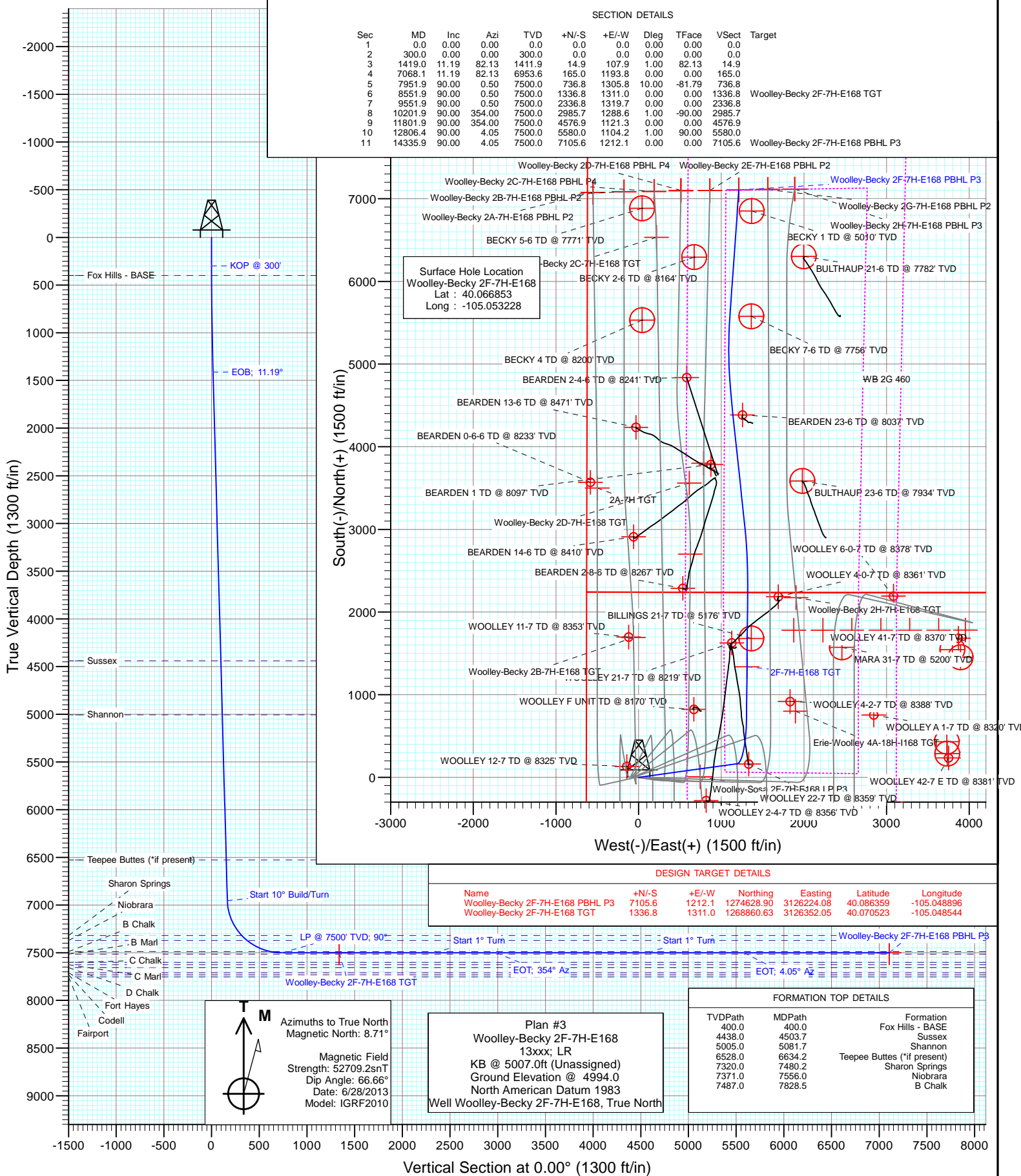




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2F-7H-E168
Wellbore: Hz
Design: Plan #3



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-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 2F-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.24 ft	Latitude:	40.066853
	+E/-W	0.0 ft	Easting:	3,125,047.80 ft	Longitude:	-105.053228
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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,419.0	11.19	82.13	1,411.9	14.9	107.9	1.00	1.00	0.00	82.13	
7,068.1	11.19	82.13	6,953.6	165.0	1,193.8	0.00	0.00	0.00	0.00	
7,951.9	90.00	0.50	7,500.0	736.8	1,305.8	10.00	8.92	-9.24	-81.79	
8,551.9	90.00	0.50	7,500.0	1,336.8	1,311.0	0.00	0.00	0.00	0.00	Woolley-Becky 2F-7H
9,551.9	90.00	0.50	7,500.0	2,336.8	1,319.7	0.00	0.00	0.00	0.00	
10,201.9	90.00	354.00	7,500.0	2,985.7	1,288.6	1.00	0.00	-1.00	-90.00	
11,801.9	90.00	354.00	7,500.0	4,576.9	1,121.3	0.00	0.00	0.00	0.00	
12,806.4	90.00	4.05	7,500.0	5,580.0	1,104.2	1.00	0.00	1.00	90.00	
14,335.9	90.00	4.05	7,500.0	7,105.6	1,212.1	0.00	0.00	0.00	0.00	Woolley-Becky 2F-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2F-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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	1.00	82.13	400.0	0.1	0.9	0.1	1.00	1.00	Fox Hills - BASE
500.0	2.00	82.13	500.0	0.5	3.5	0.5	1.00	1.00	
600.0	3.00	82.13	599.9	1.1	7.8	1.1	1.00	1.00	
700.0	4.00	82.13	699.7	1.9	13.8	1.9	1.00	1.00	
800.0	5.00	82.13	799.4	3.0	21.6	3.0	1.00	1.00	
900.0	6.00	82.13	898.9	4.3	31.1	4.3	1.00	1.00	
1,000.0	7.00	82.13	998.3	5.8	42.3	5.8	1.00	1.00	
1,100.0	8.00	82.13	1,097.4	7.6	55.2	7.6	1.00	1.00	
1,200.0	9.00	82.13	1,196.3	9.7	69.9	9.7	1.00	1.00	
1,300.0	10.00	82.13	1,294.9	11.9	86.2	11.9	1.00	1.00	
1,400.0	11.00	82.13	1,393.3	14.4	104.3	14.4	1.00	1.00	
1,419.0	11.19	82.13	1,411.9	14.9	107.9	14.9	1.00	1.00	EOB; 11.19°
1,500.0	11.19	82.13	1,491.4	17.1	123.5	17.1	0.00	0.00	
1,600.0	11.19	82.13	1,589.5	19.7	142.7	19.7	0.00	0.00	
1,700.0	11.19	82.13	1,687.6	22.4	161.9	22.4	0.00	0.00	
1,800.0	11.19	82.13	1,785.7	25.0	181.1	25.0	0.00	0.00	
1,900.0	11.19	82.13	1,883.8	27.7	200.4	27.7	0.00	0.00	
2,000.0	11.19	82.13	1,981.9	30.4	219.6	30.4	0.00	0.00	
2,100.0	11.19	82.13	2,080.0	33.0	238.8	33.0	0.00	0.00	
2,200.0	11.19	82.13	2,178.1	35.7	258.0	35.7	0.00	0.00	
2,300.0	11.19	82.13	2,276.2	38.3	277.3	38.3	0.00	0.00	
2,400.0	11.19	82.13	2,374.3	41.0	296.5	41.0	0.00	0.00	
2,500.0	11.19	82.13	2,472.3	43.6	315.7	43.6	0.00	0.00	
2,600.0	11.19	82.13	2,570.4	46.3	334.9	46.3	0.00	0.00	
2,700.0	11.19	82.13	2,668.5	49.0	354.1	49.0	0.00	0.00	
2,800.0	11.19	82.13	2,766.6	51.6	373.4	51.6	0.00	0.00	
2,900.0	11.19	82.13	2,864.7	54.3	392.6	54.3	0.00	0.00	
3,000.0	11.19	82.13	2,962.8	56.9	411.8	56.9	0.00	0.00	
3,100.0	11.19	82.13	3,060.9	59.6	431.0	59.6	0.00	0.00	
3,200.0	11.19	82.13	3,159.0	62.2	450.3	62.2	0.00	0.00	
3,300.0	11.19	82.13	3,257.1	64.9	469.5	64.9	0.00	0.00	
3,400.0	11.19	82.13	3,355.2	67.6	488.7	67.6	0.00	0.00	
3,500.0	11.19	82.13	3,453.3	70.2	507.9	70.2	0.00	0.00	
3,600.0	11.19	82.13	3,551.4	72.9	527.2	72.9	0.00	0.00	
3,700.0	11.19	82.13	3,649.5	75.5	546.4	75.5	0.00	0.00	
3,800.0	11.19	82.13	3,747.6	78.2	565.6	78.2	0.00	0.00	
3,900.0	11.19	82.13	3,845.7	80.9	584.8	80.9	0.00	0.00	
4,000.0	11.19	82.13	3,943.8	83.5	604.0	83.5	0.00	0.00	
4,100.0	11.19	82.13	4,041.9	86.2	623.3	86.2	0.00	0.00	
4,200.0	11.19	82.13	4,140.0	88.8	642.5	88.8	0.00	0.00	
4,300.0	11.19	82.13	4,238.1	91.5	661.7	91.5	0.00	0.00	
4,400.0	11.19	82.13	4,336.2	94.1	680.9	94.1	0.00	0.00	
4,500.0	11.19	82.13	4,434.3	96.8	700.2	96.8	0.00	0.00	
4,503.7	11.19	82.13	4,438.0	96.9	700.9	96.9	0.00	0.00	Sussex
4,600.0	11.19	82.13	4,532.4	99.5	719.4	99.5	0.00	0.00	
4,700.0	11.19	82.13	4,630.5	102.1	738.6	102.1	0.00	0.00	
4,800.0	11.19	82.13	4,728.6	104.8	757.8	104.8	0.00	0.00	
4,900.0	11.19	82.13	4,826.7	107.4	777.1	107.4	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2F-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	11.19	82.13	4,924.8	110.1	796.3	110.1	0.00	0.00	
5,081.7	11.19	82.13	5,005.0	112.3	812.0	112.3	0.00	0.00	Shannon
5,100.0	11.19	82.13	5,022.9	112.7	815.5	112.7	0.00	0.00	
5,200.0	11.19	82.13	5,121.0	115.4	834.7	115.4	0.00	0.00	
5,300.0	11.19	82.13	5,219.1	118.1	854.0	118.1	0.00	0.00	
5,400.0	11.19	82.13	5,317.2	120.7	873.2	120.7	0.00	0.00	
5,500.0	11.19	82.13	5,415.3	123.4	892.4	123.4	0.00	0.00	
5,600.0	11.19	82.13	5,513.4	126.0	911.6	126.0	0.00	0.00	
5,700.0	11.19	82.13	5,611.5	128.7	930.8	128.7	0.00	0.00	
5,800.0	11.19	82.13	5,709.6	131.3	950.1	131.3	0.00	0.00	
5,900.0	11.19	82.13	5,807.7	134.0	969.3	134.0	0.00	0.00	
6,000.0	11.19	82.13	5,905.8	136.7	988.5	136.7	0.00	0.00	
6,100.0	11.19	82.13	6,003.9	139.3	1,007.7	139.3	0.00	0.00	
6,200.0	11.19	82.13	6,102.0	142.0	1,027.0	142.0	0.00	0.00	
6,300.0	11.19	82.13	6,200.1	144.6	1,046.2	144.6	0.00	0.00	
6,400.0	11.19	82.13	6,298.2	147.3	1,065.4	147.3	0.00	0.00	
6,500.0	11.19	82.13	6,396.3	149.9	1,084.6	149.9	0.00	0.00	
6,600.0	11.19	82.13	6,494.4	152.6	1,103.9	152.6	0.00	0.00	
6,634.2	11.19	82.13	6,528.0	153.5	1,110.4	153.5	0.00	0.00	Teepee Buttes (*if present)
6,700.0	11.19	82.13	6,592.5	155.3	1,123.1	155.3	0.00	0.00	
6,800.0	11.19	82.13	6,690.6	157.9	1,142.3	157.9	0.00	0.00	
6,900.0	11.19	82.13	6,788.7	160.6	1,161.5	160.6	0.00	0.00	
7,000.0	11.19	82.13	6,886.8	163.2	1,180.7	163.2	0.00	0.00	
7,068.1	11.19	82.13	6,953.6	165.0	1,193.8	165.0	0.00	0.00	Start 10° Build/Turn
7,100.0	12.06	66.84	6,984.9	166.8	1,200.0	166.8	10.00	2.73	
7,150.0	14.75	48.50	7,033.5	173.1	1,209.5	173.1	10.00	5.38	
7,200.0	18.42	36.50	7,081.4	183.6	1,219.0	183.6	10.00	7.33	
7,250.0	22.59	28.57	7,128.3	198.4	1,228.3	198.4	10.00	8.34	
7,300.0	27.03	23.06	7,173.7	217.3	1,237.4	217.3	10.00	8.88	
7,350.0	31.62	19.03	7,217.2	240.2	1,246.1	240.2	10.00	9.19	
7,400.0	36.32	15.94	7,258.7	266.8	1,254.4	266.8	10.00	9.39	
7,450.0	41.07	13.48	7,297.7	297.1	1,262.3	297.1	10.00	9.51	
7,480.2	43.97	12.20	7,320.0	317.0	1,266.9	317.0	10.00	9.59	Sharon Springs
7,500.0	45.87	11.44	7,334.0	330.6	1,269.7	330.6	10.00	9.62	
7,550.0	50.71	9.72	7,367.2	367.3	1,276.6	367.3	10.00	9.66	
7,556.0	51.28	9.53	7,371.0	371.9	1,277.3	371.9	10.00	9.69	Niobrara
7,600.0	55.56	8.21	7,397.2	406.8	1,282.8	406.8	10.00	9.71	
7,650.0	60.43	6.88	7,423.7	448.8	1,288.3	448.8	10.00	9.74	
7,700.0	65.31	5.66	7,446.5	493.1	1,293.2	493.1	10.00	9.76	
7,750.0	70.20	4.54	7,465.4	539.1	1,297.3	539.1	10.00	9.78	
7,800.0	75.10	3.49	7,480.4	586.7	1,300.6	586.7	10.00	9.80	
7,828.5	77.89	2.91	7,487.0	614.4	1,302.2	614.4	10.00	9.80	B Chalk
7,850.0	80.00	2.48	7,491.1	635.5	1,303.1	635.5	10.00	9.81	
7,900.0	84.91	1.50	7,497.7	685.0	1,304.9	685.0	10.00	9.81	
7,951.9	90.00	0.50	7,500.0	736.8	1,305.8	736.8	10.00	9.81	LP @ 7500' TVD; 90°
8,000.0	90.00	0.50	7,500.0	784.9	1,306.2	784.9	0.00	0.00	
8,100.0	90.00	0.50	7,500.0	884.9	1,307.1	884.9	0.00	0.00	
8,200.0	90.00	0.50	7,500.0	984.9	1,307.9	984.9	0.00	0.00	
8,300.0	90.00	0.50	7,500.0	1,084.9	1,308.8	1,084.9	0.00	0.00	
8,400.0	90.00	0.50	7,500.0	1,184.9	1,309.7	1,184.9	0.00	0.00	
8,500.0	90.00	0.50	7,500.0	1,284.9	1,310.5	1,284.9	0.00	0.00	
8,551.9	90.00	0.50	7,500.0	1,336.8	1,311.0	1,336.8	0.00	0.00	

Cathedral Energy Services

Planning Report

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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 2F-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	0.50	7,500.0	1,384.9	1,311.4	1,384.9	0.00	0.00	
8,700.0	90.00	0.50	7,500.0	1,484.9	1,312.3	1,484.9	0.00	0.00	
8,800.0	90.00	0.50	7,500.0	1,584.9	1,313.2	1,584.9	0.00	0.00	
8,900.0	90.00	0.50	7,500.0	1,684.9	1,314.0	1,684.9	0.00	0.00	
9,000.0	90.00	0.50	7,500.0	1,784.9	1,314.9	1,784.9	0.00	0.00	
9,100.0	90.00	0.50	7,500.0	1,884.9	1,315.8	1,884.9	0.00	0.00	
9,200.0	90.00	0.50	7,500.0	1,984.9	1,316.7	1,984.9	0.00	0.00	
9,300.0	90.00	0.50	7,500.0	2,084.9	1,317.5	2,084.9	0.00	0.00	
9,400.0	90.00	0.50	7,500.0	2,184.9	1,318.4	2,184.9	0.00	0.00	
9,500.0	90.00	0.50	7,500.0	2,284.9	1,319.3	2,284.9	0.00	0.00	
9,551.9	90.00	0.50	7,500.0	2,336.8	1,319.7	2,336.8	0.00	0.00	Start 1° Turn
9,600.0	90.00	0.02	7,500.0	2,384.9	1,319.9	2,384.9	1.00	0.00	
9,700.0	90.00	359.02	7,500.0	2,484.9	1,319.1	2,484.9	1.00	0.00	
9,800.0	90.00	358.02	7,500.0	2,584.8	1,316.5	2,584.8	1.00	0.00	
9,900.0	90.00	357.02	7,500.0	2,684.7	1,312.2	2,684.7	1.00	0.00	
10,000.0	90.00	356.02	7,500.0	2,784.5	1,306.1	2,784.5	1.00	0.00	
10,100.0	90.00	355.02	7,500.0	2,884.2	1,298.3	2,884.2	1.00	0.00	
10,201.9	90.00	354.00	7,500.0	2,985.7	1,288.6	2,985.7	1.00	0.00	EOT; 354° Az
10,300.0	90.00	354.00	7,500.0	3,083.2	1,278.3	3,083.2	0.00	0.00	
10,400.0	90.00	354.00	7,500.0	3,182.7	1,267.9	3,182.7	0.00	0.00	
10,500.0	90.00	354.00	7,500.0	3,282.1	1,257.4	3,282.1	0.00	0.00	
10,600.0	90.00	354.00	7,500.0	3,381.6	1,246.9	3,381.6	0.00	0.00	
10,700.0	90.00	354.00	7,500.0	3,481.0	1,236.5	3,481.0	0.00	0.00	
10,800.0	90.00	354.00	7,500.0	3,580.5	1,226.0	3,580.5	0.00	0.00	
10,900.0	90.00	354.00	7,500.0	3,679.9	1,215.6	3,679.9	0.00	0.00	
11,000.0	90.00	354.00	7,500.0	3,779.4	1,205.1	3,779.4	0.00	0.00	
11,100.0	90.00	354.00	7,500.0	3,878.8	1,194.7	3,878.8	0.00	0.00	
11,200.0	90.00	354.00	7,500.0	3,978.3	1,184.2	3,978.3	0.00	0.00	
11,300.0	90.00	354.00	7,500.0	4,077.7	1,173.8	4,077.7	0.00	0.00	
11,400.0	90.00	354.00	7,500.0	4,177.2	1,163.3	4,177.2	0.00	0.00	
11,500.0	90.00	354.00	7,500.0	4,276.7	1,152.9	4,276.7	0.00	0.00	
11,600.0	90.00	354.00	7,500.0	4,376.1	1,142.4	4,376.1	0.00	0.00	
11,700.0	90.00	354.00	7,500.0	4,475.6	1,132.0	4,475.6	0.00	0.00	
11,801.9	90.00	354.00	7,500.0	4,576.9	1,121.3	4,576.9	0.00	0.00	Start 1° Turn
11,900.0	90.00	354.98	7,500.0	4,674.5	1,111.9	4,674.5	1.00	0.00	
12,000.0	90.00	355.98	7,500.0	4,774.2	1,104.0	4,774.2	1.00	0.00	
12,100.0	90.00	356.98	7,500.0	4,874.0	1,097.9	4,874.0	1.00	0.00	
12,200.0	90.00	357.98	7,500.0	4,973.9	1,093.5	4,973.9	1.00	0.00	
12,300.0	90.00	358.98	7,500.0	5,073.9	1,090.8	5,073.9	1.00	0.00	
12,400.0	90.00	359.98	7,500.0	5,173.9	1,089.9	5,173.9	1.00	0.00	
12,500.0	90.00	0.98	7,500.0	5,273.9	1,090.8	5,273.9	1.00	0.00	
12,600.0	90.00	1.98	7,500.0	5,373.9	1,093.4	5,373.9	1.00	0.00	
12,700.0	90.00	2.98	7,500.0	5,473.8	1,097.7	5,473.8	1.00	0.00	
12,806.4	90.00	4.05	7,500.0	5,580.0	1,104.2	5,580.0	1.00	0.00	EOT; 4.05° Az
12,900.0	90.00	4.05	7,500.0	5,673.3	1,110.8	5,673.3	0.00	0.00	
13,000.0	90.00	4.05	7,500.0	5,773.1	1,117.9	5,773.1	0.00	0.00	
13,100.0	90.00	4.05	7,500.0	5,872.8	1,124.9	5,872.8	0.00	0.00	
13,200.0	90.00	4.05	7,500.0	5,972.6	1,132.0	5,972.6	0.00	0.00	
13,300.0	90.00	4.05	7,500.0	6,072.3	1,139.0	6,072.3	0.00	0.00	
13,400.0	90.00	4.05	7,500.0	6,172.1	1,146.1	6,172.1	0.00	0.00	
13,500.0	90.00	4.05	7,500.0	6,271.8	1,153.1	6,271.8	0.00	0.00	
13,600.0	90.00	4.05	7,500.0	6,371.6	1,160.2	6,371.6	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2F-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	4.05	7,500.0	6,471.3	1,167.2	6,471.3	0.00	0.00	
13,800.0	90.00	4.05	7,500.0	6,571.1	1,174.3	6,571.1	0.00	0.00	
13,900.0	90.00	4.05	7,500.0	6,670.8	1,181.3	6,670.8	0.00	0.00	
14,000.0	90.00	4.05	7,500.0	6,770.6	1,188.4	6,770.6	0.00	0.00	
14,100.0	90.00	4.05	7,500.0	6,870.3	1,195.5	6,870.3	0.00	0.00	
14,200.0	90.00	4.05	7,500.0	6,970.1	1,202.5	6,970.1	0.00	0.00	
14,300.0	90.00	4.05	7,500.0	7,069.8	1,209.6	7,069.8	0.00	0.00	
14,335.9	90.00	4.05	7,500.0	7,105.6	1,212.1	7,105.6	0.00	0.00	TD at 14335.9

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Woolley-Becky 2F-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	7,105.6	1,212.1	1,274,628.90	3,126,224.08	40.086359	-105.048896
Woolley-Becky 2F-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	1,336.8	1,311.0	1,268,860.63	3,126,352.05	40.070523	-105.048544
Woolley-Becky 2F-7H-E - plan misses target center by 35.0ft at 14335.9ft MD (7500.0 TVD, 7105.6 N, 1212.1 E) - Point	0.00	0.00	7,535.0	7,106.0	1,211.0	1,274,629.26	3,126,222.96	40.086360	-105.048900

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
400.0	400.0	Fox Hills - BASE			
4,503.7	4,438.0	Sussex			
5,081.7	5,005.0	Shannon			
6,634.2	6,528.0	Teepee Buttes (*if present)			
7,480.2	7,320.0	Sharon Springs			
7,556.0	7,371.0	Niobrara			
7,828.5	7,487.0	B Chalk			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2F-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2F-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)	
300.0	300.0	0.0	0.0	KOP @ 300'
1,419.0	1,411.9	14.9	107.9	EOB; 11.19°
7,068.1	6,953.6	165.0	1,193.8	Start 10° Build/Turn
7,951.9	7,500.0	736.8	1,305.8	LP @ 7500' TVD; 90°
9,551.9	7,500.0	1,336.8	1,311.0	Start 1° Turn
10,201.9	7,500.0	2,336.8	1,319.7	EOT; 354° Az
11,801.9	7,500.0	2,985.7	1,288.6	Start 1° Turn
12,806.4	7,500.0	4,576.9	1,121.3	EOT; 4.05° Az
14,335.9	7,500.0	5,580.0	1,104.2	TD at 14335.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2F-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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	14,335.9	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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	11,029.4	7,470.0	333.3	252.9	4.143	CC, ES, SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,573.8	7,615.7	1,178.1	1,083.8	12.496	CC
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,600.0	7,616.6	1,178.4	1,083.7	12.439	ES
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,900.0	7,627.0	1,223.2	1,123.0	12.205	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,257.5	7,641.1	1,352.1	1,281.0	19.008	CC
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,300.0	7,642.0	1,352.8	1,280.9	18.824	ES
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,700.0	7,650.9	1,422.6	1,343.9	18.066	SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,569.8	7,462.7	106.1	16.4	1.183	Level 2, CC, ES, SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,090.3	7,610.5	517.6	405.9	4.635	CC
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,100.0	7,610.5	517.7	405.8	4.628	ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,486.2	7,665.8	780.0	709.6	11.076	CC
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,500.0	7,665.8	780.1	709.4	11.041	ES
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,600.0	7,665.9	788.0	715.9	10.928	SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,488.1	7,453.0	482.2	355.7	3.811	CC
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,500.0	7,453.0	482.4	355.6	3.806	ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	12,702.1	7,457.0	1,057.3	944.7	9.391	CC, ES
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	12,900.0	7,457.0	1,078.2	962.0	9.273	SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,032.0	7,448.0	1,152.1	1,016.1	8.468	CC, ES
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,200.0	7,448.0	1,164.3	1,025.3	8.377	SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	12,822.2	7,454.0	258.6	143.7	2.250	CC, ES, SF
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,584.4	7,571.5	844.1	711.2	6.349	CC
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,600.0	7,571.9	844.3	711.0	6.337	ES
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,700.0	7,574.0	852.0	717.0	6.312	SF
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	10,720.1	7,610.0	749.6	669.6	9.370	CC, ES
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	10,800.0	7,611.7	753.8	672.4	9.263	SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	8,747.2	8,123.8	1,045.2	998.3	22.285	CC
Morgan Hills 1A-7H-A168 - HZ - Plan #2	8,800.0	8,085.1	1,045.6	998.2	22.055	ES
Morgan Hills 1A-7H-A168 - HZ - Plan #2	9,500.0	7,661.4	1,139.6	1,083.2	20.226	SF
Morgan Hills 1B-7H-A168 - HZ - Plan #2	8,894.5	8,159.7	1,316.6	1,268.6	27.401	CC
Morgan Hills 1B-7H-A168 - HZ - Plan #2	9,000.0	8,067.2	1,317.3	1,267.9	26.684	ES
Morgan Hills 1B-7H-A168 - HZ - Plan #2	9,700.0	7,667.8	1,409.4	1,349.1	23.365	SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	300.0	388.0	194.9	193.8	165.446	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	8,900.0	7,588.0	2,129.9	2,082.8	45.257	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	8,823.8	7,559.4	198.6	152.8	4.337	CC, ES, SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,270.4	7,420.6	116.9	74.1	2.733	CC, ES, SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,392.5	4,678.2	238.8	200.6	6.250	CC
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,400.0	4,684.6	238.8	200.6	6.243	ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,385.4	7,628.6	364.6	306.2	6.242	CC, ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,400.0	7,629.0	364.9	306.2	6.221	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,040.6	7,557.9	648.4	614.6	19.192	CC, ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,200.0	7,542.1	667.5	631.5	18.529	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	200.0	200.0	50.1	49.4	76.751	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	14,335.9	14,682.3	1,781.5	1,529.7	7.077	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	300.0	300.0	40.0	39.0	39.952	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	14,335.9	14,422.4	1,390.2	1,135.8	5.463	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	300.0	300.0	29.9	28.9	29.895	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	14,335.9	14,584.3	1,051.7	804.0	4.246	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	300.0	300.0	20.2	19.2	20.118	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	14,335.9	14,455.0	700.1	444.4	2.738	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	300.0	300.0	10.1	9.1	10.064	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,335.9	14,696.1	424.4	211.6	1.995	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	233.4	233.4	9.8	9.0	12.735	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	300.0	299.9	10.0	9.0	9.993	ES

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	14,335.9	14,840.8	424.4	211.1	1.989	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	200.0	200.0	19.9	19.2	30.442	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	14,300.0	14,600.0	659.4	404.9	2.591	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	300.0	300.0	110.0	109.0	109.795	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	9,100.0	7,100.0	2,117.3	2,067.0	42.064	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	300.0	300.0	100.2	99.2	100.018	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	8,300.0	7,373.4	1,311.0	1,271.8	33.432	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	300.0	300.0	90.1	89.1	89.960	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	6,900.0	6,855.6	884.6	850.1	25.705	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	300.0	300.0	80.0	79.0	79.901	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	7,200.0	7,186.6	710.5	671.6	18.262	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	300.0	300.0	70.0	69.0	69.844	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	600.0	603.4	70.5	68.5	34.279	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	7,500.0	7,536.0	103.2	74.4	3.580	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	1,116.4	1,124.0	50.6	46.5	12.282	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	1,200.0	1,208.2	50.8	46.2	11.161	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	2,300.0	2,308.5	74.7	60.8	5.381	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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
0.0	0.0	0.0	0.0	0.0	0.0	14.46	3,648.3	940.8	3,767.7				
100.0	100.0	72.5	72.5	0.2	0.1	14.46	3,648.2	940.9	3,767.6	3,767.3	0.28	N/A	
171.8	171.8	140.8	140.8	0.3	0.2	14.46	3,648.1	941.1	3,767.5	3,767.0	0.52	7,204.946	
200.0	200.0	165.9	165.9	0.3	0.3	14.46	3,648.1	941.1	3,767.5	3,766.9	0.62	6,116.525	
300.0	300.0	261.9	261.9	0.5	0.5	14.46	3,648.4	940.6	3,767.7	3,766.7	0.96	3,932.412	
400.0	400.0	374.3	374.3	0.7	0.7	-67.71	3,648.8	939.3	3,767.5	3,766.1	1.33	2,830.996	
500.0	500.0	462.9	462.9	0.9	0.8	-67.77	3,649.1	937.8	3,766.4	3,764.7	1.67	2,261.563	
600.0	599.9	535.6	535.5	1.0	0.9	-67.85	3,649.8	936.5	3,765.2	3,763.2	1.98	1,903.679	
700.0	699.7	600.0	599.9	1.2	1.1	-67.93	3,650.9	935.6	3,764.3	3,762.0	2.28	1,647.477	
800.0	799.4	666.9	666.8	1.4	1.2	-68.03	3,652.7	934.7	3,763.5	3,760.9	2.61	1,442.100	
900.0	898.9	735.2	735.0	1.7	1.3	-68.16	3,655.2	933.6	3,763.1	3,760.2	2.95	1,274.420	
1,000.0	998.3	810.3	810.1	1.9	1.4	-68.31	3,658.5	932.2	3,762.8	3,759.5	3.33	1,131.119	
1,100.0	1,097.4	918.4	918.0	2.2	1.6	-68.57	3,663.6	929.8	3,762.0	3,758.3	3.78	994.931	
1,200.0	1,196.3	1,018.9	1,018.4	2.5	1.8	-68.84	3,668.2	927.5	3,760.6	3,756.4	4.24	886.118	
1,300.0	1,294.9	1,124.0	1,123.4	2.8	2.0	-69.16	3,672.7	925.6	3,758.4	3,753.7	4.74	793.358	
1,400.0	1,393.3	1,219.5	1,218.7	3.2	2.2	-69.47	3,676.8	924.0	3,755.8	3,750.5	5.24	716.933	
1,419.0	1,411.9	1,240.6	1,239.8	3.2	2.3	-69.54	3,677.7	923.7	3,755.2	3,749.9	5.34	703.119	
1,500.0	1,491.4	1,331.8	1,331.0	3.5	2.4	-69.82	3,681.4	922.2	3,752.6	3,746.8	5.78	649.001	
1,600.0	1,589.5	1,438.4	1,437.5	3.9	2.6	-70.16	3,685.4	920.4	3,749.2	3,742.9	6.32	592.985	
1,700.0	1,687.6	1,530.2	1,529.2	4.2	2.8	-70.46	3,688.9	918.5	3,745.9	3,739.1	6.84	547.559	
1,800.0	1,785.7	1,624.1	1,623.0	4.6	3.0	-70.75	3,692.5	917.1	3,742.9	3,735.5	7.36	508.258	
1,900.0	1,883.8	1,730.8	1,729.6	5.0	3.2	-71.08	3,696.4	916.1	3,739.8	3,731.9	7.91	472.585	
2,000.0	1,981.9	1,822.2	1,821.0	5.4	3.3	-71.36	3,699.7	915.0	3,736.9	3,728.5	8.44	442.862	
2,100.0	2,080.0	1,921.3	1,920.0	5.7	3.5	-71.66	3,703.4	914.4	3,734.3	3,725.3	8.98	416.007	
2,200.0	2,178.1	2,044.5	2,043.1	6.1	3.7	-72.02	3,707.3	914.4	3,731.2	3,721.7	9.56	390.387	
2,300.0	2,276.2	2,187.2	2,185.8	6.5	4.0	-72.43	3,710.6	914.6	3,727.6	3,717.4	10.18	366.333	
2,400.0	2,374.3	2,274.2	2,272.8	6.9	4.2	-72.68	3,712.0	914.7	3,723.4	3,712.7	10.70	348.104	
2,500.0	2,472.3	2,417.4	2,416.0	7.3	4.4	-73.08	3,713.9	915.4	3,719.0	3,707.7	11.32	328.640	
2,600.0	2,570.4	2,513.7	2,512.3	7.6	4.6	-73.35	3,714.4	916.1	3,714.0	3,702.1	11.86	313.284	
2,700.0	2,668.5	2,600.0	2,598.6	8.0	4.7	-73.60	3,715.2	916.4	3,709.3	3,697.0	12.38	299.640	
2,800.0	2,766.6	2,692.1	2,690.7	8.4	4.9	-73.87	3,716.4	916.2	3,705.0	3,692.1	12.92	286.860	
2,900.0	2,864.7	2,823.3	2,821.8	8.8	5.1	-74.26	3,717.6	915.2	3,700.4	3,686.9	13.53	273.555	
3,000.0	2,962.8	2,945.5	2,944.1	9.2	5.3	-74.65	3,717.7	913.3	3,695.0	3,680.9	14.12	261.608	
3,100.0	3,060.9	3,039.0	3,037.5	9.5	5.5	-74.94	3,717.6	911.9	3,689.5	3,674.8	14.67	251.518	
3,200.0	3,159.0	3,125.0	3,123.5	9.9	5.6	-75.21	3,717.7	911.0	3,684.4	3,669.2	15.20	242.398	
3,300.0	3,257.1	3,227.4	3,225.9	10.3	5.8	-75.52	3,717.9	909.8	3,679.5	3,663.7	15.76	233.433	
3,400.0	3,355.2	3,339.1	3,337.6	10.7	6.0	-75.88	3,718.0	908.2	3,674.5	3,658.2	16.34	224.823	
3,500.0	3,453.3	3,452.3	3,450.8	11.1	6.2	-76.23	3,717.5	906.5	3,669.1	3,652.1	16.93	216.737	
3,600.0	3,551.4	3,543.6	3,542.1	11.5	6.3	-76.52	3,716.9	905.4	3,663.7	3,646.2	17.47	209.678	
3,700.0	3,649.5	3,623.3	3,621.7	11.9	6.5	-76.77	3,716.7	904.5	3,658.7	3,640.7	18.00	203.298	
3,800.0	3,747.6	3,700.0	3,698.5	12.2	6.6	-77.01	3,717.0	903.3	3,654.5	3,636.0	18.52	197.363	
3,900.0	3,845.7	3,816.2	3,814.6	12.6	6.8	-77.40	3,717.6	900.8	3,650.4	3,631.3	19.11	190.989	
4,000.0	3,943.8	3,900.0	3,898.4	13.0	7.0	-77.68	3,717.9	898.9	3,646.4	3,626.7	19.65	185.579	
4,100.0	4,041.9	3,991.5	3,989.8	13.4	7.1	-77.99	3,718.5	896.7	3,642.7	3,622.5	20.20	180.327	
4,200.0	4,140.0	4,100.0	4,098.3	13.8	7.3	-78.36	3,719.2	893.7	3,639.0	3,618.3	20.79	175.079	
4,300.0	4,238.1	4,187.5	4,185.8	14.2	7.5	-78.66	3,719.7	891.3	3,635.5	3,614.2	21.33	170.438	
4,400.0	4,336.2	4,279.1	4,277.4	14.5	7.6	-78.97	3,720.4	889.2	3,632.4	3,610.5	21.88	166.000	
4,500.0	4,434.3	4,394.4	4,392.6	14.9	7.8	-79.34	3,721.2	887.5	3,629.3	3,606.8	22.48	161.468	
4,600.0	4,532.4	4,467.6	4,465.8	15.3	8.0	-79.58	3,721.7	886.4	3,626.3	3,603.3	22.99	157.703	
4,700.0	4,630.5	4,565.8	4,564.1	15.7	8.1	-79.90	3,722.9	884.7	3,623.9	3,600.4	23.56	153.826	
4,800.0	4,728.6	4,662.7	4,660.9	16.1	8.3	-80.22	3,723.8	883.3	3,621.4	3,597.3	24.12	150.141	
4,900.0	4,826.7	4,763.4	4,761.6	16.5	8.5	-80.54	3,725.0	881.9	3,619.2	3,594.5	24.69	146.592	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
5,000.0	4,924.8	4,849.0	4,847.2	16.9	8.6	-80.82	3,725.8	880.9	3,617.0	3,591.8	25.23	143.366	
5,100.0	5,022.9	4,929.9	4,928.1	17.2	8.8	-81.08	3,727.1	880.2	3,615.5	3,589.8	25.76	140.351	
5,200.0	5,121.0	5,027.7	5,025.9	17.6	9.0	-81.39	3,728.9	879.4	3,614.3	3,588.0	26.32	137.305	
5,300.0	5,219.1	5,124.5	5,122.6	18.0	9.1	-81.69	3,730.6	878.7	3,613.3	3,586.4	26.88	134.398	
5,400.0	5,317.2	5,225.4	5,223.5	18.4	9.3	-82.02	3,732.4	877.4	3,612.3	3,584.8	27.46	131.570	
5,500.0	5,415.3	5,330.3	5,328.3	18.8	9.5	-82.36	3,734.1	875.8	3,611.2	3,583.2	28.03	128.820	
5,600.0	5,513.4	5,427.5	5,425.5	19.2	9.7	-82.68	3,735.6	874.3	3,610.2	3,581.7	28.60	126.247	
5,700.0	5,611.5	5,520.2	5,518.2	19.6	9.8	-82.98	3,737.1	873.3	3,609.4	3,580.3	29.15	123.819	
5,800.0	5,709.6	5,608.9	5,606.9	19.9	10.0	-83.27	3,738.8	872.1	3,609.0	3,579.3	29.70	121.518	
5,900.0	5,807.7	5,721.7	5,719.7	20.3	10.2	-83.64	3,740.7	870.6	3,608.5	3,578.2	30.29	119.128	
6,000.0	5,905.8	5,809.3	5,807.3	20.7	10.3	-83.92	3,742.2	869.6	3,608.1	3,577.3	30.84	117.009	
6,086.0	5,990.2	5,890.4	5,888.3	21.0	10.5	-84.19	3,743.7	868.3	3,608.0	3,576.7	31.32	115.211	
