
10,900.0	7,500.0	7,250.0	7,225.5	68.8	16.0	-81.42	506.9	130.8	3,228.4	3,155.3	73.09	44.169	
11,000.0	7,500.0	7,250.0	7,225.5	70.2	16.0	-81.19	506.9	130.8	3,311.5	3,236.2	75.37	43.937	
11,100.0	7,500.0	7,250.0	7,225.5	71.7	16.0	-80.94	506.9	130.8	3,396.5	3,318.9	77.62	43.756	
11,200.0	7,500.0	7,250.0	7,225.5	73.3	16.0	-80.67	506.9	130.8	3,483.1	3,403.3	79.85	43.620	
11,253.1	7,500.0	7,250.0	7,225.5	74.1	16.0	-80.51	506.9	130.8	3,529.8	3,448.8	81.02	43.565 SF	
11,300.0	7,500.0	7,250.0	7,225.5	74.8	16.0	-80.51	506.9	130.8	3,571.2	3,489.4	81.82	43.649	
11,400.0	7,500.0	7,250.0	7,225.5	76.3	16.0	-80.51	506.9	130.8	3,660.0	3,576.5	83.51	43.826	
11,500.0	7,500.0	7,250.0	7,225.5	77.9	16.0	-80.51	506.9	130.8	3,749.3	3,664.1	85.21	44.002	
11,600.0	7,500.0	7,250.0	7,225.5	79.5	16.0	-80.51	506.9	130.8	3,839.2	3,752.3	86.90	44.177	
11,700.0	7,500.0	7,250.0	7,225.5	81.0	16.0	-80.51	506.9	130.8	3,929.5	3,840.9	88.60	44.350	
11,800.0	7,500.0	7,250.0	7,225.5	82.6	16.0	-80.51	506.9	130.8	4,020.4	3,930.0	90.30	44.520	
11,900.0	7,500.0	7,250.0	7,225.5	84.2	16.0	-80.51	506.9	130.8	4,111.6	4,019.6	92.01	44.688	
12,000.0	7,500.0	7,250.0	7,225.5	85.8	16.0	-80.51	506.9	130.8	4,203.2	4,109.5	93.71	44.854	
12,100.0	7,500.0	7,250.0	7,225.5	87.4	16.0	-80.51	506.9	130.8	4,295.2	4,199.8	95.41	45.017	
12,200.0	7,500.0	7,250.0	7,225.5	89.0	16.0	-80.51	506.9	130.8	4,387.6	4,290.5	97.12	45.178	
12,300.0	7,500.0	7,250.0	7,225.5	90.6	16.0	-80.51	506.9	130.8	4,480.3	4,381.5	98.83	45.336	
12,400.0	7,500.0	7,250.0	7,225.5	92.2	16.0	-80.51	506.9	130.8	4,573.3	4,472.8	100.53	45.491	
12,500.0	7,500.0	7,250.0	7,225.5	93.8	16.0	-80.51	506.9	130.8	4,666.6	4,564.3	102.24	45.643	
12,600.0	7,500.0	7,250.0	7,225.5	95.5	16.0	-80.51	506.9	130.8	4,760.1	4,656.2	103.95	45.793	
12,700.0	7,500.0	7,250.0	7,225.5	97.1	16.0	-80.51	506.9	130.8	4,854.0	4,748.3	105.66	45.939	
12,800.0	7,500.0	7,250.0	7,225.5	98.7	16.0	-80.51	506.9	130.8	4,948.0	4,840.7	107.37	46.084	
12,900.0	7,500.0	7,250.0	7,225.5	100.4	16.0	-80.51	506.9	130.8	5,042.3	4,933.2	109.08	46.225	
13,000.0	7,500.0	7,250.0	7,225.5	102.0	16.0	-80.51	506.9	130.8	5,136.8	5,026.0	110.79	46.364	
13,100.0	7,500.0	7,250.0	7,225.5	103.7	16.0	-80.51	506.9	130.8	5,231.5	5,119.0	112.51	46.500	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.62	0.7	-110.0	110.0				
100.0	100.0	100.0	100.0	0.2	0.2	-89.62	0.7	-110.0	110.0	109.7	0.30	362.198	
200.0	200.0	200.0	200.0	0.3	0.3	-89.62	0.7	-110.0	110.0	109.3	0.65	168.509 CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.59	0.7	-110.0	110.9	109.9	1.00	110.677	
400.0	400.0	400.0	400.0	0.7	0.7	178.62	0.7	-110.0	113.5	112.1	1.35	84.039	
500.0	499.9	499.9	499.9	0.9	0.8	178.67	0.7	-110.0	117.8	116.1	1.70	69.379	
600.0	599.7	601.0	601.0	1.1	1.0	179.06	1.4	-109.4	123.4	121.3	2.05	60.230	
700.0	699.4	702.2	702.2	1.3	1.2	-179.96	3.5	-107.7	129.6	127.2	2.40	54.002	
800.0	798.9	803.3	803.2	1.5	1.4	-178.47	6.9	-104.9	136.6	133.8	2.75	49.568	
900.0	898.3	904.3	904.0	1.8	1.6	-176.59	11.7	-100.9	144.3	141.2	3.12	46.310	
1,000.0	997.4	1,005.2	1,004.6	2.0	1.8	-174.39	17.9	-95.8	153.0	149.5	3.49	43.855	
1,100.0	1,096.3	1,106.0	1,104.8	2.3	2.0	-171.97	25.4	-89.6	162.7	158.9	3.88	41.958	
1,200.0	1,194.9	1,206.4	1,204.7	2.7	2.3	-169.41	34.3	-82.3	173.6	169.3	4.29	40.458	
1,300.0	1,293.3	1,305.4	1,302.9	3.0	2.5	-167.07	43.6	-74.7	186.1	181.4	4.72	39.457	
1,400.0	1,391.2	1,404.1	1,400.9	3.4	2.7	-165.15	52.9	-67.0	200.6	195.4	5.16	38.891	
1,500.0	1,488.9	1,502.7	1,498.7	3.8	3.0	-163.60	62.2	-59.3	216.9	211.3	5.61	38.660 SF	
1,600.0	1,586.1	1,600.9	1,596.2	4.3	3.3	-162.39	71.5	-51.7	235.0	228.9	6.07	38.690	
1,700.0	1,682.9	1,698.9	1,693.4	4.7	3.5	-161.45	80.7	-44.1	254.7	248.2	6.54	38.929	
1,800.0	1,779.3	1,796.5	1,790.3	5.2	3.8	-160.76	89.9	-36.5	276.2	269.1	7.02	39.337	
1,900.0	1,875.2	1,893.8	1,886.9	5.8	4.0	-160.27	99.1	-29.0	299.2	291.7	7.50	39.885	
2,000.0	1,970.5	1,990.7	1,983.0	6.3	4.3	-159.93	108.2	-21.5	323.9	315.9	7.99	40.550	
2,022.8	1,992.2	2,012.7	2,004.9	6.4	4.3	-159.87	110.3	-19.8	329.7	321.6	8.10	40.718	
2,100.0	2,065.5	2,087.3	2,078.9	6.9	4.5	-159.77	117.3	-14.0	349.7	341.2	8.48	41.212	
2,200.0	2,160.5	2,183.9	2,174.8	7.5	4.8	-159.65	126.4	-6.5	375.5	366.5	8.99	41.774	
2,300.0	2,255.5	2,280.5	2,270.7	8.0	5.1	-159.55	135.5	1.0	401.3	391.8	9.50	42.265	
2,400.0	2,350.5	2,377.1	2,366.6	8.6	5.3	-159.45	144.6	8.5	427.1	417.1	10.00	42.695	
2,500.0	2,445.5	2,473.7	2,462.5	9.2	5.6	-159.37	153.7	16.0	453.0	442.4	10.52	43.076	
2,600.0	2,540.4	2,570.3	2,558.3	9.8	5.9	-159.30	162.8	23.5	478.8	467.8	11.03	43.415	
2,700.0	2,635.4	2,666.9	2,654.2	10.4	6.1	-159.24	171.9	31.0	504.6	493.1	11.54	43.718	
2,800.0	2,730.4	2,763.5	2,750.1	11.0	6.4	-159.18	181.0	38.5	530.4	518.4	12.06	43.990	
2,900.0	2,825.4	2,860.1	2,846.0	11.6	6.6	-159.12	190.1	46.0	556.3	543.7	12.58	44.236	
3,000.0	2,920.4	2,956.8	2,941.9	12.2	6.9	-159.08	199.3	53.5	582.1	569.0	13.09	44.459	
3,100.0	3,015.4	3,053.4	3,037.8	12.8	7.2	-159.03	208.4	61.0	607.9	594.3	13.61	44.662	
3,200.0	3,110.3	3,150.0	3,133.6	13.3	7.4	-158.99	217.5	68.5	633.8	619.6	14.13	44.848	
3,300.0	3,205.3	3,246.6	3,229.5	13.9	7.7	-158.95	226.6	76.0	659.6	644.9	14.65	45.018	
3,400.0	3,300.3	3,343.2	3,325.4	14.5	8.0	-158.92	235.7	83.5	685.4	670.2	15.17	45.174	
3,500.0	3,395.3	3,439.8	3,421.3	15.1	8.2	-158.89	244.8	91.0	711.2	695.5	15.69	45.319	
3,600.0	3,490.3	3,536.4	3,517.2	15.7	8.5	-158.86	253.9	98.5	737.1	720.9	16.22	45.453	
3,700.0	3,585.2	3,633.0	3,613.0	16.3	8.7	-158.83	263.0	106.0	762.9	746.2	16.74	45.577	
3,800.0	3,680.2	3,729.6	3,708.9	16.9	9.0	-158.80	272.1	113.5	788.7	771.5	17.26	45.693	
3,900.0	3,775.2	3,826.2	3,804.8	17.5	9.3	-158.78	281.2	121.0	814.6	796.8	17.79	45.800	
4,000.0	3,870.2	3,922.8	3,900.7	18.1	9.5	-158.76	290.3	128.5	840.4	822.1	18.31	45.901	
4,100.0	3,965.2	4,019.4	3,996.6	18.7	9.8	-158.73	299.4	136.0	866.2	847.4	18.83	45.995	
4,200.0	4,060.2	4,116.0	4,092.5	19.3	10.1	-158.71	308.5	143.5	892.1	872.7	19.36	46.084	
4,300.0	4,155.1	4,212.6	4,188.3	19.9	10.3	-158.69	317.6	151.0	917.9	898.0	19.88	46.167	
4,400.0	4,250.1	4,309.2	4,284.2	20.5	10.6	-158.68	326.7	158.5	943.7	923.3	20.41	46.245	
4,500.0	4,345.1	4,405.8	4,380.1	21.1	10.9	-158.66	335.8	166.0	969.5	948.6	20.93	46.319	
4,600.0	4,440.1	4,502.4	4,476.0	21.7	11.1	-158.64	344.9	173.5	995.4	973.9	21.46	46.388	
4,700.0	4,535.1	4,599.1	4,571.9	22.3	11.4	-158.63	354.0	181.0	1,021.2	999.2	21.98	46.454	
4,800.0	4,630.1	4,695.7	4,667.8	22.9	11.7	-158.61	363.1	188.5	1,047.0	1,024.5	22.51	46.517	
4,900.0	4,725.0	4,792.3	4,763.6	23.5	11.9	-158.60	372.2	196.0	1,072.9	1,049.8	23.03	46.576	
5,000.0	4,820.0	4,888.9	4,859.5	24.1	12.2	-158.59	381.3	203.5	1,098.7	1,075.1	23.56	46.632	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,915.0	4,985.5	4,955.4	24.6	12.5	-158.57	390.4	211.0	1,124.5	1,100.4	24.09	46.686		
5,200.0	5,010.0	5,082.1	5,051.3	25.2	12.7	-158.56	399.5	218.5	1,150.4	1,125.7	24.61	46.737		
5,300.0	5,105.0	5,178.7	5,147.2	25.8	13.0	-158.55	408.7	226.0	1,176.2	1,151.1	25.14	46.785		
5,400.0	5,199.9	5,275.3	5,243.1	26.4	13.3	-158.54	417.8	233.5	1,202.0	1,176.4	25.67	46.832		
5,500.0	5,294.9	5,371.9	5,338.9	27.0	13.5	-158.53	426.9	241.0	1,227.9	1,201.7	26.19	46.876		