6,100.0	6,003.9	5,903.5	5,901.4	21.1	10.5	-84.24	3,743.9	868.0	3,608.0	3,576.6	31.39	114.924	
6,200.0	6,102.0	5,996.3	5,994.2	21.5	10.7	-84.55	3,745.8	866.1	3,608.2	3,576.2	31.95	112.926	
6,300.0	6,200.1	6,086.0	6,083.9	21.9	10.8	-84.85	3,747.7	864.6	3,608.6	3,576.1	32.50	111.035	
6,400.0	6,298.2	6,220.6	6,218.4	22.3	11.1	-85.27	3,750.1	863.6	3,608.8	3,575.6	33.13	108.934	
6,445.8	6,343.1	6,258.0	6,255.8	22.4	11.2	-85.39	3,750.6	863.5	3,608.7	3,575.3	33.37	108.140	
6,500.0	6,396.3	6,300.0	6,297.8	22.6	11.2	-85.51	3,751.3	863.8	3,608.8	3,575.1	33.65	107.231	
6,600.0	6,494.4	6,377.1	6,374.9	23.0	11.4	-85.73	3,753.0	864.8	3,609.4	3,575.3	34.17	105.620	
6,700.0	6,592.5	6,485.8	6,483.5	23.4	11.5	-86.03	3,755.8	866.7	3,610.5	3,575.8	34.75	103.900	
6,800.0	6,690.6	6,561.8	6,559.5	23.8	11.7	-86.25	3,757.7	867.6	3,611.6	3,576.4	35.27	102.401	
6,900.0	6,788.7	6,661.9	6,659.6	24.2	11.9	-86.54	3,760.7	868.5	3,613.4	3,577.6	35.83	100.842	
7,000.0	6,886.8	6,754.7	6,752.4	24.6	12.0	-86.82	3,763.2	868.9	3,614.9	3,578.5	36.38	99.360	
7,068.1	6,953.6	6,809.7	6,807.3	24.8	12.1	-86.98	3,764.9	869.1	3,616.3	3,579.6	36.74	98.425	
7,100.0	6,984.9	6,846.1	6,843.7	25.0	12.2	-72.11	3,766.1	869.2	3,616.1	3,579.2	36.89	98.034	
7,150.0	7,033.5	6,906.6	6,904.2	25.2	12.3	-54.49	3,767.8	869.3	3,612.2	3,575.3	36.94	97.789	
7,200.0	7,081.4	7,014.2	7,011.7	25.4	12.5	-43.42	3,769.9	869.7	3,603.4	3,566.6	36.86	97.770	
7,250.0	7,128.3	7,070.4	7,068.0	25.6	12.6	-36.34	3,770.4	870.1	3,590.0	3,553.6	36.47	98.444	
7,300.0	7,173.7	7,117.7	7,115.2	25.8	12.7	-31.73	3,770.8	870.6	3,572.5	3,536.6	35.86	99.623	
7,350.0	7,217.2	7,154.8	7,152.4	26.1	12.7	-28.66	3,771.2	871.0	3,551.0	3,516.0	35.04	101.330	
7,400.0	7,258.7	7,190.2	7,187.8	26.3	12.8	-26.64	3,771.6	871.2	3,525.9	3,491.8	34.05	103.538	
7,450.0	7,297.7	7,236.4	7,233.9	26.6	12.9	-25.45	3,772.1	871.4	3,497.1	3,464.2	32.94	106.173	
7,500.0	7,334.0	7,284.0	7,281.5	26.9	13.0	-24.93	3,772.5	871.4	3,464.9	3,433.2	31.71	109.256	
7,550.0	7,367.2	7,318.8	7,316.3	27.2	13.0	-24.91	3,772.7	871.3	3,429.4	3,399.0	30.39	112.833	
7,600.0	7,397.2	7,345.7	7,343.2	27.5	13.1	-25.41	3,772.8	871.2	3,391.2	3,362.1	29.04	116.761	
7,650.0	7,423.7	7,369.6	7,367.1	27.8	13.1	-26.54	3,773.0	871.1	3,350.3	3,322.6	27.75	120.732	
7,700.0	7,446.5	7,390.2	7,387.7	28.2	13.1	-28.47	3,773.1	871.0	3,307.3	3,280.6	26.62	124.218	
7,750.0	7,465.4	7,407.9	7,405.5	28.6	13.2	-31.58	3,773.3	870.9	3,262.3	3,236.4	25.84	126.252	
7,800.0	7,480.4	7,422.5	7,420.1	29.0	13.2	-36.57	3,773.4	870.8	3,215.7	3,190.0	25.67	125.257	
7,850.0	7,491.1	7,433.2	7,430.7	29.3	13.2	-44.88	3,773.5	870.8	3,167.8	3,141.2	26.58	119.174	
7,900.0	7,497.7	7,439.9	7,437.4	29.8	13.2	-59.58	3,773.6	870.7	3,119.1	3,089.9	29.13	107.070	
7,951.9	7,500.0	7,442.5	7,440.1	30.2	13.2	-86.41	3,773.6	870.7	3,067.9	3,035.5	32.41	94.658	
8,000.0	7,500.0	7,442.9	7,440.5	30.6	13.2	-86.46	3,773.6	870.7	3,020.4	2,987.3	33.07	91.339	
8,100.0	7,500.0	7,443.8	7,441.3	31.5	13.2	-86.56	3,773.6	870.7	2,921.6	2,887.1	34.48	84.743	
8,200.0	7,500.0	7,444.6	7,442.1	32.5	13.2	-86.67	3,773.6	870.7	2,822.9	2,787.0	35.93	78.561	
8,300.0	7,500.0	7,445.4	7,443.0	33.6	13.2	-86.77	3,773.6	870.7	2,724.3	2,686.9	37.43	72.785	
8,400.0	7,500.0	7,446.3	7,443.8	34.7	13.2	-86.88	3,773.6	870.7	2,625.8	2,586.8	38.96	67.400	
8,500.0	7,500.0	7,447.1	7,444.7	35.9	13.2	-86.98	3,773.6	870.7	2,527.4	2,486.9	40.52	62.382	
8,551.9	7,500.0	7,447.6	7,445.1	36.5	13.2	-87.04	3,773.6	870.7	2,476.4	2,435.1	41.33	59.915	
8,600.0	7,500.0	7,448.0	7,445.5	37.1	13.2	-87.09	3,773.6	870.7	2,429.2	2,387.1	42.09	57.707	
8,700.0	7,500.0	7,448.8	7,446.4	38.3	13.2	-87.19	3,773.6	870.7	2,331.1	2,287.4	43.69	53.350	
8,800.0	7,500.0	7,449.7	7,447.2	39.6	13.2	-87.30	3,773.6	870.7	2,233.1	2,187.8	45.31	49.286	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
8,900.0	7,500.0	7,450.5	7,448.1	40.9	13.2	-87.40	3,773.7	870.7	2,135.4	2,088.5	46.94	45.492		
9,000.0	7,500.0	7,451.4	7,448.9	42.3	13.2	-87.51	3,773.7	870.7	2,037.9	1,989.3	48.58	41.947		
9,100.0	7,500.0	7,452.3	7,449.8	43.7	13.2	-87.62	3,773.7	870.7	1,940.6	1,890.4	50.24	38.631		
9,200.0	7,500.0	7,453.1	7,450.6	45.1	13.2	-87.72	3,773.7	870.7	1,843.7	1,791.8	51.90	35.525		
9,300.0	7,500.0	7,454.0	7,451.5	46.5	13.3	-87.83	3,773.7	870.7	1,747.0	1,693.5	53.57	32.613		
9,400.0	7,500.0	7,454.9	7,452.4	48.0	13.3	-87.94	3,773.7	870.7	1,650.8	1,595.5	55.25	29.881		
9,500.0	7,500.0	7,455.7	7,453.3	49.5	13.3	-88.05	3,773.7	870.7	1,555.0	1,498.1	56.93	27.315		
9,551.9	7,500.0	7,456.2	7,453.7	50.2	13.3	-88.10	3,773.7	870.7	1,505.6	1,447.8	57.81	26.045		
9,600.0	7,500.0	7,456.6	7,454.1	51.0	13.3	-88.11	3,773.7	870.6	1,459.8	1,401.4	58.44	24.981		
9,700.0	7,500.0	7,457.5	7,455.0	52.4	13.3	-88.12	3,773.7	870.6	1,364.7	1,305.0	59.74	22.843		
9,800.0	7,500.0	7,458.4	7,455.9	53.9	13.3	-88.15	3,773.7	870.6	1,269.8	1,208.8	61.04	20.802		
9,900.0	7,500.0	7,459.3	7,456.8	55.4	13.3	-88.18	3,773.7	870.6	1,175.2	1,112.9	62.33	18.853		
10,000.0	7,500.0	7,460.2	7,457.7	56.9	13.3	-88.24	3,773.7	870.6	1,080.9	1,017.3	63.61	16.991		
10,100.0	7,500.0	7,461.2	7,458.7	58.4	13.3	-88.30	3,773.7	870.6	987.0	922.2	64.88	15.213		
10,201.9	7,500.0	7,462.1	7,459.6	60.0	13.3	-88.39	3,773.8	870.6	892.1	825.9	66.17	13.483		
10,300.0	7,500.0	7,463.0	7,460.6	61.5	13.3	-88.55	3,773.8	870.6	802.0	734.1	67.85	11.819		
10,400.0	7,500.0	7,464.0	7,461.5	63.0	13.3	-88.71	3,773.8	870.6	712.2	642.6	69.57	10.237		
10,500.0	7,500.0	7,464.9	7,462.5	64.5	13.3	-88.88	3,773.8	870.6	625.6	554.3	71.30	8.774		
10,600.0	7,500.0	7,465.9	7,463.4	66.1	13.3	-89.04	3,773.8	870.6	543.6	470.6	73.02	7.444		
10,700.0	7,500.0	7,466.9	7,464.4	67.7	13.3	-89.21	3,773.8	870.6	468.6	393.9	74.75	6.269		
10,800.0	7,500.0	7,467.8	7,465.3	69.2	13.3	-89.37	3,773.8	870.6	404.6	328.2	76.48	5.291		
10,900.0	7,500.0	7,468.8	7,466.3	70.8	13.3	-89.54	3,773.8	870.6	357.6	279.3	78.21	4.572		
11,000.0	7,500.0	7,469.8	7,467.3	72.4	13.3	-89.70	3,773.8	870.6	334.6	254.7	79.95	4.185		
11,029.4	7,500.0	7,470.0	7,467.6	72.9	13.3	-89.75	3,773.8	870.6	333.3	252.9	80.46	4.143	CC, ES, SF	
11,100.0	7,500.0	7,470.7	7,468.3	74.0	13.3	-89.87	3,773.8	870.6	340.7	259.0	81.68	4.171		
11,200.0	7,500.0	7,471.7	7,469.2	75.6	13.3	-90.04	3,773.8	870.6	374.4	291.0	83.42	4.489		
11,300.0	7,500.0	7,472.7	7,470.2	77.2	13.3	-90.21	3,773.9	870.6	429.3	344.1	85.15	5.042		
11,400.0	7,500.0	7,473.7	7,471.2	78.8	13.3	-90.38	3,773.9	870.6	498.4	411.5	86.89	5.736		
11,500.0	7,500.0	7,474.6	7,472.2	80.5	13.3	-90.54	3,773.9	870.6	576.6	488.0	88.62	6.506		
11,600.0	7,500.0	7,475.6	7,473.2	82.1	13.3	-90.71	3,773.9	870.5	660.8	570.4	90.36	7.312		
11,700.0	7,500.0	7,476.6	7,474.1	83.7	13.3	-90.88	3,773.9	870.5	748.8	656.7	92.10	8.130		
11,801.9	7,500.0	7,477.6	7,475.2	85.4	13.3	-91.06	3,773.9	870.5	841.3	747.4	93.87	8.962		
11,900.0	7,500.0	7,478.6	7,476.1	87.0	13.3	-91.28	3,773.9	870.5	932.4	836.4	96.03	9.710		
12,000.0	7,500.0	7,479.6	7,477.1	88.7	13.3	-91.53	3,773.9	870.5	1,027.2	929.0	98.20	10.461		
12,100.0	7,500.0	7,480.6	7,478.1	90.4	13.3	-91.83	3,773.9	870.5	1,123.4	1,023.1	100.34	11.196		
12,200.0	7,500.0	7,481.6	7,479.1	92.0	13.3	-92.18	3,773.9	870.5	1,220.6	1,118.1	102.45	11.914		
12,300.0	7,500.0	7,482.5	7,480.0	93.7	13.3	-92.60	3,773.9	870.5	1,318.5	1,214.0	104.52	12.615		
12,400.0	7,500.0	7,483.5	7,481.0	95.4	13.3	-93.12	3,774.0	870.5	1,417.1	1,310.5	106.55	13.300		
12,500.0	7,500.0	7,484.4	7,482.0	97.1	13.3	-93.81	3,774.0	870.5	1,516.1	1,407.6	108.53	13.970		
12,600.0	7,500.0	7,485.4	7,482.9	98.9	13.3	-94.75	3,774.0	870.5	1,615.4	1,505.0	110.42	14.629		
12,700.0	7,500.0	7,486.3	7,483.9	100.6	13.3	-96.13	3,774.0	870.5	1,715.0	1,602.8	112.18	15.287		
12,806.4	7,500.0	7,487.3	7,484.9	102.4	13.3	-98.53	3,774.0	870.5	1,821.1	1,707.4	113.70	16.017		
12,900.0	7,500.0	7,488.2	7,485.7	104.0	13.3	-98.99	3,774.0	870.5	1,914.6	1,799.4	115.18	16.622		
13,000.0	7,500.0	7,489.2	7,486.7	105.8	13.3	-99.49	3,774.0	870.5	2,014.4	1,897.6	116.76	17.253		
13,100.0	7,500.0	7,490.1	7,487.6	107.5	13.3	-99.98	3,774.0	870.5	2,114.3	1,995.9	118.32	17.869		
13,200.0	7,500.0	7,491.0	7,488.6	109.2	13.3	-100.48	3,774.0	870.5	2,214.1	2,094.3	119.87	18.471		
13,300.0	7,500.0	7,492.0	7,489.5	111.0	13.3	-100.98	3,774.0	870.5	2,314.0	2,192.6	121.40	19.061		
13,400.0	7,500.0	7,492.9	7,490.5	112.7	13.3	-101.47	3,774.0	870.5	2,413.9	2,291.0	122.92	19.638		
13,500.0	7,500.0	7,493.9	7,491.4	114.5	13.3	-101.97	3,774.1	870.5	2,513.8	2,389.4	124.43	20.203		
13,600.0	7,500.0	7,494.9	7,492.4	116.2	13.3	-102.46	3,774.1	870.4	2,613.7	2,487.8	125.92	20.757		
13,700.0	7,500.0	7,495.8	7,493.3	117.9	13.3	-102.96	3,774.1	870.4	2,713.7	2,586.3	127.40	21.300		
13,800.0	7,500.0	7,496.8	7,494.3	119.7	13.3	-103.45	3,774.1	870.4	2,813.6	2,684.7	128.86	21.834		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
13,900.0	7,500.0	7,497.8	7,495.3	121.4	13.3	-103.95	3,774.1	870.4	2,913.5	2,783.2	130.31	22.358						
14,000.0	7,500.0	7,498.7	7,496.2	123.1	13.3	-104.44	3,774.1	870.4	3,013.4	2,881.7	131.74	22.874						
14,100.0	7,500.0	7,499.7	7,497.2	124.9	13.3	-104.93	3,774.1	870.4	3,113.4	2,980.2	133.16	23.381						
14,200.0	7,500.0	7,500.7	7,498.3	126.6	13.3	-105.46	3,774.1	870.4	3,213.3	3,078.8	134.54	23.885						
14,300.0	7,500.0	7,501.8	7,499.4	128.4	13.3	-106.01	3,774.1	870.4	3,313.3	3,177.4	135.88	24.383						
14,335.9	7,500.0	7,502.2	7,499.7	129.0	13.3	-106.20	3,774.1	870.4	3,349.1	3,212.8	136.36	24.560						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 765-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	14.77	3,670.8	967.7	3,796.3					
100.0	100.0	85.0	85.0	0.2	0.1	14.77	3,670.8	967.7	3,796.2	3,795.9	0.30	N/A		
200.0	200.0	185.0	185.0	0.3	0.3	14.77	3,670.8	967.7	3,796.2	3,795.6	0.64	5,908.305		
300.0	300.0	285.0	285.0	0.5	0.5	14.77	3,670.8	967.7	3,796.2	3,795.3	0.99	3,842.576		
400.0	400.0	385.0	385.0	0.7	0.7	-67.38	3,670.8	967.7	3,795.9	3,794.6	1.33	2,845.688		
500.0	500.0	485.0	485.0	0.9	0.8	-67.42	3,670.8	967.7	3,794.9	3,793.2	1.68	2,255.111		
600.0	599.9	584.9	584.9	1.0	1.0	-67.50	3,670.8	967.7	3,793.2	3,791.2	2.04	1,861.635		
700.0	699.7	684.7	684.7	1.2	1.2	-67.60	3,670.8	967.7	3,790.9	3,788.5	2.40	1,578.670		
800.0	799.4	780.5	780.5	1.4	1.3	-67.74	3,670.9	967.7	3,787.9	3,785.1	2.77	1,367.046		
900.0	898.9	873.8	873.8	1.7	1.5	-67.90	3,671.2	967.3	3,784.5	3,781.3	3.15	1,199.846		
1,000.0	998.3	978.7	978.7	1.9	1.7	-68.12	3,671.3	966.6	3,780.2	3,776.6	3.58	1,057.255		
1,100.0	1,097.4	1,034.7	1,034.7	2.2	1.8	-68.27	3,671.9	965.7	3,776.0	3,772.1	3.93	960.401		
1,200.0	1,196.3	1,074.0	1,074.0	2.5	1.8	-68.41	3,672.9	964.5	3,772.5	3,768.2	4.28	881.282		
1,300.0	1,294.9	1,137.0	1,136.8	2.8	2.0	-68.63	3,675.7	961.7	3,769.7	3,765.0	4.70	802.363		
1,400.0	1,393.3	1,233.6	1,233.0	3.2	2.2	-69.03	3,681.5	954.7	3,767.2	3,762.0	5.21	722.378		
1,419.0	1,411.9	1,263.0	1,262.2	3.2	2.2	-69.16	3,683.2	952.0	3,766.6	3,761.2	5.34	705.543		
1,500.0	1,491.4	1,325.0	1,323.8	3.5	2.3	-69.44	3,687.1	945.5	3,764.1	3,758.3	5.75	654.864		
1,600.0	1,589.5	1,408.1	1,406.1	3.9	2.5	-69.83	3,693.1	935.3	3,761.7	3,755.4	6.29	598.003		
1,700.0	1,687.6	1,511.0	1,507.6	4.2	2.8	-70.36	3,700.7	920.7	3,759.4	3,752.4	6.91	544.212		
1,800.0	1,785.7	1,599.1	1,594.4	4.6	3.1	-70.82	3,707.2	907.3	3,757.2	3,749.7	7.51	500.562		
1,900.0	1,883.8	1,659.9	1,654.3	5.0	3.2	-71.13	3,712.2	898.3	3,756.2	3,748.1	8.04	467.386		
2,000.0	1,981.9	1,749.3	1,742.3	5.4	3.5	-71.61	3,720.0	884.2	3,755.7	3,747.0	8.67	433.128		
2,017.3	1,998.9	1,762.0	1,754.7	5.4	3.6	-71.68	3,721.1	882.0	3,755.7	3,746.9	8.77	428.043		
2,100.0	2,080.0	1,824.0	1,815.5	5.7	3.8	-72.02	3,726.9	871.2	3,755.9	3,746.7	9.28	404.866		
2,200.0	2,178.1	1,887.0	1,877.1	6.1	4.0	-72.38	3,733.3	859.9	3,757.2	3,747.3	9.85	381.263		
2,300.0	2,276.2	1,950.0	1,938.7	6.5	4.2	-72.74	3,740.3	848.5	3,759.7	3,749.2	10.44	360.134		
2,400.0	2,374.3	2,039.4	2,026.0	6.9	4.6	-73.26	3,750.4	832.0	3,762.6	3,751.5	11.13	338.082		
2,500.0	2,472.3	2,100.5	2,085.4	7.3	4.8	-73.62	3,757.8	819.8	3,766.6	3,754.9	11.73	321.010		
2,600.0	2,570.4	2,182.5	2,164.9	7.6	5.2	-74.12	3,768.2	802.7	3,771.5	3,759.0	12.42	303.593		
2,700.0	2,668.5	2,377.4	2,353.8	8.0	6.0	-75.34	3,790.5	760.2	3,775.5	3,761.9	13.60	277.533		
2,800.0	2,766.6	2,443.0	2,417.3	8.4	6.3	-75.75	3,797.6	745.3	3,779.2	3,764.9	14.25	265.200		
2,900.0	2,864.7	2,507.0	2,479.3	8.8	6.6	-76.15	3,804.9	731.2	3,784.1	3,769.2	14.89	254.125		
3,000.0	2,962.8	2,570.0	2,540.3	9.2	6.9	-76.54	3,812.4	717.5	3,789.9	3,774.4	15.53	244.115		
3,100.0	3,060.9	2,632.0	2,600.3	9.5	7.2	-76.92	3,820.3	704.1	3,796.9	3,780.7	16.16	235.011		
3,200.0	3,159.0	2,774.6	2,738.6	9.9	7.8	-77.78	3,837.8	674.1	3,803.8	3,786.7	17.10	222.403		
3,300.0	3,257.1	2,830.8	2,793.2	10.3	8.0	-78.11	3,844.6	662.7	3,811.2	3,793.5	17.70	215.335		
3,400.0	3,355.2	2,906.4	2,866.7	10.7	8.4	-78.55	3,854.3	647.8	3,819.6	3,801.2	18.37	207.977		
3,500.0	3,453.3	2,985.6	2,943.7	11.1	8.7	-79.01	3,864.7	632.3	3,828.6	3,809.5	19.04	201.079		
3,600.0	3,551.4	3,071.0	3,026.8	11.5	9.1	-79.49	3,876.1	616.2	3,838.3	3,818.5	19.73	194.511		
3,700.0	3,649.5	3,251.6	3,202.5	11.9	9.9	-80.52	3,899.2	581.8	3,848.2	3,827.4	20.77	185.269		
3,800.0	3,747.6	3,361.1	3,309.3	12.2	10.3	-81.14	3,910.6	560.4	3,855.7	3,834.1	21.56	178.861		
3,900.0	3,845.7	3,416.3	3,363.1	12.6	10.6	-81.45	3,916.8	549.6	3,864.5	3,842.4	22.13	174.631		
4,000.0	3,943.8	3,519.6	3,464.1	13.0	11.0	-82.01	3,929.0	531.4	3,874.1	3,851.3	22.85	169.534		
4,100.0	4,041.9	3,612.5	3,555.0	13.4	11.3	-82.50	3,939.7	515.8	3,883.8	3,860.3	23.52	165.098		
4,200.0	4,140.0	3,852.2	3,790.8	13.8	12.2	-83.68	3,963.6	479.7	3,892.5	3,867.9	24.60	158.214		
4,300.0	4,238.1	3,909.2	3,846.8	14.2	12.4	-83.98	3,968.1	470.2	3,899.5	3,874.4	25.16	154.964		
4,400.0	4,336.2	3,944.0	3,880.9	14.5	12.5	-84.16	3,971.3	464.3	3,908.1	3,882.5	25.65	152.341		
4,500.0	4,434.3	3,986.5	3,922.6	14.9	12.7	-84.38	3,975.9	457.1	3,918.4	3,892.2	26.17	149.742		
4,600.0	4,532.4	4,037.4	3,972.3	15.3	12.9	-84.65	3,982.1	448.2	3,930.1	3,903.3	26.72	147.077		
4,700.0	4,630.5	4,103.0	4,036.0	15.7	13.2	-85.01	3,990.4	435.0	3,942.9	3,915.6	27.34	144.228		
4,800.0	4,728.6	4,335.5	4,261.5	16.1	14.3	-86.34	4,016.4	384.9	3,955.3	3,926.7	28.56	138.507		
4,900.0	4,826.7	4,525.4	4,446.5	16.5	15.1	-87.41	4,032.6	345.0	3,965.7	3,936.1	29.60	133.996		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU											Offset Site Error:		0.0 ft
Survey Program: 765-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	
5,000.0	4,924.8	4,629.0	4,547.3	16.9	15.6	-88.01	4,039.0	322.3	3,974.0	3,943.6	30.35	130.953	
5,100.0	5,022.9	4,691.0	4,607.8	17.2	15.8	-88.35	4,043.0	309.4	3,982.9	3,951.9	30.93	128.773	
5,200.0	5,121.0	4,752.0	4,667.5	17.6	16.1	-88.68	4,047.6	297.6	3,992.9	3,961.4	31.50	126.760	
5,300.0	5,219.1	4,796.3	4,710.9	18.0	16.2	-88.91	4,051.7	289.3	4,004.5	3,972.5	32.01	125.087	
5,400.0	5,317.2	4,838.4	4,752.0	18.4	16.4	-89.13	4,056.0	281.6	4,017.4	3,984.8	32.52	123.546	
5,500.0	5,415.3	4,876.0	4,788.7	18.8	16.6	-89.32	4,060.4	274.9	4,031.8	3,998.8	33.01	122.156	
5,600.0	5,513.4	4,939.0	4,850.2	19.2	16.8	-89.63	4,068.6	263.8	4,047.7	4,014.1	33.56	120.612	
5,700.0	5,611.5	5,001.0	4,910.6	19.6	17.1	-89.93	4,077.0	252.8	4,064.4	4,030.3	34.11	119.142	
5,800.0	5,709.6	5,092.1	4,999.4	19.9	17.5	-90.38	4,089.8	236.9	4,081.8	4,047.1	34.73	117.532	
5,900.0	5,807.7	5,172.5	5,077.9	20.3	17.8	-90.75	4,101.3	223.8	4,099.5	4,064.2	35.30	116.118	
6,000.0	5,905.8	5,266.8	5,162.0	20.7	19.7	-93.10	4,151.5	139.7	4,116.7	4,079.8	36.91	111.533	
6,100.0	6,003.9	5,321.0	5,165.4	21.1	19.9	-93.36	4,154.2	130.5	4,126.5	4,089.1	37.43	110.258	
6,200.0	6,102.0	5,371.0	5,162.9	21.5	20.5	-94.09	4,161.0	104.0	4,136.4	4,098.2	38.19	108.300	
6,300.0	6,200.1	5,426.0	5,268.8	21.9	20.7	-94.41	4,163.8	92.5	4,146.3	4,107.6	38.73	107.046	
6,400.0	6,298.2	5,498.0	5,387.8	22.3	20.9	-94.70	4,167.2	82.1	4,157.3	4,118.0	39.26	105.900	
6,500.0	6,396.3	5,566.0	5,448.9	22.6	21.1	-94.99	4,171.0	72.1	4,169.0	4,129.3	39.77	104.816	
6,600.0	6,494.4	5,633.0	5,510.9	23.0	21.3	-95.27	4,175.5	62.1	4,181.9	4,141.6	40.29	103.791	
6,700.0	6,592.5	5,704.3	5,580.3	23.4	21.8	-95.89	4,185.7	41.3	4,194.9	4,153.9	40.94	102.466	
6,800.0	6,690.6	5,784.4	5,659.4	23.8	22.1	-96.25	4,192.2	29.9	4,207.5	4,166.0	41.47	101.449	
6,900.0	6,788.7	5,862.4	5,731.9	24.2	22.6	-96.92	4,204.0	10.3	4,219.6	4,177.5	42.11	100.208	
7,000.0	6,886.8	5,946.4	5,818.4	24.6	23.4	-98.41	4,217.3	-20.3	4,228.3	4,185.3	42.96	98.413	
7,068.1	6,953.6	6,016.8	5,898.9	24.8	23.5	-98.56	4,217.3	-21.5	4,230.7	4,187.5	43.26	97.803	
7,100.0	6,984.9	6,035.6	5,917.7	25.0	23.5	-83.62	4,217.4	-21.8	4,231.2	4,187.9	43.29	97.744	
7,150.0	7,033.5	6,085.0	5,967.0	25.2	23.5	-65.93	4,217.7	-22.2	4,228.7	4,185.6	43.10	98.121	
7,200.0	7,081.4	6,097.7	5,979.7	25.4	23.6	-54.72	4,218.2	-22.7	4,222.2	4,179.6	42.61	99.078	
7,250.0	7,128.3	6,133.8	6,015.8	25.6	23.6	-47.74	4,218.9	-23.1	4,211.9	4,170.0	41.86	100.620	
7,300.0	7,173.7	6,230.6	6,112.6	25.8	23.7	-43.64	4,220.2	-24.5	4,197.3	4,156.5	40.88	102.683	
7,350.0	7,217.2	6,279.8	6,161.8	26.1	23.8	-41.03	4,220.5	-25.0	4,178.6	4,138.9	39.64	105.411	
7,400.0	7,258.7	6,317.0	6,199.0	26.3	23.8	-39.53	4,220.9	-25.3	4,156.2	4,118.0	38.21	108.773	
7,450.0	7,297.7	6,344.6	6,226.6	26.6	23.8	-38.88	4,221.2	-25.4	4,130.4	4,093.8	36.64	112.733	
7,500.0	7,334.0	6,380.0	6,262.0	26.9	23.9	-39.04	4,221.7	-25.6	4,101.4	4,066.4	35.01	117.153	
7,550.0	7,367.2	6,400.5	6,282.5	27.2	23.9	-39.81	4,222.0	-25.7	4,069.3	4,035.9	33.40	121.831	
7,600.0	7,397.2	6,424.4	6,306.4	27.5	23.9	-41.33	4,222.4	-25.9	4,034.5	4,002.5	31.96	126.237	
7,650.0	7,423.7	6,445.7	6,327.6	27.8	24.0	-43.64	4,222.8	-26.0	3,997.1	3,966.2	30.84	129.609	
7,700.0	7,446.5	6,464.2	6,346.1	28.2	24.0	-46.89	4,223.2	-26.1	3,957.5	3,927.2	30.22	130.960	
7,750.0	7,465.4	6,479.7	6,361.7	28.6	24.0	-51.27	4,223.5	-26.2	3,915.9	3,885.6	30.25	129.452	
7,800.0	7,480.4	6,505.0	6,387.0	29.0	24.0	-57.40	4,224.0	-26.4	3,872.6	3,841.5	31.08	124.609	
7,850.0	7,491.1	6,505.0	6,387.0	29.3	24.0	-64.73	4,224.0	-26.4	3,828.0	3,795.6	32.40	118.135	
7,900.0	7,497.7	6,508.4	6,390.3	29.8	24.0	-74.19	4,224.1	-26.4	3,782.4	3,748.3	34.07	111.017	
7,951.9	7,500.0	6,511.9	6,393.8	30.2	24.0	-86.17	4,224.2	-26.5	3,734.3	3,698.8	35.50	105.180	
8,000.0	7,500.0	6,513.0	6,395.0	30.6	24.0	-86.22	4,224.2	-26.5	3,689.6	3,653.4	36.16	102.029	
8,100.0	7,500.0	6,515.4	6,397.3	31.5	24.0	-86.32	4,224.3	-26.5	3,596.9	3,559.3	37.57	95.733	
8,200.0	7,500.0	6,517.8	6,399.7	32.5	24.1	-86.42	4,224.3	-26.5	3,504.6	3,465.5	39.03	89.792	
8,300.0	7,500.0	6,520.2	6,402.2	33.6	24.1	-86.52	4,224.4	-26.5	3,412.7	3,372.2	40.53	84.206	
8,400.0	7,500.0	6,522.7	6,404.6	34.7	24.1	-86.62	4,224.5	-26.5	3,321.3	3,279.2	42.06	78.967	
8,500.0	7,500.0	6,525.1	6,407.1	35.9	24.1	-86.73	4,224.5	-26.6	3,230.4	3,186.8	43.62	74.062	
8,551.9	7,500.0	6,526.4	6,408.4	36.5	24.1	-86.78	4,224.6	-26.6	3,183.4	3,139.0	44.44	71.642	
8,600.0	7,500.0	6,527.6	6,409.6	37.1	24.1	-86.83	4,224.6	-26.6	3,140.0	3,094.8	45.20	69.472	
8,700.0	7,500.0	6,530.2	6,412.1	38.3	24.1	-86.94	4,224.6	-26.6	3,050.3	3,003.5	46.80	65.177	
8,800.0	7,500.0	6,532.7	6,414.7	39.6	24.1	-87.05	4,224.7	-26.6	2,961.2	2,912.8	48.42	61.160	
8,900.0	7,500.0	6,535.3	6,417.3	40.9	24.1	-87.16	4,224.8	-26.6	2,872.8	2,822.7	50.05	57.399	
9,000.0	7,500.0	6,538.0	6,419.9	42.3	24.1	-87.27	4,224.8	-26.6	2,785.2	2,733.5	51.69	53.879	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-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	7,540.6	7,422.6	43.7	24.1	-87.38	4,224.9	-26.6	2,698.5	2,645.1	53.35	50.582	
9,200.0	7,500.0	7,543.3	7,425.3	45.1	24.1	-87.49	4,225.0	-26.6	2,612.7	2,557.6	55.01	47.492	
9,300.0	7,500.0	7,546.0	7,428.0	46.5	24.1	-87.60	4,225.0	-26.6	2,527.9	2,471.2	56.69	44.596	
9,400.0	7,500.0	7,548.8	7,430.7	48.0	24.1	-87.72	4,225.1	-26.6	2,444.3	2,385.9	58.36	41.880	
9,500.0	7,500.0	7,551.6	7,433.5	49.5	24.1	-87.84	4,225.2	-26.6	2,362.0	2,301.9	60.05	39.333	
9,551.9	7,500.0	7,553.0	7,435.0	50.2	24.1	-87.90	4,225.2	-26.6	2,319.8	2,258.9	60.93	38.074	
9,600.0	7,500.0	7,554.4	7,436.3	51.0	24.1	-87.93	4,225.2	-26.6	2,280.9	2,219.3	61.65	36.999	
9,700.0	7,500.0	7,557.2	7,439.2	52.4	24.1	-88.00	4,225.3	-26.6	2,200.5	2,137.4	63.14	34.850	
9,800.0	7,500.0	7,560.1	7,442.1	53.9	24.1	-88.09	4,225.4	-26.6	2,120.7	2,056.1	64.63	32.813	
9,900.0	7,500.0	7,563.0	7,445.0	55.4	24.1	-88.18	4,225.5	-26.6	2,041.6	1,975.5	66.11	30.882	
10,000.0	7,500.0	7,566.0	7,447.9	56.9	24.1	-88.27	4,225.6	-26.6	1,963.2	1,895.6	67.58	29.050	
10,100.0	7,500.0	7,568.9	7,450.9	58.4	24.1	-88.38	4,225.6	-26.6	1,885.7	1,816.7	69.04	27.314	
10,201.9	7,500.0	7,572.0	7,453.9	60.0	24.1	-88.49	4,225.7	-26.6	1,807.9	1,737.4	70.52	25.637	
10,300.0	7,500.0	7,574.9	7,456.9	61.5	24.1	-88.63	4,225.8	-26.6	1,734.7	1,662.5	72.20	24.024	
10,400.0	7,500.0	7,578.0	7,459.9	63.0	24.1	-88.78	4,225.9	-26.6	1,662.7	1,588.8	73.93	22.491	
10,500.0	7,500.0	7,581.0	7,463.0	64.5	24.1	-88.93	4,226.0	-26.6	1,593.7	1,518.1	75.65	21.067	
10,600.0	7,500.0	7,584.1	7,466.1	66.1	24.1	-89.08	4,226.0	-26.6	1,528.2	1,450.8	77.38	19.750	
10,700.0	7,500.0	7,587.3	7,469.2	67.7	24.1	-89.23	4,226.1	-26.6	1,466.6	1,387.5	79.11	18.539	
10,800.0	7,500.0	7,590.4	7,472.3	69.2	24.1	-89.38	4,226.2	-26.6	1,409.3	1,328.5	80.84	17.434	
10,900.0	7,500.0	7,593.6	7,475.5	70.8	24.1	-89.54	4,226.3	-26.6	1,357.0	1,274.5	82.57	16.435	
11,000.0	7,500.0	7,596.8	7,478.7	72.4	24.1	-89.69	4,226.4	-26.6	1,310.3	1,226.0	84.31	15.542	
11,100.0	7,500.0	7,600.0	7,481.9	74.0	24.1	-89.85	4,226.5	-26.5	1,269.7	1,183.7	86.04	14.757	
11,200.0	7,500.0	7,603.3	7,485.2	75.6	24.1	-90.01	4,226.6	-26.5	1,235.9	1,148.2	87.78	14.080	
11,300.0	7,500.0	7,606.6	7,488.5	77.2	24.1	-90.17	4,226.7	-26.5	1,209.5	1,120.0	89.52	13.511	
11,400.0	7,500.0	7,609.9	7,491.8	78.8	24.1	-90.33	4,226.8	-26.5	1,190.9	1,099.6	91.25	13.050	
11,500.0	7,500.0	7,613.2	7,495.2	80.5	24.2	-90.49	4,226.9	-26.5	1,180.4	1,087.4	92.99	12.694	
11,573.8	7,500.0	7,615.7	7,497.6	81.7	24.2	-90.61	4,226.9	-26.4	1,178.1	1,083.8	94.28	12.496 CC	
11,600.0	7,500.0	7,616.6	7,498.5	82.1	24.2	-90.66	4,227.0	-26.4	1,178.4	1,083.7	94.73	12.439 ES	
11,700.0	7,500.0	7,620.0	7,502.0	83.7	24.2	-90.82	4,227.1	-26.4	1,184.8	1,088.4	96.47	12.282	
11,801.9	7,500.0	7,623.5	7,505.5	85.4	24.2	-90.99	4,227.2	-26.4	1,200.0	1,101.7	98.25	12.214	
11,900.0	7,500.0	7,627.0	7,508.9	87.0	24.2	-91.17	4,227.3	-26.3	1,223.2	1,123.0	100.22	12.205 SF	
12,000.0	7,500.0	7,630.5	7,512.4	88.7	24.2	-91.35	4,227.4	-26.3	1,256.0	1,153.8	102.21	12.288	
12,100.0	7,500.0	7,631.0	7,512.9	90.4	24.2	-91.38	4,227.4	-26.3	1,297.2	1,193.0	104.17	12.453	
12,200.0	7,500.0	7,631.0	7,512.9	92.0	24.2	-91.40	4,227.4	-26.3	1,346.1	1,240.0	106.11	12.686	
12,300.0	7,500.0	7,631.0	7,512.9	93.7	24.2	-91.41	4,227.4	-26.3	1,401.9	1,293.9	108.03	12.977	
12,400.0	7,500.0	7,631.0	7,512.9	95.4	24.2	-91.43	4,227.4	-26.3	1,463.8	1,353.9	109.92	13.317	
12,500.0	7,500.0	7,631.0	7,512.9	97.1	24.2	-91.46	4,227.4	-26.3	1,531.0	1,419.2	111.79	13.695	
12,600.0	7,500.0	7,631.0	7,512.9	98.9	24.2	-91.48	4,227.4	-26.3	1,602.8	1,489.1	113.63	14.105	
12,700.0	7,500.0	7,631.0	7,512.9	100.6	24.2	-91.51	4,227.4	-26.3	1,678.6	1,563.1	115.45	14.539	
12,806.4	7,500.0	7,631.0	7,512.9	102.4	24.2	-91.55	4,227.4	-26.3	1,763.0	1,645.7	117.37	15.022	
12,900.0	7,500.0	7,648.4	7,530.3	104.0	24.2	-92.51	4,227.9	-26.2	1,839.6	1,720.7	118.95	15.466	
13,000.0	7,500.0	7,650.1	7,532.1	105.8	24.2	-92.61	4,227.9	-26.2	1,923.2	1,802.5	120.68	15.936	
13,100.0	7,500.0	7,651.9	7,533.8	107.5	24.2	-92.71	4,228.0	-26.2	2,008.2	1,885.8	122.42	16.404	
13,200.0	7,500.0	7,653.6	7,535.5	109.2	24.2	-92.80	4,228.0	-26.2	2,094.6	1,970.4	124.16	16.871	
13,300.0	7,500.0	7,655.3	7,537.2	111.0	24.2	-92.90	4,228.1	-26.1	2,182.1	2,056.2	125.89	17.333	
13,400.0	7,500.0	7,657.0	7,538.9	112.7	24.2	-92.99	4,228.1	-26.1	2,270.7	2,143.1	127.63	17.791	
13,500.0	7,500.0	7,658.6	7,540.5	114.5	24.2	-93.08	4,228.1	-26.1	2,360.2	2,230.8	129.37	18.244	
13,600.0	7,500.0	7,660.2	7,542.1	116.2	24.2	-93.17	4,228.2	-26.1	2,450.5	2,319.4	131.10	18.691	
13,700.0	7,500.0	7,661.8	7,543.7	117.9	24.2	-93.25	4,228.2	-26.1	2,541.5	2,408.6	132.84	19.132	
13,800.0	7,500.0	7,663.3	7,545.2	119.7	24.2	-93.34	4,228.3	-26.1	2,633.1	2,498.6	134.57	19.567	
13,900.0	7,500.0	7,664.8	7,546.7	121.4	24.2	-93.42	4,228.3	-26.1	2,725.4	2,589.1	136.31	19.994	
14,000.0	7,500.0	7,666.3	7,548.2	123.1	24.2	-93.50	4,228.3	-26.1	2,818.2	2,680.1	138.05	20.415	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design												S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program:												765-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						
14,100.0	7,500.0	7,667.8	7,549.7	124.9	24.2	-93.59	4,228.4	-26.1	2,911.4	2,771.6	139.78	20.828					
14,200.0	7,500.0	7,669.2	7,551.1	126.6	24.2	-93.66	4,228.4	-26.1	3,005.1	2,863.6	141.52	21.235					
14,300.0	7,500.0	7,670.6	7,552.5	128.4	24.2	-93.74	4,228.5	-26.1	3,099.2	2,955.9	143.25	21.634					
14,335.9	7,500.0	7,671.1	7,553.0	129.0	24.2	-93.77	4,228.5	-26.1	3,133.0	2,989.2	143.88	21.776					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 797-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	14.41	3,623.5	931.3	3,741.3					
100.0	100.0	86.5	86.5	0.2	0.1	14.41	3,623.5	931.3	3,741.2	3,740.9	0.30	N/A		
200.0	200.0	188.3	188.3	0.3	0.3	14.41	3,623.4	931.1	3,741.2	3,740.5	0.65	5,766.183		
300.0	300.0	290.1	290.1	0.5	0.5	14.41	3,623.4	930.9	3,741.1	3,740.1	1.00	3,749.968		
400.0	400.0	391.9	391.9	0.7	0.7	-67.74	3,623.3	930.5	3,740.6	3,739.2	1.35	2,774.271		
500.0	500.0	493.6	493.6	0.9	0.8	-67.80	3,623.2	930.0	3,739.4	3,737.7	1.70	2,198.428		
600.0	599.9	595.2	595.2	1.0	1.0	-67.89	3,623.1	929.4	3,737.5	3,735.4	2.06	1,814.788		
700.0	699.7	696.8	696.8	1.2	1.2	-68.01	3,623.0	928.7	3,734.9	3,732.4	2.43	1,538.911		
800.0	799.4	797.0	797.0	1.4	1.4	-68.16	3,622.8	927.9	3,731.6	3,728.8	2.80	1,330.588		
900.0	898.9	895.6	895.6	1.7	1.5	-68.35	3,622.7	927.0	3,727.7	3,724.5	3.20	1,165.592		
1,000.0	998.3	1,000.4	1,000.4	1.9	1.7	-68.58	3,622.6	925.8	3,723.2	3,719.5	3.62	1,028.294		
1,100.0	1,097.4	1,727.2	1,721.0	2.2	3.5	-70.94	3,574.0	858.4	3,711.1	3,705.7	5.39	687.988		
1,200.0	1,196.3	1,836.8	1,827.9	2.5	3.9	-71.63	3,558.7	840.0	3,688.8	3,682.8	5.98	617.146		
1,300.0	1,294.9	1,939.6	1,928.0	2.8	4.3	-72.36	3,544.5	821.3	3,666.0	3,659.4	6.60	555.828		
1,400.0	1,393.3	2,126.1	2,107.9	3.2	5.1	-73.68	3,517.7	780.0	3,641.7	3,634.1	7.61	478.522		
1,419.0	1,411.9	2,149.0	2,129.8	3.2	5.2	-73.88	3,514.2	774.3	3,636.8	3,629.0	7.77	468.053		
1,500.0	1,491.4	2,302.0	2,275.8	3.5	6.0	-74.87	3,488.8	736.4	3,615.0	3,606.3	8.67	417.189		
1,600.0	1,589.5	2,374.0	2,344.6	3.9	6.4	-75.34	3,476.4	719.0	3,588.0	3,578.7	9.32	384.863		
1,700.0	1,687.6	2,436.0	2,403.8	4.2	6.7	-75.75	3,466.2	703.7	3,562.0	3,552.1	9.95	357.947		
1,800.0	1,785.7	2,653.0	2,610.3	4.6	7.9	-77.19	3,424.9	651.6	3,533.5	3,522.2	11.26	313.928		
1,900.0	1,883.8	2,719.4	2,673.6	5.0	8.2	-77.63	3,411.7	636.6	3,505.7	3,493.8	11.90	294.544		
2,000.0	1,981.9	2,807.6	2,757.8	5.4	8.7	-78.20	3,394.2	617.3	3,478.4	3,465.8	12.65	274.869		
2,100.0	2,080.0	2,895.1	2,841.4	5.7	9.2	-78.78	3,376.8	597.9	3,451.5	3,438.1	13.41	257.444		
2,200.0	2,178.1	2,980.4	2,923.0	6.1	9.6	-79.34	3,359.9	579.8	3,425.1	3,411.0	14.16	241.872		
2,300.0	2,276.2	3,054.7	2,994.0	6.5	10.0	-79.84	3,345.4	563.1	3,399.3	3,384.4	14.89	228.301		
2,400.0	2,374.3	3,125.0	3,061.0	6.9	10.4	-80.34	3,332.3	546.5	3,374.6	3,358.9	15.62	216.072		
2,500.0	2,472.3	3,182.5	3,115.9	7.3	10.7	-80.76	3,322.0	532.8	3,350.9	3,334.6	16.27	205.915		
2,600.0	2,570.4	3,254.5	3,184.9	7.6	11.1	-81.27	3,309.5	516.5	3,328.3	3,311.3	16.99	195.853		
2,700.0	2,668.5	3,328.9	3,256.5	8.0	11.5	-81.78	3,296.7	500.7	3,306.5	3,288.8	17.73	186.531		
2,800.0	2,766.6	3,407.0	3,331.4	8.4	11.9	-82.35	3,283.9	482.9	3,285.6	3,267.1	18.52	177.444		
2,900.0	2,864.7	3,518.5	3,438.4	8.8	12.5	-83.17	3,265.4	457.4	3,265.3	3,245.9	19.45	167.854		
3,000.0	2,962.8	3,690.0	3,602.4	9.2	13.4	-84.44	3,233.6	418.6	3,243.4	3,222.6	20.73	156.469		
3,100.0	3,060.9	3,751.9	3,661.5	9.5	13.8	-84.91	3,221.7	404.5	3,221.5	3,200.1	21.44	150.235		
3,200.0	3,159.0	3,816.2	3,722.9	9.9	14.1	-85.40	3,209.9	389.5	3,201.0	3,178.8	22.18	144.317		
3,300.0	3,257.1	3,885.4	3,788.9	10.3	14.5	-85.95	3,197.6	372.9	3,181.5	3,158.6	22.95	138.608		
3,400.0	3,355.2	3,971.9	3,871.5	10.7	15.0	-86.63	3,182.6	352.1	3,163.0	3,139.1	23.83	132.756		
3,500.0	3,453.3	4,069.0	3,964.1	11.1	15.5	-87.42	3,165.5	328.5	3,144.8	3,120.0	24.77	126.936		
3,600.0	3,551.4	4,149.3	4,040.7	11.5	16.0	-88.07	3,151.4	308.8	3,127.2	3,101.6	25.62	122.038		
3,700.0	3,649.5	4,301.1	4,184.8	11.9	16.9	-89.35	3,122.9	270.6	3,108.9	3,082.0	26.93	115.429		
3,800.0	3,747.6	4,367.1	4,247.6	12.2	17.2	-89.90	3,110.4	254.6	3,091.3	3,063.6	27.70	111.592		
3,900.0	3,845.7	4,438.4	4,315.8	12.6	17.6	-90.48	3,097.3	238.3	3,074.8	3,046.3	28.48	107.950		
4,000.0	3,943.8	4,513.8	4,387.9	13.0	18.0	-91.11	3,083.9	220.8	3,059.4	3,030.1	29.33	104.321		
4,100.0	4,041.9	4,574.6	4,445.8	13.4	18.4	-91.63	3,073.3	205.6	3,045.1	3,015.1	30.08	101.227		
4,200.0	4,140.0	4,635.0	4,503.5	13.8	18.7	-92.15	3,063.5	190.6	3,032.5	3,001.7	30.83	98.360		
4,300.0	4,238.1	4,761.3	4,623.6	14.2	19.5	-93.27	3,042.4	158.1	3,020.2	2,988.2	32.03	94.302		
4,400.0	4,336.2	4,854.3	4,711.9	14.5	20.0	-94.11	3,026.3	133.5	3,008.3	2,975.3	33.00	91.152		
4,500.0	4,434.3	4,951.2	4,804.2	14.9	20.5	-94.96	3,009.1	109.5	2,996.4	2,962.4	33.97	88.217		
4,600.0	4,532.4	5,010.0	4,860.5	15.3	20.8	-95.46	2,999.1	96.0	2,985.7	2,951.0	34.68	86.082		
4,700.0	4,630.5	5,091.5	4,939.1	15.7	21.2	-96.14	2,986.0	78.4	2,976.1	2,940.6	35.50	83.829		
4,800.0	4,728.6	5,169.0	5,014.1	16.1	21.6	-96.76	2,974.2	62.8	2,967.7	2,931.4	36.28	81.797		
4,900.0	4,826.7	5,248.1	5,090.8	16.5	21.9	-97.38	2,962.7	47.7	2,960.1	2,923.1	37.04	79.909		
5,000.0	4,924.8	5,316.1	5,157.1	16.9	22.2	-97.90	2,953.3	35.8	2,953.6	2,915.8	37.73	78.279		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 797-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,022.9	5,389.0	5,228.5	17.2	22.5	-98.42	2,944.7	24.1	2,948.7	2,910.3	38.41	76.763	
5,200.0	5,121.0	5,435.2	5,274.0	17.6	22.6	-98.74	2,939.9	17.3	2,945.2	2,906.3	38.97	75.583	
5,300.0	5,219.1	5,512.1	5,349.8	18.0	22.9	-99.26	2,932.7	6.9	2,942.9	2,903.3	39.62	74.274	
5,400.0	5,317.2	5,601.3	5,438.1	18.4	23.2	-99.82	2,925.0	-3.8	2,941.4	2,901.1	40.29	72.998	
5,500.0	5,415.3	5,708.1	5,544.0	18.8	23.4	-100.46	2,916.4	-14.3	2,940.0	2,899.1	40.97	71.760	
5,600.0	5,513.4	5,795.7	5,631.2	19.2	23.6	-100.94	2,909.8	-20.5	2,938.7	2,897.2	41.55	70.720	
5,662.1	5,574.4	5,834.3	5,669.5	19.4	23.7	-101.14	2,907.4	-22.9	2,938.5	2,896.6	41.87	70.176	
5,700.0	5,611.5	5,862.0	5,697.2	19.6	23.7	-101.28	2,905.8	-24.4	2,938.6	2,896.5	42.08	69.841	
5,800.0	5,709.6	5,957.0	5,792.0	19.9	23.9	-101.73	2,901.1	-28.5	2,939.2	2,896.6	42.61	68.974	
5,900.0	5,807.7	6,010.9	5,845.8	20.3	24.0	-101.97	2,899.1	-30.0	2,940.6	2,897.6	43.07	68.275	
6,000.0	5,905.8	6,070.0	5,904.9	20.7	24.0	-102.23	2,897.9	-31.6	2,943.7	2,900.2	43.53	67.622	
6,100.0	6,003.9	6,146.0	5,980.9	21.1	24.1	-102.55	2,897.2	-33.4	2,947.8	2,903.8	44.01	66.983	
6,200.0	6,102.0	6,243.4	6,078.3	21.5	24.2	-102.95	2,896.6	-35.5	2,952.5	2,908.0	44.51	66.332	
6,300.0	6,200.1	6,347.2	6,182.0	21.9	24.3	-103.37	2,896.0	-37.6	2,957.2	2,912.1	45.01	65.695	
6,400.0	6,298.2	6,435.3	6,270.1	22.3	24.4	-103.72	2,895.6	-39.2	2,962.1	2,916.6	45.49	65.109	
6,500.0	6,396.3	6,525.1	6,359.9	22.6	24.5	-104.08	2,895.5	-41.0	2,967.4	2,921.4	45.98	64.542	
6,600.0	6,494.4	6,618.2	6,453.0	23.0	24.6	-104.45	2,895.5	-43.0	2,973.1	2,926.6	46.47	63.986	
6,700.0	6,592.5	6,716.7	6,551.5	23.4	24.7	-104.85	2,895.4	-45.5	2,979.0	2,932.1	46.97	63.429	
6,800.0	6,690.6	6,820.4	6,655.0	23.8	24.9	-105.28	2,895.0	-48.5	2,985.0	2,937.5	47.47	62.878	
6,900.0	6,788.7	6,946.1	6,780.8	24.2	25.0	-105.80	2,894.0	-51.6	2,990.5	2,942.5	47.98	62.323	
7,000.0	6,886.8	7,049.1	6,883.7	24.6	25.1	-106.20	2,892.8	-53.1	2,995.5	2,947.0	48.46	61.808	
7,068.1	6,953.6	7,108.8	6,943.4	24.8	25.2	-106.43	2,892.2	-53.9	2,999.1	2,950.3	48.78	61.484	
7,100.0	6,984.9	7,136.8	6,971.4	25.0	25.2	-91.53	2,892.0	-54.3	3,000.0	2,951.1	48.97	61.258	
7,150.0	7,033.5	7,187.0	7,021.6	25.2	25.3	-73.98	2,891.7	-55.0	2,998.4	2,949.3	49.08	61.093	
7,200.0	7,081.4	7,187.0	7,021.6	25.4	25.3	-62.69	2,891.7	-55.0	2,993.1	2,944.3	48.88	61.230	
7,250.0	7,128.3	7,247.6	7,082.2	25.6	25.3	-56.01	2,891.7	-55.8	2,983.9	2,935.5	48.50	61.531	
7,300.0	7,173.7	7,279.2	7,113.8	25.8	25.3	-51.80	2,892.0	-56.3	2,971.4	2,923.6	47.85	62.092	
7,350.0	7,217.2	7,309.7	7,144.3	26.1	25.4	-49.30	2,892.3	-56.8	2,955.4	2,908.4	47.01	62.871	
7,400.0	7,258.7	7,338.9	7,173.5	26.3	25.4	-47.99	2,892.8	-57.2	2,936.2	2,890.2	45.98	63.853	
7,450.0	7,297.7	7,376.0	7,210.6	26.6	25.4	-47.70	2,893.6	-57.9	2,913.8	2,869.0	44.83	65.000	
7,500.0	7,334.0	7,399.7	7,234.2	26.9	25.5	-48.05	2,894.2	-58.3	2,888.3	2,844.8	43.57	66.298	
7,550.0	7,367.2	7,433.7	7,268.3	27.2	25.5	-49.28	2,895.0	-58.9	2,860.0	2,817.7	42.28	67.640	
7,600.0	7,397.2	7,464.6	7,299.1	27.5	25.5	-51.21	2,895.7	-59.4	2,829.0	2,787.9	41.03	68.954	
7,650.0	7,423.7	7,492.0	7,326.6	27.8	25.5	-53.87	2,896.4	-59.9	2,795.5	2,755.6	39.87	70.113	
7,700.0	7,446.5	7,518.3	7,352.8	28.2	25.6	-57.35	2,897.0	-60.3	2,759.9	2,721.0	38.90	70.952	
7,750.0	7,465.4	7,541.8	7,376.2	28.6	25.6	-61.69	2,897.5	-60.7	2,722.4	2,684.3	38.17	71.323	
7,800.0	7,480.4	7,560.5	7,395.0	29.0	25.6	-66.89	2,898.0	-61.0	2,683.4	2,645.7	37.72	71.136	
7,850.0	7,491.1	7,574.4	7,408.9	29.3	25.6	-72.93	2,898.3	-61.2	2,643.1	2,605.6	37.55	70.388	
7,900.0	7,497.7	7,583.3	7,417.8	29.8	25.6	-79.73	2,898.5	-61.3	2,601.9	2,564.3	37.61	69.176	
7,951.9	7,500.0	7,587.3	7,421.8	30.2	25.6	-87.39	2,898.5	-61.3	2,558.5	2,520.7	37.85	67.589	
8,000.0	7,500.0	7,588.5	7,423.0	30.6	25.6	-87.44	2,898.6	-61.4	2,518.2	2,479.7	38.51	65.390	
8,100.0	7,500.0	7,591.0	7,425.4	31.5	25.6	-87.54	2,898.6	-61.4	2,435.4	2,395.5	39.92	61.009	
8,200.0	7,500.0	7,593.4	7,427.9	32.5	25.6	-87.64	2,898.7	-61.4	2,353.9	2,312.5	41.38	56.891	
8,300.0	7,500.0	7,595.9	7,430.3	33.6	25.6	-87.74	2,898.7	-61.4	2,273.9	2,231.0	42.87	53.039	
8,400.0	7,500.0	7,598.3	7,432.8	34.7	25.6	-87.84	2,898.8	-61.5	2,195.5	2,151.1	44.40	49.447	
8,500.0	7,500.0	7,600.7	7,435.2	35.9	25.6	-87.94	2,898.8	-61.5	2,118.9	2,072.9	45.96	46.107	
8,551.9	7,500.0	7,602.0	7,436.4	36.5	25.6	-87.99	2,898.9	-61.5	2,079.9	2,033.2	46.77	44.468	
8,600.0	7,500.0	7,603.1	7,437.6	37.1	25.6	-88.04	2,898.9	-61.5	2,044.4	1,996.8	47.54	43.006	
8,700.0	7,500.0	7,605.5	7,440.0	38.3	25.6	-88.14	2,898.9	-61.6	1,972.1	1,922.9	49.13	40.136	
8,800.0	7,500.0	7,607.9	7,442.3	39.6	25.6	-88.24	2,899.0	-61.6	1,902.3	1,851.5	50.75	37.483	
8,900.0	7,500.0	7,610.2	7,444.7	40.9	25.6	-88.33	2,899.0	-61.6	1,835.3	1,782.9	52.38	35.038	
9,000.0	7,500.0	7,612.5	7,447.0	42.3	25.6	-88.43	2,899.1	-61.6	1,771.4	1,717.3	54.02	32.791	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU											Offset Site Error:		0.0 ft
Survey Program: 797-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	7,614.9	7,449.3	43.7	25.6	-88.53	2,899.1	-61.7	1,710.9	1,655.3	55.67	30.732	
9,200.0	7,500.0	7,617.2	7,451.6	45.1	25.6	-88.62	2,899.2	-61.7	1,654.3	1,597.0	57.33	28.855	
9,300.0	7,500.0	7,619.5	7,453.9	46.5	25.6	-88.72	2,899.2	-61.7	1,602.0	1,543.0	59.00	27.151	
9,400.0	7,500.0	7,621.7	7,456.2	48.0	25.6	-88.81	2,899.3	-61.7	1,554.3	1,493.7	60.68	25.616	
9,500.0	7,500.0	7,624.0	7,458.5	49.5	25.6	-88.90	2,899.3	-61.8	1,511.8	1,449.4	62.36	24.242	
9,551.9	7,500.0	7,625.2	7,459.6	50.2	25.6	-88.95	2,899.3	-61.8	1,491.9	1,428.6	63.24	23.592	
9,600.0	7,500.0	7,626.3	7,460.7	51.0	25.6	-88.99	2,899.4	-61.8	1,474.6	1,410.8	63.76	23.126	
9,700.0	7,500.0	7,628.5	7,463.0	52.4	25.6	-89.08	2,899.4	-61.8	1,442.0	1,377.1	64.85	22.234	
9,800.0	7,500.0	7,630.8	7,465.2	53.9	25.6	-89.17	2,899.4	-61.8	1,413.9	1,348.0	65.93	21.445	
9,900.0	7,500.0	7,633.0	7,467.5	55.4	25.6	-89.26	2,899.5	-61.8	1,390.8	1,323.8	67.00	20.757	
10,000.0	7,500.0	7,635.3	7,469.7	56.9	25.6	-89.36	2,899.5	-61.9	1,372.9	1,304.8	68.07	20.170	
10,100.0	7,500.0	7,637.5	7,472.0	58.4	25.6	-89.45	2,899.6	-61.9	1,360.3	1,291.2	69.12	19.681	
10,201.9	7,500.0	7,639.8	7,474.3	60.0	25.6	-89.55	2,899.6	-61.9	1,353.2	1,283.1	70.18	19.282	
10,257.5	7,500.0	7,641.1	7,475.5	60.8	25.6	-89.60	2,899.7	-61.9	1,352.1	1,281.0	71.13	19.008 CC	
10,300.0	7,500.0	7,642.0	7,476.5	61.5	25.7	-89.64	2,899.7	-61.9	1,352.8	1,280.9	71.86	18.824 ES	
10,400.0	7,500.0	7,644.3	7,478.7	63.0	25.7	-89.73	2,899.7	-61.9	1,359.6	1,286.0	73.58	18.478	
10,500.0	7,500.0	7,646.5	7,480.9	64.5	25.7	-89.83	2,899.8	-62.0	1,373.7	1,298.4	75.30	18.243	
10,600.0	7,500.0	7,648.7	7,483.1	66.1	25.7	-89.92	2,899.8	-62.0	1,394.8	1,317.8	77.02	18.109	
10,700.0	7,500.0	7,650.9	7,485.3	67.7	25.7	-90.01	2,899.8	-62.0	1,422.6	1,343.9	78.75	18.066 SF	
10,800.0	7,500.0	7,653.0	7,487.5	69.2	25.7	-90.10	2,899.9	-62.0	1,456.8	1,376.4	80.47	18.104	
10,900.0	7,500.0	7,655.2	7,489.6	70.8	25.7	-90.20	2,899.9	-62.0	1,496.9	1,414.7	82.20	18.211	
11,000.0	7,500.0	7,657.3	7,491.8	72.4	25.7	-90.29	2,900.0	-62.1	1,542.5	1,458.5	83.93	18.378	
11,100.0	7,500.0	7,659.4	7,493.9	74.0	25.7	-90.38	2,900.0	-62.1	1,593.0	1,507.3	85.66	18.597	
11,200.0	7,500.0	7,661.5	7,496.0	75.6	25.7	-90.46	2,900.1	-62.1	1,648.0	1,560.7	87.39	18.858	
11,300.0	7,500.0	7,663.6	7,498.1	77.2	25.7	-90.55	2,900.1	-62.1	1,707.2	1,618.1	89.13	19.154	
11,400.0	7,500.0	7,665.7	7,500.1	78.8	25.7	-90.64	2,900.1	-62.1	1,770.0	1,679.1	90.86	19.480	
11,500.0	7,500.0	7,667.7	7,502.2	80.5	25.7	-90.73	2,900.2	-62.1	1,836.1	1,743.5	92.60	19.828	
11,600.0	7,500.0	7,669.8	7,504.2	82.1	25.7	-90.81	2,900.2	-62.2	1,905.2	1,810.8	94.34	20.195	
11,700.0	7,500.0	7,671.8	7,506.3	83.7	25.7	-90.90	2,900.2	-62.2	1,976.9	1,880.8	96.07	20.576	
11,801.9	7,500.0	7,673.9	7,508.3	85.4	25.7	-90.99	2,900.3	-62.2	2,052.4	1,954.5	97.85	20.976	
11,900.0	7,500.0	7,675.8	7,510.3	87.0	25.7	-91.09	2,900.3	-62.2	2,127.7	2,027.5	100.22	21.231	
12,000.0	7,500.0	7,677.8	7,512.2	88.7	25.7	-91.20	2,900.4	-62.2	2,207.3	2,104.7	102.61	21.512	
12,100.0	7,500.0	7,679.7	7,514.2	90.4	25.7	-91.32	2,900.4	-62.2	2,289.5	2,184.6	104.97	21.810	
12,200.0	7,500.0	7,681.7	7,516.1	92.0	25.7	-91.45	2,900.4	-62.2	2,374.0	2,266.7	107.32	22.122	
12,300.0	7,500.0	7,683.6	7,518.0	93.7	25.7	-91.59	2,900.5	-62.3	2,460.6	2,351.0	109.63	22.444	
12,400.0	7,500.0	7,685.4	7,519.9	95.4	25.7	-91.73	2,900.5	-62.3	2,548.9	2,437.0	111.92	22.775	
12,500.0	7,500.0	7,687.3	7,521.8	97.1	25.7	-91.89	2,900.5	-62.3	2,638.9	2,524.7	114.18	23.112	
12,600.0	7,500.0	7,689.1	7,523.6	98.9	25.7	-92.07	2,900.6	-62.3	2,730.2	2,613.8	116.41	23.454	
12,700.0	7,500.0	7,691.0	7,525.4	100.6	25.7	-92.26	2,900.6	-62.3	2,822.8	2,704.2	118.61	23.799	
12,806.4	7,500.0	7,692.9	7,527.3	102.4	25.7	-92.49	2,900.6	-62.3	2,922.6	2,801.6	120.92	24.169	
12,900.0	7,500.0	7,694.5	7,529.0	104.0	25.7	-92.58	2,900.7	-62.3	3,010.9	2,888.4	122.55	24.570	
13,000.0	7,500.0	7,696.3	7,530.7	105.8	25.7	-92.69	2,900.7	-62.3	3,105.7	2,981.4	124.28	24.989	
13,100.0	7,500.0	7,698.1	7,532.5	107.5	25.7	-92.79	2,900.7	-62.3	3,200.8	3,074.8	126.02	25.400	
13,200.0	7,500.0	7,699.8	7,534.3	109.2	25.7	-92.89	2,900.8	-62.3	3,296.2	3,168.4	127.75	25.802	
13,300.0	7,500.0	7,701.6	7,536.0	111.0	25.7	-92.99	2,900.8	-62.4	3,391.8	3,262.4	129.49	26.195	
13,400.0	7,500.0	7,703.3	7,537.7	112.7	25.7	-93.10	2,900.8	-62.4	3,487.7	3,356.5	131.22	26.579	
13,500.0	7,500.0	7,705.0	7,539.5	114.5	25.7	-93.20	2,900.9	-62.4	3,583.8	3,450.9	132.95	26.956	
13,600.0	7,500.0	7,706.7	7,541.2	116.2	25.7	-93.30	2,900.9	-62.4	3,680.2	3,545.5	134.69	27.324	
13,700.0	7,500.0	7,708.5	7,542.9	117.9	25.7	-93.40	2,900.9	-62.4	3,776.7	3,640.2	136.42	27.684	
13,800.0	7,500.0	7,710.2	7,544.6	119.7	25.7	-93.50	2,901.0	-62.4	3,873.4	3,735.2	138.15	28.037	
13,900.0	7,500.0	7,711.9	7,546.3	121.4	25.7	-93.60	2,901.0	-62.4	3,970.2	3,830.3	139.88	28.382	
14,000.0	7,500.0	7,713.5	7,548.0	123.1	25.7	-93.70	2,901.0	-62.4	4,067.2	3,925.6	141.62	28.720	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design											S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU			Offset Site Error:		0.0 ft	
Survey Program:											797-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						
14,100.0	7,500.0	7,715.2	7,549.7	124.9	25.7	-93.79	2,901.0	-62.4	4,164.3	4,021.0	143.35	29.051					
14,200.0	7,500.0	7,716.9	7,551.3	126.6	25.7	-93.89	2,901.1	-62.4	4,261.6	4,116.5	145.08	29.375					
14,300.0	7,500.0	7,718.6	7,553.0	128.4	25.7	-93.99	2,901.1	-62.4	4,359.0	4,212.2	146.81	29.692					
14,335.9	7,500.0	7,719.2	7,553.6	129.0	25.7	-94.02	2,901.1	-62.4	4,394.0	4,246.6	147.43	29.804					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	17.85	4,282.8	1,379.6	4,499.7					
100.0	100.0	72.8	72.8	0.2	0.1	17.86	4,282.7	1,379.6	4,499.5	4,499.2	0.28	N/A		
188.9	188.9	150.9	150.9	0.3	0.3	17.86	4,282.6	1,379.6	4,499.3	4,498.7	0.57	7,885.540		
200.0	200.0	159.5	159.5	0.3	0.3	17.86	4,282.6	1,379.6	4,499.3	4,498.7	0.60	7,439.115		
300.0	300.0	242.4	242.4	0.5	0.4	17.85	4,282.9	1,379.5	4,499.6	4,498.7	0.92	4,869.897		
400.0	400.0	333.7	333.7	0.7	0.6	-64.29	4,283.5	1,379.1	4,499.8	4,498.5	1.26	3,574.649		
500.0	500.0	440.8	440.8	0.9	0.8	-64.34	4,284.5	1,378.3	4,499.3	4,497.6	1.62	2,770.373		
600.0	599.9	570.6	570.6	1.0	1.0	-64.43	4,284.9	1,377.7	4,497.5	4,495.5	2.03	2,210.383		
700.0	699.7	654.9	654.9	1.2	1.1	-64.53	4,285.1	1,376.6	4,494.7	4,492.4	2.38	1,892.128		
800.0	799.4	738.6	738.5	1.4	1.3	-64.65	4,286.0	1,375.0	4,491.8	4,489.0	2.73	1,646.816		
900.0	898.9	859.3	859.3	1.7	1.5	-64.86	4,287.2	1,372.6	4,488.0	4,484.9	3.16	1,420.311		
1,000.0	998.3	958.3	958.2	1.9	1.7	-65.06	4,287.7	1,370.4	4,483.1	4,479.6	3.57	1,255.038		
1,100.0	1,097.4	1,050.1	1,049.9	2.2	1.9	-65.28	4,288.7	1,367.8	4,477.8	4,473.8	3.99	1,121.777		
1,200.0	1,196.3	1,151.8	1,151.6	2.5	2.0	-65.55	4,289.8	1,364.9	4,471.8	4,467.3	4.45	1,004.686		
1,300.0	1,294.9	1,245.4	1,245.2	2.8	2.2	-65.83	4,290.8	1,362.1	4,465.1	4,460.2	4.92	907.628		
1,400.0	1,393.3	1,338.2	1,337.9	3.2	2.4	-66.13	4,292.0	1,359.3	4,457.9	4,452.5	5.41	823.763		
1,419.0	1,411.9	1,357.7	1,357.4	3.2	2.4	-66.20	4,292.2	1,358.7	4,456.5	4,451.0	5.51	808.783		
1,500.0	1,491.4	1,465.7	1,465.4	3.5	2.6	-66.49	4,293.4	1,355.4	4,450.2	4,444.3	5.98	744.227		
1,600.0	1,589.5	1,568.6	1,568.2	3.9	2.8	-66.77	4,293.8	1,352.1	4,441.9	4,435.4	6.51	682.400		
1,700.0	1,687.6	1,665.0	1,664.5	4.2	3.0	-67.03	4,294.4	1,349.0	4,433.9	4,426.8	7.03	630.528		
1,800.0	1,785.7	1,760.8	1,760.3	4.6	3.1	-67.29	4,294.9	1,345.9	4,425.9	4,418.3	7.56	585.599		
1,900.0	1,883.8	1,861.6	1,861.1	5.0	3.3	-67.57	4,295.5	1,342.7	4,418.0	4,409.9	8.10	545.747		
2,000.0	1,981.9	1,972.7	1,972.1	5.4	3.5	-67.87	4,295.7	1,339.6	4,410.1	4,401.4	8.65	509.635		
2,100.0	2,080.0	2,133.6	2,132.9	5.7	3.8	-68.29	4,294.3	1,336.0	4,401.2	4,391.9	9.30	473.227		
2,200.0	2,178.1	2,200.0	2,199.3	6.1	3.9	-68.46	4,293.2	1,334.7	4,392.0	4,382.2	9.78	449.205		
2,300.0	2,276.2	2,279.0	2,278.3	6.5	4.1	-68.66	4,292.3	1,333.5	4,383.4	4,373.1	10.28	426.521		
2,400.0	2,374.3	2,350.5	2,349.8	6.9	4.2	-68.83	4,292.1	1,332.8	4,375.6	4,364.9	10.77	406.457		
2,500.0	2,472.3	2,440.6	2,439.9	7.3	4.3	-69.06	4,292.2	1,331.8	4,368.4	4,357.1	11.29	386.930		
2,600.0	2,570.4	2,544.4	2,543.7	7.6	4.5	-69.33	4,292.4	1,330.0	4,361.2	4,349.3	11.84	368.239		
2,700.0	2,668.5	2,639.6	2,638.8	8.0	4.7	-69.58	4,292.6	1,328.2	4,354.0	4,341.6	12.38	351.644		
2,800.0	2,766.6	2,721.9	2,721.2	8.4	4.8	-69.80	4,292.8	1,326.8	4,347.1	4,334.2	12.90	337.052		
2,900.0	2,864.7	2,800.0	2,799.2	8.8	5.0	-70.00	4,293.6	1,325.7	4,340.9	4,327.5	13.41	323.814		
3,000.0	2,962.8	2,884.8	2,884.0	9.2	5.1	-70.22	4,294.8	1,324.8	4,335.3	4,321.3	13.93	311.301		
3,100.0	3,060.9	2,978.6	2,977.8	9.5	5.3	-70.47	4,295.9	1,323.9	4,329.6	4,315.1	14.47	299.305		
3,200.0	3,159.0	3,071.0	3,070.2	9.9	5.5	-70.71	4,297.2	1,322.8	4,324.2	4,309.2	15.00	288.213		
3,300.0	3,257.1	3,155.7	3,154.9	10.3	5.6	-70.93	4,298.5	1,321.7	4,319.0	4,303.5	15.53	278.125		
3,400.0	3,355.2	3,242.7	3,241.8	10.7	5.8	-71.17	4,300.3	1,320.3	4,314.3	4,298.2	16.06	268.623		
3,500.0	3,453.3	3,329.8	3,328.9	11.1	5.9	-71.40	4,302.2	1,318.8	4,309.8	4,293.2	16.59	259.719		
3,600.0	3,551.4	3,408.4	3,407.4	11.5	6.1	-71.62	4,304.3	1,317.3	4,305.8	4,288.7	17.11	251.612		
3,700.0	3,649.5	3,521.5	3,520.5	11.9	6.3	-71.94	4,307.4	1,314.7	4,302.0	4,284.3	17.70	243.048		
3,800.0	3,747.6	3,632.6	3,631.6	12.2	6.5	-72.25	4,310.0	1,312.2	4,297.9	4,279.6	18.28	235.070		
3,900.0	3,845.7	3,738.0	3,736.9	12.6	6.7	-72.54	4,312.2	1,310.1	4,293.7	4,274.8	18.85	227.722		
4,000.0	3,943.8	3,841.0	3,839.9	13.0	6.8	-72.82	4,314.2	1,308.4	4,289.4	4,270.0	19.42	220.861		
4,100.0	4,041.9	3,952.1	3,951.0	13.4	7.0	-73.12	4,316.1	1,306.7	4,285.1	4,265.1	20.00	214.213		
4,200.0	4,140.0	4,059.6	4,058.4	13.8	7.2	-73.42	4,317.5	1,304.9	4,280.5	4,259.9	20.58	207.989		
4,300.0	4,238.1	4,156.4	4,155.2	14.2	7.4	-73.68	4,318.8	1,303.4	4,275.9	4,254.8	21.14	202.290		
4,400.0	4,336.2	4,265.1	4,263.9	14.5	7.6	-73.98	4,320.2	1,301.3	4,271.5	4,249.7	21.72	196.670		
4,500.0	4,434.3	4,400.7	4,399.4	14.9	7.8	-74.36	4,321.1	1,298.7	4,266.5	4,244.1	22.35	190.876		
4,600.0	4,532.4	4,500.0	4,498.7	15.3	8.0	-74.64	4,321.3	1,296.8	4,261.1	4,238.2	22.92	185.943		
4,700.0	4,630.5	4,586.2	4,584.9	15.7	8.2	-74.87	4,321.5	1,295.2	4,256.0	4,232.5	23.46	181.446		
4,800.0	4,728.6	4,689.3	4,688.0	16.1	8.4	-75.16	4,321.9	1,293.3	4,251.0	4,227.0	24.03	176.921		
4,900.0	4,826.7	4,774.6	4,773.2	16.5	8.5	-75.40	4,322.3	1,291.8	4,246.2	4,221.6	24.57	172.846		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,924.8	4,857.1	4,855.8	16.9	8.6	-75.62	4,322.9	1,290.5	4,241.8	4,216.7	25.10	169.004	
5,100.0	5,022.9	4,960.7	4,959.4	17.2	8.8	-75.90	4,323.8	1,289.3	4,237.7	4,212.1	25.67	165.073	
5,200.0	5,121.0	5,062.8	5,061.4	17.6	9.0	-76.19	4,324.5	1,287.8	4,233.4	4,207.2	26.24	161.317	
5,300.0	5,219.1	5,148.7	5,147.3	18.0	9.2	-76.42	4,325.1	1,286.7	4,229.4	4,202.6	26.78	157.917	
5,400.0	5,317.2	5,238.2	5,236.8	18.4	9.3	-76.66	4,326.1	1,286.0	4,225.8	4,198.4	27.33	154.629	
5,500.0	5,415.3	5,341.1	5,339.7	18.8	9.5	-76.94	4,327.1	1,285.1	4,222.2	4,194.3	27.90	151.332	
5,600.0	5,513.4	5,438.8	5,437.4	19.2	9.7	-77.20	4,328.1	1,284.2	4,218.7	4,190.2	28.46	148.214	
5,700.0	5,611.5	5,530.5	5,529.1	19.6	9.8	-77.45	4,329.1	1,283.3	4,215.4	4,186.3	29.01	145.283	
5,800.0	5,709.6	5,625.7	5,624.3	19.9	10.0	-77.70	4,330.1	1,282.8	4,212.2	4,182.6	29.57	142.440	
5,900.0	5,807.7	5,716.3	5,714.8	20.3	10.2	-77.94	4,331.3	1,282.4	4,209.3	4,179.2	30.12	139.747	
6,000.0	5,905.8	5,825.7	5,824.2	20.7	10.3	-78.24	4,332.6	1,281.6	4,206.4	4,175.7	30.71	136.984	
6,100.0	6,003.9	5,936.2	5,934.8	21.1	10.5	-78.55	4,333.6	1,280.2	4,203.3	4,172.0	31.30	134.302	
6,200.0	6,102.0	6,030.6	6,029.1	21.5	10.7	-78.80	4,334.5	1,279.3	4,200.2	4,168.3	31.86	131.848	
6,300.0	6,200.1	6,121.1	6,119.7	21.9	10.9	-79.06	4,335.3	1,278.0	4,197.3	4,164.9	32.41	129.508	
6,400.0	6,298.2	6,200.0	6,198.5	22.3	11.0	-79.28	4,336.4	1,276.9	4,194.9	4,161.9	32.94	127.348	
6,500.0	6,396.3	6,321.7	6,320.2	22.6	11.2	-79.62	4,337.9	1,274.9	4,192.4	4,158.8	33.56	124.939	
6,600.0	6,494.4	6,421.6	6,420.0	23.0	11.4	-79.91	4,338.9	1,272.9	4,189.9	4,155.7	34.13	122.765	
6,700.0	6,592.5	6,533.8	6,532.2	23.4	11.6	-80.24	4,339.6	1,270.6	4,187.0	4,152.3	34.73	120.571	
6,800.0	6,690.6	6,618.7	6,617.1	23.8	11.8	-80.48	4,340.3	1,268.9	4,184.4	4,149.2	35.27	118.635	
6,900.0	6,788.7	6,714.3	6,712.7	24.2	11.9	-80.76	4,341.2	1,267.1	4,182.1	4,146.3	35.84	116.699	
7,000.0	6,886.8	6,815.3	6,813.7	24.6	12.1	-81.06	4,342.1	1,264.5	4,179.9	4,143.4	36.42	114.779	
7,068.1	6,953.6	6,877.5	6,875.9	24.8	12.2	-81.25	4,342.7	1,262.5	4,178.4	4,141.6	36.80	113.547	
7,100.0	6,984.9	6,907.0	6,905.3	25.0	12.3	-81.36	4,343.0	1,261.5	4,176.9	4,140.0	36.92	113.137	
7,150.0	7,033.5	6,954.5	6,952.8	25.2	12.4	-81.65	4,343.5	1,259.9	4,171.0	4,134.1	36.92	112.976	
7,200.0	7,081.4	7,000.0	6,998.2	25.4	12.5	-81.27	4,344.0	1,258.3	4,160.8	4,124.1	36.68	113.422	
7,250.0	7,128.3	7,033.7	7,031.9	25.6	12.5	-81.95	4,344.4	1,257.1	4,146.5	4,110.3	36.20	114.548	
7,300.0	7,173.7	7,065.5	7,063.7	25.8	12.6	-82.05	4,344.9	1,256.0	4,128.3	4,092.8	35.49	116.321	
7,350.0	7,217.2	7,100.0	7,098.2	26.1	12.6	-82.66	4,345.6	1,254.8	4,106.2	4,071.7	34.58	118.753	
7,400.0	7,258.7	7,131.0	7,129.2	26.3	12.7	-82.93	4,346.3	1,253.8	4,080.5	4,047.0	33.46	121.943	
7,450.0	7,297.7	7,164.7	7,162.8	26.6	12.8	-83.45	4,347.1	1,252.9	4,051.2	4,019.0	32.17	125.915	
7,500.0	7,334.0	7,200.0	7,198.1	26.9	12.8	-84.16	4,347.9	1,252.2	4,018.5	3,987.8	30.73	130.755	
7,550.0	7,367.2	7,222.6	7,220.7	27.2	12.9	-85.18	4,348.5	1,251.8	3,982.8	3,953.6	29.14	136.682	
7,600.0	7,397.2	7,246.2	7,244.3	27.5	12.9	-86.49	4,349.2	1,251.4	3,944.2	3,916.7	27.45	143.681	
7,650.0	7,423.7	7,267.4	7,265.4	27.8	12.9	-88.05	4,349.8	1,251.1	3,903.0	3,877.3	25.70	151.848	
7,700.0	7,446.5	7,285.9	7,283.9	28.2	13.0	-90.84	4,350.4	1,250.9	3,859.6	3,835.6	23.95	161.169	
7,750.0	7,465.4	7,300.0	7,298.1	28.6	13.0	-93.89	4,350.9	1,250.8	3,814.2	3,791.9	22.24	171.466	
7,800.0	7,480.4	7,315.5	7,313.6	29.0	13.0	-97.34	4,351.4	1,250.7	3,767.2	3,746.5	20.70	181.968	
7,850.0	7,491.1	7,326.0	7,324.1	29.3	13.0	-101.44	4,351.7	1,250.6	3,718.9	3,699.4	19.45	191.247	
7,900.0	7,497.7	7,333.0	7,331.0	29.8	13.1	-106.33	4,352.0	1,250.6	3,669.6	3,650.8	18.81	195.107	
7,951.9	7,500.0	7,336.5	7,334.5	30.2	13.1	-112.24	4,352.1	1,250.6	3,618.0	3,596.1	21.87	165.397	
8,000.0	7,500.0	7,337.9	7,336.0	30.6	13.1	-119.54	4,352.2	1,250.6	3,569.9	3,547.5	22.35	159.706	
8,100.0	7,500.0	7,341.0	7,339.0	31.5	13.1	-128.19	4,352.3	1,250.6	3,470.0	3,446.6	23.39	148.343	
8,200.0	7,500.0	7,344.0	7,342.0	32.5	13.1	-138.87	4,352.4	1,250.5	3,370.1	3,345.6	24.49	137.618	
8,300.0	7,500.0	7,347.1	7,345.1	33.6	13.1	-150.58	4,352.5	1,250.5	3,270.2	3,244.5	25.64	127.526	
8,400.0	7,500.0	7,350.1	7,348.2	34.7	13.1	-164.32	4,352.6	1,250.5	3,170.3	3,143.4	26.86	118.050	
8,500.0	7,500.0	7,353.3	7,351.3	35.9	13.1	-180.09	4,352.7	1,250.5	3,070.4	3,042.3	28.13	109.168	
8,551.9	7,500.0	7,354.9	7,352.9	36.5	13.1	-197.50	4,352.8	1,250.5	3,018.5	2,989.7	28.81	104.783	
8,600.0	7,500.0	7,356.4	7,354.4	37.1	13.1	-216.90	4,352.8	1,250.5	2,970.5	2,941.0	29.45	100.852	
8,700.0	7,500.0	7,359.6	7,357.6	38.3	13.1	-239.74	4,352.9	1,250.5	2,870.6	2,839.8	30.84	93.075	
8,800.0	7,500.0	7,362.8	7,360.8	39.6	13.1	-266.62	4,353.0	1,250.5	2,770.7	2,738.4	32.29	85.805	
8,900.0	7,500.0	7,366.0	7,364.1	40.9	13.1	-301.54	4,353.2	1,250.5	2,670.8	2,637.0	33.80	79.015	
9,000.0	7,500.0	7,369.3	7,367.3	42.3	13.1	-342.51	4,353.3	1,250.5	2,571.0	2,535.6	35.38	72.674	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