5,600.0	5,389.9	5,468.5	5,434.8	27.6	13.8	-158.52	436.0	248.5	1,253.7	1,227.0	26.72	46.918		
5,700.0	5,484.9	5,565.1	5,530.7	28.2	14.1	-158.51	445.1	256.0	1,279.5	1,252.3	27.25	46.959		
5,800.0	5,579.9	5,661.7	5,626.6	28.8	14.3	-158.50	454.2	263.5	1,305.4	1,277.6	27.77	46.998		
5,900.0	5,674.9	5,758.3	5,722.5	29.4	14.6	-158.49	463.3	271.0	1,331.2	1,302.9	28.30	47.035		
6,000.0	5,769.8	5,854.9	5,818.4	30.0	14.9	-158.48	472.4	278.5	1,357.0	1,328.2	28.83	47.071		
6,100.0	5,864.8	5,951.5	5,914.2	30.6	15.1	-158.47	481.5	286.0	1,382.8	1,353.5	29.36	47.105		
6,200.0	5,959.8	6,048.1	6,010.1	31.2	15.4	-158.46	490.6	293.5	1,408.7	1,378.8	29.88	47.138		
6,300.0	6,054.8	6,144.7	6,106.0	31.8	15.7	-158.46	499.7	301.0	1,434.5	1,404.1	30.41	47.169		
6,400.0	6,149.8	6,241.4	6,201.9	32.4	15.9	-158.45	508.8	308.5	1,460.3	1,429.4	30.94	47.200		
6,500.0	6,244.7	6,338.0	6,297.8	33.0	16.2	-158.44	517.9	316.0	1,486.2	1,454.7	31.47	47.229		
6,600.0	6,339.7	6,434.6	6,393.7	33.6	16.5	-158.43	527.0	323.5	1,512.0	1,480.0	31.99	47.258		
6,700.0	6,434.7	6,531.2	6,489.5	34.2	16.7	-158.43	536.1	331.0	1,537.8	1,505.3	32.52	47.285		
6,800.0	6,529.7	6,627.8	6,585.4	34.8	17.0	-158.42	545.2	338.5	1,563.7	1,530.6	33.05	47.311		
6,900.0	6,624.7	6,724.4	6,681.3	35.4	17.2	-158.41	554.3	346.0	1,589.5	1,555.9	33.58	47.337		
7,000.0	6,719.7	6,821.0	6,777.2	36.0	17.5	-158.41	563.4	353.5	1,615.3	1,581.2	34.11	47.361		
7,100.0	6,814.6	7,934.7	7,500.0	36.6	16.6	178.36	-58.8	410.0	1,617.1	1,590.9	26.18	61.763		
7,200.0	6,909.6	7,935.7	7,500.0	37.2	16.6	178.32	-59.8	410.0	1,608.2	1,581.9	26.37	60.998		
7,225.4	6,933.7	7,935.9	7,500.0	37.3	16.6	178.32	-60.1	410.0	1,607.0	1,580.6	26.41	60.842		
7,250.0	6,957.1	7,935.7	7,500.0	37.5	16.6	-174.26	-59.8	410.0	1,606.1	1,579.6	26.47	60.679		
7,300.0	7,004.6	7,931.8	7,500.0	37.8	16.6	-159.32	-56.0	410.0	1,605.1	1,578.6	26.55	60.451		
7,316.9	7,020.6	7,929.6	7,500.0	37.9	16.6	-154.58	-53.7	410.0	1,605.1	1,578.5	26.57	60.402		
7,350.0	7,051.7	7,923.7	7,500.0	38.0	16.6	-146.05	-47.8	410.0	1,605.3	1,578.7	26.61	60.333		
7,400.0	7,098.0	7,911.3	7,500.0	38.3	16.6	-135.21	-35.5	410.0	1,606.5	1,579.9	26.65	60.278		
7,450.0	7,143.3	7,894.8	7,500.0	38.5	16.5	-126.59	-18.9	410.0	1,608.7	1,582.0	26.72	60.212		
7,500.0	7,187.1	7,874.2	7,500.0	38.8	16.5	-119.70	1.6	410.0	1,611.8	1,584.9	26.84	60.051		
7,550.0	7,229.2	7,841.7	7,499.1	39.0	16.4	-113.82	34.1	409.9	1,615.4	1,588.3	27.05	59.722		
7,600.0	7,269.2	7,810.3	7,496.5	39.2	16.4	-108.99	65.4	409.7	1,619.3	1,592.0	27.34	59.239		
7,650.0	7,306.8	7,779.9	7,492.4	39.4	16.4	-104.96	95.5	409.4	1,623.5	1,595.9	27.67	58.665		
7,700.0	7,341.7	7,750.3	7,486.8	39.6	16.4	-101.54	124.6	409.0	1,627.9	1,599.9	28.02	58.094		
7,750.0	7,373.7	7,721.4	7,480.0	39.8	16.4	-98.60	152.7	408.4	1,632.3	1,603.9	28.36	57.548		
7,800.0	7,402.5	7,693.0	7,471.9	39.9	16.4	-96.05	179.9	407.8	1,636.6	1,607.9	28.66	57.106		
7,850.0	7,427.9	7,665.1	7,462.6	40.1	16.5	-93.83	206.2	407.1	1,640.7	1,611.8	28.90	56.773		
7,900.0	7,449.7	7,637.5	7,452.2	40.2	16.5	-91.91	231.7	406.3	1,644.5	1,615.4	29.07	56.574		
7,950.0	7,467.8	7,610.3	7,440.8	40.4	16.6	-90.26	256.4	405.4	1,647.9	1,618.8	29.16	56.505		
8,000.0	7,481.9	7,583.4	7,428.3	40.6	16.7	-88.85	280.2	404.4	1,650.9	1,621.7	29.19	56.550		
8,050.0	7,492.0	7,550.0	7,411.3	40.7	16.7	-87.53	308.9	403.1	1,653.3	1,624.1	29.18	56.654		
8,100.0	7,498.1	7,530.2	7,400.5	40.9	16.8	-86.74	325.5	402.2	1,655.0	1,625.9	29.09	56.900		
8,148.1	7,500.0	7,500.0	7,382.8	41.0	16.9	-85.94	350.0	400.8	1,656.0	1,627.0	28.99	57.126		
8,200.0	7,500.0	7,478.6	7,369.6	41.2	17.0	-85.48	366.7	399.8	1,657.2	1,627.7	29.50	56.171		
8,300.0	7,500.0	7,433.1	7,339.3	41.5	17.1	-84.44	400.7	397.4	1,662.5	1,631.8	30.60	54.325		
8,400.0	7,500.0	7,400.0	7,315.7	42.0	17.2	-83.63	423.8	395.6	1,671.8	1,640.0	31.79	52.591		
8,500.0	7,500.0	7,350.0	7,277.7	42.5	17.4	-82.32	456.0	392.6	1,685.6	1,652.6	33.09	50.947		
8,600.0	7,500.0	7,329.1	7,261.0	43.1	17.5	-81.76	468.4	391.3	1,703.9	1,669.5	34.41	49.522		
8,700.0	7,500.0	7,300.0	7,236.9	43.7	17.5	-80.94	484.8	389.4	1,727.0	1,691.2	35.79	48.252		
8,800.0	7,500.0	7,280.0	7,219.9	44.4	17.6	-80.37	495.3	388.1	1,754.6	1,717.4	37.21	47.160		
8,900.0	7,500.0	7,250.0	7,193.8	45.2	17.7	-79.49	509.9	386.1	1,786.9	1,748.2	38.65	46.231		
9,000.0	7,500.0	7,250.0	7,193.8	46.0	17.7	-79.49	509.9	386.1	1,823.5	1,783.3	40.14	45.430		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	7,225.6	7,172.1	46.9	17.7	-78.77	520.7	384.4	1,864.3	1,822.6	41.62	44.790		
9,200.0	7,500.0	7,200.0	7,148.7	47.8	17.8	-78.00	531.1	382.5	1,909.2	1,866.1	43.12	44.282		
9,300.0	7,500.0	7,200.0	7,148.7	48.8	17.8	-78.00	531.1	382.5	1,957.8	1,913.1	44.67	43.828		
9,400.0	7,500.0	7,200.0	7,148.7	49.8	17.8	-78.00	531.1	382.5	2,010.2	1,963.9	46.24	43.470		
9,500.0	7,500.0	7,176.1	7,126.5	50.8	17.8	-77.27	539.8	380.8	2,065.6	2,017.8	47.76	43.253		
9,600.0	7,500.0	7,150.0	7,101.9	51.9	17.9	-76.47	548.3	378.9	2,124.5	2,075.2	49.26	43.129		
9,700.0	7,500.0	7,150.0	7,101.9	53.1	17.9	-76.47	548.3	378.9	2,185.8	2,134.9	50.86	42.975		
9,803.1	7,500.0	7,150.0	7,101.9	54.3	17.9	-76.47	548.3	378.9	2,251.9	2,199.4	52.52	42.874		
9,900.0	7,500.0	7,150.0	7,101.9	55.4	17.9	-76.47	548.3	378.9	2,316.5	2,262.4	54.10	42.823		
10,000.0	7,500.0	7,150.0	7,101.9	56.6	17.9	-76.47	548.3	378.9	2,385.5	2,329.8	55.72	42.809		
10,100.0	7,500.0	7,128.8	7,081.7	57.9	17.9	-75.82	554.4	377.3	2,456.2	2,399.0	57.24	42.910		
10,200.0	7,500.0	7,122.9	7,076.0	59.2	17.9	-75.64	555.9	376.9	2,529.0	2,470.2	58.84	42.980		
10,300.0	7,500.0	7,100.0	7,053.8	60.5	17.9	-74.93	561.4	375.1	2,603.8	2,543.5	60.33	43.156		
10,400.0	7,500.0	7,100.0	7,053.8	61.8	17.9	-74.93	561.4	375.1	2,679.9	2,617.9	61.98	43.241		
10,500.0	7,500.0	7,100.0	7,053.8	63.1	17.9	-74.93	561.4	375.1	2,757.4	2,693.8	63.62	43.342		
10,600.0	7,500.0	7,100.0	7,053.8	64.5	17.9	-74.93	561.4	375.1	2,836.4	2,771.1	65.27	43.457		
10,703.1	7,500.0	7,100.0	7,053.8	65.9	17.9	-74.93	561.4	375.1	2,919.2	2,852.2	66.97	43.587		
10,800.0	7,500.0	7,100.0	7,053.8	67.3	17.9	-74.57	561.4	375.1	2,998.5	2,929.4	69.13	43.377		
10,900.0	7,500.0	7,100.0	7,053.8	68.8	17.9	-74.15	561.4	375.1	3,082.4	3,011.0	71.32	43.221		
11,000.0	7,500.0	7,100.0	7,053.8	70.2	17.9	-73.69	561.4	375.1	3,168.0	3,094.6	73.47	43.123		
11,100.0	7,500.0	7,100.0	7,053.8	71.7	17.9	-73.18	561.4	375.1	3,255.3	3,179.8	75.57	43.080		
11,200.0	7,500.0	7,100.0	7,053.8	73.3	17.9	-72.61	561.4	375.1	3,344.1	3,266.5	77.61	43.088		
11,253.1	7,500.0	7,100.0	7,053.8	74.1	17.9	-72.28	561.4	375.1	3,391.9	3,313.2	78.67	43.114		
11,300.0	7,500.0	7,078.6	7,032.9	74.8	17.9	-71.53	565.7	373.5	3,433.7	3,354.6	79.14	43.389		
11,400.0	7,500.0	7,075.8	7,030.2	76.3	17.9	-71.43	566.2	373.3	3,524.3	3,443.6	80.73	43.655		
11,500.0	7,500.0	7,073.2	7,027.7	77.9	17.9	-71.34	566.6	373.1	3,615.4	3,533.0	82.32	43.917		
11,600.0	7,500.0	7,050.0	7,004.8	79.5	17.9	-70.53	570.2	371.3	3,707.3	3,623.7	83.59	44.350		
11,700.0	7,500.0	7,050.0	7,004.8	81.0	17.9	-70.53	570.2	371.3	3,799.1	3,713.9	85.22	44.581		
11,800.0	7,500.0	7,050.0	7,004.8	82.6	17.9	-70.53	570.2	371.3	3,891.3	3,804.5	86.84	44.808		
11,900.0	7,500.0	7,050.0	7,004.8	84.2	17.9	-70.53	570.2	371.3	3,983.9	3,895.5	88.47	45.030		