9,100.0	7,500.0	7,372.6	7,370.6	43.7	13.1	-43.52	4,353.4	1,250.5	2,471.1	2,434.1	37.02	66.756		
9,200.0	7,500.0	7,375.9	7,373.9	45.1	13.1	-44.58	4,353.5	1,250.6	2,371.2	2,332.5	38.72	61.234		
9,300.0	7,500.0	7,379.3	7,377.3	46.5	13.1	-45.69	4,353.7	1,250.6	2,271.4	2,230.9	40.50	56.083		
9,400.0	7,500.0	7,382.7	7,380.7	48.0	13.1	-46.86	4,353.8	1,250.6	2,171.5	2,129.2	42.35	51.280		
9,500.0	7,500.0	7,386.1	7,384.1	49.5	13.1	-48.08	4,353.9	1,250.6	2,071.7	2,027.4	44.26	46.802		
9,551.9	7,500.0	7,387.9	7,385.9	50.2	13.2	-48.74	4,354.0	1,250.6	2,019.8	1,974.6	45.29	44.600		
9,600.0	7,500.0	7,389.6	7,387.6	51.0	13.2	-43.25	4,354.0	1,250.6	1,971.8	1,929.2	42.57	46.321		
9,700.0	7,500.0	7,393.1	7,391.1	52.4	13.2	-27.21	4,354.2	1,250.6	1,871.9	1,839.0	32.90	56.905		
9,800.0	7,500.0	7,400.0	7,398.0	53.9	13.2	-4.16	4,354.4	1,250.7	1,772.0	1,750.8	21.22	83.495		
9,900.0	7,500.0	7,400.0	7,398.0	55.4	13.2	21.63	4,354.4	1,250.7	1,672.1	1,641.2	30.84	54.215		
10,000.0	7,500.0	7,400.0	7,398.0	56.9	13.2	39.97	4,354.4	1,250.7	1,572.2	1,527.7	44.49	35.340		
10,100.0	7,500.0	7,400.0	7,398.0	58.4	13.2	51.40	4,354.4	1,250.7	1,472.4	1,419.6	52.75	27.913		
10,201.9	7,500.0	7,409.6	7,407.6	60.0	13.2	62.71	4,354.8	1,250.7	1,370.8	1,311.0	59.77	22.933		
10,300.0	7,500.0	7,412.8	7,410.8	61.5	13.2	64.12	4,354.9	1,250.7	1,273.0	1,211.1	61.90	20.566		
10,400.0	7,500.0	7,416.2	7,414.2	63.0	13.2	65.62	4,355.1	1,250.8	1,173.5	1,109.4	64.11	18.305		
10,500.0	7,500.0	7,419.6	7,417.6	64.5	13.2	67.19	4,355.2	1,250.8	1,074.0	1,007.7	66.35	16.187		
10,600.0	7,500.0	7,423.2	7,421.1	66.1	13.2	68.85	4,355.4	1,250.8	974.7	906.0	68.62	14.203		
10,700.0	7,500.0	7,426.8	7,424.8	67.7	13.2	70.58	4,355.5	1,250.8	875.4	804.5	70.92	12.344		
10,800.0	7,500.0	7,430.5	7,428.5	69.2	13.2	72.40	4,355.7	1,250.8	776.3	703.1	73.22	10.602		
10,900.0	7,500.0	7,434.3	7,432.3	70.8	13.2	74.31	4,355.8	1,250.9	677.5	602.0	75.52	8.970		
11,000.0	7,500.0	7,438.2	7,436.2	72.4	13.2	76.30	4,356.0	1,250.9	579.0	501.2	77.81	7.441		
11,100.0	7,500.0	7,442.3	7,440.2	74.0	13.2	78.37	4,356.2	1,250.9	481.2	401.1	80.07	6.009		
11,200.0	7,500.0	7,446.4	7,444.4	75.6	13.3	80.54	4,356.4	1,251.0	384.3	302.1	82.28	4.671		
11,300.0	7,500.0	7,450.7	7,448.6	77.2	13.3	82.79	4,356.6	1,251.0	289.6	205.2	84.43	3.431		
11,400.0	7,500.0	7,455.0	7,453.0	78.8	13.3	85.13	4,356.8	1,251.0	200.1	113.6	86.48	2.313		
11,500.0	7,500.0	7,459.5	7,457.5	80.5	13.3	87.55	4,357.0	1,251.1	126.9	38.5	88.42	1.436	Level 3	
11,569.8	7,500.0	7,462.7	7,460.7	81.6	13.3	89.28	4,357.1	1,251.1	106.1	16.4	89.70	1.183	Level 2, CC, ES, SF	
11,600.0	7,500.0	7,464.2	7,462.1	82.1	13.3	90.04	4,357.2	1,251.1	110.3	20.1	90.23	1.222	Level 2	
11,700.0	7,500.0	7,468.9	7,466.8	83.7	13.3	92.61	4,357.4	1,251.1	167.9	76.0	91.88	1.827		
11,801.9	7,500.0	7,473.9	7,471.8	85.4	13.3	95.29	4,357.7	1,251.2	255.0	161.6	93.38	2.730		
11,900.0	7,500.0	7,478.9	7,476.8	87.0	13.3	97.58	4,357.9	1,251.2	346.2	251.1	95.14	3.639		
12,000.0	7,500.0	7,484.1	7,482.0	88.7	13.3	99.66	4,358.2	1,251.2	441.8	345.0	96.82	4.563		
12,100.0	7,500.0	7,489.6	7,487.5	90.4	13.3	101.42	4,358.5	1,251.3	538.5	440.1	98.43	5.471		
12,200.0	7,500.0	7,495.2	7,493.1	92.0	13.3	102.86	4,358.8	1,251.3	635.9	535.8	100.03	6.357		
12,300.0	7,500.0	7,500.9	7,498.8	93.7	13.4	103.97	4,359.1	1,251.4	733.6	631.9	101.66	7.216		
12,400.0	7,500.0	7,506.1	7,504.0	95.4	13.4	104.61	4,359.4	1,251.4	831.5	728.0	103.42	8.040		
12,500.0	7,500.0	7,511.4	7,509.2	97.1	13.4	105.00	4,359.6	1,251.5	929.5	824.2	105.24	8.832		
12,600.0	7,500.0	7,516.6	7,514.5	98.9	13.4	105.20	4,359.9	1,251.5	1,027.6	920.4	107.12	9.593		
12,700.0	7,500.0	7,521.8	7,519.7	100.6	13.4	105.25	4,360.2	1,251.6	1,125.6	1,016.6	109.04	10.323		
12,806.4	7,500.0	7,527.4	7,525.2	102.4	13.4	105.18	4,360.5	1,251.6	1,230.0	1,118.9	111.11	11.070		
12,900.0	7,500.0	7,532.3	7,530.1	104.0	13.4	106.29	4,360.7	1,251.7	1,321.9	1,209.7	112.13	11.788		
13,000.0	7,500.0	7,537.5	7,535.3	105.8	13.4	107.46	4,361.0	1,251.7	1,420.3	1,307.1	113.17	12.550		
13,100.0	7,500.0	7,542.7	7,540.5	107.5	13.4	108.60	4,361.3	1,251.8	1,518.9	1,404.7	114.16	13.305		
13,200.0	7,500.0	7,547.8	7,545.6	109.2	13.4	109.73	4,361.6	1,251.8	1,617.6	1,502.5	115.09	14.055		
13,300.0	7,500.0	7,553.0	7,550.8	111.0	13.4	110.84	4,361.8	1,251.8	1,716.5	1,600.5	115.98	14.800		
13,400.0	7,500.0	7,558.1	7,555.9	112.7	13.5	111.93	4,362.1	1,251.9	1,815.5	1,698.7	116.82	15.541		
13,500.0	7,500.0	7,563.2	7,561.0	114.5	13.5	113.00	4,362.4	1,251.9	1,914.6	1,797.0	117.61	16.279		
13,600.0	7,500.0	7,568.3	7,566.1	116.2	13.5	114.05	4,362.6	1,252.0	2,013.7	1,895.4	118.35	17.015		
13,700.0	7,500.0	7,573.4	7,571.2	117.9	13.5	115.08	4,362.9	1,252.0	2,113.0	1,993.9	119.05	17.748		
13,800.0	7,500.0	7,578.5	7,576.3	119.7	13.5	116.09	4,363.2	1,252.1	2,212.3	2,092.5	119.71	18.480		
13,900.0	7,500.0	7,583.5	7,581.3	121.4	13.5	117.08	4,363.4	1,252.1	2,311.6	2,191.2	120.33	19.210		
14,000.0	7,500.0	7,588.6	7,586.3	123.1	13.5	118.04	4,363.7	1,252.2	2,411.0	2,290.0	120.91	19.940		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	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						
14,100.0	7,500.0	7,593.6	7,591.4	124.9	13.5	118.99	4,363.9	1,252.2	2,510.4	2,388.9	121.46	20.669					
14,200.0	7,500.0	7,600.0	7,597.7	126.6	13.5	120.17	4,364.3	1,252.3	2,609.8	2,488.1	121.68	21.448					
14,300.0	7,500.0	7,600.0	7,597.7	128.4	13.5	120.17	4,364.3	1,252.3	2,709.3	2,586.1	123.20	21.991					
14,335.9	7,500.0	7,600.0	7,597.7	129.0	13.5	120.17	4,364.3	1,252.3	2,745.0	2,621.3	123.74	22.183					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
0.0	0.0	0.0	0.0	0.0	0.0	14.69	3,659.9	959.3	3,783.6				
100.0	100.0	84.0	84.0	0.2	0.1	14.69	3,659.9	959.3	3,783.5	3,783.2	0.30	N/A	
200.0	200.0	184.0	184.0	0.3	0.3	14.69	3,659.9	959.3	3,783.5	3,782.9	0.64	5,892.146	
300.0	300.0	284.0	284.0	0.5	0.5	14.69	3,659.9	959.3	3,783.5	3,782.5	0.99	3,828.439	
400.0	400.0	384.0	384.0	0.7	0.7	-67.46	3,659.9	959.3	3,783.2	3,781.9	1.33	2,833.925	
500.0	500.0	484.0	484.0	0.9	0.8	-67.50	3,659.9	959.3	3,782.2	3,780.5	1.68	2,245.186	
600.0	599.9	583.9	583.9	1.0	1.0	-67.58	3,659.9	959.3	3,780.5	3,778.5	2.04	1,853.116	
700.0	699.7	683.7	683.7	1.2	1.2	-67.69	3,659.9	959.3	3,778.2	3,775.8	2.40	1,571.253	
800.0	799.4	775.0	775.0	1.4	1.3	-67.81	3,659.9	959.3	3,775.2	3,772.5	2.77	1,364.545	
900.0	898.9	775.0	775.0	1.7	1.3	-67.83	3,659.9	959.3	3,773.1	3,770.2	2.99	1,263.236	
954.7	953.3	775.0	775.0	1.8	1.3	-67.84	3,659.9	959.3	3,772.8	3,769.7	3.12	1,210.438	
1,000.0	998.3	775.0	775.0	1.9	1.3	-67.83	3,659.9	959.3	3,773.0	3,769.8	3.22	1,170.146	
1,100.0	1,097.4	775.0	775.0	2.2	1.3	-67.82	3,659.9	959.3	3,774.9	3,771.5	3.48	1,084.323	
1,200.0	1,196.3	966.1	965.9	2.5	1.9	-68.25	3,666.0	957.3	3,768.6	3,764.4	4.16	906.332	
1,213.7	1,209.8	972.4	972.3	2.5	1.9	-68.27	3,666.4	957.2	3,768.6	3,764.3	4.21	894.499	
1,300.0	1,294.9	1,012.3	1,012.0	2.8	2.1	-68.38	3,669.2	956.3	3,768.9	3,764.3	4.56	826.485	
1,400.0	1,393.3	1,058.1	1,057.7	3.2	2.2	-68.52	3,673.2	955.0	3,770.0	3,765.0	4.99	755.962	
1,419.0	1,411.9	1,066.8	1,066.3	3.2	2.2	-68.55	3,674.0	954.7	3,770.3	3,765.2	5.07	743.716	
1,500.0	1,491.4	1,103.7	1,103.0	3.5	2.4	-68.68	3,677.8	953.5	3,772.1	3,766.7	5.43	695.252	
1,600.0	1,589.5	1,149.1	1,148.0	3.9	2.5	-68.85	3,683.1	951.8	3,775.7	3,769.9	5.87	643.215	
1,700.0	1,687.6	1,194.2	1,192.7	4.2	2.7	-69.02	3,689.0	949.9	3,780.8	3,774.5	6.32	598.335	
1,800.0	1,785.7	1,380.6	1,376.1	4.6	3.3	-69.78	3,720.6	939.8	3,793.1	3,786.0	7.09	534.940	
1,900.0	1,883.8	1,380.6	1,376.1	5.0	3.3	-69.78	3,720.6	939.8	3,798.2	3,790.7	7.45	510.151	
2,000.0	1,981.9	1,380.6	1,376.1	5.4	3.3	-69.78	3,720.6	939.8	3,805.8	3,798.0	7.80	487.835	
2,100.0	2,080.0	1,380.6	1,376.1	5.7	3.3	-69.78	3,720.6	939.8	3,816.1	3,808.0	8.16	467.702	
2,200.0	2,178.1	1,456.7	1,450.6	6.1	3.6	-70.10	3,735.8	934.9	3,828.2	3,819.5	8.71	439.774	
2,300.0	2,276.2	1,552.0	1,543.6	6.5	3.9	-70.51	3,754.8	928.8	3,840.6	3,831.3	9.30	413.046	
2,400.0	2,374.3	1,647.2	1,636.7	6.9	4.3	-70.91	3,773.9	922.7	3,853.2	3,843.3	9.89	389.532	
2,500.0	2,472.3	1,742.4	1,729.8	7.3	4.7	-71.31	3,792.9	916.6	3,866.0	3,855.5	10.49	368.703	
2,600.0	2,570.4	1,837.6	1,822.9	7.6	5.1	-71.71	3,811.9	910.5	3,878.9	3,867.8	11.08	350.135	
2,700.0	2,668.5	1,932.8	1,916.0	8.0	5.5	-72.10	3,830.9	904.4	3,892.1	3,880.4	11.67	333.488	
2,800.0	2,766.6	2,028.0	2,009.1	8.4	5.9	-72.49	3,849.9	898.3	3,905.4	3,893.2	12.26	318.486	
2,900.0	2,864.7	2,123.2	2,102.2	8.8	6.2	-72.88	3,868.9	892.2	3,919.0	3,906.1	12.85	304.903	
3,000.0	2,962.8	2,218.5	2,195.3	9.2	6.6	-73.27	3,888.0	886.1	3,932.7	3,919.3	13.44	292.550	
3,100.0	3,060.9	2,313.7	2,288.4	9.5	7.0	-73.65	3,907.0	879.9	3,946.7	3,932.6	14.03	281.272	
3,200.0	3,159.0	2,408.9	2,381.5	9.9	7.4	-74.03	3,926.0	873.8	3,960.8	3,946.2	14.62	270.938	
3,300.0	3,257.1	2,504.1	2,474.6	10.3	7.8	-74.41	3,945.0	867.7	3,975.1	3,959.9	15.20	261.436	
3,400.0	3,355.2	2,599.3	2,567.7	10.7	8.2	-74.79	3,964.0	861.6	3,989.6	3,973.8	15.79	252.672	
3,500.0	3,453.3	2,694.5	2,660.8	11.1	8.5	-75.16	3,983.1	855.5	4,004.3	3,987.9	16.37	244.567	
3,600.0	3,551.4	2,789.7	2,753.9	11.5	8.9	-75.53	4,002.1	849.4	4,019.1	4,002.2	16.95	237.049	
3,700.0	3,649.5	2,885.0	2,847.0	11.9	9.3	-75.90	4,021.1	843.3	4,034.1	4,016.6	17.54	230.060	
3,800.0	3,747.6	2,980.2	2,940.1	12.2	9.7	-76.27	4,040.1	837.2	4,049.3	4,031.2	18.11	223.546	
3,900.0	3,845.7	3,075.4	3,033.2	12.6	10.1	-76.63	4,059.1	831.1	4,064.7	4,046.0	18.69	217.462	
4,000.0	3,943.8	3,170.6	3,126.3	13.0	10.5	-77.00	4,078.1	825.0	4,080.3	4,061.0	19.27	211.768	
4,100.0	4,041.9	3,265.8	3,219.4	13.4	10.8	-77.35	4,097.2	818.9	4,096.0	4,076.1	19.84	206.430	
4,200.0	4,140.0	3,361.0	3,312.5	13.8	11.2	-77.71	4,116.2	812.8	4,111.8	4,091.4	20.41	201.414	
4,300.0	4,238.1	3,456.2	3,405.5	14.2	11.6	-78.06	4,135.2	806.7	4,127.9	4,106.9	20.99	196.695	
4,400.0	4,336.2	3,551.4	3,498.6	14.5	12.0	-78.41	4,154.2	800.6	4,144.1	4,122.5	21.56	192.246	
4,500.0	4,434.3	3,646.7	3,591.7	14.9	12.4	-78.76	4,173.2	794.4	4,160.5	4,138.3	22.12	188.047	
4,600.0	4,532.4	3,741.9	3,684.8	15.3	12.8	-79.11	4,192.3	788.3	4,177.0	4,154.3	22.69	184.078	
4,700.0	4,630.5	3,837.1	3,777.9	15.7	13.1	-79.45	4,211.3	782.2	4,193.7	4,170.4	23.26	180.320	
4,800.0	4,728.6	3,932.3	3,871.0	16.1	13.5	-79.79	4,230.3	776.1	4,210.5	4,186.7	23.82	176.759	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	4,826.7	4,027.5	3,964.1	16.5	13.9	-80.13	4,249.3	770.0	4,227.5	4,203.1	24.38	173.379	
5,000.0	4,924.8	4,122.7	4,057.2	16.9	14.3	-80.47	4,268.3	763.9	4,244.7	4,219.7	24.94	170.167	
5,100.0	5,022.9	4,217.9	4,150.3	17.2	14.7	-80.80	4,287.3	757.8	4,262.0	4,236.5	25.50	167.112	
5,200.0	5,121.0	4,313.2	4,243.4	17.6	15.1	-81.13	4,306.4	751.7	4,279.4	4,253.4	26.06	164.202	
5,300.0	5,219.1	4,408.4	4,336.5	18.0	15.4	-81.46	4,325.4	745.6	4,297.0	4,270.4	26.62	161.429	
5,400.0	5,317.2	4,503.6	4,429.6	18.4	15.8	-81.79	4,344.4	739.5	4,314.8	4,287.6	27.17	158.782	
5,500.0	5,415.3	4,598.8	4,522.7	18.8	16.2	-82.11	4,363.4	733.4	4,332.6	4,304.9	27.73	156.255	
5,600.0	5,513.4	4,694.0	4,615.8	19.2	16.6	-82.43	4,382.4	727.3	4,350.7	4,322.4	28.28	153.839	
5,700.0	5,611.5	4,789.2	4,708.9	19.6	17.0	-82.75	4,401.5	721.2	4,368.8	4,340.0	28.83	151.527	
5,800.0	5,709.6	4,884.4	4,802.0	19.9	17.4	-83.06	4,420.5	715.1	4,387.1	4,357.7	29.38	149.313	
5,900.0	5,807.7	4,979.7	4,895.1	20.3	17.7	-83.38	4,439.5	709.0	4,405.6	4,375.6	29.93	147.191	
6,000.0	5,905.8	5,074.9	4,988.2	20.7	18.1	-83.69	4,458.5	702.8	4,424.1	4,393.7	30.48	145.156	
6,100.0	6,003.9	5,170.1	5,081.3	21.1	18.5	-83.99	4,477.5	696.7	4,442.8	4,411.8	31.02	143.202	
6,200.0	6,102.0	5,265.3	5,174.4	21.5	18.9	-84.30	4,496.6	690.6	4,461.7	4,430.1	31.57	141.326	
6,300.0	6,200.1	5,360.5	5,267.4	21.9	19.3	-84.60	4,515.6	684.5	4,480.6	4,448.5	32.11	139.523	
6,400.0	6,298.2	5,455.7	5,360.5	22.3	19.7	-84.91	4,534.6	678.4	4,499.7	4,467.1	32.66	137.788	
6,500.0	6,396.3	5,550.9	5,453.6	22.6	20.0	-85.20	4,553.6	672.3	4,519.0	4,485.8	33.20	136.118	
6,600.0	6,494.4	5,646.2	5,546.7	23.0	20.4	-85.50	4,572.6	666.2	4,538.3	4,504.6	33.74	134.510	
6,700.0	6,592.5	5,741.4	5,639.8	23.4	20.8	-85.79	4,591.6	660.1	4,557.8	4,523.5	34.28	132.960	
6,800.0	6,690.6	5,836.6	5,732.9	23.8	21.2	-86.09	4,610.7	654.0	4,577.3	4,542.5	34.82	131.466	
6,900.0	6,788.7	5,931.8	5,826.0	24.2	21.6	-86.37	4,629.7	647.9	4,597.1	4,561.7	35.36	130.024	
7,000.0	6,886.8	6,027.0	5,919.1	24.6	22.0	-86.66	4,648.7	641.8	4,616.9	4,581.0	35.89	128.632	
7,068.1	6,953.6	6,091.8	5,982.5	24.8	22.2	-86.86	4,661.6	637.6	4,630.4	4,594.2	36.26	127.712	
7,100.0	6,984.9	6,122.4	6,012.3	25.0	22.3	-71.92	4,667.7	635.7	4,636.0	4,599.6	36.36	127.484	
7,150.0	7,033.5	6,170.6	6,059.5	25.2	22.5	-54.17	4,677.4	632.6	4,641.1	4,604.7	36.35	127.662	
7,200.0	7,081.4	6,218.9	6,106.8	25.4	22.7	-42.79	4,687.0	629.5	4,641.9	4,605.8	36.13	128.486	
7,250.0	7,128.3	6,267.1	6,153.8	25.6	22.9	-35.55	4,696.7	626.4	4,638.4	4,602.7	35.69	129.953	
7,300.0	7,173.7	6,314.6	6,200.4	25.8	23.1	-30.78	4,706.2	623.3	4,630.7	4,595.6	35.06	132.068	
7,350.0	7,217.2	6,361.3	6,245.9	26.1	23.3	-27.56	4,715.5	620.3	4,618.7	4,584.4	34.25	134.839	
7,400.0	7,258.7	6,406.6	6,290.2	26.3	23.5	-25.35	4,724.5	617.4	4,602.6	4,569.3	33.29	138.266	
7,450.0	7,297.7	6,450.3	6,333.0	26.6	23.7	-23.86	4,733.2	614.6	4,582.5	4,550.3	32.20	142.333	
7,500.0	7,334.0	7,444.5	7,318.0	26.9	25.2	-27.76	4,836.2	581.6	4,557.8	4,524.7	33.11	137.645	
7,550.0	7,367.2	7,477.8	7,351.2	27.2	25.2	-27.93	4,836.2	581.6	4,522.6	4,490.5	32.16	140.621	
7,600.0	7,397.2	7,507.8	7,381.2	27.5	25.3	-28.71	4,836.2	581.6	4,484.6	4,453.2	31.34	143.090	
7,650.0	7,423.7	7,534.3	7,407.7	27.8	25.3	-30.20	4,836.2	581.6	4,444.0	4,413.2	30.78	144.396	
7,700.0	7,446.5	7,557.1	7,430.5	28.2	25.3	-32.62	4,836.2	581.6	4,401.1	4,370.4	30.64	143.638	
7,750.0	7,465.4	7,576.0	7,449.4	28.6	25.3	-36.35	4,836.2	581.6	4,356.3	4,325.1	31.18	139.727	
7,800.0	7,480.4	7,590.9	7,464.4	29.0	25.3	-42.12	4,836.2	581.6	4,309.9	4,277.2	32.74	131.656	
7,850.0	7,491.1	7,601.7	7,475.1	29.3	25.3	-51.29	4,836.2	581.6	4,262.3	4,226.5	35.75	119.239	
7,900.0	7,497.7	7,608.2	7,481.7	29.8	25.4	-66.21	4,836.2	581.6	4,213.8	4,173.6	40.23	104.750	
7,951.9	7,500.0	7,610.5	7,484.0	30.2	25.4	-90.00	4,836.2	581.6	4,162.9	4,119.1	43.78	95.096	
8,000.0	7,500.0	7,610.5	7,484.0	30.6	25.4	-90.00	4,836.2	581.6	4,115.6	4,071.2	44.43	92.633	
8,100.0	7,500.0	7,610.5	7,484.0	31.5	25.4	-90.00	4,836.2	581.6	4,017.4	3,971.5	45.83	87.658	
8,200.0	7,500.0	7,610.5	7,484.0	32.5	25.4	-90.00	4,836.2	581.6	3,919.2	3,871.9	47.28	82.893	
8,300.0	7,500.0	7,610.5	7,484.0	33.6	25.4	-90.00	4,836.2	581.6	3,821.2	3,772.4	48.77	78.350	
8,400.0	7,500.0	7,610.5	7,484.0	34.7	25.4	-90.00	4,836.2	581.6	3,723.2	3,672.9	50.29	74.030	
8,500.0	7,500.0	7,610.5	7,484.0	35.9	25.4	-90.00	4,836.2	581.6	3,625.4	3,573.5	51.84	69.928	
8,551.9	7,500.0	7,610.5	7,484.0	36.5	25.4	-90.00	4,836.2	581.6	3,574.7	3,522.0	52.66	67.884	
8,600.0	7,500.0	7,610.5	7,484.0	37.1	25.4	-90.00	4,836.2	581.6	3,527.7	3,474.2	53.42	66.038	
8,700.0	7,500.0	7,610.5	7,484.0	38.3	25.4	-90.00	4,836.2	581.6	3,430.1	3,375.1	55.01	62.352	
8,800.0	7,500.0	7,610.5	7,484.0	39.6	25.4	-90.00	4,836.2	581.6	3,332.6	3,276.0	56.62	58.857	
8,900.0	7,500.0	7,610.5	7,484.0	40.9	25.4	-90.00	4,836.2	581.6	3,235.4	3,177.1	58.25	55.546	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	42.3	25.4	-90.00	4,836.2	581.6	3,138.2	3,078.4	59.88	52.405	
9,100.0	7,500.0	7,610.5	7,484.0	43.7	25.4	-90.00	4,836.2	581.6	3,041.3	2,979.8	61.53	49.427	
9,200.0	7,500.0	7,610.5	7,484.0	45.1	25.4	-90.00	4,836.2	581.6	2,944.6	2,881.4	63.19	46.600	
9,300.0	7,500.0	7,610.5	7,484.0	46.5	25.4	-90.00	4,836.2	581.6	2,848.1	2,783.2	64.85	43.916	
9,400.0	7,500.0	7,610.5	7,484.0	48.0	25.4	-90.00	4,836.2	581.6	2,751.9	2,685.3	66.53	41.365	
9,500.0	7,500.0	7,610.5	7,484.0	49.5	25.4	-90.00	4,836.2	581.6	2,655.9	2,587.7	68.20	38.940	
9,551.9	7,500.0	7,610.5	7,484.0	50.2	25.4	-90.00	4,836.2	581.6	2,606.2	2,537.1	69.08	37.728	
9,600.0	7,500.0	7,610.5	7,484.0	51.0	25.4	-90.00	4,836.2	581.6	2,560.2	2,490.4	69.76	36.702	
9,700.0	7,500.0	7,610.5	7,484.0	52.4	25.4	-90.00	4,836.2	581.6	2,464.3	2,393.2	71.15	34.635	
9,800.0	7,500.0	7,610.5	7,484.0	53.9	25.4	-90.00	4,836.2	581.6	2,368.3	2,295.8	72.54	32.651	
9,900.0	7,500.0	7,610.5	7,484.0	55.4	25.4	-90.00	4,836.2	581.6	2,272.2	2,198.3	73.90	30.745	
10,000.0	7,500.0	7,610.5	7,484.0	56.9	25.4	-90.00	4,836.2	581.6	2,175.9	2,100.6	75.26	28.912	
10,100.0	7,500.0	7,610.5	7,484.0	58.4	25.4	-90.00	4,836.2	581.6	2,079.4	2,002.8	76.60	27.148	
10,201.9	7,500.0	7,610.5	7,484.0	60.0	25.4	-90.00	4,836.2	581.6	1,981.0	1,903.1	77.94	25.417	
10,300.0	7,500.0	7,610.5	7,484.0	61.5	25.4	-90.00	4,836.2	581.6	1,886.4	1,806.8	79.62	23.693	
10,400.0	7,500.0	7,610.5	7,484.0	63.0	25.4	-90.00	4,836.2	581.6	1,790.3	1,709.0	81.33	22.012	
10,500.0	7,500.0	7,610.5	7,484.0	64.5	25.4	-90.00	4,836.2	581.6	1,694.7	1,611.6	83.05	20.405	
10,600.0	7,500.0	7,610.5	7,484.0	66.1	25.4	-90.00	4,836.2	581.6	1,599.6	1,514.8	84.77	18.870	
10,700.0	7,500.0	7,610.5	7,484.0	67.7	25.4	-90.00	4,836.2	581.6	1,505.2	1,418.7	86.49	17.402	
10,800.0	7,500.0	7,610.5	7,484.0	69.2	25.4	-90.00	4,836.2	581.6	1,411.5	1,323.3	88.22	16.000	
10,900.0	7,500.0	7,610.5	7,484.0	70.8	25.4	-90.00	4,836.2	581.6	1,318.7	1,228.8	89.95	14.661	
11,000.0	7,500.0	7,610.5	7,484.0	72.4	25.4	-90.00	4,836.2	581.6	1,227.1	1,135.4	91.67	13.385	
11,100.0	7,500.0	7,610.5	7,484.0	74.0	25.4	-90.00	4,836.2	581.6	1,136.9	1,043.5	93.40	12.172	
11,200.0	7,500.0	7,610.5	7,484.0	75.6	25.4	-90.00	4,836.2	581.6	1,048.5	953.3	95.14	11.021	
11,300.0	7,500.0	7,610.5	7,484.0	77.2	25.4	-90.00	4,836.2	581.6	962.3	865.4	96.87	9.934	
11,400.0	7,500.0	7,610.5	7,484.0	78.8	25.4	-90.00	4,836.2	581.6	879.1	780.5	98.61	8.915	
11,500.0	7,500.0	7,610.5	7,484.0	80.5	25.4	-90.00	4,836.2	581.6	799.7	699.4	100.34	7.970	
11,600.0	7,500.0	7,610.5	7,484.0	82.1	25.4	-90.00	4,836.2	581.6	725.5	623.4	102.08	7.107	
11,700.0	7,500.0	7,610.5	7,484.0	83.7	25.4	-90.00	4,836.2	581.6	658.1	554.2	103.82	6.339	
11,801.9	7,500.0	7,610.5	7,484.0	85.4	25.4	-90.00	4,836.2	581.6	598.8	493.2	105.59	5.671	
11,900.0	7,500.0	7,610.5	7,484.0	87.0	25.4	-90.00	4,836.2	581.6	554.4	446.8	107.69	5.149	
12,000.0	7,500.0	7,610.5	7,484.0	88.7	25.4	-90.00	4,836.2	581.6	526.1	416.3	109.80	4.792	
12,090.3	7,500.0	7,610.5	7,484.0	90.2	25.4	-90.00	4,836.2	581.6	517.6	405.9	111.67	4.635 CC	
12,100.0	7,500.0	7,610.5	7,484.0	90.4	25.4	-90.00	4,836.2	581.6	517.7	405.8	111.87	4.628 ES, SF	
12,200.0	7,500.0	7,610.5	7,484.0	92.0	25.4	-90.00	4,836.2	581.6	530.1	416.2	113.92	4.653	
12,300.0	7,500.0	7,610.5	7,484.0	93.7	25.4	-90.00	4,836.2	581.6	562.0	446.1	115.94	4.848	
12,400.0	7,500.0	7,610.5	7,484.0	95.4	25.4	-90.00	4,836.2	581.6	610.3	492.4	117.92	5.176	
12,500.0	7,500.0	7,610.5	7,484.0	97.1	25.4	-90.00	4,836.2	581.6	671.5	551.6	119.87	5.601	
12,600.0	7,500.0	7,610.5	7,484.0	98.9	25.4	-90.00	4,836.2	581.6	742.3	620.5	121.80	6.094	
12,700.0	7,500.0	7,610.5	7,484.0	100.6	25.4	-90.00	4,836.2	581.6	820.3	696.6	123.69	6.631	
12,806.4	7,500.0	7,610.5	7,484.0	102.4	25.4	-90.00	4,836.2	581.6	909.0	783.3	125.68	7.233	
12,900.0	7,500.0	7,610.5	7,484.0	104.0	25.4	-90.00	4,836.2	581.6	990.4	863.1	127.31	7.779	
13,000.0	7,500.0	7,610.5	7,484.0	105.8	25.4	-90.00	4,836.2	581.6	1,079.5	950.4	129.05	8.365	
13,100.0	7,500.0	7,610.5	7,484.0	107.5	25.4	-90.00	4,836.2	581.6	1,170.4	1,039.6	130.80	8.948	
13,200.0	7,500.0	7,610.5	7,484.0	109.2	25.4	-90.00	4,836.2	581.6	1,262.6	1,130.1	132.55	9.526	
13,300.0	7,500.0	7,610.5	7,484.0	111.0	25.4	-90.00	4,836.2	581.6	1,356.0	1,221.7	134.29	10.097	
13,400.0	7,500.0	7,610.5	7,484.0	112.7	25.4	-90.00	4,836.2	581.6	1,450.2	1,314.2	136.04	10.660	
13,500.0	7,500.0	7,610.5	7,484.0	114.5	25.4	-90.00	4,836.2	581.6	1,545.2	1,407.4	137.79	11.214	
13,600.0	7,500.0	7,610.5	7,484.0	116.2	25.4	-90.00	4,836.2	581.6	1,640.8	1,501.2	139.54	11.759	
13,700.0	7,500.0	7,610.5	7,484.0	117.9	25.4	-90.00	4,836.2	581.6	1,736.8	1,595.5	141.29	12.293	
13,800.0	7,500.0	7,610.5	7,484.0	119.7	25.4	-90.00	4,836.2	581.6	1,833.3	1,690.3	143.03	12.817	
13,900.0	7,500.0	7,610.5	7,484.0	121.4	25.4	-90.00	4,836.2	581.6	1,930.2	1,785.4	144.78	13.331	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
14,000.0	7,500.0	7,610.5	7,484.0	123.1	25.4	-90.00	4,836.2	581.6	2,027.3	1,880.8	146.53	13.835				
14,100.0	7,500.0	7,610.5	7,484.0	124.9	25.4	-90.00	4,836.2	581.6	2,124.7	1,976.4	148.28	14.329				
14,200.0	7,500.0	7,610.5	7,484.0	126.6	25.4	-90.00	4,836.2	581.6	2,222.4	2,072.3	150.03	14.813				
14,300.0	7,500.0	7,610.5	7,484.0	128.4	25.4	-90.00	4,836.2	581.6	2,320.2	2,168.4	151.78	15.287				
14,335.9	7,500.0	7,610.5	7,484.0	129.0	25.4	-90.00	4,836.2	581.6	2,355.4	2,203.0	152.41	15.454				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
0.0	0.0	0.0	0.0	0.0	0.0	14.33	3,612.5	922.9	3,728.6				
100.0	100.0	653.1	649.9	0.2	1.5	14.82	3,559.8	941.7	3,725.4	3,723.9	1.53	2,441.301	
200.0	200.0	783.2	778.3	0.3	1.9	14.85	3,539.4	938.5	3,709.7	3,707.6	2.10	1,763.929	
300.0	300.0	1,195.0	1,181.7	0.5	3.5	14.84	3,460.6	916.7	3,690.9	3,687.0	3.85	959.223	
400.0	400.0	1,283.5	1,267.5	0.7	3.9	-67.53	3,439.7	911.7	3,666.2	3,663.3	2.95	1,241.551	
500.0	500.0	1,417.5	1,397.4	0.9	4.5	-67.83	3,407.9	903.1	3,640.6	3,637.3	3.35	1,087.441	
600.0	599.9	1,522.4	1,499.0	1.0	5.0	-68.19	3,382.7	894.8	3,613.8	3,610.1	3.69	978.085	
700.0	699.7	1,818.3	1,782.3	1.2	6.5	-68.84	3,301.5	869.6	3,581.4	3,577.1	4.37	819.590	
800.0	799.4	1,896.0	1,856.3	1.4	6.9	-69.27	3,278.6	863.6	3,548.2	3,543.5	4.70	754.774	
900.0	898.9	1,935.7	1,894.2	1.7	7.1	-69.66	3,267.3	860.7	3,515.4	3,510.4	4.98	705.350	
1,000.0	998.3	1,982.0	1,938.7	1.9	7.4	-70.07	3,254.8	857.3	3,483.5	3,478.2	5.30	657.665	
1,100.0	1,097.4	2,053.8	2,007.8	2.2	7.7	-70.57	3,236.4	851.1	3,452.0	3,446.4	5.68	608.244	
1,200.0	1,196.3	2,216.0	2,163.4	2.5	8.6	-71.38	3,193.0	836.6	3,418.8	3,412.5	6.24	547.971	
1,300.0	1,294.9	2,371.7	2,312.0	2.8	9.4	-72.26	3,149.0	822.5	3,383.9	3,377.1	6.83	495.302	
1,400.0	1,393.3	2,464.8	2,400.6	3.2	10.0	-73.00	3,121.9	812.9	3,347.5	3,340.2	7.35	455.372	
1,419.0	1,411.9	2,479.3	2,414.4	3.2	10.0	-73.13	3,117.7	811.4	3,340.6	3,333.2	7.45	448.620	
1,500.0	1,491.4	2,532.8	2,465.3	3.5	10.3	-73.36	3,102.3	806.1	3,311.3	3,303.5	7.83	422.790	
1,600.0	1,589.5	2,673.0	2,599.0	3.9	11.1	-73.93	3,061.9	793.9	3,275.7	3,267.3	8.46	387.234	
1,700.0	1,687.6	2,826.8	2,744.6	4.2	12.0	-74.55	3,013.8	781.1	3,237.8	3,228.7	9.13	354.660	
1,800.0	1,785.7	2,885.6	2,800.1	4.6	12.4	-74.81	2,995.3	775.4	3,199.6	3,190.0	9.62	332.746	
1,900.0	1,883.8	2,943.2	2,854.7	5.0	12.7	-75.07	2,977.8	769.9	3,162.6	3,152.5	10.10	313.028	
2,000.0	1,981.9	3,017.4	2,925.2	5.4	13.1	-75.39	2,955.7	763.8	3,126.3	3,115.7	10.63	294.178	
2,100.0	2,080.0	3,113.2	3,016.4	5.7	13.7	-75.84	2,927.4	755.0	3,090.4	3,079.2	11.22	275.451	
2,200.0	2,178.1	3,207.1	3,105.5	6.1	14.2	-76.31	2,899.6	745.0	3,054.4	3,042.6	11.82	258.414	
2,300.0	2,276.2	3,306.4	3,199.9	6.5	14.8	-76.80	2,870.4	735.2	3,018.8	3,006.4	12.44	242.620	
2,400.0	2,374.3	3,396.2	3,285.0	6.9	15.3	-77.29	2,843.4	725.0	2,982.6	2,969.6	13.06	228.400	
2,500.0	2,472.3	3,478.8	3,363.5	7.3	15.8	-77.73	2,819.2	716.2	2,947.3	2,933.7	13.66	215.735	
2,600.0	2,570.4	3,563.1	3,443.4	7.6	16.2	-78.20	2,794.2	706.9	2,912.0	2,897.7	14.28	203.897	
2,700.0	2,668.5	3,627.0	3,504.2	8.0	16.6	-78.56	2,775.9	699.8	2,877.6	2,862.8	14.85	193.794	
2,800.0	2,766.6	3,702.0	3,575.7	8.4	17.0	-79.00	2,754.8	691.5	2,844.2	2,828.7	15.46	183.997	
2,900.0	2,864.7	3,828.0	3,695.8	8.8	17.7	-79.73	2,719.1	678.4	2,810.8	2,794.5	16.22	173.262	
3,000.0	2,962.8	3,912.4	3,776.2	9.2	18.2	-80.19	2,694.1	671.3	2,776.6	2,759.8	16.85	164.780	
3,100.0	3,060.9	3,975.6	3,836.5	9.5	18.5	-80.53	2,675.9	666.6	2,743.6	2,726.2	17.41	157.548	
3,200.0	3,159.0	4,045.3	3,903.3	9.9	18.9	-80.91	2,656.5	661.9	2,711.7	2,693.7	18.00	150.659	
3,300.0	3,257.1	4,156.3	4,009.5	10.3	19.5	-81.53	2,625.5	653.8	2,679.7	2,661.0	18.73	143.065	
3,400.0	3,355.2	4,321.6	4,166.8	10.7	20.4	-82.55	2,576.9	638.9	2,646.5	2,626.8	19.69	134.383	
3,500.0	3,453.3	4,378.0	4,220.3	11.1	20.8	-82.90	2,560.0	633.8	2,613.0	2,592.7	20.28	128.855	
3,600.0	3,551.4	4,434.8	4,274.5	11.5	21.1	-83.26	2,543.6	628.9	2,580.9	2,560.0	20.87	123.689	
3,700.0	3,649.5	4,504.7	4,341.4	11.9	21.4	-83.71	2,524.2	623.2	2,550.1	2,528.6	21.50	118.593	
3,800.0	3,747.6	4,621.5	4,453.3	12.2	22.1	-84.45	2,492.0	614.3	2,519.8	2,497.5	22.31	112.921	
3,900.0	3,845.7	4,708.8	4,536.8	12.6	22.5	-84.99	2,467.1	609.0	2,488.9	2,465.9	22.99	108.237	
4,000.0	3,943.8	4,784.0	4,609.0	13.0	22.9	-85.43	2,446.0	606.0	2,458.7	2,435.1	23.63	104.069	
4,100.0	4,041.9	4,847.2	4,669.7	13.4	23.2	-85.80	2,428.8	603.5	2,429.6	2,405.3	24.22	100.293	
4,200.0	4,140.0	4,892.0	4,712.9	13.8	23.4	-86.07	2,417.2	601.5	2,402.0	2,377.2	24.77	96.987	
4,300.0	4,238.1	4,957.6	4,776.5	14.2	23.7	-86.48	2,401.1	598.6	2,376.1	2,350.7	25.38	93.621	
4,400.0	4,336.2	5,023.3	4,840.4	14.5	24.0	-86.88	2,386.2	596.0	2,351.9	2,325.9	25.99	90.493	
4,500.0	4,434.3	5,094.7	4,910.0	14.9	24.3	-87.31	2,370.7	593.6	2,328.9	2,302.2	26.62	87.499	
4,600.0	4,532.4	5,163.9	4,977.8	15.3	24.6	-87.73	2,356.3	591.5	2,307.1	2,279.8	27.24	84.704	
4,700.0	4,630.5	5,234.0	5,046.4	15.7	24.8	-88.15	2,342.5	589.4	2,286.5	2,258.7	27.86	82.060	
4,800.0	4,728.6	5,296.1	5,107.4	16.1	25.0	-88.53	2,331.1	587.6	2,267.5	2,239.0	28.46	79.680	
4,900.0	4,826.7	5,354.6	5,165.1	16.5	25.2	-88.88	2,321.2	586.4	2,250.1	2,221.1	29.03	77.501	
5,000.0	4,924.8	5,406.0	5,215.9	16.9	25.4	-89.18	2,313.4	585.5	2,234.6	2,205.0	29.58	75.537	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,465.3	5,274.7	17.2	25.5	-89.53	2,305.5	584.5	2,221.1	2,191.0	30.16	73.654	
5,200.0	5,121.0	5,522.7	5,331.6	17.6	25.7	-89.86	2,299.0	583.7	2,209.7	2,179.0	30.72	71.927	
5,300.0	5,219.1	5,577.0	5,385.7	18.0	25.8	-90.17	2,293.8	582.9	2,200.1	2,168.8	31.28	70.347	
5,400.0	5,317.2	5,641.6	5,450.1	18.4	25.9	-90.54	2,288.6	581.8	2,192.4	2,160.5	31.86	68.807	
5,500.0	5,415.3	5,705.7	5,514.1	18.8	26.0	-90.92	2,284.5	580.5	2,186.6	2,154.1	32.45	67.381	
5,600.0	5,513.4	5,773.8	5,582.0	19.2	26.1	-91.32	2,281.2	579.1	2,182.3	2,149.3	33.05	66.032	
5,700.0	5,611.5	5,843.9	5,652.1	19.6	26.1	-91.72	2,278.6	577.5	2,179.5	2,145.9	33.65	64.769	
5,800.0	5,709.6	5,919.0	5,727.1	19.9	26.2	-92.16	2,276.9	575.8	2,178.2	2,144.0	34.27	63.568	
5,857.2	5,765.7	5,959.2	5,767.4	20.2	26.3	-92.39	2,276.3	574.8	2,178.0	2,143.4	34.61	62.930	
5,900.0	5,807.7	5,993.5	5,801.6	20.3	26.3	-92.59	2,275.9	574.0	2,178.1	2,143.3	34.88	62.444	
6,000.0	5,905.8	6,073.3	5,881.4	20.7	26.3	-93.05	2,275.5	571.8	2,179.1	2,143.6	35.51	61.359	
6,100.0	6,003.9	6,180.0	5,988.0	21.1	26.4	-93.67	2,275.3	568.9	2,180.6	2,144.3	36.22	60.207	
6,200.0	6,102.0	6,288.4	6,096.4	21.5	26.5	-94.28	2,274.5	566.9	2,181.6	2,144.7	36.91	59.107	
6,300.0	6,200.1	6,382.5	6,190.5	21.9	26.6	-94.79	2,273.8	565.7	2,182.8	2,145.2	37.55	58.137	
6,400.0	6,298.2	6,473.2	6,281.2	22.3	26.7	-95.27	2,273.5	564.9	2,184.3	2,146.2	38.17	57.231	
6,500.0	6,396.3	6,560.0	6,368.0	22.6	26.7	-95.73	2,273.6	564.1	2,186.5	2,147.8	38.78	56.388	
6,600.0	6,494.4	6,652.1	6,460.1	23.0	26.8	-96.22	2,274.0	563.1	2,189.4	2,150.0	39.40	55.568	
6,700.0	6,592.5	6,749.6	6,557.5	23.4	26.9	-96.74	2,274.6	561.8	2,192.5	2,152.4	40.04	54.760	
6,800.0	6,690.6	6,839.4	6,647.3	23.8	26.9	-97.22	2,275.1	560.4	2,195.9	2,155.2	40.66	54.011	
6,900.0	6,788.7	6,926.4	6,734.4	24.2	27.0	-97.69	2,276.0	558.8	2,200.0	2,158.7	41.27	53.312	
7,000.0	6,886.8	7,013.2	6,821.1	24.6	27.1	-98.16	2,277.3	557.0	2,204.7	2,162.9	41.87	52.652	
7,068.1	6,953.6	7,072.1	6,880.0	24.8	27.1	-98.48	2,278.4	555.6	2,208.4	2,166.1	42.29	52.225	
7,100.0	6,984.9	7,099.8	6,907.6	25.0	27.1	-83.63	2,279.0	555.0	2,209.3	2,166.8	42.56	51.912	
7,150.0	7,033.5	7,159.3	6,967.2	25.2	27.2	-66.20	2,280.2	553.5	2,207.5	2,164.6	42.90	51.451	
7,200.0	7,081.4	7,229.7	7,037.5	25.4	27.2	-55.38	2,280.8	551.4	2,201.1	2,157.9	43.13	51.033	
7,250.0	7,128.3	7,295.6	7,103.4	25.6	27.3	-48.84	2,280.6	549.0	2,190.2	2,147.0	43.20	50.699	
7,300.0	7,173.7	7,344.9	7,152.7	25.8	27.4	-44.82	2,280.2	547.3	2,175.3	2,132.2	43.08	50.491	
7,350.0	7,217.2	7,392.2	7,199.9	26.1	27.4	-42.51	2,279.7	545.7	2,156.5	2,113.6	42.85	50.323	
7,400.0	7,258.7	7,437.1	7,244.8	26.3	27.5	-41.42	2,279.2	544.3	2,134.0	2,091.5	42.55	50.159	
7,450.0	7,297.7	7,476.3	7,284.0	26.6	27.5	-41.23	2,278.8	543.1	2,108.2	2,066.0	42.18	49.976	
7,500.0	7,334.0	7,509.5	7,317.1	26.9	27.5	-41.81	2,278.4	542.3	2,079.2	2,037.4	41.81	49.728	
7,550.0	7,367.2	7,540.0	7,347.6	27.2	27.6	-43.15	2,278.2	541.5	2,047.4	2,005.9	41.51	49.326	
7,600.0	7,397.2	7,567.7	7,375.3	27.5	27.6	-45.26	2,278.0	540.9	2,012.9	1,971.6	41.34	48.696	
7,650.0	7,423.7	7,592.2	7,399.8	27.8	27.6	-48.23	2,277.9	540.4	1,976.1	1,934.7	41.37	47.766	
7,700.0	7,446.5	7,613.4	7,421.0	28.2	27.6	-52.14	2,277.9	540.1	1,937.2	1,895.5	41.68	46.478	
7,750.0	7,465.4	7,631.0	7,438.6	28.6	27.6	-57.13	2,277.9	539.8	1,896.6	1,854.3	42.31	44.830	
7,800.0	7,480.4	7,645.5	7,453.1	29.0	27.7	-63.34	2,277.9	539.6	1,854.5	1,811.3	43.24	42.889	
7,850.0	7,491.1	7,656.0	7,463.6	29.3	27.7	-70.80	2,277.9	539.4	1,811.3	1,766.9	44.36	40.835	
7,900.0	7,497.7	7,662.4	7,470.0	29.8	27.7	-79.39	2,277.9	539.3	1,767.3	1,721.9	45.43	38.899	
7,951.9	7,500.0	7,664.6	7,472.3	30.2	27.7	-89.14	2,277.9	539.3	1,721.2	1,675.0	46.22	37.240	
8,000.0	7,500.0	7,664.7	7,472.3	30.6	27.7	-89.14	2,277.9	539.3	1,678.4	1,631.6	46.87	35.809	
8,100.0	7,500.0	7,664.8	7,472.4	31.5	27.7	-89.15	2,277.9	539.3	1,590.6	1,542.3	48.27	32.949	
8,200.0	7,500.0	7,664.8	7,472.4	32.5	27.7	-89.15	2,277.9	539.3	1,504.2	1,454.5	49.73	30.251	
8,300.0	7,500.0	7,664.9	7,472.5	33.6	27.7	-89.16	2,277.9	539.3	1,419.7	1,368.4	51.22	27.719	
8,400.0	7,500.0	7,665.0	7,472.6	34.7	27.7	-89.16	2,277.9	539.3	1,337.2	1,284.5	52.74	25.355	
8,500.0	7,500.0	7,665.0	7,472.7	35.9	27.7	-89.17	2,277.9	539.3	1,257.4	1,203.1	54.29	23.159	
8,551.9	7,500.0	7,665.1	7,472.7	36.5	27.7	-89.17	2,277.9	539.3	1,217.1	1,162.0	55.11	22.086	
8,600.0	7,500.0	7,665.1	7,472.7	37.1	27.7	-89.17	2,277.9	539.3	1,180.6	1,124.7	55.87	21.132	
8,700.0	7,500.0	7,665.2	7,472.8	38.3	27.7	-89.18	2,277.9	539.3	1,107.5	1,050.0	57.46	19.274	
8,800.0	7,500.0	7,665.3	7,472.9	39.6	27.7	-89.18	2,277.9	539.3	1,038.9	979.8	59.07	17.587	
8,900.0	7,500.0	7,665.3	7,473.0	40.9	27.7	-89.19	2,277.9	539.3	975.7	915.0	60.70	16.075	
9,000.0	7,500.0	7,665.4	7,473.0	42.3	27.7	-89.20	2,277.9	539.3	919.1	856.8	62.33	14.745	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
9,100.0	7,500.0	7,665.5	7,473.1	43.7	27.7	-89.20	2,277.9	539.3	870.4	806.4	63.98	13.603	
9,200.0	7,500.0	7,665.6	7,473.2	45.1	27.7	-89.21	2,277.9	539.3	830.8	765.2	65.64	12.658	
9,300.0	7,500.0	7,665.7	7,473.3	46.5	27.7	-89.21	2,277.9	539.3	801.9	734.6	67.30	11.915	
9,400.0	7,500.0	7,665.7	7,473.4	48.0	27.7	-89.22	2,277.9	539.3	784.7	715.8	68.98	11.377	
9,486.2	7,500.0	7,665.8	7,473.4	49.3	27.7	-89.22	2,277.9	539.3	780.0	709.6	70.42	11.076 CC	
9,500.0	7,500.0	7,665.8	7,473.4	49.5	27.7	-89.22	2,277.9	539.3	780.1	709.4	70.66	11.041 ES	
9,551.9	7,500.0	7,665.9	7,473.5	50.2	27.7	-89.23	2,277.9	539.3	782.7	711.2	71.53	10.943	
9,600.0	7,500.0	7,665.9	7,473.5	51.0	27.7	-89.23	2,277.9	539.3	788.0	715.9	72.11	10.928 SF	
9,700.0	7,500.0	7,666.0	7,473.6	52.4	27.7	-89.24	2,277.9	539.3	806.9	733.6	73.31	11.007	
9,800.0	7,500.0	7,666.2	7,473.8	53.9	27.7	-89.26	2,277.9	539.3	835.7	761.2	74.49	11.219	
9,900.0	7,500.0	7,666.3	7,473.9	55.4	27.7	-89.27	2,277.9	539.3	873.5	797.9	75.66	11.546	
10,000.0	7,500.0	7,666.5	7,474.1	56.9	27.7	-89.29	2,277.9	539.3	919.2	842.4	76.81	11.967	
10,100.0	7,500.0	7,666.7	7,474.3	58.4	27.7	-89.32	2,277.9	539.3	971.6	893.6	77.94	12.465	
10,201.9	7,500.0	7,667.0	7,474.6	60.0	27.7	-89.34	2,277.9	539.3	1,030.8	951.7	79.08	13.034	
10,300.0	7,500.0	7,667.2	7,474.8	61.5	27.7	-89.36	2,277.9	539.3	1,093.1	1,012.3	80.76	13.535	
10,400.0	7,500.0	7,667.5	7,475.1	63.0	27.7	-89.38	2,277.9	539.3	1,161.7	1,079.3	82.48	14.085	
10,500.0	7,500.0	7,667.7	7,475.4	64.5	27.7	-89.40	2,277.9	539.2	1,234.7	1,150.5	84.20	14.664	
10,600.0	7,500.0	7,668.0	7,475.6	66.1	27.7	-89.41	2,277.9	539.2	1,311.1	1,225.2	85.92	15.261	
10,700.0	7,500.0	7,668.3	7,475.9	67.7	27.7	-89.43	2,277.9	539.2	1,390.6	1,303.0	87.64	15.868	
10,800.0	7,500.0	7,668.5	7,476.1	69.2	27.7	-89.45	2,277.9	539.2	1,472.6	1,383.2	89.36	16.479	
10,900.0	7,500.0	7,668.8	7,476.4	70.8	27.7	-89.47	2,277.9	539.2	1,556.7	1,465.6	91.09	17.089	
11,000.0	7,500.0	7,669.1	7,476.7	72.4	27.7	-89.49	2,277.9	539.2	1,642.6	1,549.8	92.82	17.696	
11,100.0	7,500.0	7,669.3	7,477.0	74.0	27.7	-89.51	2,277.9	539.2	1,730.0	1,635.4	94.55	18.296	
11,200.0	7,500.0	7,669.6	7,477.2	75.6	27.7	-89.53	2,277.9	539.2	1,818.7	1,722.4	96.29	18.888	
11,300.0	7,500.0	7,669.9	7,477.5	77.2	27.7	-89.55	2,277.9	539.2	1,908.5	1,810.5	98.02	19.470	
11,400.0	7,500.0	7,670.2	7,477.8	78.8	27.7	-89.57	2,277.9	539.2	1,999.3	1,899.5	99.75	20.042	
11,500.0	7,500.0	7,670.5	7,478.1	80.5	27.7	-89.59	2,277.9	539.2	2,090.9	1,989.4	101.49	20.601	
11,600.0	7,500.0	7,670.7	7,478.4	82.1	27.7	-89.61	2,277.9	539.2	2,183.2	2,080.0	103.23	21.149	
11,700.0	7,500.0	7,671.0	7,478.7	83.7	27.7	-89.63	2,277.9	539.2	2,276.2	2,171.3	104.97	21.685	
11,801.9	7,500.0	7,671.3	7,479.0	85.4	27.7	-89.65	2,277.9	539.2	2,371.6	2,264.8	106.74	22.218	
11,900.0	7,500.0	7,671.6	7,479.2	87.0	27.7	-89.65	2,277.9	539.2	2,464.2	2,355.1	109.04	22.599	
12,000.0	7,500.0	7,671.9	7,479.5	88.7	27.7	-89.65	2,277.9	539.2	2,559.5	2,448.1	111.35	22.986	
12,100.0	7,500.0	7,672.1	7,479.7	90.4	27.7	-89.65	2,277.9	539.2	2,655.6	2,542.0	113.63	23.371	
12,200.0	7,500.0	7,672.3	7,479.9	92.0	27.7	-89.64	2,277.9	539.2	2,752.5	2,636.6	115.88	23.753	
12,300.0	7,500.0	7,672.5	7,480.1	93.7	27.7	-89.63	2,277.9	539.2	2,849.9	2,731.8	118.10	24.132	
12,400.0	7,500.0	7,672.7	7,480.3	95.4	27.7	-89.61	2,277.9	539.2	2,947.9	2,827.7	120.28	24.509	
12,500.0	7,500.0	7,672.8	7,480.4	97.1	27.7	-89.59	2,277.9	539.2	3,046.4	2,924.0	122.43	24.882	
12,600.0	7,500.0	7,672.9	7,480.5	98.9	27.7	-89.55	2,277.9	539.2	3,145.2	3,020.6	124.56	25.251	
12,700.0	7,500.0	7,673.0	7,480.6	100.6	27.7	-89.50	2,277.9	539.2	3,244.3	3,117.7	126.65	25.617	
12,806.4	7,500.0	7,673.0	7,480.6	102.4	27.7	-89.42	2,277.9	539.2	3,350.1	3,221.3	128.83	26.003	
12,900.0	7,500.0	7,673.1	7,480.7	104.0	27.7	-89.43	2,277.9	539.2	3,443.2	3,312.8	130.47	26.391	
13,000.0	7,500.0	7,673.1	7,480.7	105.8	27.7	-89.43	2,277.9	539.2	3,542.8	3,410.6	132.21	26.796	
13,100.0	7,500.0	7,673.1	7,480.8	107.5	27.7	-89.44	2,277.9	539.2	3,642.4	3,508.4	133.96	27.190	
13,200.0	7,500.0	7,673.2	7,480.8	109.2	27.7	-89.44	2,277.9	539.2	3,742.0	3,606.3	135.71	27.574	
13,300.0	7,500.0	7,673.2	7,480.8	111.0	27.7	-89.45	2,277.9	539.2	3,841.6	3,704.1	137.45	27.948	
13,400.0	7,500.0	7,673.3	7,480.9	112.7	27.7	-89.46	2,277.9	539.2	3,941.2	3,802.0	139.20	28.313	
13,500.0	7,500.0	7,673.3	7,480.9	114.5	27.7	-89.47	2,277.9	539.2	4,040.9	3,899.9	140.95	28.669	
13,600.0	7,500.0	7,673.3	7,481.0	116.2	27.7	-89.47	2,277.9	539.2	4,140.6	3,997.9	142.70	29.016	
13,700.0	7,500.0	7,673.4	7,481.0	117.9	27.7	-89.48	2,277.9	539.2	4,240.2	4,095.8	144.45	29.355	
13,800.0	7,500.0	7,673.4	7,481.0	119.7	27.7	-89.49	2,277.9	539.2	4,339.9	4,193.8	146.20	29.686	
13,900.0	7,500.0	7,673.5	7,481.1	121.4	27.7	-89.49	2,277.9	539.2	4,439.7	4,291.7	147.94	30.009	
14,000.0	7,500.0	7,673.5	7,481.1	123.1	27.7	-89.50	2,277.9	539.2	4,539.4	4,389.7	149.69	30.325	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU													Offset Well Error:	0.0 ft
Survey Program: 76-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
14,100.0	7,500.0	7,673.5	7,481.2	124.9	27.7	-89.51	2,277.9	539.2	4,639.1	4,487.7	151.44	30.633		
14,200.0	7,500.0	7,673.6	7,481.2	126.6	27.7	-89.52	2,277.9	539.2	4,738.9	4,585.7	153.19	30.934		
14,300.0	7,500.0	7,673.6	7,481.2	128.4	27.7	-89.52	2,277.9	539.2	4,838.6	4,683.7	154.94	31.228		
14,335.9	7,500.0	7,673.6	7,481.3	129.0	27.7	-89.53	2,277.9	539.2	4,874.4	4,718.9	155.57	31.333		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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
8,300.0	7,500.0	7,453.0	7,453.0	33.6	13.0	-90.00	6,294.0	671.3	5,248.0	5,210.6	37.35	140.505	
8,400.0	7,500.0	7,453.0	7,453.0	34.7	13.0	-90.00	6,294.0	671.3	5,148.8	5,109.9	38.87	132.450	
8,500.0	7,500.0	7,453.0	7,453.0	35.9	13.0	-90.00	6,294.0	671.3	5,049.7	5,009.3	40.42	124.917	
8,551.9	7,500.0	7,453.0	7,453.0	36.5	13.0	-90.00	6,294.0	671.3	4,998.3	4,957.1	41.24	121.204	
8,600.0	7,500.0	7,453.0	7,453.0	37.1	13.0	-90.00	6,294.0	671.3	4,950.7	4,908.7	42.00	117.877	
8,700.0	7,500.0	7,453.0	7,453.0	38.3	13.0	-90.00	6,294.0	671.3	4,851.6	4,808.0	43.59	111.296	
8,800.0	7,500.0	7,453.0	7,453.0	39.6	13.0	-90.00	6,294.0	671.3	4,752.6	4,707.4	45.20	105.141	
8,900.0	7,500.0	7,453.0	7,453.0	40.9	13.0	-90.00	6,294.0	671.3	4,653.7	4,606.9	46.83	99.381	
9,000.0	7,500.0	7,453.0	7,453.0	42.3	13.0	-90.00	6,294.0	671.3	4,554.8	4,506.4	48.46	93.983	
9,100.0	7,500.0	7,453.0	7,453.0	43.7	13.0	-90.00	6,294.0	671.3	4,456.0	4,405.9	50.11	88.921	
9,200.0	7,500.0	7,453.0	7,453.0	45.1	13.0	-90.00	6,294.0	671.3	4,357.2	4,305.4	51.77	84.166	
9,300.0	7,500.0	7,453.0	7,453.0	46.5	13.0	-90.00	6,294.0	671.3	4,258.4	4,205.0	53.43	79.696	
9,400.0	7,500.0	7,453.0	7,453.0	48.0	13.0	-90.00	6,294.0	671.3	4,159.8	4,104.7	55.11	75.486	
9,500.0	7,500.0	7,453.0	7,453.0	49.5	13.0	-90.00	6,294.0	671.3	4,061.2	4,004.4	56.79	71.518	
9,551.9	7,500.0	7,453.0	7,453.0	50.2	13.0	-90.00	6,294.0	671.3	4,010.0	3,952.4	57.66	69.547	
9,600.0	7,500.0	7,453.0	7,453.0	51.0	13.0	-90.00	6,294.0	671.3	3,962.6	3,904.3	58.29	67.983	
9,700.0	7,500.0	7,453.0	7,453.0	52.4	13.0	-90.00	6,294.0	671.3	3,863.8	3,804.2	59.59	64.840	
9,800.0	7,500.0	7,453.0	7,453.0	53.9	13.0	-90.00	6,294.0	671.3	3,764.9	3,704.0	60.88	61.837	
9,900.0	7,500.0	7,453.0	7,453.0	55.4	13.0	-90.00	6,294.0	671.3	3,665.7	3,603.6	62.17	58.964	
10,000.0	7,500.0	7,453.0	7,453.0	56.9	13.0	-90.00	6,294.0	671.3	3,566.4	3,503.0	63.44	56.214	
10,100.0	7,500.0	7,453.0	7,453.0	58.4	13.0	-90.00	6,294.0	671.3	3,466.9	3,402.2	64.71	53.579	
10,201.9	7,500.0	7,453.0	7,453.0	60.0	13.0	-90.00	6,294.0	671.3	3,365.4	3,299.4	65.98	51.005	
10,300.0	7,500.0	7,453.0	7,453.0	61.5	13.0	-90.00	6,294.0	671.3	3,267.6	3,200.0	67.66	48.294	
10,400.0	7,500.0	7,453.0	7,453.0	63.0	13.0	-90.00	6,294.0	671.3	3,168.0	3,098.6	69.38	45.664	
10,500.0	7,500.0	7,453.0	7,453.0	64.5	13.0	-90.00	6,294.0	671.3	3,068.4	2,997.3	71.09	43.160	
10,600.0	7,500.0	7,453.0	7,453.0	66.1	13.0	-90.00	6,294.0	671.3	2,968.8	2,895.9	72.81	40.772	
10,700.0	7,500.0	7,453.0	7,453.0	67.7	13.0	-90.00	6,294.0	671.3	2,869.2	2,794.6	74.54	38.494	
10,800.0	7,500.0	7,453.0	7,453.0	69.2	13.0	-90.00	6,294.0	671.3	2,769.6	2,693.4	76.26	36.318	
10,900.0	7,500.0	7,453.0	7,453.0	70.8	13.0	-90.00	6,294.0	671.3	2,670.1	2,592.1	77.99	34.238	
11,000.0	7,500.0	7,453.0	7,453.0	72.4	13.0	-90.00	6,294.0	671.3	2,570.6	2,490.9	79.72	32.248	
11,100.0	7,500.0	7,453.0	7,453.0	74.0	13.0	-90.00	6,294.0	671.3	2,471.2	2,389.8	81.45	30.342	
11,200.0	7,500.0	7,453.0	7,453.0	75.6	13.0	-90.00	6,294.0	671.3	2,371.8	2,288.7	83.18	28.515	
11,300.0	7,500.0	7,453.0	7,453.0	77.2	13.0	-90.00	6,294.0	671.3	2,272.5	2,187.6	84.91	26.763	
11,400.0	7,500.0	7,453.0	7,453.0	78.8	13.0	-90.00	6,294.0	671.3	2,173.2	2,086.6	86.65	25.081	
11,500.0	7,500.0	7,453.0	7,453.0	80.5	13.0	-90.00	6,294.0	671.3	2,074.0	1,985.6	88.38	23.466	
11,600.0	7,500.0	7,453.0	7,453.0	82.1	13.0	-90.00	6,294.0	671.3	1,974.9	1,884.8	90.12	21.914	
11,700.0	7,500.0	7,453.0	7,453.0	83.7	13.0	-90.00	6,294.0	671.3	1,875.9	1,784.0	91.86	20.421	
11,801.9	7,500.0	7,453.0	7,453.0	85.4	13.0	-90.00	6,294.0	671.3	1,775.1	1,681.5	93.63	18.958	
11,900.0	7,500.0	7,453.0	7,453.0	87.0	13.0	-90.00	6,294.0	671.3	1,678.3	1,582.5	95.80	17.520	
12,000.0	7,500.0	7,453.0	7,453.0	88.7	13.0	-90.00	6,294.0	671.3	1,580.2	1,482.2	97.98	16.128	
12,100.0	7,500.0	7,453.0	7,453.0	90.4	13.0	-90.00	6,294.0	671.3	1,482.7	1,382.5	100.13	14.807	
12,200.0	7,500.0	7,453.0	7,453.0	92.0	13.0	-90.00	6,294.0	671.3	1,385.9	1,283.7	102.27	13.552	
12,300.0	7,500.0	7,453.0	7,453.0	93.7	13.0	-90.00	6,294.0	671.3	1,290.2	1,185.8	104.37	12.362	
12,400.0	7,500.0	7,453.0	7,453.0	95.4	13.0	-90.00	6,294.0	671.3	1,195.8	1,089.3	106.45	11.233	
12,500.0	7,500.0	7,453.0	7,453.0	97.1	13.0	-90.00	6,294.0	671.3	1,103.0	994.5	108.50	10.165	
12,600.0	7,500.0	7,453.0	7,453.0	98.9	13.0	-90.00	6,294.0	671.3	1,012.3	901.8	110.53	9.159	
12,700.0	7,500.0	7,453.0	7,453.0	100.6	13.0	-90.00	6,294.0	671.3	924.4	811.9	112.54	8.215	
12,806.4	7,500.0	7,453.0	7,453.0	102.4	13.0	-90.00	6,294.0	671.3	835.0	720.4	114.64	7.284	
12,900.0	7,500.0	7,453.0	7,453.0	104.0	13.0	-90.00	6,294.0	671.3	760.5	644.3	116.27	6.541	
13,000.0	7,500.0	7,453.0	7,453.0	105.8	13.0	-90.00	6,294.0	671.3	686.1	568.1	118.02	5.814	
13,100.0	7,500.0	7,453.0	7,453.0	107.5	13.0	-90.00	6,294.0	671.3	619.0	499.2	119.77	5.168	
13,200.0	7,500.0	7,453.0	7,453.0	109.2	13.0	-90.00	6,294.0	671.3	561.7	440.2	121.51	4.623	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,300.0	7,500.0	7,453.0	7,453.0	111.0	13.0	-90.00	6,294.0	671.3	517.6	394.4	123.26	4.199	
13,400.0	7,500.0	7,453.0	7,453.0	112.7	13.0	-90.00	6,294.0	671.3	490.2	365.2	125.01	3.921	
13,488.1	7,500.0	7,453.0	7,453.0	114.2	13.0	-90.00	6,294.0	671.3	482.2	355.7	126.55	3.811 CC	
13,500.0	7,500.0	7,453.0	7,453.0	114.5	13.0	-90.00	6,294.0	671.3	482.4	355.6	126.76	3.806 ES, SF	
13,600.0	7,500.0	7,453.0	7,453.0	116.2	13.0	-90.00	6,294.0	671.3	495.0	366.5	128.50	3.852	
13,700.0	7,500.0	7,453.0	7,453.0	117.9	13.0	-90.00	6,294.0	671.3	526.7	396.5	130.25	4.044	
13,800.0	7,500.0	7,453.0	7,453.0	119.7	13.0	-90.00	6,294.0	671.3	574.3	442.3	132.00	4.351	
13,900.0	7,500.0	7,453.0	7,453.0	121.4	13.0	-90.00	6,294.0	671.3	634.2	500.4	133.75	4.742	
14,000.0	7,500.0	7,453.0	7,453.0	123.1	13.0	-90.00	6,294.0	671.3	703.3	567.8	135.50	5.190	
14,100.0	7,500.0	7,453.0	7,453.0	124.9	13.0	-90.00	6,294.0	671.3	779.1	641.8	137.25	5.676	
14,200.0	7,500.0	7,453.0	7,453.0	126.6	13.0	-90.00	6,294.0	671.3	859.8	720.9	139.00	6.186	
14,300.0	7,500.0	7,453.0	7,453.0	128.4	13.0	-90.00	6,294.0	671.3	944.3	803.6	140.75	6.709	
14,335.9	7,500.0	7,453.0	7,453.0	129.0	13.0	-90.00	6,294.0	671.3	975.3	834.0	141.38	6.899	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S										Offset Site Error:		0.0 ft		
Survey Program: 8200-Geolink MWD										Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,600.0	7,397.2	7,354.2	7,354.2	27.5	12.8	-35.30	5,531.2	42.0	5,272.4	5,242.3	30.13	174.992		
7,650.0	7,423.7	7,380.7	7,380.7	27.8	12.9	-37.37	5,531.2	42.0	5,232.9	5,203.7	29.19	179.267		
7,700.0	7,446.5	7,403.5	7,403.5	28.2	12.9	-40.46	5,531.2	42.0	5,191.2	5,162.7	28.50	182.140		
7,750.0	7,465.4	7,422.4	7,422.4	28.6	13.0	-44.91	5,531.2	42.0	5,147.5	5,119.2	28.21	182.450		
7,800.0	7,480.4	7,437.4	7,437.4	29.0	13.0	-51.25	5,531.2	42.0	5,102.1	5,073.6	28.50	179.021		
7,850.0	7,491.1	7,448.1	7,448.1	29.3	13.0	-60.29	5,531.2	42.0	5,055.5	5,026.1	29.49	171.449		
7,900.0	7,497.7	7,454.7	7,454.7	29.8	13.0	-72.91	5,531.2	42.0	5,008.0	4,977.0	31.02	161.425		
7,951.9	7,500.0	7,457.0	7,457.0	30.2	13.0	-90.00	5,531.2	42.0	4,958.1	4,925.8	32.36	153.206		
8,000.0	7,500.0	7,457.0	7,457.0	30.6	13.0	-90.00	5,531.2	42.0	4,911.7	4,878.7	33.02	148.768		
8,100.0	7,500.0	7,457.0	7,457.0	31.5	13.0	-90.00	5,531.2	42.0	4,815.4	4,781.0	34.42	139.912		
8,200.0	7,500.0	7,457.0	7,457.0	32.5	13.0	-90.00	5,531.2	42.0	4,719.2	4,683.4	35.87	131.575		
8,300.0	7,500.0	7,457.0	7,457.0	33.6	13.0	-90.00	5,531.2	42.0	4,623.2	4,585.9	37.36	123.756		
8,400.0	7,500.0	7,457.0	7,457.0	34.7	13.0	-90.00	5,531.2	42.0	4,527.4	4,488.5	38.88	116.443		
8,500.0	7,500.0	7,457.0	7,457.0	35.9	13.0	-90.00	5,531.2	42.0	4,431.7	4,391.3	40.43	109.611		
8,551.9	7,500.0	7,457.0	7,457.0	36.5	13.0	-90.00	5,531.2	42.0	4,382.2	4,340.9	41.25	106.245		
8,600.0	7,500.0	7,457.0	7,457.0	37.1	13.0	-90.00	5,531.2	42.0	4,336.3	4,294.3	42.01	103.231		
8,700.0	7,500.0	7,457.0	7,457.0	38.3	13.0	-90.00	5,531.2	42.0	4,241.0	4,197.4	43.60	97.273		
8,800.0	7,500.0	7,457.0	7,457.0	39.6	13.0	-90.00	5,531.2	42.0	4,146.0	4,100.8	45.21	91.706		
8,900.0	7,500.0	7,457.0	7,457.0	40.9	13.0	-90.00	5,531.2	42.0	4,051.2	4,004.4	46.83	86.501		
9,000.0	7,500.0	7,457.0	7,457.0	42.3	13.0	-90.00	5,531.2	42.0	3,956.7	3,908.2	48.47	81.629		
9,100.0	7,500.0	7,457.0	7,457.0	43.7	13.0	-90.00	5,531.2	42.0	3,862.4	3,812.3	50.12	77.065		
9,200.0	7,500.0	7,457.0	7,457.0	45.1	13.0	-90.00	5,531.2	42.0	3,768.4	3,716.7	51.78	72.784		
9,300.0	7,500.0	7,457.0	7,457.0	46.5	13.0	-90.00	5,531.2	42.0	3,674.8	3,621.4	53.44	68.764		
9,400.0	7,500.0	7,457.0	7,457.0	48.0	13.0	-90.00	5,531.2	42.0	3,581.5	3,526.4	55.11	64.984		
9,500.0	7,500.0	7,457.0	7,457.0	49.5	13.0	-90.00	5,531.2	42.0	3,488.6	3,431.8	56.79	61.427		
9,551.9	7,500.0	7,457.0	7,457.0	50.2	13.0	-90.00	5,531.2	42.0	3,440.5	3,382.8	57.67	59.663		
9,600.0	7,500.0	7,457.0	7,457.0	51.0	13.0	-90.00	5,531.2	42.0	3,396.0	3,337.7	58.29	58.255		
9,700.0	7,500.0	7,457.0	7,457.0	52.4	13.0	-90.00	5,531.2	42.0	3,303.2	3,243.6	59.60	55.425		
9,800.0	7,500.0	7,457.0	7,457.0	53.9	13.0	-90.00	5,531.2	42.0	3,210.2	3,149.3	60.89	52.721		
9,900.0	7,500.0	7,457.0	7,457.0	55.4	13.0	-90.00	5,531.2	42.0	3,117.0	3,054.8	62.18	50.132		
10,000.0	7,500.0	7,457.0	7,457.0	56.9	13.0	-90.00	5,531.2	42.0	3,023.6	2,960.1	63.45	47.653		
10,100.0	7,500.0	7,457.0	7,457.0	58.4	13.0	-90.00	5,531.2	42.0	2,930.0	2,865.3	64.71	45.276		
10,201.9	7,500.0	7,457.0	7,457.0	60.0	13.0	-90.00	5,531.2	42.0	2,834.4	2,768.4	65.99	42.952		
10,300.0	7,500.0	7,457.0	7,457.0	61.5	13.0	-90.00	5,531.2	42.0	2,742.4	2,674.8	67.67	40.528		
10,400.0	7,500.0	7,457.0	7,457.0	63.0	13.0	-90.00	5,531.2	42.0	2,649.2	2,579.8	69.38	38.183		
10,500.0	7,500.0	7,457.0	7,457.0	64.5	13.0	-90.00	5,531.2	42.0	2,556.5	2,485.4	71.10	35.956		
10,600.0	7,500.0	7,457.0	7,457.0	66.1	13.0	-90.00	5,531.2	42.0	2,464.3	2,391.5	72.82	33.841		
10,700.0	7,500.0	7,457.0	7,457.0	67.7	13.0	-90.00	5,531.2	42.0	2,372.8	2,298.2	74.54	31.831		
10,800.0	7,500.0	7,457.0	7,457.0	69.2	13.0	-90.00	5,531.2	42.0	2,281.9	2,205.7	76.27	29.920		
10,900.0	7,500.0	7,457.0	7,457.0	70.8	13.0	-90.00	5,531.2	42.0	2,191.9	2,113.9	77.99	28.104		
11,000.0	7,500.0	7,457.0	7,457.0	72.4	13.0	-90.00	5,531.2	42.0	2,102.8	2,023.1	79.72	26.376		
11,100.0	7,500.0	7,457.0	7,457.0	74.0	13.0	-90.00	5,531.2	42.0	2,014.7	1,933.2	81.45	24.734		
11,200.0	7,500.0	7,457.0	7,457.0	75.6	13.0	-90.00	5,531.2	42.0	1,927.7	1,844.6	83.19	23.174		
11,300.0	7,500.0	7,457.0	7,457.0	77.2	13.0	-90.00	5,531.2	42.0	1,842.1	1,757.2	84.92	21.693		
11,400.0	7,500.0	7,457.0	7,457.0	78.8	13.0	-90.00	5,531.2	42.0	1,758.0	1,671.4	86.65	20.288		
11,500.0	7,500.0	7,457.0	7,457.0	80.5	13.0	-90.00	5,531.2	42.0	1,675.7	1,587.3	88.39	18.958		
11,600.0	7,500.0	7,457.0	7,457.0	82.1	13.0	-90.00	5,531.2	42.0	1,595.4	1,505.2	90.13	17.701		
11,700.0	7,500.0	7,457.0	7,457.0	83.7	13.0	-90.00	5,531.2	42.0	1,517.4	1,425.5	91.87	16.517		
11,801.9	7,500.0	7,457.0	7,457.0	85.4	13.0	-90.00	5,531.2	42.0	1,440.7	1,347.1	93.64	15.386		
11,900.0	7,500.0	7,457.0	7,457.0	87.0	13.0	-90.00	5,531.2	42.0	1,370.6	1,274.8	95.80	14.307		
12,000.0	7,500.0	7,457.0	7,457.0	88.7	13.0	-90.00	5,531.2	42.0	1,304.2	1,206.2	97.98	13.310		
12,100.0	7,500.0	7,457.0	7,457.0	90.4	13.0	-90.00	5,531.2	42.0	1,243.7	1,143.6	100.14	12.419		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S													Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,200.0	7,500.0	7,457.0	7,457.0	92.0	13.0	-90.00	5,531.2	42.0	1,190.0	1,087.8	102.27	11.636		
12,300.0	7,500.0	7,457.0	7,457.0	93.7	13.0	-90.00	5,531.2	42.0	1,144.2	1,039.8	104.38	10.962		
12,400.0	7,500.0	7,457.0	7,457.0	95.4	13.0	-90.00	5,531.2	42.0	1,107.2	1,000.7	106.46	10.400		
12,500.0	7,500.0	7,457.0	7,457.0	97.1	13.0	-90.00	5,531.2	42.0	1,079.9	971.4	108.51	9.952		
12,600.0	7,500.0	7,457.0	7,457.0	98.9	13.0	-90.00	5,531.2	42.0	1,063.1	952.5	110.54	9.617		
12,700.0	7,500.0	7,457.0	7,457.0	100.6	13.0	-90.00	5,531.2	42.0	1,057.3	944.7	112.54	9.394		
12,702.1	7,500.0	7,457.0	7,457.0	100.6	13.0	-90.00	5,531.2	42.0	1,057.3	944.7	112.59	9.391 CC, ES		
12,806.4	7,500.0	7,457.0	7,457.0	102.4	13.0	-90.00	5,531.2	42.0	1,063.3	948.7	114.65	9.275		
12,900.0	7,500.0	7,457.0	7,457.0	104.0	13.0	-90.00	5,531.2	42.0	1,078.2	962.0	116.28	9.273 SF		
13,000.0	7,500.0	7,457.0	7,457.0	105.8	13.0	-90.00	5,531.2	42.0	1,102.7	984.7	118.03	9.343		
13,100.0	7,500.0	7,457.0	7,457.0	107.5	13.0	-90.00	5,531.2	42.0	1,135.6	1,015.8	119.77	9.481		
13,200.0	7,500.0	7,457.0	7,457.0	109.2	13.0	-90.00	5,531.2	42.0	1,176.0	1,054.5	121.52	9.677		
13,300.0	7,500.0	7,457.0	7,457.0	111.0	13.0	-90.00	5,531.2	42.0	1,223.3	1,100.0	123.27	9.924		
13,400.0	7,500.0	7,457.0	7,457.0	112.7	13.0	-90.00	5,531.2	42.0	1,276.6	1,151.6	125.01	10.212		
13,500.0	7,500.0	7,457.0	7,457.0	114.5	13.0	-90.00	5,531.2	42.0	1,335.4	1,208.6	126.76	10.534		
13,600.0	7,500.0	7,457.0	7,457.0	116.2	13.0	-90.00	5,531.2	42.0	1,398.8	1,270.3	128.51	10.885		
13,700.0	7,500.0	7,457.0	7,457.0	117.9	13.0	-90.00	5,531.2	42.0	1,466.3	1,336.1	130.26	11.257		
13,800.0	7,500.0	7,457.0	7,457.0	119.7	13.0	-90.00	5,531.2	42.0	1,537.4	1,405.4	132.01	11.646		
13,900.0	7,500.0	7,457.0	7,457.0	121.4	13.0	-90.00	5,531.2	42.0	1,611.5	1,477.8	133.76	12.048		
14,000.0	7,500.0	7,457.0	7,457.0	123.1	13.0	-90.00	5,531.2	42.0	1,688.3	1,552.8	135.51	12.459		
14,100.0	7,500.0	7,457.0	7,457.0	124.9	13.0	-90.00	5,531.2	42.0	1,767.4	1,630.2	137.25	12.877		
14,200.0	7,500.0	7,457.0	7,457.0	126.6	13.0	-90.00	5,531.2	42.0	1,848.6	1,709.6	139.00	13.299		
14,300.0	7,500.0	7,457.0	7,457.0	128.4	13.0	-90.00	5,531.2	42.0	1,931.5	1,790.8	140.75	13.723		
14,335.9	7,500.0	7,457.0	7,457.0	129.0	13.0	-90.00	5,531.2	42.0	1,961.7	1,820.3	141.38	13.875		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
9,000.0	7,500.0	7,448.0	7,448.0	42.3	13.0	-90.00	6,883.8	41.4	5,255.5	5,207.0	48.46	108.461		
9,100.0	7,500.0	7,448.0	7,448.0	43.7	13.0	-90.00	6,883.8	41.4	5,158.8	5,108.7	50.10	102.963		
9,200.0	7,500.0	7,448.0	7,448.0	45.1	13.0	-90.00	6,883.8	41.4	5,062.1	5,010.4	51.76	97.800		
9,300.0	7,500.0	7,448.0	7,448.0	46.5	13.0	-90.00	6,883.8	41.4	4,965.7	4,912.2	53.43	92.946		
9,400.0	7,500.0	7,448.0	7,448.0	48.0	13.0	-90.00	6,883.8	41.4	4,869.3	4,814.2	55.10	88.376		
9,500.0	7,500.0	7,448.0	7,448.0	49.5	13.0	-90.00	6,883.8	41.4	4,773.1	4,716.3	56.78	84.069		
9,551.9	7,500.0	7,448.0	7,448.0	50.2	13.0	-90.00	6,883.8	41.4	4,723.3	4,665.6	57.65	81.930		
9,600.0	7,500.0	7,448.0	7,448.0	51.0	13.0	-90.00	6,883.8	41.4	4,677.0	4,618.8	58.28	80.252		
9,700.0	7,500.0	7,448.0	7,448.0	52.4	13.0	-90.00	6,883.8	41.4	4,580.7	4,521.1	59.58	76.881		