12,000.0	7,500.0	7,050.0	7,004.8	85.8	17.9	-70.53	570.2	371.3	4,076.9	3,986.8	90.10	45.247		
12,100.0	7,500.0	7,050.0	7,004.8	87.4	17.9	-70.53	570.2	371.3	4,170.2	4,078.4	91.73	45.459		
12,200.0	7,500.0	7,050.0	7,004.8	89.0	17.9	-70.53	570.2	371.3	4,263.8	4,170.4	93.37	45.667		
12,300.0	7,500.0	7,050.0	7,004.8	90.6	17.9	-70.53	570.2	371.3	4,357.6	4,262.6	95.00	45.871		
12,400.0	7,500.0	7,050.0	7,004.8	92.2	17.9	-70.53	570.2	371.3	4,451.8	4,355.1	96.63	46.069		
12,500.0	7,500.0	7,050.0	7,004.8	93.8	17.9	-70.53	570.2	371.3	4,546.2	4,447.9	98.27	46.264		
12,600.0	7,500.0	7,050.0	7,004.8	95.5	17.9	-70.53	570.2	371.3	4,640.8	4,540.9	99.90	46.453		
12,700.0	7,500.0	7,050.0	7,004.8	97.1	17.9	-70.53	570.2	371.3	4,735.6	4,634.1	101.54	46.639		
12,800.0	7,500.0	7,050.0	7,004.8	98.7	17.9	-70.53	570.2	371.3	4,830.7	4,727.5	103.17	46.820		
12,900.0	7,500.0	7,050.0	7,004.8	100.4	17.9	-70.53	570.2	371.3	4,925.9	4,821.1	104.81	46.998		
13,000.0	7,500.0	7,050.0	7,004.8	102.0	17.9	-70.53	570.2	371.3	5,021.4	4,914.9	106.45	47.171		
13,100.0	7,500.0	7,050.0	7,004.8	103.7	17.9	-70.53	570.2	371.3	5,117.0	5,008.9	108.09	47.340		
13,200.0	7,500.0	7,050.0	7,004.8	105.3	17.9	-70.53	570.2	371.3	5,212.8	5,103.0	109.73	47.506		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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	-89.79	0.4	-99.9	99.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.79	0.4	-99.9	99.9	99.6	0.30	329.014		
200.0	200.0	200.0	200.0	0.3	0.3	-89.79	0.4	-99.9	99.9	99.3	0.65	153.071	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.42	0.4	-99.9	100.8	99.8	1.00	100.617		
400.0	400.0	400.0	400.0	0.7	0.7	178.46	0.4	-99.9	103.4	102.1	1.35	76.576		
500.0	499.9	499.9	499.9	0.9	0.8	178.52	0.4	-99.9	107.8	106.1	1.70	63.446		
600.0	599.7	599.7	599.7	1.1	1.0	178.60	0.4	-99.9	113.9	111.8	2.05	55.652		
700.0	699.4	699.4	699.4	1.3	1.2	178.69	0.4	-99.9	121.7	119.3	2.39	50.866		
800.0	798.9	798.9	798.9	1.5	1.4	178.78	0.4	-99.9	131.3	128.6	2.74	47.944		
900.0	898.3	898.3	898.3	1.8	1.5	178.88	0.4	-99.9	142.6	139.5	3.08	46.257		
1,000.0	997.4	997.4	997.4	2.0	1.7	178.97	0.4	-99.9	155.7	152.2	3.43	45.433		
1,100.0	1,096.3	1,098.5	1,098.5	2.3	1.9	179.24	0.9	-99.3	169.8	166.0	3.77	45.019		
1,200.0	1,194.9	1,199.9	1,199.8	2.7	2.1	179.84	2.6	-97.2	184.4	180.2	4.12	44.773		
1,300.0	1,293.3	1,301.2	1,301.1	3.0	2.3	-179.30	5.3	-93.8	199.3	194.9	4.46	44.650		
1,400.0	1,391.2	1,402.7	1,402.4	3.4	2.4	-178.25	9.3	-88.9	214.8	209.9	4.81	44.614		
1,500.0	1,488.9	1,504.2	1,503.6	3.8	2.6	-177.05	14.3	-82.7	230.7	225.5	5.17	44.631		
1,600.0	1,586.1	1,605.7	1,604.6	4.3	2.9	-175.74	20.5	-75.0	247.2	241.7	5.53	44.668		
1,700.0	1,682.9	1,707.3	1,705.5	4.7	3.1	-174.33	27.8	-66.0	264.3	258.4	5.91	44.695		
1,800.0	1,779.3	1,808.8	1,806.1	5.2	3.3	-172.87	36.2	-55.6	282.1	275.8	6.31	44.680		
1,900.0	1,875.2	1,910.2	1,906.3	5.8	3.6	-171.36	45.7	-43.8	300.5	293.8	6.74	44.601		
2,000.0	1,970.5	2,007.9	2,002.9	6.3	3.9	-170.00	55.4	-31.8	320.3	313.1	7.17	44.645		
2,022.8	1,992.2	2,030.1	2,024.8	6.4	3.9	-169.72	57.7	-29.1	325.1	317.8	7.28	44.676		
2,100.0	2,065.5	2,105.5	2,099.2	6.9	4.1	-168.86	65.1	-19.9	341.4	333.8	7.64	44.690		
2,200.0	2,160.5	2,203.0	2,195.5	7.5	4.4	-167.86	74.8	-7.9	362.7	354.5	8.12	44.646		
2,300.0	2,255.5	2,300.5	2,291.8	8.0	4.7	-166.97	84.5	4.1	384.0	375.4	8.62	44.549		
2,400.0	2,350.5	2,398.1	2,388.1	8.6	5.0	-166.17	94.2	16.0	405.4	396.3	9.13	44.414		
2,500.0	2,445.5	2,495.6	2,484.4	9.2	5.3	-165.45	103.9	28.0	426.9	417.3	9.65	44.254		
2,600.0	2,540.4	2,593.1	2,580.7	9.8	5.6	-164.81	113.6	40.0	448.5	438.3	10.17	44.076		
2,700.0	2,635.4	2,690.6	2,677.0	10.4	5.9	-164.22	123.3	52.0	470.1	459.3	10.71	43.888		
2,800.0	2,730.4	2,788.2	2,773.3	11.0	6.2	-163.68	132.9	63.9	491.7	480.4	11.25	43.695		
2,900.0	2,825.4	2,885.7	2,869.6	11.6	6.5	-163.19	142.6	75.9	513.4	501.6	11.80	43.499		
3,000.0	2,920.4	2,983.2	2,966.0	12.2	6.8	-162.74	152.3	87.9	535.1	522.7	12.36	43.304		
3,100.0	3,015.4	3,080.8	3,062.3	12.8	7.1	-162.32	162.0	99.8	556.8	543.9	12.92	43.111		
3,200.0	3,110.3	3,178.3	3,158.6	13.3	7.4	-161.93	171.7	111.8	578.6	565.1	13.48	42.923		
3,300.0	3,205.3	3,275.8	3,254.9	13.9	7.7	-161.58	181.4	123.8	600.4	586.3	14.05	42.739		
3,400.0	3,300.3	3,373.4	3,351.2	14.5	8.0	-161.24	191.1	135.8	622.2	607.6	14.62	42.561		
3,500.0	3,395.3	3,470.9	3,447.5	15.1	8.3	-160.93	200.8	147.7	644.0	628.8	15.19	42.388		
3,600.0	3,490.3	3,568.4	3,543.8	15.7	8.6	-160.65	210.4	159.7	665.9	650.1	15.77	42.221		
3,700.0	3,585.2	3,666.0	3,640.1	16.3	8.9	-160.37	220.1	171.7	687.8	671.4	16.35	42.061		
3,800.0	3,680.2	3,763.5	3,736.4	16.9	9.3	-160.12	229.8	183.7	709.6	692.7	16.93	41.906		
3,900.0	3,775.2	3,861.0	3,832.7	17.5	9.6	-159.88	239.5	195.6	731.5	714.0	17.52	41.758		
4,000.0	3,870.2	3,958.5	3,929.0	18.1	9.9	-159.65	249.2	207.6	753.4	735.3	18.10	41.615		
4,100.0	3,965.2	4,056.1	4,025.3	18.7	10.2	-159.44	258.9	219.6	775.3	756.6	18.69	41.478		
4,200.0	4,060.2	4,153.6	4,121.6	19.3	10.5	-159.24	268.6	231.5	797.2	778.0	19.28	41.346		
4,300.0	4,155.1	4,251.1	4,217.9	19.9	10.8	-159.05	278.3	243.5	819.2	799.3	19.87	41.219		
4,400.0	4,250.1	4,348.7	4,314.3	20.5	11.1	-158.87	287.9	255.5	841.1	820.7	20.47	41.097		
4,500.0	4,345.1	4,446.2	4,410.6	21.1	11.5	-158.70	297.6	267.5	863.1	842.0	21.06	40.980		
4,600.0	4,440.1	4,543.7	4,506.9	21.7	11.8	-158.54	307.3	279.4	885.0	863.4	21.66	40.868		
4,700.0	4,535.1	4,641.3	4,603.2	22.3	12.1	-158.38	317.0	291.4	907.0	884.7	22.25	40.759		
4,800.0	4,630.1	4,738.8	4,699.5	22.9	12.4	-158.23	326.7	303.4	928.9	906.1	22.85	40.655		
4,900.0	4,725.0	4,836.3	4,795.8	23.5	12.7	-158.09	336.4	315.3	950.9	927.5	23.45	40.555		
5,000.0	4,820.0	4,933.9	4,892.1	24.1	13.0	-157.96	346.1	327.3	972.9	948.8	24.05	40.459		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							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	4,915.0	5,031.4	4,988.4	24.6	13.3	-157.83	355.8	339.3	994.9	970.2	24.65	40.366		
5,200.0	5,010.0	5,128.9	5,084.7	25.2	13.7	-157.71	365.4	351.3	1,016.8	991.6	25.25	40.277		
5,300.0	5,105.0	5,226.4	5,181.0	25.8	14.0	-157.59	375.1	363.2	1,038.8	1,013.0	25.85	40.190		
5,400.0	5,199.9	5,324.0	5,277.3	26.4	14.3	-157.48	384.8	375.2	1,060.8	1,034.4	26.45	40.107		
5,500.0	5,294.9	5,421.5	5,373.6	27.0	14.6	-157.37	394.5	387.2	1,082.8	1,055.8	27.05	40.027		
5,600.0	5,389.9	5,519.0	5,469.9	27.6	14.9	-157.27	404.2	399.1	1,104.8	1,077.2	27.66	39.950		
5,700.0	5,484.9	5,616.6	5,566.2	28.2	15.2	-157.17	413.9	411.1	1,126.8	1,098.6	28.26	39.875		
5,800.0	5,579.9	5,714.1	5,662.6	28.8	15.6	-157.07	423.6	423.1	1,148.8	1,120.0	28.86	39.803		
5,900.0	5,674.9	5,811.6	5,758.9	29.4	15.9	-156.98	433.3	435.1	1,170.9	1,141.4	29.47	39.733		
6,000.0	5,769.8	5,909.2	5,855.2	30.0	16.2	-156.89	442.9	447.0	1,192.9	1,162.8	30.07	39.666		
6,100.0	5,864.8	6,006.7	5,951.5	30.6	16.5	-156.80	452.6	459.0	1,214.9	1,184.2	30.68	39.600		
6,200.0	5,959.8	6,104.2	6,047.8	31.2	16.8	-156.72	462.3	471.0	1,236.9	1,205.6	31.28	39.537		
6,300.0	6,054.8	6,201.8	6,144.1	31.8	17.1	-156.64	472.0	482.9	1,258.9	1,227.0	31.89	39.476		
6,400.0	6,149.8	6,299.3	6,240.4	32.4	17.5	-156.56	481.7	494.9	1,280.9	1,248.4	32.50	39.417		
6,500.0	6,244.7	6,396.8	6,336.7	33.0	17.8	-156.49	491.4	506.9	1,303.0	1,269.9	33.10	39.359		
6,600.0	6,339.7	6,494.3	6,433.0	33.6	18.1	-156.42	501.1	518.9	1,325.0	1,291.3	33.71	39.304		
6,700.0	6,434.7	6,591.9	6,529.3	34.2	18.4	-156.35	510.7	530.8	1,347.0	1,312.7	34.32	39.250		
6,800.0	6,529.7	6,689.4	6,625.6	34.8	18.7	-156.28	520.4	542.8	1,369.0	1,334.1	34.93	39.197		
6,900.0	6,624.7	6,786.9	6,721.9	35.4	19.1	-156.21	530.1	554.8	1,391.1	1,355.5	35.54	39.147		
7,000.0	6,719.7	6,884.5	6,818.2	36.0	19.4	-156.15	539.8	566.7	1,413.1	1,377.0	36.14	39.097		
7,100.0	6,814.6	6,982.0	6,914.5	36.6	19.7	-156.09	549.5	578.7	1,435.2	1,398.4	36.75	39.049		
7,200.0	6,909.6	8,291.2	7,740.0	37.2	20.9	175.05	-141.7	735.5	1,437.5	1,409.7	27.73	51.846		
7,225.4	6,933.7	8,292.0	7,740.0	37.3	20.9	175.02	-142.5	735.5	1,430.2	1,402.4	27.78	51.477		
7,250.0	6,957.1	8,292.2	7,740.0	37.5	20.9	-178.18	-142.7	735.5	1,423.5	1,395.5	27.98	50.878		
7,300.0	7,004.6	8,289.5	7,740.0	37.8	20.9	-164.45	-140.0	735.3	1,411.1	1,382.8	28.30	49.856		
7,350.0	7,051.7	8,282.4	7,740.0	38.0	20.8	-152.29	-132.9	734.8	1,400.4	1,371.9	28.50	49.136		
7,400.0	7,098.0	8,271.0	7,740.0	38.3	20.8	-142.45	-121.6	734.0	1,391.4	1,362.8	28.55	48.734		
7,450.0	7,143.3	8,255.5	7,740.0	38.5	20.7	-134.74	-106.0	733.0	1,384.0	1,355.6	28.47	48.622		
7,500.0	7,187.1	8,235.8	7,740.0	38.8	20.6	-128.64	-86.5	731.6	1,378.3	1,350.1	28.28	48.739		
7,550.0	7,229.2	8,212.2	7,740.0	39.0	20.5	-123.69	-62.9	729.9	1,374.2	1,346.1	28.04	49.003		
7,600.0	7,269.2	8,184.9	7,740.0	39.2	20.5	-119.55	-35.7	728.0	1,371.4	1,343.6	27.82	49.304		
7,650.0	7,306.8	8,154.0	7,740.0	39.4	20.4	-115.99	-4.9	725.9	1,369.9	1,342.2	27.65	49.534		
7,700.0	7,341.7	8,105.3	7,738.8	39.6	20.3	-112.42	43.7	722.3	1,369.2	1,341.6	27.56	49.678		
7,750.0	7,373.7	8,053.3	7,733.1	39.8	20.2	-109.15	95.2	718.0	1,368.8	1,341.2	27.64	49.528		
7,780.1	7,391.4	8,024.3	7,728.0	39.9	20.2	-107.40	123.6	715.3	1,368.7	1,341.0	27.77	49.282		
7,800.0	7,402.5	8,005.9	7,723.9	39.9	20.2	-106.33	141.5	713.5	1,368.8	1,340.9	27.87	49.113		
7,850.0	7,427.9	7,962.1	7,712.1	40.1	20.1	-103.88	183.3	709.1	1,369.0	1,340.9	28.19	48.569		
7,900.0	7,449.7	7,921.1	7,698.1	40.2	20.1	-101.74	221.6	704.6	1,369.6	1,341.0	28.54	47.991		
7,950.0	7,467.8	7,882.3	7,682.4	40.4	20.2	-99.86	256.8	700.0	1,370.3	1,341.4	28.88	47.446		
8,000.0	7,481.9	7,845.3	7,665.3	40.6	20.2	-98.20	289.3	695.5	1,371.2	1,342.0	29.19	46.974		
8,050.0	7,492.0	7,809.6	7,646.8	40.7	20.2	-96.75	319.5	691.0	1,372.2	1,342.7	29.45	46.588		
8,100.0	7,498.1	7,775.2	7,627.2	40.9	20.3	-95.50	347.4	686.4	1,373.2	1,343.5	29.65	46.306		
8,148.1	7,500.0	7,743.0	7,607.4	41.0	20.3	-94.48	372.5	682.1	1,374.1	1,344.3	29.78	46.135		
8,200.0	7,500.0	7,710.3	7,585.9	41.2	20.4	-93.58	396.6	677.6	1,375.5	1,345.1	30.33	45.357		
8,300.0	7,500.0	7,650.0	7,542.8	41.5	20.5	-91.78	437.8	669.0	1,381.4	1,349.9	31.47	43.899		
8,400.0	7,500.0	7,611.2	7,512.8	42.0	20.5	-90.53	461.8	663.4	1,392.1	1,359.4	32.67	42.610		
8,500.0	7,500.0	7,574.1	7,482.7	42.5	20.6	-89.28	482.8	658.0	1,408.1	1,374.1	33.96	41.469		
8,600.0	7,500.0	7,550.0	7,462.4	43.1	20.6	-88.44	495.3	654.5	1,429.6	1,394.3	35.29	40.509		
8,700.0	7,500.0	7,516.9	7,433.8	43.7	20.6	-87.27	511.1	649.6	1,456.7	1,420.0	36.69	39.706		
8,800.0	7,500.0	7,500.0	7,418.7	44.4	20.7	-86.66	518.5	647.1	1,489.2	1,451.1	38.12	39.070		
8,900.0	7,500.0	7,475.5	7,396.6	45.2	20.7	-85.76	528.5	643.5	1,527.0	1,487.5	39.58	38.584		
9,000.0	7,500.0	7,450.0	7,373.2	46.0	20.7	-84.81	537.8	639.8	1,569.9	1,528.9	41.06	38.233		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,100.0	7,500.0	7,450.0	7,373.2	46.9	20.7	-84.81	537.8	639.8	1,617.5	1,574.9	42.59	37.975	SF
9,200.0	7,500.0	7,431.7	7,356.1	47.8	20.7	-84.12	543.8	637.1	1,669.3	1,625.2	44.12	37.837	
9,300.0	7,500.0	7,420.3	7,345.4	48.8	20.7	-83.70	547.3	635.5	1,725.2	1,679.6	45.67	37.774	
9,400.0	7,500.0	7,400.0	7,326.1	49.8	20.7	-82.93	553.0	632.5	1,784.9	1,737.7	47.22	37.800	
9,500.0	7,500.0	7,400.0	7,326.1	50.8	20.7	-82.93	553.0	632.5	1,847.8	1,798.9	48.83	37.843	
9,600.0	7,500.0	7,400.0	7,326.1	51.9	20.7	-82.93	553.0	632.5	1,913.8	1,863.3	50.45	37.936	
9,700.0	7,500.0	7,400.0	7,326.1	53.1	20.7	-82.93	553.0	632.5	1,982.6	1,930.5	52.08	38.069	
9,803.1	7,500.0	7,378.8	7,305.8	54.3	20.7	-82.13	558.2	629.5	2,055.9	2,002.2	53.69	38.290	
9,900.0	7,500.0	7,372.9	7,300.1	55.4	20.7	-81.90	559.5	628.6	2,127.1	2,071.8	55.27	38.488	
10,000.0	7,500.0	7,350.0	7,277.9	56.6	20.7	-81.03	564.0	625.4	2,202.8	2,146.0	56.81	38.772	
10,100.0	7,500.0	7,350.0	7,277.9	57.9	20.7	-81.03	564.0	625.4	2,280.0	2,221.5	58.47	38.991	
10,200.0	7,500.0	7,350.0	7,277.9	59.2	20.7	-81.03	564.0	625.4	2,358.9	2,298.7	60.14	39.223	
10,300.0	7,500.0	7,350.0	7,277.9	60.5	20.7	-81.03	564.0	625.4	2,439.3	2,377.5	61.81	39.464	
10,400.0	7,500.0	7,350.0	7,277.9	61.8	20.7	-81.03	564.0	625.4	2,521.1	2,457.6	63.49	39.711	
10,500.0	7,500.0	7,350.0	7,277.9	63.1	20.7	-81.03	564.0	625.4	2,604.2	2,539.1	65.17	39.962	
10,600.0	7,500.0	7,350.0	7,277.9	64.5	20.7	-81.03	564.0	625.4	2,688.5	2,621.6	66.85	40.216	
10,703.1	7,500.0	7,350.0	7,277.9	65.9	20.7	-81.03	564.0	625.4	2,776.5	2,707.9	68.59	40.478	
10,800.0	7,500.0	7,350.0	7,277.9	67.3	20.7	-80.77	564.0	625.4	2,860.4	2,789.6	70.89	40.349	
10,900.0	7,500.0	7,350.0	7,277.9	68.8	20.7	-80.46	564.0	625.4	2,948.8	2,875.5	73.25	40.258	
11,000.0	7,500.0	7,350.0	7,277.9	70.2	20.7	-80.12	564.0	625.4	3,038.5	2,963.0	75.57	40.207	
11,100.0	7,500.0	7,327.0	7,255.4	71.7	20.6	-78.74	567.6	622.2	3,129.2	3,051.5	77.63	40.308	
11,200.0	7,500.0	7,324.7	7,253.2	73.3	20.6	-78.17	567.9	621.9	3,221.4	3,141.5	79.84	40.349	
11,253.1	7,500.0	7,323.6	7,252.1	74.1	20.6	-77.84	568.0	621.7	3,270.8	3,189.8	80.99	40.386	
11,300.0	7,500.0	7,322.6	7,251.1	74.8	20.6	-77.79	568.2	621.6	3,314.6	3,232.8	81.76	40.539	
11,400.0	7,500.0	7,300.0	7,228.8	76.3	20.6	-76.77	570.7	618.5	3,408.6	3,325.5	83.13	41.003	
11,500.0	7,500.0	7,300.0	7,228.8	77.9	20.6	-76.77	570.7	618.5	3,502.6	3,417.8	84.81	41.301	
11,600.0	7,500.0	7,300.0	7,228.8	79.5	20.6	-76.77	570.7	618.5	3,596.8	3,510.4	86.48	41.591	
11,700.0	7,500.0	7,300.0	7,228.8	81.0	20.6	-76.77	570.7	618.5	3,691.4	3,603.2	88.16	41.872	
11,800.0	7,500.0	7,300.0	7,228.8	82.6	20.6	-76.77	570.7	618.5	3,786.3	3,696.4	89.84	42.145	
11,900.0	7,500.0	7,300.0	7,228.8	84.2	20.6	-76.77	570.7	618.5	3,881.4	3,789.8	91.52	42.411	
12,000.0	7,500.0	7,300.0	7,228.8	85.8	20.6	-76.77	570.7	618.5	3,976.7	3,883.5	93.20	42.668	
12,100.0	7,500.0	7,300.0	7,228.8	87.4	20.6	-76.77	570.7	618.5	4,072.3	3,977.4	94.88	42.919	
12,200.0	7,500.0	7,300.0	7,228.8	89.0	20.6	-76.77	570.7	618.5	4,168.0	4,071.5	96.57	43.162	
12,300.0	7,500.0	7,300.0	7,228.8	90.6	20.6	-76.77	570.7	618.5	4,264.0	4,165.8	98.25	43.399	
12,400.0	7,500.0	7,300.0	7,228.8	92.2	20.6	-76.77	570.7	618.5	4,360.2	4,260.2	99.94	43.629	
12,500.0	7,500.0	7,300.0	7,228.8	93.8	20.6	-76.77	570.7	618.5	4,456.5	4,354.9	101.62	43.853	
12,600.0	7,500.0	7,300.0	7,228.8	95.5	20.6	-76.77	570.7	618.5	4,553.0	4,449.6	103.31	44.070	
12,700.0	7,500.0	7,300.0	7,228.8	97.1	20.6	-76.77	570.7	618.5	4,649.6	4,544.6	105.00	44.282	
12,800.0	7,500.0	7,300.0	7,228.8	98.7	20.6	-76.77	570.7	618.5	4,746.4	4,639.7	106.69	44.488	
12,900.0	7,500.0	7,300.0	7,228.8	100.4	20.6	-76.77	570.7	618.5	4,843.3	4,734.9	108.38	44.688	