9,800.0	7,500.0	7,448.0	7,448.0	53.9	13.0	-90.00	6,883.8	41.4	4,484.1	4,423.2	60.88	73.659		
9,900.0	7,500.0	7,448.0	7,448.0	55.4	13.0	-90.00	6,883.8	41.4	4,387.1	4,324.9	62.16	70.578		
10,000.0	7,500.0	7,448.0	7,448.0	56.9	13.0	-90.00	6,883.8	41.4	4,289.9	4,226.4	63.43	67.627		
10,100.0	7,500.0	7,448.0	7,448.0	58.4	13.0	-90.00	6,883.8	41.4	4,192.4	4,127.7	64.70	64.799		
10,201.9	7,500.0	7,448.0	7,448.0	60.0	13.0	-90.00	6,883.8	41.4	4,092.7	4,026.8	65.97	62.036		
10,300.0	7,500.0	7,448.0	7,448.0	61.5	13.0	-90.00	6,883.8	41.4	3,996.7	3,929.1	67.65	59.077		
10,400.0	7,500.0	7,448.0	7,448.0	63.0	13.0	-90.00	6,883.8	41.4	3,899.0	3,829.6	69.37	56.208		
10,500.0	7,500.0	7,448.0	7,448.0	64.5	13.0	-90.00	6,883.8	41.4	3,801.4	3,730.3	71.08	53.477		
10,600.0	7,500.0	7,448.0	7,448.0	66.1	13.0	-90.00	6,883.8	41.4	3,703.8	3,631.0	72.80	50.874		
10,700.0	7,500.0	7,448.0	7,448.0	67.7	13.0	-90.00	6,883.8	41.4	3,606.5	3,532.0	74.53	48.392		
10,800.0	7,500.0	7,448.0	7,448.0	69.2	13.0	-90.00	6,883.8	41.4	3,509.3	3,433.0	76.25	46.022		
10,900.0	7,500.0	7,448.0	7,448.0	70.8	13.0	-90.00	6,883.8	41.4	3,412.2	3,334.2	77.98	43.758		
11,000.0	7,500.0	7,448.0	7,448.0	72.4	13.0	-90.00	6,883.8	41.4	3,315.3	3,235.6	79.71	41.594		
11,100.0	7,500.0	7,448.0	7,448.0	74.0	13.0	-90.00	6,883.8	41.4	3,218.6	3,137.2	81.44	39.523		
11,200.0	7,500.0	7,448.0	7,448.0	75.6	13.0	-90.00	6,883.8	41.4	3,122.1	3,039.0	83.17	37.539		
11,300.0	7,500.0	7,448.0	7,448.0	77.2	13.0	-90.00	6,883.8	41.4	3,025.9	2,941.0	84.90	35.639		
11,400.0	7,500.0	7,448.0	7,448.0	78.8	13.0	-90.00	6,883.8	41.4	2,929.9	2,843.2	86.64	33.817		
11,500.0	7,500.0	7,448.0	7,448.0	80.5	13.0	-90.00	6,883.8	41.4	2,834.1	2,745.8	88.37	32.070		
11,600.0	7,500.0	7,448.0	7,448.0	82.1	13.0	-90.00	6,883.8	41.4	2,738.7	2,648.6	90.11	30.392		
11,700.0	7,500.0	7,448.0	7,448.0	83.7	13.0	-90.00	6,883.8	41.4	2,643.6	2,551.8	91.85	28.782		
11,801.9	7,500.0	7,448.0	7,448.0	85.4	13.0	-90.00	6,883.8	41.4	2,547.1	2,453.5	93.62	27.206		
11,900.0	7,500.0	7,448.0	7,448.0	87.0	13.0	-90.00	6,883.8	41.4	2,454.9	2,359.1	95.79	25.629		
12,000.0	7,500.0	7,448.0	7,448.0	88.7	13.0	-90.00	6,883.8	41.4	2,362.0	2,264.1	97.97	24.110		
12,100.0	7,500.0	7,448.0	7,448.0	90.4	13.0	-90.00	6,883.8	41.4	2,270.5	2,170.3	100.13	22.676		
12,200.0	7,500.0	7,448.0	7,448.0	92.0	13.0	-90.00	6,883.8	41.4	2,180.4	2,078.2	102.26	21.323		
12,300.0	7,500.0	7,448.0	7,448.0	93.7	13.0	-90.00	6,883.8	41.4	2,092.1	1,987.7	104.36	20.046		
12,400.0	7,500.0	7,448.0	7,448.0	95.4	13.0	-90.00	6,883.8	41.4	2,005.7	1,899.3	106.44	18.844		
12,500.0	7,500.0	7,448.0	7,448.0	97.1	13.0	-90.00	6,883.8	41.4	1,921.7	1,813.2	108.49	17.712		
12,600.0	7,500.0	7,448.0	7,448.0	98.9	13.0	-90.00	6,883.8	41.4	1,840.2	1,729.7	110.52	16.650		
12,700.0	7,500.0	7,448.0	7,448.0	100.6	13.0	-90.00	6,883.8	41.4	1,761.7	1,649.2	112.53	15.656		
12,806.4	7,500.0	7,448.0	7,448.0	102.4	13.0	-90.00	6,883.8	41.4	1,682.1	1,567.4	114.63	14.674		
12,900.0	7,500.0	7,448.0	7,448.0	104.0	13.0	-90.00	6,883.8	41.4	1,615.1	1,498.9	116.27	13.892		
13,000.0	7,500.0	7,448.0	7,448.0	105.8	13.0	-90.00	6,883.8	41.4	1,546.7	1,428.7	118.01	13.106		
13,100.0	7,500.0	7,448.0	7,448.0	107.5	13.0	-90.00	6,883.8	41.4	1,481.9	1,362.1	119.76	12.374		
13,200.0	7,500.0	7,448.0	7,448.0	109.2	13.0	-90.00	6,883.8	41.4	1,421.1	1,299.6	121.50	11.696		
13,300.0	7,500.0	7,448.0	7,448.0	111.0	13.0	-90.00	6,883.8	41.4	1,365.0	1,241.7	123.25	11.075		
13,400.0	7,500.0	7,448.0	7,448.0	112.7	13.0	-90.00	6,883.8	41.4	1,314.1	1,189.1	125.00	10.513		
13,500.0	7,500.0	7,448.0	7,448.0	114.5	13.0	-90.00	6,883.8	41.4	1,269.0	1,142.2	126.75	10.012		
13,600.0	7,500.0	7,448.0	7,448.0	116.2	13.0	-90.00	6,883.8	41.4	1,230.4	1,101.9	128.49	9.576		
13,700.0	7,500.0	7,448.0	7,448.0	117.9	13.0	-90.00	6,883.8	41.4	1,199.0	1,068.7	130.24	9.206		
13,800.0	7,500.0	7,448.0	7,448.0	119.7	13.0	-90.00	6,883.8	41.4	1,175.2	1,043.2	131.99	8.904		
13,900.0	7,500.0	7,448.0	7,448.0	121.4	13.0	-90.00	6,883.8	41.4	1,159.6	1,025.9	133.74	8.671		
14,000.0	7,500.0	7,448.0	7,448.0	123.1	13.0	-90.00	6,883.8	41.4	1,152.6	1,017.1	135.49	8.507		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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											
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						
14,032.0	7,500.0	7,448.0	7,448.0	123.7	13.0	-90.00	6,883.8	41.4	1,152.1	1,016.1	136.05	8.468	CC, ES					
14,100.0	7,500.0	7,448.0	7,448.0	124.9	13.0	-90.00	6,883.8	41.4	1,154.1	1,016.9	137.24	8.410						
14,200.0	7,500.0	7,448.0	7,448.0	126.6	13.0	-90.00	6,883.8	41.4	1,164.3	1,025.3	138.99	8.377	SF					
14,300.0	7,500.0	7,448.0	7,448.0	128.4	13.0	-90.00	6,883.8	41.4	1,182.9	1,042.1	140.74	8.405						
14,335.9	7,500.0	7,448.0	7,448.0	129.0	13.0	-90.00	6,883.8	41.4	1,191.5	1,050.2	141.37	8.429						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
7,500.0	7,334.0	7,288.0	7,288.0	26.9	12.7	-14.80	5,577.5	1,363.3	5,247.7	5,217.1	30.54	171.832		
7,550.0	7,367.2	7,321.2	7,321.2	27.2	12.8	-13.68	5,577.5	1,363.3	5,210.9	5,182.0	28.93	180.106		
7,600.0	7,397.2	7,351.2	7,351.2	27.5	12.8	-12.80	5,577.5	1,363.3	5,171.3	5,144.1	27.21	190.025		
7,650.0	7,423.7	7,377.7	7,377.7	27.8	12.9	-12.10	5,577.5	1,363.3	5,129.2	5,103.8	25.42	201.777		
7,700.0	7,446.5	7,400.5	7,400.5	28.2	12.9	-11.53	5,577.5	1,363.3	5,084.9	5,061.3	23.60	215.499		
7,750.0	7,465.4	7,419.4	7,419.4	28.6	12.9	-11.07	5,577.5	1,363.3	5,038.8	5,017.0	21.80	231.186		
7,800.0	7,480.4	7,434.4	7,434.4	29.0	13.0	-10.64	5,577.5	1,363.3	4,991.1	4,971.1	20.08	248.510		
7,850.0	7,491.1	7,445.1	7,445.1	29.3	13.0	-10.15	5,577.5	1,363.3	4,942.4	4,923.8	18.54	266.580		
7,900.0	7,497.7	7,451.7	7,451.7	29.8	13.0	-9.11	5,577.5	1,363.3	4,892.8	4,875.6	17.23	284.040		
7,951.9	7,500.0	7,454.0	7,454.0	30.2	13.0	90.00	5,577.5	1,363.3	4,841.0	4,808.7	32.36	149.611		
8,000.0	7,500.0	7,454.0	7,454.0	30.6	13.0	90.00	5,577.5	1,363.3	4,792.9	4,759.9	33.01	145.192		
8,100.0	7,500.0	7,454.0	7,454.0	31.5	13.0	90.00	5,577.5	1,363.3	4,692.9	4,658.5	34.41	136.374		
8,200.0	7,500.0	7,454.0	7,454.0	32.5	13.0	90.00	5,577.5	1,363.3	4,592.9	4,557.0	35.86	128.071		
8,300.0	7,500.0	7,454.0	7,454.0	33.6	13.0	90.00	5,577.5	1,363.3	4,492.9	4,455.6	37.35	120.285		
8,400.0	7,500.0	7,454.0	7,454.0	34.7	13.0	90.00	5,577.5	1,363.3	4,392.9	4,354.0	38.88	113.000		
8,500.0	7,500.0	7,454.0	7,454.0	35.9	13.0	90.00	5,577.5	1,363.3	4,292.9	4,252.5	40.43	106.191		
8,551.9	7,500.0	7,454.0	7,454.0	36.5	13.0	90.00	5,577.5	1,363.3	4,241.0	4,199.8	41.24	102.836		
8,600.0	7,500.0	7,454.0	7,454.0	37.1	13.0	90.00	5,577.5	1,363.3	4,192.9	4,150.9	42.00	99.831		
8,700.0	7,500.0	7,454.0	7,454.0	38.3	13.0	90.00	5,577.5	1,363.3	4,092.9	4,049.3	43.59	93.887		
8,800.0	7,500.0	7,454.0	7,454.0	39.6	13.0	90.00	5,577.5	1,363.3	3,992.9	3,947.7	45.20	88.331		
8,900.0	7,500.0	7,454.0	7,454.0	40.9	13.0	90.00	5,577.5	1,363.3	3,892.9	3,846.1	46.83	83.131		
9,000.0	7,500.0	7,454.0	7,454.0	42.3	13.0	90.00	5,577.5	1,363.3	3,792.9	3,744.4	48.47	78.260		
9,100.0	7,500.0	7,454.0	7,454.0	43.7	13.0	90.00	5,577.5	1,363.3	3,692.9	3,642.8	50.11	73.691		
9,200.0	7,500.0	7,454.0	7,454.0	45.1	13.0	90.00	5,577.5	1,363.3	3,592.9	3,541.1	51.77	69.401		
9,300.0	7,500.0	7,454.0	7,454.0	46.5	13.0	90.00	5,577.5	1,363.3	3,492.9	3,439.5	53.44	65.367		
9,400.0	7,500.0	7,454.0	7,454.0	48.0	13.0	90.00	5,577.5	1,363.3	3,392.9	3,337.8	55.11	61.568		
9,500.0	7,500.0	7,454.0	7,454.0	49.5	13.0	90.00	5,577.5	1,363.3	3,292.9	3,236.1	56.79	57.987		
9,551.9	7,500.0	7,454.0	7,454.0	50.2	13.0	90.00	5,577.5	1,363.3	3,241.0	3,183.4	57.66	56.209		
9,600.0	7,500.0	7,454.0	7,454.0	51.0	13.0	90.00	5,577.5	1,363.3	3,192.9	3,134.6	58.29	54.777		
9,700.0	7,500.0	7,454.0	7,454.0	52.4	13.0	90.00	5,577.5	1,363.3	3,092.9	3,033.4	59.59	51.902		
9,800.0	7,500.0	7,454.0	7,454.0	53.9	13.0	90.00	5,577.5	1,363.3	2,993.0	2,932.1	60.89	49.158		
9,900.0	7,500.0	7,454.0	7,454.0	55.4	13.0	90.00	5,577.5	1,363.3	2,893.2	2,831.0	62.17	46.537		
10,000.0	7,500.0	7,454.0	7,454.0	56.9	13.0	90.00	5,577.5	1,363.3	2,793.5	2,730.1	63.44	44.031		
10,100.0	7,500.0	7,454.0	7,454.0	58.4	13.0	90.00	5,577.5	1,363.3	2,694.0	2,629.3	64.71	41.634		
10,201.9	7,500.0	7,454.0	7,454.0	60.0	13.0	90.00	5,577.5	1,363.3	2,592.9	2,526.9	65.98	39.296		
10,300.0	7,500.0	7,454.0	7,454.0	61.5	13.0	90.00	5,577.5	1,363.3	2,495.7	2,428.0	67.66	36.884		
10,400.0	7,500.0	7,454.0	7,454.0	63.0	13.0	90.00	5,577.5	1,363.3	2,396.7	2,327.3	69.38	34.546		
10,500.0	7,500.0	7,454.0	7,454.0	64.5	13.0	90.00	5,577.5	1,363.3	2,297.8	2,226.7	71.09	32.320		
10,600.0	7,500.0	7,454.0	7,454.0	66.1	13.0	90.00	5,577.5	1,363.3	2,199.0	2,126.2	72.81	30.200		
10,700.0	7,500.0	7,454.0	7,454.0	67.7	13.0	90.00	5,577.5	1,363.3	2,100.3	2,025.7	74.54	28.178		
10,800.0	7,500.0	7,454.0	7,454.0	69.2	13.0	90.00	5,577.5	1,363.3	2,001.7	1,925.4	76.26	26.248		
10,900.0	7,500.0	7,454.0	7,454.0	70.8	13.0	90.00	5,577.5	1,363.3	1,903.3	1,825.3	77.99	24.405		
11,000.0	7,500.0	7,454.0	7,454.0	72.4	13.0	90.00	5,577.5	1,363.3	1,805.0	1,725.3	79.72	22.643		
11,100.0	7,500.0	7,454.0	7,454.0	74.0	13.0	90.00	5,577.5	1,363.3	1,707.0	1,625.5	81.45	20.958		
11,200.0	7,500.0	7,454.0	7,454.0	75.6	13.0	90.00	5,577.5	1,363.3	1,609.2	1,526.0	83.18	19.346		
11,300.0	7,500.0	7,454.0	7,454.0	77.2	13.0	90.00	5,577.5	1,363.3	1,511.7	1,426.7	84.91	17.802		
11,400.0	7,500.0	7,454.0	7,454.0	78.8	13.0	90.00	5,577.5	1,363.3	1,414.5	1,327.8	86.65	16.324		
11,500.0	7,500.0	7,454.0	7,454.0	80.5	13.0	90.00	5,577.5	1,363.3	1,317.7	1,229.4	88.39	14.909		
11,600.0	7,500.0	7,454.0	7,454.0	82.1	13.0	90.00	5,577.5	1,363.3	1,221.5	1,131.4	90.12	13.554		
11,700.0	7,500.0	7,454.0	7,454.0	83.7	13.0	90.00	5,577.5	1,363.3	1,125.9	1,034.1	91.86	12.257		
11,801.9	7,500.0	7,454.0	7,454.0	85.4	13.0	90.00	5,577.5	1,363.3	1,029.4	935.8	93.63	10.994		
11,900.0	7,500.0	7,454.0	7,454.0	87.0	13.0	90.00	5,577.5	1,363.3	937.3	841.5	95.80	9.784		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
12,000.0	7,500.0	7,454.0	7,454.0	88.7	13.0	90.00	5,577.5	1,363.3	844.1	746.1	97.98	8.615	
12,100.0	7,500.0	7,454.0	7,454.0	90.4	13.0	90.00	5,577.5	1,363.3	751.8	651.7	100.14	7.508	
12,200.0	7,500.0	7,454.0	7,454.0	92.0	13.0	90.00	5,577.5	1,363.3	661.1	558.8	102.27	6.464	
12,300.0	7,500.0	7,454.0	7,454.0	93.7	13.0	90.00	5,577.5	1,363.3	572.5	468.2	104.37	5.486	
12,400.0	7,500.0	7,454.0	7,454.0	95.4	13.0	90.00	5,577.5	1,363.3	487.4	381.0	106.45	4.579	
12,500.0	7,500.0	7,454.0	7,454.0	97.1	13.0	90.00	5,577.5	1,363.3	408.0	299.4	108.51	3.760	
12,600.0	7,500.0	7,454.0	7,454.0	98.9	13.0	90.00	5,577.5	1,363.3	338.1	227.6	110.53	3.059	
12,700.0	7,500.0	7,454.0	7,454.0	100.6	13.0	90.00	5,577.5	1,363.3	285.1	172.6	112.54	2.534	
12,806.4	7,500.0	7,454.0	7,454.0	102.4	13.0	90.00	5,577.5	1,363.3	259.1	144.4	114.64	2.260	
12,822.2	7,500.0	7,454.0	7,454.0	102.7	13.0	90.00	5,577.5	1,363.3	258.6	143.7	114.92	2.250 CC, ES, SF	
12,900.0	7,500.0	7,454.0	7,454.0	104.0	13.0	90.00	5,577.5	1,363.3	270.0	153.8	116.28	2.322	
13,000.0	7,500.0	7,454.0	7,454.0	105.8	13.0	90.00	5,577.5	1,363.3	313.8	195.8	118.02	2.659	
13,100.0	7,500.0	7,454.0	7,454.0	107.5	13.0	90.00	5,577.5	1,363.3	379.5	259.8	119.77	3.169	
13,200.0	7,500.0	7,454.0	7,454.0	109.2	13.0	90.00	5,577.5	1,363.3	457.8	336.3	121.52	3.768	
13,300.0	7,500.0	7,454.0	7,454.0	111.0	13.0	90.00	5,577.5	1,363.3	543.3	420.0	123.26	4.408	
13,400.0	7,500.0	7,454.0	7,454.0	112.7	13.0	90.00	5,577.5	1,363.3	633.0	508.0	125.01	5.064	
13,500.0	7,500.0	7,454.0	7,454.0	114.5	13.0	90.00	5,577.5	1,363.3	725.5	598.7	126.76	5.723	
13,600.0	7,500.0	7,454.0	7,454.0	116.2	13.0	90.00	5,577.5	1,363.3	819.7	691.2	128.51	6.378	
13,700.0	7,500.0	7,454.0	7,454.0	117.9	13.0	90.00	5,577.5	1,363.3	915.1	784.8	130.25	7.026	
13,800.0	7,500.0	7,454.0	7,454.0	119.7	13.0	90.00	5,577.5	1,363.3	1,011.4	879.4	132.00	7.662	
13,900.0	7,500.0	7,454.0	7,454.0	121.4	13.0	90.00	5,577.5	1,363.3	1,108.4	974.6	133.75	8.287	
14,000.0	7,500.0	7,454.0	7,454.0	123.1	13.0	90.00	5,577.5	1,363.3	1,205.9	1,070.4	135.50	8.899	
14,100.0	7,500.0	7,454.0	7,454.0	124.9	13.0	90.00	5,577.5	1,363.3	1,303.7	1,166.5	137.25	9.499	
14,200.0	7,500.0	7,454.0	7,454.0	126.6	13.0	90.00	5,577.5	1,363.3	1,401.9	1,262.9	139.00	10.085	
14,300.0	7,500.0	7,454.0	7,454.0	128.4	13.0	90.00	5,577.5	1,363.3	1,500.3	1,359.5	140.75	10.659	
14,335.9	7,500.0	7,454.0	7,454.0	129.0	13.0	90.00	5,577.5	1,363.3	1,535.6	1,394.2	141.38	10.862	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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
8,300.0	7,500.0	7,480.0	7,383.7	33.6	19.6	82.85	6,294.6	2,002.2	5,256.2	5,214.2	42.08	124.918	
8,400.0	7,500.0	7,489.4	7,393.1	34.7	19.6	83.67	6,294.7	2,002.1	5,157.0	5,113.4	43.65	118.137	
8,500.0	7,500.0	7,490.3	7,394.0	35.9	19.6	83.74	6,294.7	2,002.1	5,057.8	5,012.6	45.20	111.910	
8,551.9	7,500.0	7,490.8	7,394.4	36.5	19.6	83.78	6,294.7	2,002.0	5,006.4	4,960.4	46.01	108.820	
8,600.0	7,500.0	7,491.2	7,394.9	37.1	19.6	83.82	6,294.7	2,002.0	4,958.7	4,911.9	46.76	106.040	
8,700.0	7,500.0	7,492.1	7,395.7	38.3	19.6	83.90	6,294.8	2,002.0	4,859.6	4,811.2	48.35	100.508	
8,800.0	7,500.0	7,493.0	7,396.7	39.6	19.6	83.98	6,294.8	2,002.0	4,760.5	4,710.5	49.95	95.296	
8,900.0	7,500.0	7,493.9	7,397.6	40.9	19.6	84.06	6,294.8	2,002.0	4,661.4	4,609.9	51.57	90.382	
9,000.0	7,500.0	7,494.8	7,398.5	42.3	19.6	84.14	6,294.8	2,002.0	4,562.4	4,509.2	53.21	85.747	
9,100.0	7,500.0	7,495.8	7,399.5	43.7	19.6	84.22	6,294.8	2,002.0	4,463.5	4,408.6	54.85	81.372	
9,200.0	7,500.0	7,496.8	7,400.4	45.1	19.6	84.31	6,294.8	2,002.0	4,364.6	4,308.1	56.51	77.239	
9,300.0	7,500.0	7,497.8	7,401.4	46.5	19.6	84.40	6,294.9	2,001.9	4,265.7	4,207.6	58.17	73.330	
9,400.0	7,500.0	7,498.8	7,402.5	48.0	19.6	84.48	6,294.9	2,001.9	4,166.9	4,107.1	59.84	69.630	
9,500.0	7,500.0	7,499.8	7,403.5	49.5	19.6	84.57	6,294.9	2,001.9	4,068.2	4,006.7	61.52	66.125	
9,551.9	7,500.0	7,500.4	7,404.0	50.2	19.6	84.62	6,294.9	2,001.9	4,017.0	3,954.6	62.40	64.378	
9,600.0	7,500.0	7,500.9	7,404.5	51.0	19.6	84.92	6,294.9	2,001.9	3,969.5	3,906.4	63.10	62.914	
9,700.0	7,500.0	7,502.0	7,405.6	52.4	19.6	85.46	6,294.9	2,001.9	3,871.2	3,806.7	64.53	59.990	
9,800.0	7,500.0	7,503.1	7,406.8	53.9	19.6	85.90	6,295.0	2,001.9	3,773.4	3,707.4	65.95	57.219	
9,900.0	7,500.0	7,504.2	7,407.9	55.4	19.6	86.27	6,295.0	2,001.9	3,676.0	3,608.6	67.34	54.587	
10,000.0	7,500.0	7,505.4	7,409.1	56.9	19.6	86.59	6,295.0	2,001.8	3,579.2	3,510.4	68.72	52.083	
10,100.0	7,500.0	7,506.7	7,410.4	58.4	19.6	86.86	6,295.0	2,001.8	3,483.0	3,412.9	70.08	49.698	
10,201.9	7,500.0	7,508.0	7,411.7	60.0	19.6	87.11	6,295.0	2,001.8	3,385.8	3,314.3	71.46	47.383	
10,300.0	7,500.0	7,509.3	7,412.9	61.5	19.6	87.18	6,295.1	2,001.8	3,292.7	3,219.6	73.14	45.021	
10,400.0	7,500.0	7,510.6	7,414.3	63.0	19.6	87.25	6,295.1	2,001.8	3,198.2	3,123.3	74.85	42.725	
10,500.0	7,500.0	7,512.0	7,415.6	64.5	19.6	87.32	6,295.1	2,001.7	3,104.0	3,027.4	76.58	40.535	
10,600.0	7,500.0	7,520.0	7,423.7	66.1	19.6	87.76	6,295.3	2,001.6	3,010.1	2,931.8	78.33	38.430	
10,700.0	7,500.0	7,520.0	7,423.7	67.7	19.6	87.76	6,295.3	2,001.6	2,916.7	2,836.7	80.05	36.437	
10,800.0	7,500.0	7,520.0	7,423.7	69.2	19.6	87.76	6,295.3	2,001.6	2,823.7	2,742.0	81.77	34.532	
10,900.0	7,500.0	7,520.0	7,423.7	70.8	19.6	87.76	6,295.3	2,001.6	2,731.2	2,647.7	83.50	32.711	
11,000.0	7,500.0	7,520.0	7,423.7	72.4	19.6	87.76	6,295.3	2,001.6	2,639.3	2,554.1	85.22	30.969	
11,100.0	7,500.0	7,520.0	7,423.7	74.0	19.6	87.76	6,295.3	2,001.6	2,548.0	2,461.0	86.95	29.303	
11,200.0	7,500.0	7,520.0	7,423.7	75.6	19.6	87.76	6,295.3	2,001.6	2,457.3	2,368.6	88.68	27.709	
11,300.0	7,500.0	7,524.6	7,428.2	77.2	19.6	88.00	6,295.4	2,001.6	2,367.4	2,277.0	90.43	26.178	
11,400.0	7,500.0	7,526.4	7,430.1	78.8	19.6	88.11	6,295.4	2,001.6	2,278.3	2,186.1	92.18	24.717	
11,500.0	7,500.0	7,528.3	7,432.0	80.5	19.6	88.21	6,295.5	2,001.5	2,190.2	2,096.3	93.92	23.320	
11,600.0	7,500.0	7,530.3	7,433.9	82.1	19.6	88.31	6,295.5	2,001.5	2,103.1	2,007.5	95.66	21.985	
11,700.0	7,500.0	7,532.2	7,435.9	83.7	19.6	88.42	6,295.5	2,001.5	2,017.2	1,919.8	97.41	20.709	
11,801.9	7,500.0	7,534.2	7,437.9	85.4	19.6	88.53	6,295.6	2,001.5	1,931.1	1,832.0	99.19	19.470	
11,900.0	7,500.0	7,536.2	7,439.8	87.0	19.7	88.60	6,295.6	2,001.4	1,849.3	1,748.0	101.28	18.260	
12,000.0	7,500.0	7,538.2	7,441.8	88.7	19.7	88.67	6,295.7	2,001.4	1,766.5	1,663.2	103.38	17.088	
12,100.0	7,500.0	7,540.2	7,443.8	90.4	19.7	88.76	6,295.7	2,001.4	1,684.6	1,579.2	105.46	15.974	
12,200.0	7,500.0	7,542.2	7,445.8	92.0	19.7	88.85	6,295.8	2,001.4	1,603.7	1,496.2	107.51	14.917	
12,300.0	7,500.0	7,544.2	7,447.8	93.7	19.7	88.95	6,295.8	2,001.3	1,523.9	1,414.4	109.53	13.913	
12,400.0	7,500.0	7,546.2	7,449.9	95.4	19.7	89.05	6,295.9	2,001.3	1,445.6	1,334.0	111.52	12.962	
12,500.0	7,500.0	7,548.3	7,451.9	97.1	19.7	89.16	6,295.9	2,001.3	1,368.8	1,255.4	113.49	12.061	
12,600.0	7,500.0	7,550.3	7,454.0	98.9	19.7	89.28	6,296.0	2,001.3	1,294.1	1,178.7	115.43	11.211	
12,700.0	7,500.0	7,552.4	7,456.0	100.6	19.7	89.40	6,296.0	2,001.2	1,221.7	1,104.4	117.34	10.412	
12,806.4	7,500.0	7,554.6	7,458.2	102.4	19.7	89.54	6,296.1	2,001.2	1,147.8	1,028.5	119.35	9.617	
12,900.0	7,500.0	7,556.5	7,460.2	104.0	19.7	89.67	6,296.1	2,001.2	1,086.6	965.6	120.99	8.981	
13,000.0	7,500.0	7,560.0	7,463.7	105.8	19.7	89.91	6,296.2	2,001.2	1,026.6	903.8	122.74	8.364	
13,100.0	7,500.0	7,560.8	7,464.5	107.5	19.7	89.97	6,296.2	2,001.1	973.2	848.7	124.49	7.817	
13,200.0	7,500.0	7,563.1	7,466.8	109.2	19.7	90.12	6,296.3	2,001.1	927.5	801.2	126.24	7.347	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
13,300.0	7,500.0	7,565.4	7,469.0	111.0	19.7	90.27	6,296.3	2,001.1	890.7	762.7	127.99	6.959		
13,400.0	7,500.0	7,567.6	7,471.2	112.7	19.7	90.42	6,296.4	2,001.1	864.0	734.3	129.74	6.660		
13,500.0	7,500.0	7,569.8	7,473.4	114.5	19.7	90.57	6,296.4	2,001.1	848.3	716.8	131.49	6.452		
13,584.4	7,500.0	7,571.5	7,475.2	115.9	19.7	90.69	6,296.5	2,001.0	844.1	711.2	132.96	6.349 CC		
13,600.0	7,500.0	7,571.9	7,475.5	116.2	19.7	90.71	6,296.5	2,001.0	844.3	711.0	133.24	6.337 ES		
13,700.0	7,500.0	7,574.0	7,477.6	117.9	19.7	90.86	6,296.5	2,001.0	852.0	717.0	134.98	6.312 SF		
13,800.0	7,500.0	7,576.0	7,479.7	119.7	19.7	91.00	6,296.6	2,001.0	871.2	734.5	136.73	6.372		
13,900.0	7,500.0	7,578.0	7,481.7	121.4	19.7	91.13	6,296.6	2,001.0	901.2	762.7	138.48	6.508		
14,000.0	7,500.0	7,580.0	7,483.6	123.1	19.7	91.27	6,296.7	2,000.9	940.9	800.6	140.22	6.710		
14,100.0	7,500.0	7,581.9	7,485.6	124.9	19.7	91.40	6,296.7	2,000.9	989.1	847.1	141.97	6.967		
14,200.0	7,500.0	7,583.8	7,487.5	126.6	19.7	91.53	6,296.7	2,000.9	1,044.7	901.0	143.71	7.269		
14,300.0	7,500.0	7,585.7	7,489.4	128.4	19.7	91.65	6,296.8	2,000.9	1,106.5	961.1	145.46	7.607		
14,335.9	7,500.0	7,586.4	7,490.0	129.0	19.7	91.70	6,296.8	2,000.9	1,130.1	984.0	146.08	7.736		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	38.02	2,900.1	2,267.6	3,681.4					
100.0	100.0	141.5	141.5	0.2	0.2	38.02	2,900.1	2,267.6	3,681.3	3,680.9	0.40	9,218.490		
200.0	200.0	244.1	244.1	0.3	0.4	38.02	2,900.0	2,267.5	3,681.2	3,680.4	0.75	4,888.216		
300.0	300.0	346.6	346.6	0.5	0.6	38.02	2,899.8	2,267.3	3,681.0	3,679.9	1.11	3,325.774		
400.0	400.0	449.2	449.2	0.7	0.8	-44.12	2,899.6	2,267.1	3,680.1	3,678.6	1.46	2,521.092		
500.0	500.0	551.7	551.7	0.9	1.0	-44.17	2,899.4	2,266.9	3,677.9	3,676.1	1.81	2,026.468		
600.0	599.9	654.1	654.1	1.0	1.1	-44.24	2,899.1	2,266.6	3,674.4	3,672.2	2.17	1,690.728		
700.0	699.7	756.4	756.4	1.2	1.3	-44.35	2,898.7	2,266.2	3,669.5	3,667.0	2.54	1,446.732		
800.0	799.4	851.7	851.6	1.4	1.5	-44.48	2,898.6	2,265.7	3,663.4	3,660.5	2.89	1,265.766		
900.0	898.9	935.6	935.6	1.7	1.6	-44.62	2,898.9	2,265.0	3,656.4	3,653.1	3.24	1,128.129		
1,000.0	998.3	1,055.0	1,055.0	1.9	1.8	-44.85	2,899.3	2,264.2	3,648.2	3,644.6	3.66	996.575		
1,100.0	1,097.4	1,156.6	1,156.5	2.2	2.0	-45.08	2,899.3	2,263.3	3,638.4	3,634.3	4.06	895.855		
1,200.0	1,196.3	1,245.0	1,245.0	2.5	2.2	-45.32	2,899.5	2,262.4	3,627.5	3,623.0	4.45	814.476		
1,300.0	1,294.9	1,329.0	1,329.0	2.8	2.3	-45.58	2,900.2	2,261.3	3,615.7	3,610.8	4.85	744.845		
1,400.0	1,393.3	1,396.7	1,396.6	3.2	2.4	-45.83	2,901.3	2,260.4	3,603.4	3,598.1	5.24	687.024		
1,419.0	1,411.9	1,409.1	1,409.0	3.2	2.5	-45.88	2,901.7	2,260.1	3,601.0	3,595.7	5.32	676.922		
1,500.0	1,491.4	1,488.2	1,488.0	3.5	2.6	-46.12	2,904.9	2,257.5	3,591.0	3,585.3	5.70	630.525		
1,600.0	1,589.5	1,576.9	1,576.5	3.9	2.8	-46.42	2,909.5	2,252.9	3,578.6	3,572.4	6.15	581.512		
1,700.0	1,687.6	1,625.0	1,624.4	4.2	2.9	-46.60	2,912.6	2,250.0	3,567.0	3,560.5	6.54	545.393		
1,800.0	1,785.7	1,700.5	1,699.5	4.6	3.0	-46.90	2,918.8	2,244.9	3,556.5	3,549.5	7.00	508.264		
1,900.0	1,883.8	1,756.2	1,754.7	5.0	3.2	-47.13	2,924.5	2,240.8	3,547.2	3,539.8	7.42	478.049		
2,000.0	1,981.9	1,816.0	1,814.0	5.4	3.3	-47.39	2,931.5	2,236.4	3,539.3	3,531.4	7.86	450.306		
2,100.0	2,080.0	1,859.2	1,856.7	5.7	3.4	-47.58	2,937.2	2,233.2	3,532.7	3,524.5	8.27	427.144		
2,200.0	2,178.1	1,910.0	1,906.7	6.1	3.5	-47.82	2,944.8	2,229.3	3,527.7	3,519.0	8.71	405.237		
2,300.0	2,276.2	1,958.3	1,954.2	6.5	3.7	-48.06	2,952.8	2,225.6	3,524.2	3,515.0	9.14	385.439		
2,400.0	2,374.3	2,013.6	2,008.5	6.9	3.8	-48.33	2,962.8	2,221.4	3,522.1	3,512.5	9.61	366.671		
2,500.0	2,472.3	2,100.0	2,093.1	7.3	4.1	-48.76	2,978.8	2,214.9	3,520.8	3,510.7	10.17	346.321		
2,600.0	2,570.4	2,173.1	2,164.7	7.6	4.3	-49.13	2,992.7	2,209.5	3,520.3	3,509.6	10.70	329.069		
2,700.0	2,668.5	2,297.6	2,286.6	8.0	4.7	-49.75	3,016.5	2,200.4	3,520.1	3,508.7	11.39	309.063		
2,800.0	2,766.6	2,393.5	2,380.5	8.4	5.1	-50.23	3,034.3	2,193.1	3,519.6	3,507.6	12.01	293.168		
2,846.6	2,812.4	2,430.1	2,416.4	8.6	5.2	-50.42	3,041.1	2,190.3	3,519.5	3,507.2	12.27	286.899		
2,900.0	2,864.7	2,479.0	2,464.2	8.8	5.3	-50.66	3,050.3	2,186.6	3,519.6	3,507.0	12.59	279.553		
3,000.0	2,962.8	2,539.1	2,523.1	9.2	5.6	-50.96	3,061.9	2,182.4	3,520.4	3,507.3	13.10	268.767		
3,100.0	3,060.9	2,616.5	2,598.6	9.5	5.8	-51.35	3,077.4	2,177.0	3,522.2	3,508.6	13.67	257.667		
3,200.0	3,159.0	2,745.4	2,724.5	9.9	6.3	-52.02	3,103.7	2,167.1	3,524.4	3,509.9	14.42	244.396		
3,300.0	3,257.1	2,826.3	2,803.6	10.3	6.6	-52.43	3,119.5	2,160.9	3,526.1	3,511.0	15.00	235.029		
3,400.0	3,355.2	2,946.1	2,920.8	10.7	7.1	-53.02	3,142.7	2,152.8	3,528.3	3,512.6	15.71	224.570		
3,500.0	3,453.3	3,029.1	3,002.1	11.1	7.4	-53.44	3,158.6	2,146.8	3,530.3	3,514.0	16.30	216.519		
3,600.0	3,551.4	3,106.1	3,077.4	11.5	7.7	-53.82	3,173.6	2,141.3	3,533.0	3,516.2	16.88	209.280		
3,700.0	3,649.5	3,196.8	3,166.1	11.9	8.0	-54.28	3,191.7	2,135.0	3,536.4	3,518.9	17.50	202.064		
3,800.0	3,747.6	3,318.0	3,284.6	12.2	8.5	-54.87	3,215.3	2,126.8	3,539.8	3,521.6	18.22	194.288		
3,900.0	3,845.7	3,404.9	3,369.6	12.6	8.8	-55.31	3,232.2	2,120.3	3,543.0	3,524.2	18.84	188.065		
4,000.0	3,943.8	3,493.3	3,455.9	13.0	9.2	-55.76	3,249.9	2,113.2	3,546.8	3,527.3	19.46	182.216		
4,100.0	4,041.9	3,597.2	3,557.5	13.4	9.6	-56.29	3,270.5	2,105.1	3,550.9	3,530.7	20.14	176.328		
4,200.0	4,140.0	3,680.1	3,638.5	13.8	9.9	-56.71	3,286.9	2,098.6	3,555.1	3,534.4	20.75	171.356		
4,300.0	4,238.1	3,764.4	3,720.7	14.2	10.2	-57.13	3,303.9	2,092.1	3,560.1	3,538.7	21.35	166.776		
4,400.0	4,336.2	3,849.8	3,804.4	14.5	10.6	-57.54	3,320.7	2,087.1	3,565.5	3,543.5	21.94	162.516		
4,500.0	4,434.3	3,928.9	3,881.8	14.9	10.9	-57.91	3,336.5	2,082.7	3,571.5	3,549.0	22.51	158.633		
4,600.0	4,532.4	4,023.2	3,973.9	15.3	11.3	-58.36	3,355.7	2,077.5	3,578.2	3,555.1	23.13	154.672		
4,700.0	4,630.5	4,200.9	4,147.8	15.7	12.0	-59.22	3,390.1	2,065.2	3,583.6	3,559.6	24.03	149.132		
4,800.0	4,728.6	4,282.0	4,227.0	16.1	12.3	-59.63	3,405.8	2,058.1	3,588.7	3,564.1	24.64	145.666		
4,900.0	4,826.7	4,336.5	4,280.2	16.5	12.5	-59.91	3,416.7	2,053.5	3,594.8	3,569.6	25.15	142.937		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,924.8	4,456.8	4,397.8	16.9	13.0	-60.50	3,441.0	2,044.7	3,601.8	3,575.9	25.85	139.315	
5,100.0	5,022.9	4,529.1	4,468.5	17.2	13.3	-60.84	3,455.0	2,039.7	3,608.3	3,581.9	26.42	136.589	
5,200.0	5,121.0	4,598.6	4,536.4	17.6	13.6	-61.18	3,469.2	2,034.7	3,616.0	3,589.0	26.97	134.051	
5,300.0	5,219.1	4,681.0	4,616.7	18.0	13.9	-61.58	3,486.4	2,028.7	3,624.3	3,596.7	27.57	131.450	
5,400.0	5,317.2	5,429.8	5,358.6	18.4	15.7	-64.45	3,562.1	1,999.1	3,620.9	3,591.5	29.44	122.979	
5,500.0	5,415.3	5,517.0	5,445.8	18.8	15.8	-64.70	3,562.4	1,998.6	3,612.5	3,582.6	29.92	120.731	
5,600.0	5,513.4	5,603.3	5,532.1	19.2	15.9	-64.96	3,562.9	1,998.0	3,604.5	3,574.1	30.40	118.552	
5,700.0	5,611.5	5,706.0	5,634.8	19.6	16.0	-65.26	3,563.7	1,997.0	3,596.7	3,565.8	30.92	116.342	
5,800.0	5,709.6	5,808.1	5,736.9	19.9	16.1	-65.58	3,564.5	1,995.7	3,588.9	3,557.4	31.43	114.170	
5,900.0	5,807.7	5,897.0	5,825.8	20.3	16.3	-65.85	3,565.3	1,994.3	3,581.2	3,549.3	31.93	112.152	
6,000.0	5,905.8	5,983.4	5,912.2	20.7	16.4	-66.12	3,566.3	1,993.3	3,573.9	3,541.5	32.43	110.216	
6,100.0	6,003.9	6,086.4	6,015.1	21.1	16.5	-66.43	3,567.5	1,992.2	3,566.8	3,533.9	32.95	108.263	
6,200.0	6,102.0	6,200.0	6,128.7	21.5	16.6	-66.78	3,568.5	1,991.0	3,559.5	3,526.0	33.49	106.297	
6,300.0	6,200.1	6,298.0	6,226.7	21.9	16.8	-67.09	3,569.0	1,989.6	3,552.0	3,518.0	34.01	104.451	
6,400.0	6,298.2	6,370.0	6,298.7	22.3	16.9	-67.31	3,569.9	1,988.7	3,545.1	3,510.6	34.48	102.805	
6,500.0	6,396.3	6,465.0	6,393.7	22.6	17.0	-67.61	3,571.2	1,987.7	3,538.6	3,503.6	35.00	101.104	
6,600.0	6,494.4	6,544.6	6,473.3	23.0	17.1	-67.87	3,572.5	1,986.6	3,532.5	3,497.0	35.50	99.506	