13,000.0	7,500.0	7,300.0	7,228.8	102.0	20.6	-76.77	570.7	618.5	4,940.3	4,830.2	110.07	44.884	
13,100.0	7,500.0	7,300.0	7,228.8	103.7	20.6	-76.77	570.7	618.5	5,037.4	4,925.7	111.76	45.074	
13,200.0	7,500.0	7,300.0	7,228.8	105.3	20.6	-76.77	570.7	618.5	5,134.7	5,021.2	113.45	45.259	
13,300.0	7,500.0	7,300.0	7,228.8	107.0	20.6	-76.77	570.7	618.5	5,232.0	5,116.9	115.14	45.439	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-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		
0.0	0.0	0.0	0.0	0.0	0.0	-89.77	0.4	-89.8	89.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.77	0.4	-89.8	89.8	89.5	0.30	295.837		
200.0	200.0	200.0	200.0	0.3	0.3	-89.77	0.4	-89.8	89.8	89.2	0.65	137.636	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.45	0.4	-89.8	90.7	89.7	1.00	90.559		
400.0	400.0	401.5	401.5	0.7	0.7	178.72	0.7	-89.0	92.5	91.2	1.35	68.377		
500.0	499.9	502.9	502.9	0.9	0.9	179.45	1.8	-86.6	94.5	92.8	1.71	55.410		
600.0	599.7	604.4	604.3	1.1	1.0	-179.38	3.6	-82.4	96.6	94.5	2.06	46.930		
700.0	699.4	705.9	705.6	1.3	1.2	-177.82	6.2	-76.7	98.9	96.5	2.41	40.975		
800.0	798.9	807.4	806.7	1.5	1.5	-175.90	9.4	-69.3	101.5	98.7	2.78	36.577		
900.0	898.3	908.8	907.7	1.8	1.7	-173.66	13.4	-60.3	104.5	101.3	3.15	33.202		
1,000.0	997.4	1,010.2	1,008.4	2.0	2.0	-171.15	18.1	-49.6	107.8	104.3	3.53	30.524		
1,100.0	1,096.3	1,111.6	1,108.9	2.3	2.2	-168.42	23.6	-37.4	111.6	107.7	3.94	28.333		
1,200.0	1,194.9	1,212.9	1,209.1	2.7	2.5	-165.52	29.7	-23.5	116.0	111.6	4.38	26.485		
1,300.0	1,293.3	1,314.2	1,308.9	3.0	2.9	-162.52	36.6	-8.0	121.0	116.2	4.86	24.884		
1,400.0	1,391.2	1,415.4	1,408.3	3.4	3.2	-159.45	44.1	9.1	126.7	121.3	5.40	23.465		
1,500.0	1,488.9	1,516.0	1,506.9	3.8	3.6	-156.42	52.3	27.6	133.3	127.3	6.00	22.226		
1,600.0	1,586.1	1,615.5	1,604.3	4.3	4.0	-153.88	60.6	46.3	141.4	134.8	6.62	21.350		
1,700.0	1,682.9	1,714.8	1,701.5	4.7	4.3	-151.92	68.8	65.0	151.4	144.1	7.28	20.804		
1,800.0	1,779.3	1,814.1	1,798.7	5.2	4.7	-150.49	77.1	83.6	162.9	155.0	7.94	20.520		
1,900.0	1,875.2	1,913.2	1,895.7	5.8	5.1	-149.52	85.3	102.2	176.1	167.5	8.61	20.449	SF	
2,000.0	1,970.5	2,012.1	1,992.5	6.3	5.5	-148.95	93.5	120.7	190.8	181.5	9.28	20.550		
2,022.8	1,992.2	2,034.6	2,014.5	6.4	5.6	-148.86	95.4	125.0	194.3	184.9	9.44	20.596		
2,100.0	2,065.5	2,110.9	2,089.1	6.9	5.9	-148.68	101.7	139.3	206.5	196.5	9.96	20.740		
2,200.0	2,160.5	2,209.6	2,185.8	7.5	6.3	-148.47	109.9	157.8	222.3	211.6	10.64	20.896		
2,300.0	2,255.5	2,308.3	2,282.4	8.0	6.7	-148.29	118.1	176.3	238.0	226.7	11.32	21.026		
2,400.0	2,350.5	2,407.1	2,379.0	8.6	7.1	-148.13	126.3	194.9	253.8	241.8	12.01	21.134		
2,500.0	2,445.5	2,505.8	2,475.7	9.2	7.4	-147.99	134.5	213.4	269.6	256.9	12.70	21.226		
2,600.0	2,540.4	2,604.6	2,572.3	9.8	7.8	-147.87	142.7	231.9	285.3	271.9	13.39	21.303		
2,700.0	2,635.4	2,703.3	2,669.0	10.4	8.2	-147.76	150.8	250.5	301.1	287.0	14.09	21.370		
2,800.0	2,730.4	2,802.1	2,765.6	11.0	8.6	-147.66	159.0	269.0	316.9	302.1	14.79	21.428		
2,900.0	2,825.4	2,900.8	2,862.3	11.6	9.0	-147.57	167.2	287.5	332.7	317.2	15.49	21.479		
3,000.0	2,920.4	2,999.6	2,958.9	12.2	9.4	-147.48	175.4	306.1	348.4	332.3	16.19	21.523		
3,100.0	3,015.4	3,098.3	3,055.6	12.8	9.8	-147.41	183.6	324.6	364.2	347.3	16.89	21.562		
3,200.0	3,110.3	3,197.1	3,152.2	13.3	10.2	-147.34	191.8	343.1	380.0	362.4	17.60	21.596		
3,300.0	3,205.3	3,295.8	3,248.9	13.9	10.6	-147.28	200.0	361.6	395.8	377.5	18.30	21.626		
3,400.0	3,300.3	3,394.6	3,345.5	14.5	11.0	-147.22	208.2	380.2	411.5	392.5	19.01	21.654		
3,500.0	3,395.3	3,493.3	3,442.1	15.1	11.4	-147.16	216.4	398.7	427.3	407.6	19.71	21.678		
3,600.0	3,490.3	3,592.1	3,538.8	15.7	11.8	-147.11	224.6	417.2	443.1	422.7	20.42	21.700		
3,700.0	3,585.2	3,690.8	3,635.4	16.3	12.2	-147.07	232.8	435.8	458.9	437.8	21.13	21.720		
3,800.0	3,680.2	3,789.5	3,732.1	16.9	12.6	-147.02	241.0	454.3	474.7	452.8	21.84	21.739		
3,900.0	3,775.2	3,888.3	3,828.7	17.5	13.0	-146.98	249.2	472.8	490.4	467.9	22.54	21.755		
4,000.0	3,870.2	3,987.0	3,925.4	18.1	13.4	-146.94	257.4	491.4	506.2	483.0	23.25	21.770		
4,100.0	3,965.2	4,085.8	4,022.0	18.7	13.8	-146.91	265.6	509.9	522.0	498.0	23.96	21.784		
4,200.0	4,060.2	4,184.5	4,118.7	19.3	14.2	-146.87	273.8	528.4	537.8	513.1	24.67	21.797		
4,300.0	4,155.1	4,283.3	4,215.3	19.9	14.6	-146.84	282.0	546.9	553.6	528.2	25.38	21.808		
4,400.0	4,250.1	4,382.0	4,312.0	20.5	15.0	-146.81	290.2	565.5	569.3	543.2	26.09	21.819		
4,500.0	4,345.1	4,480.8	4,408.6	21.1	15.4	-146.78	298.3	584.0	585.1	558.3	26.81	21.829		
4,600.0	4,440.1	4,579.5	4,505.2	21.7	15.8	-146.76	306.5	602.5	600.9	573.4	27.52	21.838		
4,700.0	4,535.1	4,678.3	4,601.9	22.3	16.2	-146.73	314.7	621.1	616.7	588.5	28.23	21.847		
4,800.0	4,630.1	4,777.0	4,698.5	22.9	16.6	-146.70	322.9	639.6	632.5	603.5	28.94	21.855		
4,900.0	4,725.0	4,875.8	4,795.2	23.5	17.0	-146.68	331.1	658.1	648.2	618.6	29.65	21.862		
5,000.0	4,820.0	4,974.5	4,891.8	24.1	17.4	-146.66	339.3	676.7	664.0	633.7	30.36	21.869		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	4,915.0	5,073.3	4,988.5	24.6	17.8	-146.64	347.5	695.2	679.8	648.7	31.08	21.875	
5,200.0	5,010.0	5,172.0	5,085.1	25.2	18.1	-146.62	355.7	713.7	695.6	663.8	31.79	21.881	
5,300.0	5,105.0	5,270.7	5,181.8	25.8	18.5	-146.60	363.9	732.3	711.4	678.9	32.50	21.887	
5,400.0	5,199.9	5,369.5	5,278.4	26.4	18.9	-146.58	372.1	750.8	727.2	693.9	33.22	21.892	
5,500.0	5,294.9	5,468.2	5,375.1	27.0	19.3	-146.56	380.3	769.3	742.9	709.0	33.93	21.897	
5,600.0	5,389.9	5,567.0	5,471.7	27.6	19.7	-146.55	388.5	787.8	758.7	724.1	34.64	21.902	
5,700.0	5,484.9	5,665.7	5,568.3	28.2	20.1	-146.53	396.7	806.4	774.5	739.1	35.35	21.906	
5,800.0	5,579.9	5,764.5	5,665.0	28.8	20.5	-146.51	404.9	824.9	790.3	754.2	36.07	21.911	
5,900.0	5,674.9	5,863.2	5,761.6	29.4	20.9	-146.50	413.1	843.4	806.1	769.3	36.78	21.915	
6,000.0	5,769.8	5,962.0	5,858.3	30.0	21.3	-146.48	421.3	862.0	821.8	784.3	37.50	21.918	
6,100.0	5,864.8	6,060.7	5,954.9	30.6	21.7	-146.47	429.5	880.5	837.6	799.4	38.21	21.922	
6,200.0	5,959.8	6,159.5	6,051.6	31.2	22.1	-146.46	437.7	899.0	853.4	814.5	38.92	21.925	
6,300.0	6,054.8	6,258.2	6,148.2	31.8	22.5	-146.44	445.8	917.6	869.2	829.5	39.64	21.928	
6,400.0	6,149.8	6,357.0	6,244.9	32.4	22.9	-146.43	454.0	936.1	885.0	844.6	40.35	21.931	
6,500.0	6,244.7	6,455.7	6,341.5	33.0	23.3	-146.42	462.2	954.6	900.8	859.7	41.07	21.934	
6,600.0	6,339.7	6,554.4	6,438.2	33.6	23.7	-146.41	470.4	973.1	916.5	874.8	41.78	21.937	
6,700.0	6,434.7	6,653.2	6,534.8	34.2	24.1	-146.40	478.6	991.7	932.3	889.8	42.49	21.940	
6,800.0	6,529.7	6,751.9	6,631.4	34.8	24.5	-146.39	486.8	1,010.2	948.1	904.9	43.21	21.942	
6,900.0	6,624.7	6,850.7	6,728.1	35.4	24.9	-146.38	495.0	1,028.7	963.9	920.0	43.92	21.945	
7,000.0	6,719.7	6,949.4	6,824.7	36.0	25.3	-146.37	503.2	1,047.3	979.7	935.0	44.64	21.947	
7,100.0	6,814.6	7,043.4	6,918.8	36.6	25.7	-146.36	511.4	1,065.8	995.7	950.0	45.35	21.950	
7,200.0	6,909.6	7,142.4	7,019.9	37.2	26.1	-146.35	519.6	1,084.3	1,011.7	965.0	46.06	21.953	
7,225.4	6,933.7	7,166.6	7,043.9	37.3	26.5	-178.86	-54.4	1,176.7	929.5	903.0	26.59	34.962	
7,250.0	6,957.1	7,190.7	7,068.0	37.5	26.5	-174.48	-54.6	1,176.7	921.7	895.0	26.70	34.517	
7,300.0	7,004.6	7,248.8	7,126.8	37.8	26.5	-160.57	-46.7	1,176.7	907.2	880.3	26.87	33.763	