6,700.0	6,592.5	6,712.7	6,641.4	23.4	17.3	-68.39	3,573.5	1,985.0	3,525.3	3,489.1	36.13	97.582	
6,800.0	6,690.6	6,798.4	6,727.1	23.8	17.4	-68.65	3,573.5	1,984.7	3,517.9	3,481.3	36.62	96.053	
6,900.0	6,788.7	6,891.1	6,819.7	24.2	17.5	-68.93	3,573.7	1,984.3	3,510.9	3,473.8	37.14	94.540	
7,000.0	6,886.8	6,981.1	6,909.7	24.6	17.7	-69.20	3,574.1	1,983.7	3,504.1	3,466.5	37.65	93.072	
7,068.1	6,953.6	7,038.0	6,966.7	24.8	17.7	-69.38	3,574.6	1,983.3	3,499.8	3,461.8	37.99	92.116	
7,100.0	6,984.9	7,068.8	6,997.5	25.0	17.8	-69.44	3,574.9	1,983.0	3,497.0	3,458.9	38.04	91.921	
7,150.0	7,033.5	7,121.3	7,049.9	25.2	17.8	-69.56	3,575.3	1,982.7	3,489.0	3,451.1	37.92	92.006	
7,200.0	7,081.4	7,167.5	7,096.2	25.4	17.9	-69.69	3,575.6	1,982.6	3,476.9	3,439.4	37.54	92.610	
7,250.0	7,128.3	7,211.1	7,139.8	25.6	18.0	-69.81	3,576.0	1,982.4	3,460.8	3,423.9	36.92	93.751	
7,300.0	7,173.7	7,259.6	7,188.2	25.8	18.0	-69.93	3,576.4	1,982.0	3,440.7	3,404.7	36.05	95.443	
7,350.0	7,217.2	7,310.0	7,238.7	26.1	18.1	-70.05	3,576.8	1,981.8	3,416.8	3,381.8	34.95	97.756	
7,400.0	7,258.7	7,350.8	7,279.5	26.3	18.2	-70.17	3,577.0	1,981.7	3,389.2	3,355.6	33.62	100.820	
7,450.0	7,297.7	7,386.5	7,315.2	26.6	18.2	-70.29	3,577.2	1,981.6	3,358.2	3,326.1	32.06	104.731	
7,500.0	7,334.0	7,419.9	7,348.6	26.9	18.3	-70.41	3,577.5	1,981.3	3,324.0	3,293.7	30.33	109.612	
7,550.0	7,367.2	7,456.0	7,384.6	27.2	18.3	-70.53	3,577.8	1,981.0	3,287.0	3,258.5	28.44	115.567	
7,600.0	7,397.2	7,488.5	7,417.1	27.5	18.3	-70.65	3,578.1	1,980.7	3,247.2	3,220.7	26.47	122.663	
7,650.0	7,423.7	7,515.0	7,443.6	27.8	18.4	-70.77	3,578.3	1,980.5	3,205.1	3,180.6	24.55	130.574	
7,700.0	7,446.5	7,534.2	7,462.8	28.2	18.4	-70.89	3,578.5	1,980.3	3,161.1	3,138.1	22.94	137.775	
7,750.0	7,465.4	7,548.9	7,477.6	28.6	18.4	-71.01	3,578.6	1,980.2	3,115.3	3,093.1	22.27	139.900	
7,800.0	7,480.4	7,560.7	7,489.3	29.0	18.4	-71.13	3,578.7	1,980.1	3,068.3	3,044.7	23.58	130.096	
7,850.0	7,491.1	7,569.4	7,498.0	29.3	18.5	-71.25	3,578.8	1,980.0	3,020.3	2,992.6	27.78	108.739	
7,900.0	7,497.7	7,574.9	7,503.5	29.8	18.5	-71.37	3,578.9	1,980.0	2,971.8	2,938.1	33.64	88.350	
7,951.9	7,500.0	7,577.2	7,505.8	30.2	18.5	-71.49	3,578.9	1,980.0	2,921.1	2,884.1	37.08	78.772	
8,000.0	7,500.0	7,577.7	7,506.3	30.6	18.5	-71.61	3,578.9	1,980.0	2,874.3	2,836.5	37.74	76.168	
8,100.0	7,500.0	7,578.7	7,507.3	31.5	18.5	-71.73	3,578.9	1,980.0	2,777.0	2,737.8	39.13	70.959	
8,200.0	7,500.0	7,579.7	7,508.3	32.5	18.5	-71.85	3,578.9	1,980.0	2,679.8	2,639.3	40.58	66.033	
8,300.0	7,500.0	7,580.7	7,509.3	33.6	18.5	-71.97	3,579.0	1,980.0	2,582.9	2,540.9	42.07	61.392	
8,400.0	7,500.0	7,581.7	7,510.3	34.7	18.5	-72.09	3,579.0	1,980.0	2,486.3	2,442.7	43.60	57.031	
8,500.0	7,500.0	7,582.7	7,511.4	35.9	18.5	-72.21	3,579.0	1,980.0	2,389.9	2,344.8	45.15	52.937	
8,551.9	7,500.0	7,583.3	7,511.9	36.5	18.5	-72.33	3,579.0	1,980.0	2,340.0	2,294.0	45.96	50.913	
8,600.0	7,500.0	7,583.8	7,512.4	37.1	18.5	-72.45	3,579.0	1,980.0	2,293.8	2,247.1	46.72	49.097	
8,700.0	7,500.0	7,584.9	7,513.5	38.3	18.5	-72.57	3,579.0	1,979.9	2,198.1	2,149.8	48.32	45.495	
8,800.0	7,500.0	7,585.9	7,514.6	39.6	18.5	-72.69	3,579.0	1,979.9	2,102.8	2,052.9	49.93	42.118	
8,900.0	7,500.0	7,587.0	7,515.7	40.9	18.5	-72.81	3,579.0	1,979.9	2,007.9	1,956.4	51.55	38.949	
9,000.0	7,500.0	7,588.2	7,516.8	42.3	18.5	-72.93	3,579.1	1,979.9	1,913.6	1,860.4	53.19	35.975	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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
9,100.0	7,500.0	7,589.3	7,517.9	43.7	18.5	88.23	3,579.1	1,979.9	1,819.8	1,765.0	54.84	33.184	
9,200.0	7,500.0	7,590.4	7,519.1	45.1	18.5	88.33	3,579.1	1,979.9	1,726.8	1,670.3	56.50	30.562	
9,300.0	7,500.0	7,591.6	7,520.2	46.5	18.5	88.43	3,579.1	1,979.9	1,634.6	1,576.4	58.17	28.101	
9,400.0	7,500.0	7,592.8	7,521.4	48.0	18.5	88.54	3,579.1	1,979.9	1,543.3	1,483.5	59.84	25.789	
9,500.0	7,500.0	7,594.0	7,522.6	49.5	18.5	88.64	3,579.1	1,979.9	1,453.2	1,391.7	61.52	23.620	
9,551.9	7,500.0	7,594.6	7,523.2	50.2	18.5	88.70	3,579.1	1,979.9	1,407.0	1,344.6	62.40	22.548	
9,600.0	7,500.0	7,595.2	7,523.8	51.0	18.5	88.77	3,579.2	1,979.9	1,364.6	1,301.5	63.06	21.639	
9,700.0	7,500.0	7,596.5	7,525.1	52.4	18.5	88.91	3,579.2	1,979.9	1,278.4	1,214.0	64.42	19.844	
9,800.0	7,500.0	7,597.7	7,526.3	53.9	18.5	89.04	3,579.2	1,979.9	1,195.4	1,129.6	65.78	18.173	
9,900.0	7,500.0	7,599.0	7,527.6	55.4	18.5	89.17	3,579.2	1,979.9	1,116.3	1,049.1	67.12	16.631	
10,000.0	7,500.0	7,600.3	7,529.0	56.9	18.5	89.29	3,579.2	1,979.9	1,041.9	973.5	68.45	15.222	
10,100.0	7,500.0	7,601.7	7,530.3	58.4	18.5	89.40	3,579.2	1,979.9	973.5	903.7	69.76	13.954	
10,201.9	7,500.0	7,603.1	7,531.7	60.0	18.5	89.52	3,579.3	1,979.9	911.2	840.1	71.09	12.818	
10,300.0	7,500.0	7,604.4	7,533.0	61.5	18.5	89.62	3,579.3	1,979.9	859.2	786.5	72.77	11.808	
10,400.0	7,500.0	7,605.8	7,534.4	63.0	18.5	89.73	3,579.3	1,979.9	815.0	740.6	74.49	10.942	
10,500.0	7,500.0	7,610.0	7,538.6	64.5	18.5	90.05	3,579.4	1,979.8	781.2	705.0	76.21	10.251	
10,600.0	7,500.0	7,610.0	7,538.6	66.1	18.5	90.05	3,579.4	1,979.8	759.1	681.2	77.93	9.741	
10,700.0	7,500.0	7,610.0	7,538.6	67.7	18.5	90.05	3,579.4	1,979.8	749.8	670.2	79.65	9.414	
10,720.1	7,500.0	7,610.0	7,538.6	68.0	18.5	90.05	3,579.4	1,979.8	749.6	669.6	80.00	9.370 CC, ES	
10,800.0	7,500.0	7,611.7	7,540.3	69.2	18.5	90.17	3,579.4	1,979.8	753.8	672.4	81.38	9.263 SF	
10,900.0	7,500.0	7,613.2	7,541.8	70.8	18.5	90.29	3,579.4	1,979.8	770.8	687.7	83.11	9.275	
11,000.0	7,500.0	7,614.7	7,543.3	72.4	18.5	90.40	3,579.4	1,979.8	800.1	715.3	84.83	9.431	
11,100.0	7,500.0	7,616.2	7,544.8	74.0	18.5	90.52	3,579.5	1,979.8	840.3	753.7	86.57	9.707	
11,200.0	7,500.0	7,617.6	7,546.3	75.6	18.5	90.63	3,579.5	1,979.8	890.0	801.7	88.30	10.079	
11,300.0	7,500.0	7,619.1	7,547.7	77.2	18.5	90.74	3,579.5	1,979.8	947.6	857.6	90.03	10.526	
11,400.0	7,500.0	7,620.6	7,549.2	78.8	18.5	90.86	3,579.5	1,979.8	1,011.9	920.2	91.77	11.027	
11,500.0	7,500.0	7,622.1	7,550.7	80.5	18.5	90.97	3,579.6	1,979.8	1,081.6	988.1	93.50	11.568	
11,600.0	7,500.0	7,623.5	7,552.2	82.1	18.5	91.08	3,579.6	1,979.8	1,155.8	1,060.6	95.24	12.136	
11,700.0	7,500.0	7,625.0	7,553.6	83.7	18.5	91.19	3,579.6	1,979.8	1,233.6	1,136.6	96.97	12.721	
11,801.9	7,500.0	7,626.5	7,555.1	85.4	18.5	91.31	3,579.6	1,979.8	1,316.0	1,217.3	98.74	13.327	
11,900.0	7,500.0	7,627.9	7,556.5	87.0	18.5	91.38	3,579.6	1,979.8	1,397.3	1,296.4	100.86	13.853	
12,000.0	7,500.0	7,629.3	7,557.9	88.7	18.5	91.45	3,579.7	1,979.8	1,481.3	1,378.3	102.99	14.383	
12,100.0	7,500.0	7,630.8	7,559.4	90.4	18.5	91.51	3,579.7	1,979.8	1,566.4	1,461.3	105.10	14.904	
12,200.0	7,500.0	7,632.2	7,560.8	92.0	18.5	91.56	3,579.7	1,979.8	1,652.3	1,545.1	107.18	15.416	
12,300.0	7,500.0	7,633.6	7,562.2	93.7	18.5	91.61	3,579.7	1,979.8	1,738.8	1,629.6	109.23	15.919	
12,400.0	7,500.0	7,635.0	7,563.6	95.4	18.6	91.65	3,579.8	1,979.8	1,825.9	1,714.6	111.25	16.413	
12,500.0	7,500.0	7,636.4	7,565.0	97.1	18.6	91.69	3,579.8	1,979.8	1,913.4	1,800.2	113.24	16.897	
12,600.0	7,500.0	7,637.8	7,566.4	98.9	18.6	91.72	3,579.8	1,979.8	2,001.3	1,886.1	115.21	17.371	
12,700.0	7,500.0	7,639.2	7,567.8	100.6	18.6	91.74	3,579.8	1,979.8	2,089.5	1,972.4	117.15	17.836	
12,806.4	7,500.0	7,640.7	7,569.3	102.4	18.6	91.77	3,579.8	1,979.8	2,183.6	2,064.4	119.18	18.321	
12,900.0	7,500.0	7,642.0	7,570.6	104.0	18.6	91.84	3,579.9	1,979.8	2,266.9	2,146.1	120.81	18.763	
13,000.0	7,500.0	7,643.3	7,571.9	105.8	18.6	91.92	3,579.9	1,979.8	2,356.7	2,234.2	122.56	19.230	
13,100.0	7,500.0	7,644.7	7,573.3	107.5	18.6	91.99	3,579.9	1,979.8	2,447.4	2,323.1	124.30	19.689	
13,200.0	7,500.0	7,646.1	7,574.7	109.2	18.6	92.07	3,579.9	1,979.8	2,538.7	2,412.7	126.04	20.142	
13,300.0	7,500.0	7,647.4	7,576.0	111.0	18.6	92.15	3,579.9	1,979.8	2,630.7	2,502.9	127.78	20.587	
13,400.0	7,500.0	7,648.8	7,577.4	112.7	18.6	92.22	3,580.0	1,979.8	2,723.2	2,593.7	129.53	21.024	
13,500.0	7,500.0	7,650.1	7,578.7	114.5	18.6	92.30	3,580.0	1,979.8	2,816.2	2,685.0	131.27	21.454	
13,600.0	7,500.0	7,651.5	7,580.1	116.2	18.6	92.38	3,580.0	1,979.8	2,909.7	2,776.7	133.01	21.876	
13,700.0	7,500.0	7,652.8	7,581.4	117.9	18.6	92.45	3,580.0	1,979.8	3,003.6	2,868.9	134.75	22.290	
13,800.0	7,500.0	7,654.2	7,582.8	119.7	18.6	92.53	3,580.0	1,979.8	3,097.9	2,961.4	136.49	22.697	
13,900.0	7,500.0	7,655.5	7,584.1	121.4	18.6	92.60	3,580.1	1,979.8	3,192.6	3,054.3	138.24	23.095	
14,000.0	7,500.0	7,656.9	7,585.5	123.1	18.6	92.68	3,580.1	1,979.8	3,287.5	3,147.6	139.98	23.486	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor									
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis									
14,100.0	7,500.0	7,658.2	7,586.8	124.9	18.6	92.75	3,580.1	1,979.8	3,382.8	3,241.1	141.72	23.870								
14,200.0	7,500.0	7,659.5	7,588.1	126.6	18.6	92.83	3,580.1	1,979.7	3,478.3	3,334.8	143.46	24.246								
14,300.0	7,500.0	7,660.9	7,589.5	128.4	18.6	92.90	3,580.1	1,979.7	3,574.1	3,428.9	145.20	24.615								
14,335.9	7,500.0	7,661.3	7,590.0	129.0	18.6	92.93	3,580.1	1,979.7	3,608.5	3,462.7	145.83	24.745								

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
0.0	0.0	29.0	29.0	0.0	0.0	65.11	1,870.9	4,032.2	4,445.1					
100.0	100.0	129.0	129.0	0.2	0.2	65.11	1,870.9	4,032.2	4,445.1	4,444.7	0.35	N/A		
200.0	200.0	274.9	274.9	0.3	0.5	65.11	1,871.0	4,031.7	4,444.9	4,444.2	0.78	5,669.127		
300.0	300.0	532.9	532.8	0.5	0.9	65.03	1,873.1	4,022.8	4,442.1	4,440.7	1.43	3,107.967		
400.0	400.0	789.4	788.3	0.7	1.5	-17.29	1,877.7	4,002.7	4,435.0	4,432.9	2.08	2,129.083		
500.0	500.0	1,042.6	1,039.6	0.9	2.2	-17.61	1,884.7	3,971.9	4,422.6	4,419.8	2.80	1,581.122		
600.0	599.9	1,291.1	1,284.5	1.0	3.0	-18.05	1,894.0	3,931.2	4,405.3	4,401.7	3.57	1,232.378		
700.0	699.7	1,533.4	1,521.4	1.2	4.0	-18.61	1,905.4	3,881.6	4,383.1	4,378.7	4.43	989.252		
800.0	799.4	1,703.9	1,686.7	1.4	4.7	-19.11	1,914.7	3,841.1	4,356.6	4,351.5	5.14	847.153		
900.0	898.9	1,798.0	1,777.8	1.7	5.2	-19.46	1,920.0	3,818.0	4,328.1	4,322.5	5.63	769.121		
1,000.0	998.3	1,891.5	1,868.2	1.9	5.6	-19.83	1,925.3	3,795.0	4,298.2	4,292.0	6.12	702.507		
1,100.0	1,097.4	1,984.3	1,958.1	2.2	6.0	-20.21	1,930.5	3,772.2	4,266.7	4,260.1	6.62	644.933		
1,200.0	1,196.3	2,076.5	2,047.4	2.5	6.5	-20.62	1,935.7	3,749.5	4,233.8	4,226.7	7.12	594.615		
1,300.0	1,294.9	2,168.1	2,135.9	2.8	6.9	-21.04	1,940.9	3,727.0	4,199.5	4,191.9	7.63	550.198		
1,400.0	1,393.3	2,259.0	2,223.9	3.2	7.3	-21.49	1,946.0	3,704.7	4,163.7	4,155.6	8.15	510.638		
1,419.0	1,411.9	2,276.1	2,240.5	3.2	7.4	-21.58	1,946.9	3,700.5	4,156.8	4,148.5	8.25	503.623		
1,500.0	1,491.4	2,349.3	2,311.3	3.5	7.8	-21.84	1,951.1	3,682.5	4,127.1	4,118.4	8.69	475.070		
1,600.0	1,589.5	2,439.7	2,398.8	3.9	8.2	-22.16	1,956.2	3,660.3	4,090.5	4,081.3	9.23	443.218		
1,700.0	1,687.6	2,530.0	2,486.2	4.2	8.6	-22.49	1,961.2	3,638.1	4,054.1	4,044.3	9.78	414.603		
1,800.0	1,785.7	2,620.4	2,573.7	4.6	9.1	-22.83	1,966.3	3,615.9	4,017.8	4,007.4	10.33	388.774		
1,900.0	1,883.8	2,710.8	2,661.1	5.0	9.5	-23.17	1,971.4	3,593.7	3,981.6	3,970.7	10.90	365.356		
2,000.0	1,981.9	2,801.1	2,748.5	5.4	9.9	-23.52	1,976.5	3,571.5	3,945.5	3,934.1	11.47	344.039		
2,100.0	2,080.0	2,891.5	2,836.0	5.7	10.4	-23.87	1,981.6	3,549.3	3,909.6	3,897.6	12.05	324.561		
2,200.0	2,178.1	2,981.8	2,923.4	6.1	10.8	-24.23	1,986.7	3,527.1	3,873.8	3,861.2	12.63	306.703		
2,300.0	2,276.2	3,072.2	3,010.9	6.5	11.2	-24.59	1,991.8	3,504.9	3,838.2	3,825.0	13.22	290.278		
2,400.0	2,374.3	3,162.6	3,098.3	6.9	11.7	-24.97	1,996.9	3,482.7	3,802.7	3,788.9	13.82	275.125		
2,500.0	2,472.3	3,252.9	3,185.7	7.3	12.1	-25.35	2,002.0	3,460.5	3,767.4	3,753.0	14.43	261.109		
2,600.0	2,570.4	3,343.3	3,273.2	7.6	12.5	-25.73	2,007.1	3,438.3	3,732.2	3,717.2	15.04	248.110		
2,700.0	2,668.5	3,433.6	3,360.6	8.0	13.0	-26.12	2,012.1	3,416.1	3,697.2	3,681.6	15.66	236.026		
2,800.0	2,766.6	3,524.0	3,448.1	8.4	13.4	-26.52	2,017.2	3,393.9	3,662.4	3,646.1	16.29	224.769		
2,900.0	2,864.7	3,614.4	3,535.5	8.8	13.8	-26.93	2,022.3	3,371.7	3,627.7	3,610.8	16.93	214.259		
3,000.0	2,962.8	3,704.7	3,622.9	9.2	14.3	-27.34	2,027.4	3,349.5	3,593.2	3,575.6	17.58	204.429		
3,100.0	3,060.9	3,795.1	3,710.4	9.5	14.7	-27.76	2,032.5	3,327.3	3,558.9	3,540.7	18.23	195.218		
3,200.0	3,159.0	3,885.4	3,797.8	9.9	15.2	-28.19	2,037.6	3,305.1	3,524.8	3,505.9	18.89	186.572		
3,300.0	3,257.1	3,975.8	3,885.3	10.3	15.6	-28.63	2,042.7	3,282.9	3,490.9	3,471.3	19.56	178.445		
3,400.0	3,355.2	4,066.1	3,972.7	10.7	16.0	-29.07	2,047.8	3,260.7	3,457.1	3,436.9	20.24	170.794		
3,500.0	3,453.3	4,156.5	4,060.2	11.1	16.5	-29.52	2,052.9	3,238.5	3,423.6	3,402.7	20.93	163.580		
3,600.0	3,551.4	4,246.9	4,147.6	11.5	16.9	-29.98	2,058.0	3,216.3	3,390.3	3,368.6	21.63	156.771		
3,700.0	3,649.5	4,337.2	4,235.0	11.9	17.3	-30.45	2,063.0	3,194.1	3,357.2	3,334.8	22.33	150.336		
3,800.0	3,747.6	4,427.6	4,322.5	12.2	17.8	-30.93	2,068.1	3,171.9	3,324.3	3,301.2	23.05	144.248		
3,900.0	3,845.7	4,517.9	4,409.9	12.6	18.2	-31.42	2,073.2	3,149.7	3,291.6	3,267.9	23.77	138.481		
4,000.0	3,943.8	4,608.3	4,497.4	13.0	18.7	-31.91	2,078.3	3,127.5	3,259.2	3,234.7	24.50	133.013		
4,100.0	4,041.9	4,698.7	4,584.8	13.4	19.1	-32.41	2,083.4	3,105.3	3,227.0	3,201.8	25.25	127.825		
4,200.0	4,140.0	4,789.0	4,672.2	13.8	19.5	-32.93	2,088.5	3,083.1	3,195.1	3,169.1	26.00	122.897		
4,300.0	4,238.1	4,879.4	4,759.7	14.2	20.0	-33.45	2,093.6	3,060.9	3,163.4	3,136.7	26.76	118.213		
4,400.0	4,336.2	4,969.7	4,847.1	14.5	20.4	-33.98	2,098.7	3,038.7	3,132.0	3,104.5	27.53	113.757		
4,500.0	4,434.3	5,060.1	4,934.6	14.9	20.8	-34.52	2,103.8	3,016.5	3,100.9	3,072.6	28.31	109.515		
4,600.0	4,532.4	5,150.5	5,022.0	15.3	21.3	-35.07	2,108.9	2,994.3	3,070.1	3,041.0	29.11	105.474		
4,700.0	4,630.5	5,240.8	5,109.5	15.7	21.7	-35.63	2,113.9	2,972.2	3,039.5	3,009.6	29.91	101.623		
4,800.0	4,728.6	5,331.2	5,196.9	16.1	22.2	-36.21	2,119.0	2,950.0	3,009.3	2,978.5	30.72	97.949		
4,900.0	4,826.7	5,421.5	5,284.3	16.5	22.6	-36.79	2,124.1	2,927.8	2,979.3	2,947.8	31.55	94.444		
5,000.0	4,924.8	5,511.9	5,371.8	16.9	23.0	-37.38	2,129.2	2,905.6	2,949.7	2,917.3	32.38	91.098		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,022.9	9,533.8	7,530.0	17.2	46.1	11.71	113.0	2,358.0	2,918.9	2,873.3	45.65	63.946	
5,200.0	5,121.0	9,531.2	7,530.0	17.6	46.1	11.56	115.6	2,358.0	2,825.7	2,780.0	45.72	61.809	
5,300.0	5,219.1	9,528.5	7,530.0	18.0	46.0	11.42	118.3	2,358.0	2,733.0	2,687.2	45.79	59.689	
5,400.0	5,317.2	9,525.8	7,530.0	18.4	46.0	11.27	121.0	2,358.0	2,640.8	2,594.9	45.86	57.589	
5,500.0	5,415.3	9,523.2	7,530.0	18.8	46.0	11.12	123.6	2,358.0	2,549.1	2,503.2	45.92	55.508	
5,600.0	5,513.4	9,520.5	7,530.0	19.2	45.9	10.98	126.3	2,358.0	2,458.1	2,412.2	45.99	53.448	
5,700.0	5,611.5	9,517.9	7,530.0	19.6	45.9	10.83	128.9	2,358.0	2,367.9	2,321.8	46.06	51.410	
5,800.0	5,709.6	9,515.2	7,530.0	19.9	45.9	10.69	131.6	2,358.0	2,278.4	2,232.3	46.13	49.397	
5,900.0	5,807.7	9,512.6	7,530.0	20.3	45.8	10.54	134.2	2,358.0	2,189.9	2,143.7	46.19	47.410	
6,000.0	5,905.8	9,509.9	7,530.0	20.7	45.8	10.39	136.9	2,358.0	2,102.4	2,056.1	46.26	45.451	
6,100.0	6,003.9	9,507.3	7,530.0	21.1	45.8	10.25	139.5	2,358.0	2,016.0	1,969.7	46.32	43.523	
6,200.0	6,102.0	9,504.6	7,530.0	21.5	45.8	10.10	142.2	2,358.0	1,931.0	1,884.6	46.39	41.630	
6,300.0	6,200.1	9,502.0	7,530.0	21.9	45.7	9.95	144.8	2,358.0	1,847.5	1,801.0	46.45	39.774	
6,400.0	6,298.2	9,499.3	7,530.0	22.3	45.7	9.81	147.5	2,358.0	1,765.6	1,719.1	46.51	37.960	
6,500.0	6,396.3	9,496.6	7,530.0	22.6	45.7	9.66	150.2	2,358.0	1,685.8	1,639.2	46.58	36.194	
6,600.0	6,494.4	9,494.0	7,530.0	23.0	45.6	9.52	152.8	2,358.0	1,608.1	1,561.5	46.64	34.481	
6,700.0	6,592.5	9,491.3	7,530.0	23.4	45.6	9.37	155.5	2,358.0	1,533.1	1,486.4	46.70	32.828	
6,800.0	6,690.6	9,488.7	7,530.0	23.8	45.6	9.22	158.1	2,358.0	1,461.0	1,414.3	46.76	31.244	
6,900.0	6,788.7	9,486.0	7,530.0	24.2	45.5	9.08	160.8	2,358.0	1,392.4	1,345.6	46.82	29.738	
7,000.0	6,886.8	9,483.4	7,530.0	24.6	45.5	8.93	163.4	2,358.0	1,327.8	1,280.9	46.88	28.321	
7,068.1	6,953.6	9,481.6	7,530.0	24.8	45.5	8.83	165.2	2,358.0	1,286.4	1,239.5	46.93	27.414	
7,100.0	6,984.9	9,479.8	7,530.0	25.0	45.4	26.00	167.0	2,358.0	1,267.8	1,219.6	48.19	26.308	
7,150.0	7,033.5	9,473.6	7,530.0	25.2	45.4	46.86	173.2	2,358.0	1,239.9	1,190.0	49.95	24.823	
7,200.0	7,081.4	9,463.0	7,530.0	25.4	45.2	60.86	183.8	2,358.0	1,213.8	1,162.4	51.37	23.627	
7,250.0	7,128.3	9,448.2	7,530.0	25.6	45.1	70.27	198.6	2,358.0	1,189.6	1,137.2	52.41	22.698	
7,300.0	7,173.7	9,429.3	7,530.0	25.8	44.8	76.77	217.5	2,358.0	1,167.4	1,114.4	53.06	22.002	
7,350.0	7,217.2	9,406.4	7,530.0	26.1	44.6	81.34	240.4	2,358.0	1,147.5	1,094.2	53.34	21.512	
7,400.0	7,258.7	9,379.8	7,530.0	26.3	44.3	84.57	267.0	2,358.0	1,129.8	1,076.5	53.30	21.198	
7,450.0	7,297.7	9,349.6	7,530.0	26.6	43.9	86.83	297.2	2,358.0	1,114.3	1,061.3	52.98	21.034	
7,500.0	7,334.0	9,316.0	7,530.0	26.9	43.5	88.36	330.8	2,358.0	1,101.0	1,048.5	52.43	20.999	
7,550.0	7,367.2	9,279.3	7,530.0	27.2	43.1	89.35	367.5	2,357.9	1,089.6	1,037.9	51.72	21.069	
7,600.0	7,397.2	9,239.8	7,530.0	27.5	42.7	89.93	407.0	2,357.9	1,080.2	1,029.3	50.89	21.225	
7,650.0	7,423.7	9,197.8	7,530.0	27.8	42.2	90.21	449.0	2,357.9	1,072.4	1,022.4	50.00	21.446	
7,700.0	7,446.5	9,153.6	7,530.0	28.2	41.7	90.30	493.2	2,357.9	1,066.1	1,017.0	49.10	21.714	
7,750.0	7,465.4	9,107.5	7,530.0	28.6	41.2	90.27	539.3	2,357.9	1,061.2	1,013.0	48.20	22.015	
7,800.0	7,480.4	9,059.9	7,530.0	29.0	40.7	90.18	586.9	2,357.9	1,057.5	1,010.2	47.34	22.337	
7,850.0	7,491.1	9,011.2	7,530.0	29.3	40.2	90.10	635.6	2,357.9	1,054.8	1,008.3	46.52	22.675	
7,900.0	7,497.7	8,961.6	7,530.0	29.8	39.8	90.05	685.2	2,357.9	1,053.0	1,007.3	45.74	23.024	
7,951.9	7,500.0	8,909.8	7,530.0	30.2	39.3	90.05	737.0	2,357.9	1,052.1	1,007.2	44.95	23.408	
8,000.0	7,500.0	8,861.7	7,530.0	30.6	38.8	90.05	785.1	2,357.9	1,051.7	1,006.8	44.89	23.430	
8,100.0	7,500.0	8,761.7	7,530.0	31.5	37.9	90.05	885.1	2,357.9	1,050.8	1,006.0	44.82	23.443	
8,200.0	7,500.0	8,661.7	7,530.0	32.5	37.1	90.05	985.1	2,357.8	1,049.9	1,005.1	44.85	23.408	
8,300.0	7,500.0	8,561.7	7,530.0	33.6	36.3	90.05	1,085.1	2,357.8	1,049.0	1,004.1	44.97	23.326	
8,400.0	7,500.0	8,461.7	7,530.0	34.7	35.6	90.05	1,185.1	2,357.8	1,048.1	1,003.0	45.19	23.195	
8,500.0	7,500.0	8,361.7	7,530.0	35.9	35.0	90.05	1,285.1	2,357.8	1,047.3	1,001.7	45.51	23.012	
8,551.9	7,500.0	8,309.8	7,530.0	36.5	34.7	90.05	1,337.0	2,357.8	1,046.8	1,001.1	45.71	22.900	
8,600.0	7,500.0	8,261.7	7,530.0	37.1	34.5	90.05	1,385.1	2,357.8	1,046.4	1,000.4	45.94	22.775	
8,700.0	7,500.0	8,161.7	7,530.0	38.3	34.0	90.05	1,485.1	2,357.8	1,045.5	999.0	46.50	22.485	
8,747.2	7,500.0	8,123.8	7,529.5	38.9	33.9	90.03	1,523.0	2,357.9	1,045.2	998.3	46.90	22.285 CC	
8,800.0	7,500.0	8,085.1	7,527.2	39.6	33.7	89.90	1,561.6	2,358.5	1,045.6	998.2	47.41	22.055 ES	
8,900.0	7,500.0	8,012.9	7,517.4	40.9	33.4	89.36	1,633.1	2,360.9	1,048.3	999.8	48.44	21.638	
9,000.0	7,500.0	7,950.0	7,503.2	42.3	33.2	88.59	1,694.2	2,364.5	1,053.9	1,004.2	49.63	21.236	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						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	7,877.6	7,480.5	43.7	33.0	87.37	1,762.7	2,370.3	1,062.7	1,011.8	50.83	20.908		
9,200.0	7,500.0	7,816.3	7,456.1	45.1	32.8	86.07	1,818.6	2,376.5	1,075.3	1,023.1	52.14	20.622		
9,300.0	7,500.0	7,759.8	7,429.6	46.5	32.6	84.68	1,868.0	2,383.2	1,092.0	1,038.5	53.51	20.408		
9,400.0	7,500.0	7,700.0	7,397.6	48.0	32.5	83.03	1,917.8	2,391.3	1,113.4	1,058.6	54.87	20.291		
9,500.0	7,500.0	7,661.4	7,374.8	49.5	32.4	81.88	1,948.4	2,397.1	1,139.6	1,083.2	56.34	20.226 SF		
9,551.9	7,500.0	7,638.9	7,360.8	50.2	32.3	81.18	1,965.7	2,400.7	1,155.2	1,098.1	57.09	20.235		
9,600.0	7,500.0	7,619.0	7,348.0	51.0	32.3	80.52	1,980.5	2,403.9	1,171.0	1,113.4	57.62	20.321		
9,700.0	7,500.0	7,580.9	7,322.4	52.4	32.2	79.20	2,007.9	2,410.4	1,208.8	1,150.0	58.77	20.566		
9,800.0	7,500.0	7,550.0	7,300.5	53.9	32.1	78.05	2,029.1	2,415.9	1,252.9	1,192.9	59.97	20.891		
9,900.0	7,500.0	7,516.1	7,275.6	55.4	32.0	76.74	2,051.2	2,422.3	1,303.0	1,241.8	61.15	21.309		
10,000.0	7,500.0	7,500.0	7,263.4	56.9	32.0	76.01	2,061.3	2,425.4	1,358.8	1,296.4	62.42	21.767		
10,100.0	7,500.0	7,450.0	7,224.2	58.4	31.8	74.01	2,090.7	2,435.3	1,419.6	1,356.2	63.44	22.379		
10,201.9	7,500.0	7,450.0	7,224.2	60.0	31.8	73.77	2,090.7	2,435.3	1,486.2	1,421.4	64.82	22.930		
10,300.0	7,500.0	7,421.3	7,200.9	61.5	31.8	72.71	2,106.3	2,441.2	1,553.9	1,487.7	66.17	23.483		
10,400.0	7,500.0	7,400.0	7,183.1	63.0	31.7	71.93	2,117.2	2,445.7	1,625.5	1,557.9	67.59	24.048		
10,500.0	7,500.0	7,400.0	7,183.1	64.5	31.7	71.93	2,117.2	2,445.7	1,699.7	1,630.4	69.22	24.554		
10,600.0	7,500.0	7,370.7	7,158.2	66.1	31.6	70.85	2,131.3	2,452.0	1,775.6	1,705.1	70.52	25.180		
10,700.0	7,500.0	7,350.0	7,140.4	67.7	31.6	70.09	2,140.7	2,456.6	1,853.7	1,781.8	71.89	25.787		
10,800.0	7,500.0	7,350.0	7,140.4	69.2	31.6	70.09	2,140.7	2,456.6	1,933.5	1,860.0	73.50	26.304		
10,900.0	7,500.0	7,331.3	7,124.0	70.8	31.5	69.41	2,148.6	2,460.7	2,014.8	1,939.9	74.86	26.912		
11,000.0	7,500.0	7,320.1	7,114.1	72.4	31.5	69.01	2,153.2	2,463.2	2,097.5	2,021.2	76.31	27.485		
11,100.0	7,500.0	7,300.0	7,096.1	74.0	31.4	68.28	2,161.0	2,467.8	2,181.5	2,103.9	77.62	28.107		
11,200.0	7,500.0	7,300.0	7,096.1	75.6	31.4	68.28	2,161.0	2,467.8	2,266.6	2,187.4	79.22	28.610		
11,300.0	7,500.0	7,300.0	7,096.1	77.2	31.4	68.28	2,161.0	2,467.8	2,352.8	2,272.0	80.83	29.108		
11,400.0	7,500.0	7,300.0	7,096.1	78.8	31.4	68.28	2,161.0	2,467.8	2,440.1	2,357.6	82.44	29.598		
11,500.0	7,500.0	7,274.7	7,073.2	80.5	31.3	67.37	2,170.1	2,473.6	2,527.8	2,444.2	83.59	30.239		
11,600.0	7,500.0	7,250.0	7,050.6	82.1	31.2	66.49	2,178.1	2,479.4	2,616.7	2,532.0	84.73	30.884		
11,700.0	7,500.0	7,250.0	7,050.6	83.7	31.2	66.49	2,178.1	2,479.4	2,706.0	2,619.7	86.32	31.349		
11,801.9	7,500.0	7,250.0	7,050.6	85.4	31.2	66.49	2,178.1	2,479.4	2,797.7	2,709.8	87.94	31.812		
11,900.0	7,500.0	7,250.0	7,050.6	87.0	31.2	67.30	2,178.1	2,479.4	2,886.3	2,796.1	90.18	32.005		
12,000.0	7,500.0	7,250.0	7,050.6	88.7	31.2	68.10	2,178.1	2,479.4	2,976.6	2,884.2	92.44	32.199		
12,100.0	7,500.0	7,250.0	7,050.6	90.4	31.2	68.86	2,178.1	2,479.4	3,066.8	2,972.1	94.68	32.392		
12,200.0	7,500.0	7,250.0	7,050.6	92.0	31.2	69.60	2,178.1	2,479.4	3,156.9	3,060.0	96.88	32.584		
12,300.0	7,500.0	7,224.9	7,027.4	93.7	31.2	69.52	2,185.5	2,485.3	3,246.4	3,147.8	98.61	32.921		
12,400.0	7,500.0	7,200.0	7,004.0	95.4	31.1	69.45	2,191.9	2,491.2	3,336.3	3,236.0	100.33	33.255		
12,500.0	7,500.0	7,200.0	7,004.0	97.1	31.1	70.13	2,191.9	2,491.2	3,425.7	3,323.2	102.48	33.426		
12,600.0	7,500.0	7,200.0	7,004.0	98.9	31.1	70.79	2,191.9	2,491.2	3,514.8	3,410.2	104.62	33.597		
12,700.0	7,500.0	7,200.0	7,004.0	100.6	31.1	71.43	2,191.9	2,491.2	3,603.9	3,497.1	106.73	33.766		
12,806.4	7,500.0	7,200.0	7,004.0	102.4	31.1	72.07	2,191.9	2,491.2	3,698.4	3,589.4	108.95	33.946		
12,900.0	7,500.0	7,200.0	7,004.0	104.0	31.1	72.07	2,191.9	2,491.2	3,781.7	3,671.2	110.51	34.222		
13,000.0	7,500.0	7,200.0	7,004.0	105.8	31.1	72.07	2,191.9	2,491.2	3,871.2	3,759.0	112.17	34.513		
13,100.0	7,500.0	7,200.0	7,004.0	107.5	31.1	72.07	2,191.9	2,491.2	3,961.2	3,847.4	113.83	34.800		
13,200.0	7,500.0	7,200.0	7,004.0	109.2	31.1	72.07	2,191.9	2,491.2	4,051.7	3,936.2	115.49	35.083		
13,300.0	7,500.0	7,200.0	7,004.0	111.0	31.1	72.07	2,191.9	2,491.2	4,142.6	4,025.5	117.15	35.361		
13,400.0	7,500.0	7,177.6	6,982.8	112.7	31.0	71.45	2,197.0	2,496.6	4,233.6	4,115.2	118.40	35.756		
13,500.0	7,500.0	7,174.2	6,979.7	114.5	31.0	71.36	2,197.7	2,497.4	4,325.2	4,205.2	120.00	36.044		
13,600.0	7,500.0	7,150.0	6,956.6	116.2	30.9	70.69	2,202.4	2,503.2	4,417.4	4,296.3	121.18	36.453		
13,700.0	7,500.0	7,150.0	6,956.6	117.9	30.9	70.69	2,202.4	2,503.2	4,509.6	4,386.8	122.83	36.714		
13,800.0	7,500.0	7,150.0	6,956.6	119.7	30.9	70.69	2,202.4	2,503.2	4,602.1	4,477.6	124.48	36.970		
13,900.0	7,500.0	7,150.0	6,956.6	121.4	30.9	70.69	2,202.4	2,503.2	4,694.9	4,568.8	126.13	37.222		
14,000.0	7,500.0	7,150.0	6,956.6	123.1	30.9	70.69	2,202.4	2,503.2	4,788.0	4,660.2	127.78	37.469		
14,100.0	7,500.0	7,150.0	6,956.6	124.9	30.9	70.69	2,202.4	2,503.2	4,881.4	4,751.9	129.44	37.713		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
14,200.0	7,500.0	7,150.0	6,956.6	126.6	30.9	70.69	2,202.4	2,503.2	4,975.0	4,843.9	131.09	37.952	
14,300.0	7,500.0	7,150.0	6,956.6	128.4	30.9	70.69	2,202.4	2,503.2	5,068.9	4,936.1	132.74	38.186	
14,335.9	7,500.0	7,150.0	6,956.6	129.0	30.9	70.69	2,202.4	2,503.2	5,102.6	4,969.3	133.33	38.270	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
0.0	0.0	29.0	29.0	0.0	0.0	65.16	1,870.9	4,042.3	4,454.2					
100.0	100.0	129.0	129.0	0.2	0.2	65.16	1,870.9	4,042.3	4,454.2	4,453.9	0.35	N/A		
200.0	200.0	229.0	229.0	0.3	0.4	65.16	1,870.9	4,042.3	4,454.2	4,453.5	0.70	6,332.726		
300.0	300.0	446.0	446.0	0.5	0.8	65.14	1,871.8	4,039.0	4,453.2	4,451.9	1.26	3,531.946		
400.0	400.0	693.3	692.9	0.7	1.2	-17.13	1,875.3	4,025.7	4,448.1	4,446.2	1.89	2,359.329		
500.0	500.0	938.2	936.5	0.9	1.8	-17.39	1,881.6	4,002.4	4,438.0	4,435.5	2.55	1,740.744		
600.0	599.9	1,179.3	1,175.2	1.0	2.5	-17.76	1,890.3	3,969.6	4,423.1	4,419.9	3.27	1,353.824		
700.0	699.7	1,415.3	1,407.3	1.2	3.3	-18.25	1,901.4	3,928.2	4,403.5	4,399.5	4.05	1,086.674		
800.0	799.4	1,539.1	1,528.3	1.4	3.8	-18.59	1,908.1	3,903.3	4,380.3	4,375.7	4.58	957.137		
900.0	898.9	1,634.5	1,621.6	1.7	4.2	-18.90	1,913.3	3,883.9	4,355.4	4,350.4	5.03	866.226		