7,350.0	7,051.7	7,295.9	7,173.9	38.0	26.5	-147.96	-32.7	1,176.6	894.9	868.0	26.94	33.217	
7,400.0	7,098.0	7,343.0	7,220.0	38.3	26.4	-137.57	-15.5	1,176.4	884.9	858.0	26.95	32.841	
7,450.0	7,143.3	7,388.3	7,265.3	38.5	26.4	-129.28	3.7	1,176.0	877.2	850.2	26.92	32.578	
7,500.0	7,187.1	7,432.7	7,309.7	38.8	26.4	-122.62	24.1	1,175.5	871.6	844.6	26.94	32.353	
7,550.0	7,229.2	7,476.3	7,353.3	39.0	26.4	-117.14	45.2	1,174.8	868.1	841.1	27.00	32.146	
7,600.0	7,269.2	7,519.3	7,396.3	39.2	26.3	-112.48	66.8	1,174.0	866.6	839.4	27.17	31.898	
7,616.0	7,281.5	7,531.6	7,408.6	39.3	26.3	-111.12	73.7	1,173.7	866.5	839.2	27.24	31.807	
7,650.0	7,306.8	7,556.9	7,433.9	39.4	26.3	-108.40	88.6	1,172.9	866.9	839.4	27.42	31.615	
7,700.0	7,341.7	7,591.8	7,468.8	39.6	26.3	-104.75	110.5	1,171.7	868.8	841.1	27.75	31.308	
7,750.0	7,373.7	7,623.8	7,500.8	39.8	26.3	-101.41	132.4	1,170.3	872.3	844.1	28.13	31.014	
7,800.0	7,402.5	7,655.8	7,532.8	39.9	26.3	-98.32	154.1	1,168.8	877.0	848.5	28.49	30.780	
7,850.0	7,427.9	7,687.8	7,564.8	40.1	26.3	-95.45	175.6	1,167.0	882.7	853.9	28.80	30.645	
7,900.0	7,449.7	7,719.8	7,596.8	40.2	26.3	-92.99	192.9	1,165.5	889.4	860.4	28.98	30.694	
7,950.0	7,467.8	7,747.8	7,624.8	40.4	26.3	-90.27	217.8	1,163.0	896.6	867.5	29.09	30.819	
8,000.0	7,481.9	7,779.8	7,656.8	40.6	26.3	-88.05	236.6	1,160.9	904.3	875.3	29.01	31.173	
8,050.0	7,492.0	7,811.8	7,688.8	40.7	26.3	-85.83	258.3	1,158.3	912.3	883.5	28.81	31.671	
8,100.0	7,498.1	7,843.8	7,720.8	40.9	26.3	-83.89	278.1	1,155.7	920.3	891.9	28.46	32.340	
8,148.1	7,500.0	7,875.8	7,752.8	41.0	26.3	-82.25	296.0	1,153.1	928.0	899.9	28.05	33.084	
8,200.0	7,500.0	7,907.8	7,784.8	41.2	26.3	-81.20	317.0	1,149.7	937.0	908.5	28.44	32.945	
8,300.0	7,500.0	7,939.8	7,816.8	41.5	26.3	-79.63	345.0	1,144.8	959.3	930.0	29.34	32.699	
8,400.0	7,500.0	7,971.8	7,848.8	42.0	26.3	-78.07	370.0	1,139.7	988.5	958.2	30.34	32.584	
8,500.0	7,500.0	8,003.8	7,880.8	42.5	26.3	-76.98	385.8	1,136.1	1,024.5	993.0	31.46	32.570	
8,600.0	7,500.0	8,035.8	7,912.8	43.1	26.3	-75.38	407.1	1,130.7	1,066.8	1,034.2	32.58	32.743	
8,700.0	7,500.0	8,067.8	7,944.8	43.7	26.3	-74.73	415.2	1,128.5	1,115.2	1,081.3	33.85	32.948	
8,800.0	7,500.0	8,099.8	7,976.8	44.4	26.3	-73.23	432.4	1,123.3	1,168.8	1,133.8	35.04	33.356	
8,900.0	7,500.0	8,131.8	8,008.8	45.2	26.3	-72.42	441.0	1,120.4	1,227.5	1,191.2	36.34	33.776	
9,000.0	7,500.0	8,163.8	8,040.8	46.0	26.3	-71.52	450.0	1,117.2	1,290.6	1,253.0	37.64	34.285	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-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		
9,100.0	7,500.0	7,300.0	7,162.3	46.9	26.2	-70.10	463.0	1,112.0	1,357.8	1,319.0	38.85	34.947		
9,200.0	7,500.0	7,300.0	7,162.3	47.8	26.2	-70.10	463.0	1,112.0	1,428.0	1,387.6	40.33	35.403		
9,300.0	7,500.0	7,300.0	7,162.3	48.8	26.2	-70.10	463.0	1,112.0	1,501.5	1,459.6	41.83	35.891		
9,400.0	7,500.0	7,276.7	7,141.1	49.8	26.2	-69.03	471.8	1,107.9	1,577.3	1,534.2	43.11	36.592		
9,500.0	7,500.0	7,250.0	7,116.5	50.8	26.2	-67.81	480.9	1,103.2	1,655.9	1,611.6	44.32	37.362		
9,600.0	7,500.0	7,250.0	7,116.5	51.9	26.2	-67.81	480.9	1,103.2	1,736.0	1,690.1	45.84	37.870		
9,700.0	7,500.0	7,250.0	7,116.5	53.1	26.2	-67.81	480.9	1,103.2	1,818.0	1,770.7	47.37	38.379		
9,803.1	7,500.0	7,250.0	7,116.5	54.3	26.2	-67.81	480.9	1,103.2	1,904.5	1,855.5	48.96	38.899		
9,900.0	7,500.0	7,250.0	7,116.5	55.4	26.2	-67.81	480.9	1,103.2	1,987.1	1,936.6	50.46	39.381		
10,000.0	7,500.0	7,225.4	7,093.4	56.6	26.1	-66.69	488.3	1,098.8	2,073.0	2,021.4	51.65	40.136		
10,100.0	7,500.0	7,200.0	7,069.3	57.9	26.1	-65.56	494.8	1,094.2	2,160.8	2,108.0	52.80	40.925		
10,200.0	7,500.0	7,200.0	7,069.3	59.2	26.1	-65.56	494.8	1,094.2	2,248.9	2,194.6	54.34	41.386		
10,300.0	7,500.0	7,200.0	7,069.3	60.5	26.1	-65.56	494.8	1,094.2	2,338.0	2,282.2	55.89	41.836		
10,400.0	7,500.0	7,200.0	7,069.3	61.8	26.1	-65.56	494.8	1,094.2	2,428.0	2,370.6	57.43	42.274		
10,500.0	7,500.0	7,200.0	7,069.3	63.1	26.1	-65.56	494.8	1,094.2	2,518.7	2,459.7	58.99	42.698		
10,600.0	7,500.0	7,200.0	7,069.3	64.5	26.1	-65.56	494.8	1,094.2	2,610.1	2,549.5	60.55	43.110		
10,703.1	7,500.0	7,200.0	7,069.3	65.9	26.1	-65.56	494.8	1,094.2	2,705.0	2,642.8	62.15	43.520		
10,800.0	7,500.0	7,200.0	7,069.3	67.3	26.1	-64.54	494.8	1,094.2	2,794.9	2,731.0	63.88	43.751		
10,900.0	7,500.0	7,200.0	7,069.3	68.8	26.1	-63.35	494.8	1,094.2	2,888.7	2,823.2	65.53	44.081		
11,000.0	7,500.0	7,177.5	7,047.7	70.2	26.1	-60.92	499.6	1,090.0	2,983.0	2,916.6	66.41	44.916		
11,100.0	7,500.0	7,174.2	7,044.6	71.7	26.0	-59.19	500.3	1,089.4	3,078.3	3,010.8	67.51	45.597		
11,200.0	7,500.0	7,171.2	7,041.7	73.3	26.0	-57.22	500.8	1,088.9	3,174.4	3,106.1	68.32	46.467		
11,253.1	7,500.0	7,150.0	7,021.1	74.1	26.0	-55.12	504.4	1,084.9	3,226.1	3,158.2	67.92	47.501		
11,300.0	7,500.0	7,150.0	7,021.1	74.8	26.0	-55.12	504.4	1,084.9	3,271.4	3,202.8	68.58	47.703		
11,400.0	7,500.0	7,150.0	7,021.1	76.3	26.0	-55.12	504.4	1,084.9	3,368.1	3,298.2	69.99	48.121		
11,500.0	7,500.0	7,150.0	7,021.1	77.9	26.0	-55.12	504.4	1,084.9	3,465.1	3,393.7	71.41	48.525		
11,600.0	7,500.0	7,150.0	7,021.1	79.5	26.0	-55.12	504.4	1,084.9	3,562.2	3,489.4	72.83	48.914		
11,700.0	7,500.0	7,150.0	7,021.1	81.0	26.0	-55.12	504.4	1,084.9	3,659.5	3,585.2	74.24	49.290		
11,800.0	7,500.0	7,150.0	7,021.1	82.6	26.0	-55.12	504.4	1,084.9	3,756.9	3,681.2	75.66	49.653		
11,900.0	7,500.0	7,150.0	7,021.1	84.2	26.0	-55.12	504.4	1,084.9	3,854.5	3,777.4	77.08	50.004		
12,000.0	7,500.0	7,150.0	7,021.1	85.8	26.0	-55.12	504.4	1,084.9	3,952.1	3,873.6	78.50	50.342		
12,100.0	7,500.0	7,150.0	7,021.1	87.4	26.0	-55.12	504.4	1,084.9	4,049.9	3,970.0	79.93	50.670		
12,200.0	7,500.0	7,150.0	7,021.1	89.0	26.0	-55.12	504.4	1,084.9	4,147.8	4,066.5	81.35	50.987		
12,300.0	7,500.0	7,150.0	7,021.1	90.6	26.0	-55.12	504.4	1,084.9	4,245.8	4,163.0	82.77	51.293		
12,400.0	7,500.0	7,150.0	7,021.1	92.2	26.0	-55.12	504.4	1,084.9	4,343.9	4,259.7	84.20	51.590		
12,500.0	7,500.0	7,150.0	7,021.1	93.8	26.0	-55.12	504.4	1,084.9	4,442.0	4,356.4	85.62	51.878		
12,600.0	7,500.0	7,150.0	7,021.1	95.5	26.0	-55.12	504.4	1,084.9	4,540.3	4,453.2	87.05	52.156		
12,700.0	7,500.0	7,150.0	7,021.1	97.1	26.0	-55.12	504.4	1,084.9	4,638.6	4,550.1	88.48	52.427		
12,800.0	7,500.0	7,150.0	7,021.1	98.7	26.0	-55.12	504.4	1,084.9	4,737.0	4,647.1	89.91	52.689		
12,900.0	7,500.0	7,150.0	7,021.1	100.4	26.0	-55.12	504.4	1,084.9	4,835.5	4,744.1	91.33	52.943		
13,000.0	7,500.0	7,150.0	7,021.1	102.0	26.0	-55.12	504.4	1,084.9	4,934.0	4,841.2	92.76	53.190		
13,100.0	7,500.0	7,150.0	7,021.1	103.7	26.0	-55.12	504.4	1,084.9	5,032.5	4,938.4	94.19	53.429		
13,200.0	7,500.0	7,150.0	7,021.1	105.3	26.0	-55.12	504.4	1,084.9	5,131.2	5,035.6	95.62	53.662		
13,300.0	7,500.0	7,150.0	7,021.1	107.0	26.0	-55.12	504.4	1,084.9	5,229.9	5,132.8	97.05	53.888		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.74	0.4	-80.0	80.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.74	0.4	-80.0	80.0	79.7	0.30	263.581		
200.0	200.0	200.0	200.0	0.3	0.3	-89.74	0.4	-80.0	80.0	79.4	0.65	122.629 CC		
300.0	300.0	301.3	301.3	0.5	0.5	178.69	0.7	-79.2	80.1	79.1	1.00	79.751		
400.0	400.0	402.7	402.6	0.7	0.7	179.38	1.5	-76.7	80.2	78.9	1.36	59.150		
500.0	499.9	504.0	503.8	0.9	0.9	-179.49	3.0	-72.4	80.4	78.7	1.71	47.070 ES		
600.0	599.7	605.3	604.9	1.1	1.1	-177.91	5.0	-66.5	80.8	78.7	2.06	39.152		
700.0	699.4	706.5	705.9	1.3	1.3	-175.91	7.7	-58.9	81.4	78.9	2.42	33.577		
800.0	798.9	807.8	806.6	1.5	1.5	-173.50	10.9	-49.6	82.2	79.4	2.79	29.449		
900.0	898.3	909.0	907.2	1.8	1.8	-170.73	14.6	-38.6	83.3	80.2	3.17	26.270		
1,000.0	997.4	1,010.1	1,007.4	2.0	2.1	-167.64	19.0	-26.0	84.9	81.3	3.58	23.739		
1,100.0	1,096.3	1,111.2	1,107.4	2.3	2.4	-164.28	23.9	-11.7	87.0	82.9	4.01	21.662		
1,200.0	1,194.9	1,212.3	1,207.0	2.7	2.7	-160.73	29.4	4.3	89.6	85.1	4.50	19.913		
1,300.0	1,293.3	1,313.3	1,306.3	3.0	3.1	-157.06	35.5	21.9	92.8	87.8	5.04	18.410		
1,400.0	1,391.2	1,414.2	1,405.1	3.4	3.5	-153.34	42.1	41.1	96.8	91.1	5.66	17.104		
1,500.0	1,488.9	1,515.0	1,503.5	3.8	3.9	-149.65	49.3	62.0	101.5	95.2	6.36	15.967		
1,600.0	1,586.1	1,615.5	1,601.2	4.3	4.3	-146.07	57.0	84.4	107.1	99.9	7.14	14.995		
1,700.0	1,682.9	1,715.1	1,697.9	4.7	4.8	-143.15	64.9	107.1	114.1	106.1	7.96	14.333		
1,800.0	1,779.3	1,814.7	1,794.5	5.2	5.2	-141.08	72.7	129.8	122.6	113.9	8.79	13.957		
1,900.0	1,875.2	1,914.1	1,891.0	5.8	5.7	-139.75	80.5	152.5	132.7	123.1	9.62	13.798 SF		
2,000.0	1,970.5	2,013.5	1,987.4	6.3	6.1	-139.06	88.3	175.1	144.1	133.7	10.44	13.806		
2,022.8	1,992.2	2,036.1	2,009.3	6.4	6.2	-138.97	90.1	180.3	146.9	136.3	10.62	13.829		
2,100.0	2,065.5	2,112.7	2,083.7	6.9	6.6	-138.80	96.1	197.8	156.4	145.2	11.25	13.908		
2,200.0	2,160.5	2,211.9	2,180.0	7.5	7.0	-138.62	103.9	220.4	168.8	156.8	12.06	13.993		
2,300.0	2,255.5	2,311.2	2,276.3	8.0	7.5	-138.45	111.7	243.0	181.2	168.3	12.89	14.062		
2,400.0	2,350.5	2,410.4	2,372.6	8.6	7.9	-138.31	119.5	265.6	193.6	179.9	13.71	14.119		
2,500.0	2,445.5	2,509.6	2,468.9	9.2	8.4	-138.19	127.3	288.3	205.9	191.4	14.54	14.167		
2,600.0	2,540.4	2,608.9	2,565.2	9.8	8.8	-138.07	135.1	310.9	218.3	203.0	15.37	14.207		
2,700.0	2,635.4	2,708.1	2,661.5	10.4	9.3	-137.98	142.9	333.5	230.7	214.5	16.20	14.241		
2,800.0	2,730.4	2,807.3	2,757.8	11.0	9.7	-137.89	150.7	356.1	243.1	226.1	17.03	14.270		
2,900.0	2,825.4	2,906.5	2,854.1	11.6	10.2	-137.81	158.5	378.8	255.5	237.6	17.87	14.296		
3,000.0	2,920.4	3,005.8	2,950.4	12.2	10.7	-137.73	166.3	401.4	267.8	249.1	18.71	14.317		
3,100.0	3,015.4	3,105.0	3,046.7	12.8	11.1	-137.67	174.0	424.0	280.2	260.7	19.55	14.337		
3,200.0	3,110.3	3,204.2	3,143.0	13.3	11.6	-137.61	181.8	446.6	292.6	272.2	20.39	14.353		
3,300.0	3,205.3	3,303.5	3,239.3	13.9	12.0	-137.55	189.6	469.3	305.0	283.8	21.23	14.368		
3,400.0	3,300.3	3,402.7	3,335.6	14.5	12.5	-137.50	197.4	491.9	317.4	295.3	22.07	14.381		
3,500.0	3,395.3	3,501.9	3,431.9	15.1	12.9	-137.45	205.2	514.5	329.8	306.8	22.91	14.393		
3,600.0	3,490.3	3,601.2	3,528.2	15.7	13.4	-137.41	213.0	537.2	342.1	318.4	23.75	14.404		
3,700.0	3,585.2	3,700.4	3,624.5	16.3	13.9	-137.37	220.8	559.8	354.5	329.9	24.60	14.413		
3,800.0	3,680.2	3,799.6	3,720.8	16.9	14.3	-137.33	228.6	582.4	366.9	341.5	25.44	14.422		
3,900.0	3,775.2	3,898.8	3,817.1	17.5	14.8	-137.29	236.4	605.0	379.3	353.0	26.29	14.430		
4,000.0	3,870.2	3,998.1	3,913.4	18.1	15.2	-137.26	244.2	627.7	391.7	364.5	27.13	14.437		
4,100.0	3,965.2	4,097.3	4,009.7	18.7	15.7	-137.23	252.0	650.3	404.1	376.1	27.98	14.443		
4,200.0	4,060.2	4,196.5	4,106.0	19.3	16.2	-137.20	259.8	672.9	416.4	387.6	28.82	14.449		
4,300.0	4,155.1	4,295.8	4,202.3	19.9	16.6	-137.17	267.6	695.5	428.8	399.2	29.67	14.454		
4,400.0	4,250.1	4,395.0	4,298.6	20.5	17.1	-137.14	275.4	718.2	441.2	410.7	30.51	14.459		
4,500.0	4,345.1	4,494.2	4,394.9	21.1	17.5	-137.12	283.2	740.8	453.6	422.2	31.36	14.464		
4,600.0	4,440.1	4,593.5	4,491.2	21.7	18.0	-137.09	291.0	763.4	466.0	433.8	32.21	14.468		
4,700.0	4,535.1	4,692.7	4,587.5	22.3	18.5	-137.07	298.8	786.0	478.4	445.3	33.05	14.472		
4,800.0	4,630.1	4,791.9	4,683.8	22.9	18.9	-137.05	306.6	808.7	490.7	456.8	33.90	14.475		
4,900.0	4,725.0	4,891.2	4,780.1	23.5	19.4	-137.03	314.4	831.3	503.1	468.4	34.75	14.479		
5,000.0	4,820.0	4,990.4	4,876.4	24.1	19.9	-137.01	322.2	853.9	515.5	479.9	35.60	14.482		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	4,915.0	5,089.6	4,972.7	24.6	20.3	-136.99	330.0	876.5	527.9	491.5	36.45	14.485	
5,200.0	5,010.0	5,188.8	5,069.0	25.2	20.8	-136.98	337.8	899.2	540.3	503.0	37.29	14.487	
5,300.0	5,105.0	5,288.1	5,165.3	25.8	21.2	-136.96	345.6	921.8	552.7	514.5	38.14	14.490	
5,400.0	5,199.9	5,387.3	5,261.6	26.4	21.7	-136.94	353.3	944.4	565.0	526.1	38.99	14.492	
5,500.0	5,294.9	5,486.5	5,357.9	27.0	22.2	-136.93	361.1	967.0	577.4	537.6	39.84	14.494	
5,600.0	5,389.9	5,585.8	5,454.2	27.6	22.6	-136.91	368.9	989.7	589.8	549.1	40.69	14.496	
5,700.0	5,484.9	5,685.0	5,550.5	28.2	23.1	-136.90	376.7	1,012.3	602.2	560.7	41.54	14.498	
5,800.0	5,579.9	5,784.2	5,646.8	28.8	23.5	-136.89	384.5	1,034.9	614.6	572.2	42.39	14.500	
5,900.0	5,674.9	5,883.5	5,743.1	29.4	24.0	-136.87	392.3	1,057.5	627.0	583.7	43.23	14.502	
6,000.0	5,769.8	5,982.7	5,839.4	30.0	24.5	-136.86	400.1	1,080.2	639.4	595.3	44.08	14.503	
6,100.0	5,864.8	6,081.9	5,935.7	30.6	24.9	-136.85	407.9	1,102.8	651.7	606.8	44.93	14.505	
6,200.0	5,959.8	6,181.1	6,032.0	31.2	25.4	-136.84	415.7	1,125.4	664.1	618.3	45.78	14.506	
6,300.0	6,054.8	6,280.4	6,128.3	31.8	25.8	-136.83	423.5	1,148.0	676.5	629.9	46.63	14.508	
6,400.0	6,149.8	6,379.6	6,224.6	32.4	26.3	-136.81	431.3	1,170.7	688.9	641.4	47.48	14.509	
6,500.0	6,244.7	6,478.8	6,320.9	33.0	26.8	-136.80	439.1	1,193.3	701.3	653.0	48.33	14.510	
6,600.0	6,339.7	6,578.1	6,417.2	33.6	27.2	-136.79	446.9	1,215.9	713.7	664.5	49.18	14.511	
6,700.0	6,434.7	6,677.3	6,513.5	34.2	27.7	-136.78	454.7	1,238.5	726.0	676.0	50.03	14.513	
6,800.0	6,529.7	6,776.5	6,609.8	34.8	28.2	-136.78	462.5	1,261.2	738.4	687.6	50.88	14.514	
6,900.0	6,624.7	6,875.8	6,706.1	35.4	28.6	-136.77	470.3	1,283.8	750.8	699.1	51.73	14.515	
7,000.0	6,719.7	6,975.0	6,802.4	36.0	29.1	-136.76	478.1	1,306.4	763.2	710.6	52.58	14.516	
7,100.0	6,814.6	7,074.2	6,898.7	36.6	29.5	-136.75	485.9	1,329.0	775.6	722.2	53.43	14.516	
7,200.0	6,909.6	7,173.4	6,995.0	37.2	30.0	-136.74	493.7	1,351.7	788.0	733.7	54.28	14.517	
7,225.4	6,933.7	7,198.6	7,019.5	37.3	30.1	-136.74	495.6	1,357.4	791.1	736.6	54.49	14.518	
7,250.0	6,957.1	7,223.1	7,043.2	37.5	30.2	-129.09	497.6	1,363.0	793.8	738.9	54.87	14.467	
7,300.0	7,004.6	7,272.9	7,091.6	37.8	30.5	-114.20	501.5	1,374.4	796.6	741.4	55.22	14.425	
7,350.0	7,051.7	7,366.9	7,182.9	38.0	30.9	-102.19	507.0	1,395.8	796.1	741.3	54.85	14.514	
7,400.0	7,098.0	7,944.3	7,654.3	38.3	31.9	-122.05	239.3	1,506.6	771.7	739.3	32.40	23.819	
7,450.0	7,143.3	8,004.2	7,682.7	38.5	32.0	-123.33	187.0	1,513.2	741.7	713.5	28.20	26.296	
7,500.0	7,187.1	8,010.3	7,685.3	38.8	32.0	-121.46	181.6	1,513.8	713.0	685.5	27.51	25.914	
7,550.0	7,229.2	8,001.3	7,681.4	39.0	32.0	-119.24	189.6	1,512.9	686.3	658.9	27.42	25.029	
7,600.0	7,269.2	7,986.2	7,674.7	39.2	32.0	-117.10	203.1	1,511.4	662.0	634.6	27.45	24.120	
7,650.0	7,306.8	7,968.0	7,666.1	39.4	31.9	-115.06	219.0	1,509.3	640.3	612.8	27.48	23.297	
7,700.0	7,341.7	7,947.9	7,656.1	39.6	31.9	-113.07	236.3	1,507.0	621.4	593.9	27.54	22.567	
7,750.0	7,373.7	7,926.7	7,644.9	39.8	31.9	-111.06	254.1	1,504.4	605.5	577.9	27.65	21.900	
7,800.0	7,402.5	7,904.8	7,632.6	39.9	31.9	-109.00	272.1	1,501.5	592.7	564.9	27.84	21.295	
7,850.0	7,427.9	7,882.3	7,619.4	40.1	31.9	-106.84	290.0	1,498.4	583.1	555.0	28.11	20.740	
7,900.0	7,449.7	7,859.4	7,605.2	40.2	31.9	-104.59	307.6	1,495.0	576.6	548.1	28.46	20.257	
7,950.0	7,467.8	7,836.2	7,590.1	40.4	31.9	-102.23	324.9	1,491.5	573.1	544.2	28.84	19.872	
7,986.7	7,478.5	7,819.0	7,578.6	40.5	31.8	-100.44	337.2	1,488.8	572.3	543.2	29.10	19.668	
8,000.0	7,481.9	7,812.8	7,574.2	40.6	31.8	-99.78	341.7	1,487.8	572.4	543.2	29.18	19.619	
8,050.0	7,492.0	7,789.2	7,557.6	40.7	31.8	-97.27	357.9	1,483.8	574.4	545.0	29.41	19.529	
8,100.0	7,498.1	7,765.5	7,540.2	40.9	31.8	-94.71	373.5	1,479.8	578.7	549.3	29.49	19.626	
8,148.1	7,500.0	7,742.5	7,522.8	41.0	31.8	-92.25	387.9	1,475.7	584.9	555.5	29.37	19.910	
8,200.0	7,500.0	7,719.0	7,504.3	41.2	31.7	-90.43	401.8	1,471.3	593.9	564.2	29.77	19.951	
8,300.0	7,500.0	7,680.0	7,472.7	41.5	31.7	-87.33	423.3	1,463.9	620.4	589.8	30.62	20.263	
8,400.0	7,500.0	7,650.0	7,447.3	42.0	31.7	-84.91	438.2	1,457.9	658.2	626.6	31.58	20.841	
8,500.0	7,500.0	7,621.0	7,422.2	42.5	31.6	-82.56	451.3	1,452.0	706.1	673.5	32.61	21.655	
8,600.0	7,500.0	7,600.0	7,403.5	43.1	31.6	-80.86	460.0	1,447.6	762.8	729.0	33.74	22.608	
8,700.0	7,500.0	7,579.1	7,384.8	43.7	31.5	-79.18	467.9	1,443.2	826.6	791.7	34.90	23.683	
8,800.0	7,500.0	7,550.0	7,358.1	44.4	31.5	-76.86	477.8	1,437.0	896.5	860.5	36.00	24.906	
8,900.0	7,500.0	7,550.0	7,358.1	45.2	31.5	-76.86	477.8	1,437.0	970.8	933.3	37.44	25.931	
9,000.0	7,500.0	7,550.0	7,358.1	46.0	31.5	-76.86	477.8	1,437.0	1,049.3	1,010.4	38.91	26.966	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,100.0	7,500.0	7,524.4	7,334.3	46.9	31.4	-74.87	485.3	1,431.4	1,130.4	1,090.3	40.07	28.212	
9,200.0	7,500.0	7,500.0	7,311.3	47.8	31.3	-73.01	491.5	1,426.0	1,214.6	1,173.4	41.22	29.468	
9,300.0	7,500.0	7,500.0	7,311.3	48.8	31.3	-73.01	491.5	1,426.0	1,300.3	1,257.6	42.74	30.424	
9,400.0	7,500.0	7,500.0	7,311.3	49.8	31.3	-73.01	491.5	1,426.0	1,388.0	1,343.7	44.28	31.346	
9,500.0	7,500.0	7,500.0	7,311.3	50.8	31.3	-73.01	491.5	1,426.0	1,477.3	1,431.4	45.84	32.229	
9,600.0	7,500.0	7,500.0	7,311.3	51.9	31.3	-73.01	491.5	1,426.0	1,567.8	1,520.4	47.40	33.074	
9,700.0	7,500.0	7,478.2	7,290.6	53.1	31.3	-71.40	496.1	1,421.1	1,658.9	1,610.3	48.56	34.162	
9,803.1	7,500.0	7,472.7	7,285.3	54.3	31.3	-70.99	497.2	1,419.9	1,754.1	1,704.0	50.07	35.033	
9,900.0	7,500.0	7,450.0	7,263.5	55.4	31.2	-69.37	500.9	1,414.7	1,844.5	1,793.4	51.10	36.093	
10,000.0	7,500.0	7,450.0	7,263.5	56.6	31.2	-69.37	500.9	1,414.7	1,938.0	1,885.3	52.67	36.792	
10,100.0	7,500.0	7,450.0	7,263.5	57.9	31.2	-69.37	500.9	1,414.7	2,032.1	1,977.9	54.25	37.457	
10,200.0	7,500.0	7,450.0	7,263.5	59.2	31.2	-69.37	500.9	1,414.7	2,126.7	2,070.9	55.83	38.091	
10,300.0	7,500.0	7,450.0	7,263.5	60.5	31.2	-69.37	500.9	1,414.7	2,221.9	2,164.4	57.42	38.694	
10,400.0	7,500.0	7,450.0	7,263.5	61.8	31.2	-69.37	500.9	1,414.7	2,317.4	2,258.4	59.01	39.269	
10,500.0	7,500.0	7,450.0	7,263.5	63.1	31.2	-69.37	500.9	1,414.7	2,413.3	2,352.7	60.61	39.817	
10,600.0	7,500.0	7,450.0	7,263.5	64.5	31.2	-69.37	500.9	1,414.7	2,509.5	2,447.3	62.21	40.340	
10,703.1	7,500.0	7,450.0	7,263.5	65.9	31.2	-69.37	500.9	1,414.7	2,609.0	2,545.2	63.86	40.855	
10,800.0	7,500.0	7,450.0	7,263.5	67.3	31.2	-67.97	500.9	1,414.7	2,702.9	2,637.3	65.58	41.216	
10,900.0	7,500.0	7,450.0	7,263.5	68.8	31.2	-66.26	500.9	1,414.7	2,800.4	2,733.3	67.14	41.709	
11,000.0	7,500.0	7,450.0	7,263.5	70.2	31.2	-64.19	500.9	1,414.7	2,898.4	2,830.0	68.40	42.374	
11,100.0	7,500.0	7,450.0	7,263.5	71.7	31.2	-61.65	500.9	1,414.7	2,996.9	2,927.6	69.22	43.293	
11,200.0	7,500.0	7,428.4	7,242.6	73.3	31.1	-56.62	503.7	1,409.8	3,095.2	3,027.1	68.10	45.449	
11,253.1	7,500.0	7,427.5	7,241.7	74.1	31.1	-54.51	503.8	1,409.6	3,147.7	3,080.1	67.66	46.521	
11,300.0	7,500.0	7,426.7	7,241.0	74.8	31.1	-54.45	503.9	1,409.5	3,194.1	3,125.8	68.27	46.786	
11,400.0	7,500.0	7,425.1	7,239.5	76.3	31.1	-54.32	504.0	1,409.1	3,293.2	3,223.6	69.57	47.336	
11,500.0	7,500.0	7,423.6	7,238.0	77.9	31.1	-54.19	504.2	1,408.8	3,392.3	3,321.4	70.87	47.865	
11,600.0	7,500.0	7,422.2	7,236.7	79.5	31.1	-54.07	504.3	1,408.4	3,491.4	3,419.2	72.18	48.374	
11,700.0	7,500.0	7,400.0	7,215.1	81.0	31.0	-52.29	506.1	1,403.4	3,591.1	3,519.0	72.04	49.845	
11,800.0	7,500.0	7,400.0	7,215.1	82.6	31.0	-52.29	506.1	1,403.4	3,690.2	3,616.8	73.41	50.266	
11,900.0	7,500.0	7,400.0	7,215.1	84.2	31.0	-52.29	506.1	1,403.4	3,789.4	3,714.7	74.78	50.672	
12,000.0	7,500.0	7,400.0	7,215.1	85.8	31.0	-52.29	506.1	1,403.4	3,888.7	3,812.6	76.16	51.063	
12,100.0	7,500.0	7,400.0	7,215.1	87.4	31.0	-52.29	506.1	1,403.4	3,988.0	3,910.5	77.53	51.439	
12,200.0	7,500.0	7,400.0	7,215.1	89.0	31.0	-52.29	506.1	1,403.4	4,087.3	4,008.4	78.90	51.803	
12,300.0	7,500.0	7,400.0	7,215.1	90.6	31.0	-52.29	506.1	1,403.4	4,186.7	4,106.4	80.28	52.154	
12,400.0	7,500.0	7,400.0	7,215.1	92.2	31.0	-52.29	506.1	1,403.4	4,286.1	4,204.4	81.65	52.493	
12,500.0	7,500.0	7,400.0	7,215.1	93.8	31.0	-52.29	506.1	1,403.4	4,385.5	4,302.5	83.03	52.821	
12,600.0	7,500.0	7,400.0	7,215.1	95.5	31.0	-52.29	506.1	1,403.4	4,485.0	4,400.6	84.40	53.138	
12,700.0	7,500.0	7,400.0	7,215.1	97.1	31.0	-52.29	506.1	1,403.4	4,584.4	4,498.7	85.78	53.445	
12,800.0	7,500.0	7,400.0	7,215.1	98.7	31.0	-52.29	506.1	1,403.4	4,683.9	4,596.8	87.16	53.741	
12,900.0	7,500.0	7,400.0	7,215.1	100.4	31.0	-52.29	506.1	1,403.4	4,783.4	4,694.9	88.53	54.029	
13,000.0	7,500.0	7,400.0	7,215.1	102.0	31.0	-52.29	506.1	1,403.4	4,883.0	4,793.1	89.91	54.308	
13,100.0	7,500.0	7,400.0	7,215.1	103.7	31.0	-52.29	506.1	1,403.4	4,982.5	4,891.2	91.29	54.578	
13,200.0	7,500.0	7,400.0	7,215.1	105.3	31.0	-52.29	506.1	1,403.4	5,082.1	4,989.4	92.67	54.840	
13,300.0	7,500.0	7,400.0	7,215.1	107.0	31.0	-52.29	506.1	1,403.4	5,181.7	5,087.6	94.05	55.094	

Cathedral Energy Services

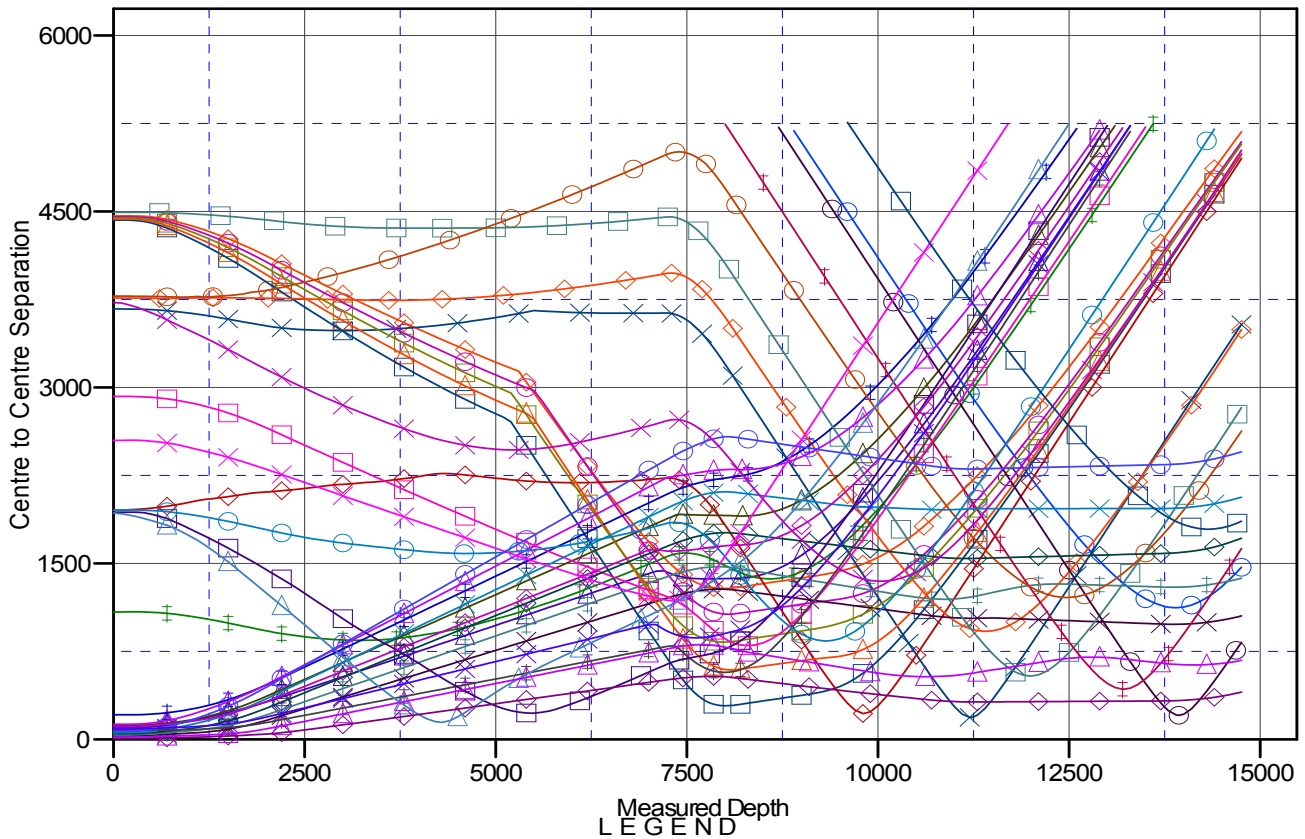
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-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 #3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 5007.0ft (Unassigned)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

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

Ladder Plot



NOBLE WELL, NO SURVEYS V0	WOOLLEY 12-7 (EXISTING), ENCANA WELL, NO SURVEYS V0	WOOLLEY 22-7 (EXISTING), ENCANA
8, HZ, Plan #2 V0	BEARDEN 23-6 (EXISTING), ENCANA WELL, GYRO V0	WOOLLEY 21-7 (EXISTING), ENCANA
8, HZ, Plan #2 V0	Woolley-Becky 2D-7H-E168, Hz, Plan #4 V0	Woolley-Sosa 2D-7H-E168, HZ, Plan #
ING), KERR-MCGEE WELL, SURVEYS V0	Morgan Hills 1C-7H-A168, HZ, Plan #2 V0	THOMAS 33-7 (EXISTING), ENCANA
38, HZ, Plan #3 V0	BULTHAUP 21-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	WOOLLEY 2-4-7 (EXISTING), ENCANA
ISTING), ENCANA WELL, GYRO V0	BECKY 7-6 (EXISTING), NOBLE WELL, NO SURVEYS V0	BECKY 5-6 (EXISTING), FOUNDATION
8, HZ, Plan #2 V0	Woolley-Sosa 2B-7H-E168, HZ, Plan #2 V0	Woolley-Becky 2A-7H-E168, Hz, Plan #
ING), ENCANA WELL, SURVEYS V0	WOOLLEY A 1-7 (EXISTING), ENCANA WELL, NO SURVEYS V0	Woolley-Becky 2G-7H-E168, Hz, Plan #
), ENCANA WELL, SURVEYS V0	BEARDEN 2-4-6 (EXISTING), ENCANA WELL, PLAN ONLY V0	Woolley-Sosa 2F-7H-E168, HZ, Plan #
68, Hz, Plan #2 V0	Woolley-Becky 2C-7H-E168, Hz, Plan #4 V0	BEARDEN 2-8-6 (EXISTING), ENCANA

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