1,000.0	998.3	1,729.5	1,714.5	1.9	4.6	-19.21	1,918.4	3,864.6	4,329.0	4,323.5	5.48	789.294		
1,100.0	1,097.4	1,823.9	1,806.8	2.2	4.9	-19.55	1,923.5	3,845.5	4,301.1	4,295.1	5.95	723.296		
1,200.0	1,196.3	1,917.7	1,898.5	2.5	5.3	-19.90	1,928.6	3,826.4	4,271.7	4,265.3	6.41	665.991		
1,300.0	1,294.9	2,010.9	1,989.7	2.8	5.7	-20.27	1,933.7	3,807.5	4,240.8	4,233.9	6.89	615.697		
1,400.0	1,393.3	2,103.5	2,080.2	3.2	6.1	-20.67	1,938.7	3,788.7	4,208.4	4,201.1	7.37	571.128		
1,419.0	1,411.9	2,121.0	2,097.3	3.2	6.1	-20.74	1,939.7	3,785.2	4,202.1	4,194.7	7.46	563.244		
1,500.0	1,491.4	2,195.7	2,170.3	3.5	6.4	-20.97	1,943.7	3,770.0	4,175.1	4,167.3	7.86	531.073		
1,600.0	1,589.5	2,287.8	2,260.4	3.9	6.8	-21.26	1,948.7	3,751.3	4,141.9	4,133.5	8.36	495.309		
1,700.0	1,687.6	2,380.0	2,350.5	4.2	7.2	-21.55	1,953.7	3,732.6	4,108.7	4,099.9	8.87	463.293		
1,800.0	1,785.7	2,472.2	2,440.6	4.6	7.5	-21.85	1,958.7	3,713.9	4,075.7	4,066.3	9.38	434.485		
1,900.0	1,883.8	2,564.3	2,530.7	5.0	7.9	-22.15	1,963.7	3,695.2	4,042.8	4,032.9	9.90	408.438		
2,000.0	1,981.9	2,656.5	2,620.8	5.4	8.3	-22.45	1,968.7	3,676.5	4,009.9	3,999.5	10.42	384.786		
2,100.0	2,080.0	2,748.6	2,710.9	5.7	8.7	-22.76	1,973.7	3,657.8	3,977.2	3,966.3	10.95	363.222		
2,200.0	2,178.1	2,840.8	2,801.0	6.1	9.0	-23.07	1,978.7	3,639.1	3,944.6	3,933.1	11.48	343.488		
2,300.0	2,276.2	2,932.9	2,891.1	6.5	9.4	-23.39	1,983.8	3,620.4	3,912.1	3,900.1	12.02	325.367		
2,400.0	2,374.3	3,025.1	2,981.2	6.9	9.8	-23.72	1,988.8	3,601.7	3,879.7	3,867.1	12.57	308.675		
2,500.0	2,472.3	3,117.2	3,071.3	7.3	10.2	-24.05	1,993.8	3,583.0	3,847.5	3,834.3	13.12	293.253		
2,600.0	2,570.4	3,209.4	3,161.4	7.6	10.6	-24.38	1,998.8	3,564.3	3,815.3	3,801.6	13.68	278.966		
2,700.0	2,668.5	3,301.5	3,251.5	8.0	10.9	-24.72	2,003.8	3,545.6	3,783.3	3,769.1	14.24	265.697		
2,800.0	2,766.6	3,393.7	3,341.6	8.4	11.3	-25.07	2,008.8	3,526.9	3,751.4	3,736.6	14.81	253.345		
2,900.0	2,864.7	3,485.8	3,431.7	8.8	11.7	-25.42	2,013.8	3,508.2	3,719.7	3,704.3	15.38	241.820		
3,000.0	2,962.8	3,578.0	3,521.8	9.2	12.1	-25.78	2,018.8	3,489.5	3,688.0	3,672.1	15.96	231.045		
3,100.0	3,060.9	3,670.1	3,611.8	9.5	12.4	-26.14	2,023.8	3,470.8	3,656.6	3,640.0	16.55	220.953		
3,200.0	3,159.0	3,762.3	3,701.9	9.9	12.8	-26.51	2,028.8	3,452.1	3,625.2	3,608.1	17.14	211.482		
3,300.0	3,257.1	3,854.4	3,792.0	10.3	13.2	-26.88	2,033.8	3,433.4	3,594.0	3,576.3	17.74	202.579		
3,400.0	3,355.2	3,946.6	3,882.1	10.7	13.6	-27.26	2,038.8	3,414.7	3,563.0	3,544.6	18.35	194.198		
3,500.0	3,453.3	4,038.8	3,972.2	11.1	14.0	-27.65	2,043.8	3,396.0	3,532.1	3,513.1	18.96	186.296		
3,600.0	3,551.4	4,130.9	4,062.3	11.5	14.3	-28.04	2,048.8	3,377.3	3,501.4	3,481.8	19.58	178.835		
3,700.0	3,649.5	4,223.1	4,152.4	11.9	14.7	-28.44	2,053.8	3,358.6	3,470.8	3,450.6	20.20	171.781		
3,800.0	3,747.6	4,315.2	4,242.5	12.2	15.1	-28.85	2,058.8	3,339.9	3,440.4	3,419.6	20.84	165.103		
3,900.0	3,845.7	4,407.4	4,332.6	12.6	15.5	-29.27	2,063.8	3,321.2	3,410.2	3,388.7	21.48	158.775		
4,000.0	3,943.8	4,499.5	4,422.7	13.0	15.9	-29.69	2,068.8	3,302.5	3,380.1	3,358.0	22.13	152.772		
4,100.0	4,041.9	4,591.7	4,512.8	13.4	16.2	-30.11	2,073.8	3,283.8	3,350.2	3,327.5	22.78	147.071		
4,200.0	4,140.0	4,683.8	4,602.9	13.8	16.6	-30.55	2,078.8	3,265.1	3,320.6	3,297.1	23.44	141.651		
4,300.0	4,238.1	4,776.0	4,693.0	14.2	17.0	-30.99	2,083.8	3,246.4	3,291.1	3,267.0	24.11	136.494		
4,400.0	4,336.2	4,868.1	4,783.1	14.5	17.4	-31.44	2,088.8	3,227.7	3,261.8	3,237.0	24.79	131.583		
4,500.0	4,434.3	4,960.3	4,873.2	14.9	17.8	-31.90	2,093.8	3,209.0	3,232.7	3,207.2	25.47	126.902		
4,600.0	4,532.4	5,052.4	4,963.3	15.3	18.1	-32.36	2,098.8	3,190.3	3,203.8	3,177.6	26.17	122.438		
4,700.0	4,630.5	5,144.6	5,053.4	15.7	18.5	-32.83	2,103.8	3,171.5	3,175.1	3,148.2	26.87	118.176		
4,800.0	4,728.6	5,236.7	5,143.5	16.1	18.9	-33.31	2,108.8	3,152.8	3,146.6	3,119.0	27.58	114.107		
4,900.0	4,826.7	5,328.9	5,233.6	16.5	19.3	-33.80	2,113.8	3,134.1	3,118.4	3,090.1	28.29	110.217		
5,000.0	4,924.8	5,421.0	5,323.7	16.9	19.7	-34.30	2,118.8	3,115.4	3,090.4	3,061.3	29.02	106.497		

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

Cathedral Energy Services

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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	
5,100.0	5,022.9	5,513.2	5,413.8	17.2	20.0	-34.80	2,123.8	3,096.7	3,062.6	3,032.8	29.75	102.938		
5,200.0	5,121.0	5,605.4	5,503.9	17.6	20.4	-35.31	2,128.8	3,078.0	3,035.1	3,004.6	30.49	99.530		
5,300.0	5,219.1	5,697.5	5,594.0	18.0	20.8	-35.84	2,133.8	3,059.3	3,007.8	2,976.5	31.24	96.267		
5,400.0	5,317.2	5,708.4	7,770.0	18.4	43.4	11.05	121.0	2,608.0	2,980.7	2,935.0	45.70	65.227		
5,500.0	5,415.3	9,705.7	7,770.0	18.8	43.4	10.92	123.7	2,608.0	2,890.0	2,844.2	45.79	63.121		
5,600.0	5,513.4	9,703.1	7,770.0	19.2	43.4	10.80	126.3	2,608.0	2,800.0	2,754.1	45.87	61.037		
5,700.0	5,611.5	9,700.4	7,770.0	19.6	43.3	10.68	129.0	2,608.0	2,710.6	2,664.7	45.96	58.977		
5,800.0	5,709.6	9,697.7	7,770.0	19.9	43.3	10.56	131.6	2,608.0	2,622.1	2,576.0	46.05	56.941		
5,900.0	5,807.7	9,695.1	7,770.0	20.3	43.2	10.43	134.3	2,608.0	2,534.4	2,488.2	46.14	54.932		
6,000.0	5,905.8	9,692.4	7,770.0	20.7	43.2	10.31	136.9	2,608.0	2,447.6	2,401.4	46.22	52.952		
6,100.0	6,003.9	9,689.8	7,770.0	21.1	43.2	10.19	139.6	2,608.0	2,361.8	2,315.5	46.31	51.002		
6,200.0	6,102.0	9,687.1	7,770.0	21.5	43.1	10.07	142.2	2,608.0	2,277.3	2,230.9	46.39	49.085		
6,300.0	6,200.1	9,684.5	7,770.0	21.9	43.1	9.94	144.9	2,608.0	2,194.0	2,147.5	46.48	47.203		
6,400.0	6,298.2	9,681.8	7,770.0	22.3	43.1	9.82	147.5	2,608.0	2,112.2	2,065.6	46.56	45.360		
6,500.0	6,396.3	9,679.2	7,770.0	22.6	43.0	9.70	150.2	2,608.0	2,032.0	1,985.3	46.65	43.558		
6,600.0	6,494.4	9,676.5	7,770.0	23.0	43.0	9.57	152.8	2,608.0	1,953.6	1,906.8	46.73	41.803		
6,700.0	6,592.5	9,673.9	7,770.0	23.4	43.0	9.45	155.5	2,608.0	1,877.2	1,830.4	46.82	40.098		
6,800.0	6,690.6	9,671.2	7,770.0	23.8	42.9	9.33	158.2	2,608.0	1,803.2	1,756.3	46.90	38.448		
6,900.0	6,788.7	9,668.5	7,770.0	24.2	42.9	9.21	160.8	2,608.0	1,731.8	1,684.8	46.98	36.860		
7,000.0	6,886.8	9,665.9	7,770.0	24.6	42.9	9.08	163.5	2,608.0	1,663.3	1,616.3	47.07	35.341		
7,068.1	6,953.6	9,664.1	7,770.0	24.8	42.8	9.00	165.3	2,608.0	1,618.6	1,571.5	47.12	34.350		
7,100.0	6,984.9	9,662.3	7,770.0	25.0	42.8	26.55	167.0	2,608.0	1,598.2	1,549.8	48.42	33.004		
7,150.0	7,033.5	9,656.1	7,770.0	25.2	42.7	48.04	173.3	2,608.0	1,567.2	1,516.9	50.31	31.154		
7,200.0	7,081.4	9,645.5	7,770.0	25.4	42.6	62.73	183.9	2,608.0	1,537.6	1,485.7	51.90	29.626		
7,250.0	7,128.3	9,630.7	7,770.0	25.6	42.4	72.85	198.6	2,608.0	1,509.6	1,456.5	53.15	28.403		
7,300.0	7,173.7	9,611.8	7,770.0	25.8	42.2	80.07	217.5	2,608.0	1,483.4	1,429.4	54.02	27.458		
7,350.0	7,217.2	9,589.0	7,770.0	26.1	41.9	85.39	240.4	2,608.0	1,459.1	1,404.6	54.53	26.758		
7,400.0	7,258.7	9,562.3	7,770.0	26.3	41.5	89.38	267.0	2,608.0	1,436.9	1,382.2	54.69	26.274		
7,450.0	7,297.7	9,532.1	7,770.0	26.6	41.2	92.39	297.3	2,608.0	1,416.8	1,362.2	54.54	25.977		
7,500.0	7,334.0	9,498.5	7,770.0	26.9	40.8	94.67	330.9	2,608.0	1,398.8	1,344.6	54.12	25.847		
7,550.0	7,367.2	9,461.8	7,770.0	27.2	40.3	96.38	367.5	2,608.0	1,382.9	1,329.4	53.47	25.862		
7,600.0	7,397.2	9,422.3	7,770.0	27.5	39.8	97.66	407.0	2,608.0	1,369.0	1,316.4	52.64	26.007		
7,650.0	7,423.7	9,380.3	7,770.0	27.8	39.3	98.59	449.1	2,607.9	1,357.2	1,305.6	51.67	26.267		
7,700.0	7,446.5	9,336.1	7,770.0	28.2	38.8	99.26	493.3	2,607.9	1,347.3	1,296.7	50.59	26.630		
7,750.0	7,465.4	9,290.0	7,770.0	28.6	38.3	99.73	539.4	2,607.9	1,339.3	1,289.9	49.44	27.087		
7,800.0	7,480.4	9,242.4	7,770.0	29.0	37.7	100.06	586.9	2,607.9	1,333.0	1,284.8	48.25	27.629		
7,850.0	7,491.1	9,193.7	7,770.0	29.3	37.2	100.27	635.7	2,607.9	1,328.5	1,281.5	47.02	28.253		
7,900.0	7,497.7	9,144.1	7,770.0	29.8	36.7	100.41	685.2	2,607.9	1,325.6	1,279.8	45.79	28.950		
7,951.9	7,500.0	9,092.3	7,770.0	30.2	36.1	100.49	737.0	2,607.9	1,324.2	1,279.7	44.51	29.753		
8,000.0	7,500.0	9,044.2	7,770.0	30.6	35.6	100.49	785.1	2,607.9	1,323.8	1,279.4	44.46	29.773		
8,100.0	7,500.0	8,944.2	7,770.0	31.5	34.6	100.50	885.1	2,607.9	1,323.0	1,278.5	44.44	29.772		
8,200.0	7,500.0	8,844.2	7,770.0	32.5	33.7	100.50	985.1	2,607.9	1,322.1	1,277.6	44.50	29.710		
8,300.0	7,500.0	8,744.2	7,770.0	33.6	32.9	100.51	1,085.1	2,607.8	1,321.2	1,276.6	44.65	29.588		
8,400.0	7,500.0	8,644.2	7,770.0	34.7	32.1	100.52	1,185.1	2,607.8	1,320.3	1,275.4	44.90	29.405		
8,500.0	7,500.0	8,544.2	7,770.0	35.9	31.4	100.52	1,285.1	2,607.8	1,319.5	1,274.2	45.25	29.157		
8,551.9	7,500.0	8,492.3	7,770.0	36.5	31.1	100.53	1,337.0	2,607.8	1,319.0	1,273.5	45.47	29.007		
8,600.0	7,500.0	8,444.2	7,770.0	37.1	30.8	100.53	1,385.1	2,607.8	1,318.6	1,272.9	45.72	28.841		
8,700.0	7,500.0	8,344.3	7,770.0	38.3	30.3	100.54	1,485.1	2,607.8	1,317.7	1,271.4	46.30	28.459		
8,800.0	7,500.0	8,247.8	7,765.3	39.6	29.8	100.34	1,581.4	2,608.7	1,316.9	1,269.9	47.09	27.968		
8,894.5	7,500.0	8,159.7	7,750.1	40.9	29.5	99.67	1,668.1	2,611.9	1,316.6	1,268.6	48.05	27.401 CC		
8,900.0	7,500.0	8,154.7	7,748.9	40.9	29.5	99.61	1,672.9	2,612.1	1,316.6	1,268.5	48.11	27.366		
9,000.0	7,500.0	8,067.2	7,723.0	42.3	29.2	98.47	1,756.2	2,617.5	1,317.3	1,267.9	49.37	26.684 ES		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
9,100.0	7,500.0	7,987.2	7,690.8	43.7	28.9	97.05	1,829.1	2,624.2	1,319.5	1,268.7	50.80	25.974		
9,200.0	7,500.0	7,915.4	7,655.3	45.1	28.7	95.48	1,891.0	2,631.5	1,324.2	1,271.9	52.37	25.287		
9,300.0	7,500.0	7,850.0	7,617.8	46.5	28.6	93.84	1,944.0	2,639.3	1,332.2	1,278.2	54.01	24.668		
9,400.0	7,500.0	7,800.0	7,586.0	48.0	28.5	92.46	1,982.1	2,645.9	1,344.1	1,288.4	55.68	24.139		
9,500.0	7,500.0	7,750.0	7,551.7	49.5	28.4	90.97	2,017.7	2,653.0	1,360.4	1,303.0	57.37	23.713		
9,551.9	7,500.0	7,724.7	7,533.5	50.2	28.3	90.19	2,034.8	2,656.8	1,370.7	1,312.5	58.25	23.533		
9,600.0	7,500.0	7,700.0	7,515.1	51.0	28.3	89.40	2,050.9	2,660.6	1,381.7	1,322.8	58.91	23.453		
9,700.0	7,500.0	7,667.8	7,490.3	52.4	28.2	88.34	2,070.8	2,665.7	1,409.4	1,349.1	60.32	23.365 SF		
9,800.0	7,500.0	7,635.3	7,464.4	53.9	28.2	87.23	2,089.8	2,671.1	1,443.7	1,381.9	61.73	23.386		
9,900.0	7,500.0	7,600.0	7,435.4	55.4	28.1	85.99	2,108.9	2,677.1	1,484.4	1,421.2	63.14	23.509		
10,000.0	7,500.0	7,581.8	7,420.1	56.9	28.0	85.30	2,118.3	2,680.3	1,531.1	1,466.5	64.55	23.718		
10,100.0	7,500.0	7,550.0	7,392.8	58.4	28.0	84.10	2,133.6	2,686.0	1,583.5	1,517.6	65.94	24.016		
10,201.9	7,500.0	7,550.0	7,392.8	60.0	28.0	84.02	2,133.6	2,686.0	1,642.3	1,575.0	67.39	24.369		
10,300.0	7,500.0	7,522.6	7,368.8	61.5	27.9	83.01	2,145.8	2,690.9	1,702.9	1,634.0	68.99	24.684		
10,400.0	7,500.0	7,500.0	7,348.7	63.0	27.9	82.17	2,155.1	2,695.1	1,767.9	1,697.3	70.61	25.038		
10,500.0	7,500.0	7,500.0	7,348.7	64.5	27.9	82.17	2,155.1	2,695.1	1,835.7	1,763.4	72.31	25.386		
10,600.0	7,500.0	7,479.5	7,330.2	66.1	27.8	81.41	2,163.0	2,699.0	1,906.0	1,832.1	73.91	25.787		
10,700.0	7,500.0	7,467.7	7,319.4	67.7	27.8	80.97	2,167.3	2,701.2	1,978.7	1,903.1	75.55	26.190		
10,800.0	7,500.0	7,450.0	7,303.1	69.2	27.8	80.31	2,173.5	2,704.6	2,053.5	1,976.3	77.15	26.618		
10,900.0	7,500.0	7,450.0	7,303.1	70.8	27.8	80.31	2,173.5	2,704.6	2,130.1	2,051.3	78.85	27.017		
11,000.0	7,500.0	7,450.0	7,303.1	72.4	27.8	80.31	2,173.5	2,704.6	2,208.7	2,128.1	80.55	27.421		
11,100.0	7,500.0	7,429.2	7,283.9	74.0	27.7	79.54	2,180.1	2,708.6	2,288.6	2,206.5	82.09	27.877		
11,200.0	7,500.0	7,421.4	7,276.5	75.6	27.7	79.25	2,182.5	2,710.1	2,370.0	2,286.3	83.73	28.305		
11,300.0	7,500.0	7,400.0	7,256.5	77.2	27.6	78.46	2,188.5	2,714.3	2,452.9	2,367.6	85.24	28.776		
11,400.0	7,500.0	7,400.0	7,256.5	78.8	27.6	78.46	2,188.5	2,714.3	2,536.6	2,449.7	86.94	29.177		
11,500.0	7,500.0	7,400.0	7,256.5	80.5	27.6	78.46	2,188.5	2,714.3	2,621.5	2,532.9	88.64	29.575		
11,600.0	7,500.0	7,400.0	7,256.5	82.1	27.6	78.46	2,188.5	2,714.3	2,707.5	2,617.1	90.34	29.970		
11,700.0	7,500.0	7,400.0	7,256.5	83.7	27.6	78.46	2,188.5	2,714.3	2,794.4	2,702.3	92.04	30.359		
11,801.9	7,500.0	7,400.0	7,256.5	85.4	27.6	78.46	2,188.5	2,714.3	2,883.8	2,790.0	93.78	30.751		
11,900.0	7,500.0	7,379.2	7,236.8	87.0	27.6	78.07	2,193.8	2,718.3	2,969.9	2,874.3	95.58	31.074		
12,000.0	7,500.0	7,374.5	7,232.3	88.7	27.6	78.28	2,194.9	2,719.3	3,057.8	2,960.2	97.58	31.338		
12,100.0	7,500.0	7,369.9	7,228.0	90.4	27.5	78.49	2,196.0	2,720.2	3,145.6	3,046.0	99.56	31.594		
12,200.0	7,500.0	7,350.0	7,208.9	92.0	27.5	78.20	2,200.2	2,724.1	3,233.4	3,132.1	101.36	31.900		
12,300.0	7,500.0	7,350.0	7,208.9	93.7	27.5	78.56	2,200.2	2,724.1	3,320.9	3,217.5	103.36	32.129		
12,400.0	7,500.0	7,350.0	7,208.9	95.4	27.5	78.91	2,200.2	2,724.1	3,408.2	3,302.9	105.34	32.353		
12,500.0	7,500.0	7,350.0	7,208.9	97.1	27.5	79.25	2,200.2	2,724.1	3,495.4	3,388.1	107.31	32.573		
12,600.0	7,500.0	7,350.0	7,208.9	98.9	27.5	79.57	2,200.2	2,724.1	3,582.4	3,473.2	109.26	32.790		
12,700.0	7,500.0	7,350.0	7,208.9	100.6	27.5	79.89	2,200.2	2,724.1	3,669.3	3,558.1	111.18	33.002		
12,806.4	7,500.0	7,350.0	7,208.9	102.4	27.5	80.21	2,200.2	2,724.1	3,761.6	3,648.4	113.22	33.224		
12,900.0	7,500.0	7,350.0	7,208.9	104.0	27.5	80.21	2,200.2	2,724.1	3,842.9	3,728.1	114.83	33.467		
13,000.0	7,500.0	7,350.0	7,208.9	105.8	27.5	80.21	2,200.2	2,724.1	3,930.4	3,813.8	116.55	33.724		
13,100.0	7,500.0	7,350.0	7,208.9	107.5	27.5	80.21	2,200.2	2,724.1	4,018.5	3,900.2	118.27	33.978		
13,200.0	7,500.0	7,350.0	7,208.9	109.2	27.5	80.21	2,200.2	2,724.1	4,107.1	3,987.1	119.99	34.229		
13,300.0	7,500.0	7,326.7	7,186.4	111.0	27.4	79.56	2,204.5	2,728.8	4,195.8	4,074.4	121.46	34.545		
13,400.0	7,500.0	7,323.9	7,183.8	112.7	27.4	79.48	2,205.0	2,729.3	4,285.3	4,162.2	123.15	34.799		
13,500.0	7,500.0	7,300.0	7,160.6	114.5	27.3	78.82	2,208.5	2,734.1	4,375.6	4,251.0	124.58	35.123		
13,600.0	7,500.0	7,300.0	7,160.6	116.2	27.3	78.82	2,208.5	2,734.1	4,465.9	4,339.6	126.30	35.361		
13,700.0	7,500.0	7,300.0	7,160.6	117.9	27.3	78.82	2,208.5	2,734.1	4,556.6	4,428.6	128.01	35.595		
13,800.0	7,500.0	7,300.0	7,160.6	119.7	27.3	78.82	2,208.5	2,734.1	4,647.7	4,518.0	129.73	35.827		
13,900.0	7,500.0	7,300.0	7,160.6	121.4	27.3	78.82	2,208.5	2,734.1	4,739.1	4,607.7	131.44	36.055		
14,000.0	7,500.0	7,300.0	7,160.6	123.1	27.3	78.82	2,208.5	2,734.1	4,830.9	4,697.8	133.16	36.279		
14,100.0	7,500.0	7,300.0	7,160.6	124.9	27.3	78.82	2,208.5	2,734.1	4,923.0	4,788.1	134.88	36.500		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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 (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					
14,200.0	7,500.0	7,300.0	7,160.6	126.6	27.3	78.82	2,208.5	2,734.1	5,015.4	4,878.8	136.59	36.718					
14,300.0	7,500.0	7,300.0	7,160.6	128.4	27.3	78.82	2,208.5	2,734.1	5,108.1	4,969.8	138.31	36.933					
14,335.9	7,500.0	7,300.0	7,160.6	129.0	27.3	78.82	2,208.5	2,734.1	5,141.4	5,002.5	138.92	37.009					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)				
0.0	0.0	88.0	88.0	0.0	0.2	-47.43	131.9	-143.6	194.9					
100.0	100.0	188.0	188.0	0.2	0.3	-47.43	131.9	-143.6	194.9	194.5	0.48	405.995		
200.0	200.0	288.0	288.0	0.3	0.5	-47.43	131.9	-143.6	194.9	194.1	0.83	235.091		
300.0	300.0	388.0	388.0	0.5	0.7	-47.43	131.9	-143.6	194.9	193.8	1.18	165.446	CC, ES	
400.0	400.0	488.0	488.0	0.7	0.9	-129.76	131.9	-143.6	195.5	194.0	1.53	127.971		
500.0	500.0	588.0	588.0	0.9	1.0	-130.33	131.9	-143.6	197.2	195.3	1.88	104.945		
600.0	599.9	687.9	687.9	1.0	1.2	-131.26	131.9	-143.6	200.0	197.8	2.23	89.553		
700.0	699.7	787.7	787.7	1.2	1.4	-132.52	131.9	-143.6	204.1	201.5	2.59	78.707		
800.0	799.4	887.4	887.4	1.4	1.5	-134.06	131.9	-143.6	209.5	206.5	2.96	70.811		
900.0	898.9	986.9	986.9	1.7	1.7	-135.83	131.9	-143.6	216.3	213.0	3.33	64.964		
1,000.0	998.3	1,086.3	1,086.3	1.9	1.9	-137.78	131.9	-143.6	224.6	220.9	3.71	60.613		
1,100.0	1,097.4	1,185.4	1,185.4	2.2	2.1	-139.85	131.9	-143.6	234.4	230.3	4.08	57.401		
1,200.0	1,196.3	1,284.3	1,284.3	2.5	2.2	-141.99	131.9	-143.6	246.0	241.5	4.47	55.085		
1,300.0	1,294.9	1,382.9	1,382.9	2.8	2.4	-144.15	131.9	-143.6	259.2	254.4	4.85	53.490		
1,400.0	1,393.3	1,481.3	1,481.3	3.2	2.6	-146.29	131.9	-143.6	274.3	269.0	5.23	52.486		
1,419.0	1,411.9	1,499.9	1,499.9	3.2	2.6	-146.69	131.9	-143.6	277.3	272.0	5.30	52.359		
1,500.0	1,491.4	1,579.4	1,579.4	3.5	2.8	-148.38	131.9	-143.6	290.7	285.1	5.60	51.887		
1,600.0	1,589.5	1,677.5	1,677.5	3.9	2.9	-150.27	131.9	-143.6	307.4	301.5	5.97	51.468		
1,700.0	1,687.6	1,775.6	1,775.6	4.2	3.1	-151.96	131.9	-143.6	324.5	318.2	6.34	51.186		
1,800.0	1,785.7	1,873.7	1,873.7	4.6	3.3	-153.48	131.9	-143.6	341.8	335.1	6.70	51.005		
1,900.0	1,883.8	1,971.8	1,971.8	5.0	3.4	-154.86	131.9	-143.6	359.4	352.3	7.06	50.899		
2,000.0	1,981.9	2,069.9	2,069.9	5.4	3.6	-156.11	131.9	-143.6	377.1	369.7	7.42	50.851		
2,100.0	2,080.0	2,168.0	2,168.0	5.7	3.8	-157.25	131.9	-143.6	395.0	387.2	7.77	50.845		
2,200.0	2,178.1	2,266.1	2,266.1	6.1	4.0	-158.28	131.9	-143.6	413.0	404.9	8.12	50.870		
2,300.0	2,276.2	2,364.2	2,364.2	6.5	4.1	-159.24	131.9	-143.6	431.1	422.6	8.47	50.919		
2,400.0	2,374.3	2,462.3	2,462.3	6.9	4.3	-160.11	131.9	-143.6	449.3	440.5	8.81	50.986		
2,500.0	2,472.3	2,560.3	2,560.3	7.3	4.5	-160.92	131.9	-143.6	467.7	458.5	9.16	51.064		
2,600.0	2,570.4	2,658.4	2,658.4	7.6	4.6	-161.66	131.9	-143.6	486.1	476.6	9.50	51.151		
2,700.0	2,668.5	2,756.5	2,756.5	8.0	4.8	-162.36	131.9	-143.6	504.6	494.7	9.85	51.245		
2,800.0	2,766.6	2,854.6	2,854.6	8.4	5.0	-163.00	131.9	-143.6	523.1	513.0	10.19	51.342		
2,900.0	2,864.7	2,952.7	2,952.7	8.8	5.2	-163.60	131.9	-143.6	541.8	531.2	10.53	51.441		
3,000.0	2,962.8	3,050.8	3,050.8	9.2	5.3	-164.16	131.9	-143.6	560.4	549.6	10.87	51.542		
3,100.0	3,060.9	3,148.9	3,148.9	9.5	5.5	-164.68	131.9	-143.6	579.1	567.9	11.21	51.642		
3,200.0	3,159.0	3,247.0	3,247.0	9.9	5.7	-165.17	131.9	-143.6	597.9	586.4	11.56	51.742		
3,300.0	3,257.1	3,345.1	3,345.1	10.3	5.8	-165.63	131.9	-143.6	616.7	604.8	11.90	51.840		
3,400.0	3,355.2	3,443.2	3,443.2	10.7	6.0	-166.07	131.9	-143.6	635.5	623.3	12.24	51.937		
3,500.0	3,453.3	3,541.3	3,541.3	11.1	6.2	-166.48	131.9	-143.6	654.4	641.8	12.58	52.032		
3,600.0	3,551.4	3,639.4	3,639.4	11.5	6.4	-166.86	131.9	-143.6	673.3	660.4	12.92	52.124		
3,700.0	3,649.5	3,737.5	3,737.5	11.9	6.5	-167.23	131.9	-143.6	692.3	679.0	13.26	52.215		
3,800.0	3,747.6	3,835.6	3,835.6	12.2	6.7	-167.57	131.9	-143.6	711.2	697.6	13.60	52.303		
3,900.0	3,845.7	3,933.7	3,933.7	12.6	6.9	-167.90	131.9	-143.6	730.2	716.2	13.94	52.388		
4,000.0	3,943.8	4,031.8	4,031.8	13.0	7.0	-168.21	131.9	-143.6	749.2	734.9	14.28	52.471		
4,100.0	4,041.9	4,129.9	4,129.9	13.4	7.2	-168.51	131.9	-143.6	768.2	753.6	14.62	52.552		
4,200.0	4,140.0	4,228.0	4,228.0	13.8	7.4	-168.79	131.9	-143.6	787.3	772.3	14.96	52.630		
4,300.0	4,238.1	4,326.1	4,326.1	14.2	7.6	-169.05	131.9	-143.6	806.3	791.0	15.30	52.705		
4,400.0	4,336.2	4,424.2	4,424.2	14.5	7.7	-169.31	131.9	-143.6	825.4	809.7	15.64	52.778		
4,500.0	4,434.3	4,522.3	4,522.3	14.9	7.9	-169.55	131.9	-143.6	844.5	828.5	15.98	52.849		
4,600.0	4,532.4	4,620.4	4,620.4	15.3	8.1	-169.79	131.9	-143.6	863.6	847.3	16.32	52.918		
4,700.0	4,630.5	4,718.5	4,718.5	15.7	8.2	-170.01	131.9	-143.6	882.7	866.0	16.66	52.985		
4,800.0	4,728.6	4,816.6	4,816.6	16.1	8.4	-170.22	131.9	-143.6	901.8	884.8	17.00	53.049		
4,900.0	4,826.7	4,914.7	4,914.7	16.5	8.6	-170.43	131.9	-143.6	921.0	903.6	17.34	53.111		
5,000.0	4,924.8	5,012.8	5,012.8	16.9	8.7	-170.63	131.9	-143.6	940.1	922.4	17.68	53.172		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,110.9	5,110.9	17.2	8.9	-170.81	131.9	-143.6	959.3	941.3	18.02	53.230		
5,200.0	5,121.0	5,209.0	5,209.0	17.6	9.1	-171.00	131.9	-143.6	978.4	960.1	18.36	53.287		
5,300.0	5,219.1	5,307.1	5,307.1	18.0	9.3	-171.17	131.9	-143.6	997.6	978.9	18.70	53.342		
5,400.0	5,317.2	5,405.2	5,405.2	18.4	9.4	-171.34	131.9	-143.6	1,016.8	997.8	19.04	53.395		
5,500.0	5,415.3	5,503.3	5,503.3	18.8	9.6	-171.50	131.9	-143.6	1,036.0	1,016.6	19.38	53.447		
5,600.0	5,513.4	5,601.4	5,601.4	19.2	9.8	-171.66	131.9	-143.6	1,055.2	1,035.5	19.72	53.497		
5,700.0	5,611.5	5,699.5	5,699.5	19.6	9.9	-171.81	131.9	-143.6	1,074.4	1,054.4	20.07	53.545		
5,800.0	5,709.6	5,797.6	5,797.6	19.9	10.1	-171.95	131.9	-143.6	1,093.6	1,073.2	20.41	53.593		
5,900.0	5,807.7	5,895.7	5,895.7	20.3	10.3	-172.09	131.9	-143.6	1,112.9	1,092.1	20.75	53.638		
6,000.0	5,905.8	5,993.8	5,993.8	20.7	10.5	-172.23	131.9	-143.6	1,132.1	1,111.0	21.09	53.682		
6,100.0	6,003.9	6,091.9	6,091.9	21.1	10.6	-172.36	131.9	-143.6	1,151.3	1,129.9	21.43	53.726		
6,200.0	6,102.0	6,190.0	6,190.0	21.5	10.8	-172.48	131.9	-143.6	1,170.6	1,148.8	21.77	53.767		
6,300.0	6,200.1	6,288.1	6,288.1	21.9	11.0	-172.60	131.9	-143.6	1,189.8	1,167.7	22.11	53.808		
6,400.0	6,298.2	6,386.2	6,386.2	22.3	11.1	-172.72	131.9	-143.6	1,209.1	1,186.6	22.45	53.847		
6,500.0	6,396.3	6,484.3	6,484.3	22.6	11.3	-172.84	131.9	-143.6	1,228.3	1,205.5	22.80	53.886		
6,600.0	6,494.4	6,582.4	6,582.4	23.0	11.5	-172.95	131.9	-143.6	1,247.6	1,224.5	23.14	53.923		
6,700.0	6,592.5	6,680.5	6,680.5	23.4	11.7	-173.06	131.9	-143.6	1,266.9	1,243.4	23.48	53.959		
6,800.0	6,690.6	6,778.6	6,778.6	23.8	11.8	-173.16	131.9	-143.6	1,286.1	1,262.3	23.82	53.994		
6,900.0	6,788.7	6,876.7	6,876.7	24.2	12.0	-173.26	131.9	-143.6	1,305.4	1,281.3	24.16	54.029		
7,000.0	6,886.8	6,974.8	6,974.8	24.6	12.2	-173.36	131.9	-143.6	1,324.7	1,300.2	24.50	54.062		
7,068.1	6,953.6	7,041.6	7,041.6	24.8	12.3	-173.43	131.9	-143.6	1,337.8	1,313.1	24.74	54.084		
7,100.0	6,984.9	7,072.9	7,072.9	25.0	12.3	-157.89	131.9	-143.6	1,344.0	1,319.1	24.90	53.986		
7,150.0	7,033.5	7,121.5	7,121.5	25.2	12.4	-139.30	131.9	-143.6	1,353.7	1,328.6	25.16	53.800		
7,200.0	7,081.4	7,169.4	7,169.4	25.4	12.5	-127.21	131.9	-143.6	1,363.6	1,338.1	25.45	53.587		
7,250.0	7,128.3	7,216.3	7,216.3	25.6	12.6	-119.35	131.9	-143.6	1,373.5	1,347.8	25.75	53.350		
7,300.0	7,173.7	7,261.7	7,261.7	25.8	12.7	-114.04	131.9	-143.6	1,383.6	1,357.5	26.06	53.090		
7,350.0	7,217.2	7,305.2	7,305.2	26.1	12.8	-110.31	131.9	-143.6	1,393.9	1,367.5	26.40	52.806		
7,400.0	7,258.7	7,346.7	7,346.7	26.3	12.8	-107.57	131.9	-143.6	1,404.5	1,377.8	26.76	52.493		
7,450.0	7,297.7	7,385.7	7,385.7	26.6	12.9	-105.49	131.9	-143.6	1,415.6	1,388.4	27.15	52.145		
7,500.0	7,334.0	7,422.0	7,422.0	26.9	13.0	-103.81	131.9	-143.6	1,427.2	1,399.6	27.58	51.756		
7,550.0	7,367.2	7,455.2	7,455.2	27.2	13.0	-102.39	131.9	-143.6	1,439.5	1,411.5	28.05	51.322		
7,600.0	7,397.2	7,485.2	7,485.2	27.5	13.1	-101.10	131.9	-143.6	1,452.6	1,424.0	28.57	50.845		
7,650.0	7,423.7	7,511.7	7,511.7	27.8	13.1	-99.84	131.9	-143.6	1,466.6	1,437.4	29.14	50.334		
7,700.0	7,446.5	7,534.5	7,534.5	28.2	13.2	-98.54	131.9	-143.6	1,481.5	1,451.7	29.74	49.808		
7,750.0	7,465.4	7,553.4	7,553.4	28.6	13.2	-97.15	131.9	-143.6	1,497.3	1,466.9	30.38	49.294		
7,800.0	7,480.4	7,568.4	7,568.4	29.0	13.2	-95.63	131.9	-143.6	1,514.1	1,483.1	31.01	48.830		
7,850.0	7,491.1	7,579.1	7,579.1	29.3	13.2	-93.95	131.9	-143.6	1,531.9	1,500.3	31.61	48.460		
7,900.0	7,497.7	7,585.7	7,585.7	29.8	13.2	-92.10	131.9	-143.6	1,550.5	1,518.3	32.15	48.230		
7,951.9	7,500.0	7,588.0	7,588.0	30.2	13.2	-90.00	131.9	-143.6	1,570.5	1,537.9	32.59	48.189		
8,000.0	7,500.0	7,588.0	7,588.0	30.6	13.2	-90.00	131.9	-143.6	1,590.1	1,556.8	33.24	47.829		
8,100.0	7,500.0	7,588.0	7,588.0	31.5	13.2	-90.00	131.9	-143.6	1,634.5	1,599.8	34.65	47.176		
8,200.0	7,500.0	7,588.0	7,588.0	32.5	13.2	-90.00	131.9	-143.6	1,683.6	1,647.5	36.10	46.643		
8,300.0	7,500.0	7,588.0	7,588.0	33.6	13.2	-90.00	131.9	-143.6	1,737.2	1,699.6	37.59	46.218		
8,400.0	7,500.0	7,588.0	7,588.0	34.7	13.2	-90.00	131.9	-143.6	1,794.7	1,755.6	39.11	45.888		
8,500.0	7,500.0	7,588.0	7,588.0	35.9	13.2	-90.00	131.9	-143.6	1,855.8	1,815.1	40.66	45.642		
8,551.9	7,500.0	7,588.0	7,588.0	36.5	13.2	-90.00	131.9	-143.6	1,888.8	1,847.3	41.47	45.542		
8,600.0	7,500.0	7,588.0	7,588.0	37.1	13.2	-90.00	131.9	-143.6	1,920.2	1,878.0	42.23	45.465		
8,700.0	7,500.0	7,588.0	7,588.0	38.3	13.2	-90.00	131.9	-143.6	1,987.5	1,943.7	43.83	45.348		
8,800.0	7,500.0	7,588.0	7,588.0	39.6	13.2	-90.00	131.9	-143.6	2,057.5	2,012.1	45.44	45.282		
8,900.0	7,500.0	7,588.0	7,588.0	40.9	13.2	-90.00	131.9	-143.6	2,129.9	2,082.8	47.06	45.257 SF		
9,000.0	7,500.0	7,588.0	7,588.0	42.3	13.2	-90.00	131.9	-143.6	2,204.5	2,155.8	48.70	45.266		
9,100.0	7,500.0	7,588.0	7,588.0	43.7	13.2	-90.00	131.9	-143.6	2,281.0	2,230.6	50.35	45.305		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	45.1	13.2	-90.00	131.9	-143.6	2,359.2	2,307.2	52.00	45.366		
9,300.0	7,500.0	7,588.0	7,588.0	46.5	13.2	-90.00	131.9	-143.6	2,439.1	2,385.4	53.67	45.446		
9,400.0	7,500.0	7,588.0	7,588.0	48.0	13.2	-90.00	131.9	-143.6	2,520.4	2,465.0	55.34	45.542		
9,500.0	7,500.0	7,588.0	7,588.0	49.5	13.2	-90.00	131.9	-143.6	2,602.9	2,545.9	57.02	45.649		
9,551.9	7,500.0	7,588.0	7,588.0	50.2	13.2	-90.00	131.9	-143.6	2,646.3	2,588.4	57.89	45.709		
9,600.0	7,500.0	7,588.0	7,588.0	51.0	13.2	-90.00	131.9	-143.6	2,686.6	2,628.1	58.52	45.906		
9,700.0	7,500.0	7,588.0	7,588.0	52.4	13.2	-90.00	131.9	-143.6	2,770.6	2,710.7	59.83	46.310		
9,800.0	7,500.0	7,588.0	7,588.0	53.9	13.2	-90.00	131.9	-143.6	2,854.6	2,793.5	61.12	46.705		
9,900.0	7,500.0	7,588.0	7,588.0	55.4	13.2	-90.00	131.9	-143.6	2,938.8	2,876.4	62.40	47.092		
10,000.0	7,500.0	7,588.0	7,588.0	56.9	13.2	-90.00	131.9	-143.6	3,023.0	2,959.3	63.68	47.472		
10,100.0	7,500.0	7,588.0	7,588.0	58.4	13.2	-90.00	131.9	-143.6	3,107.2	3,042.2	64.94	47.845		
10,201.9	7,500.0	7,588.0	7,588.0	60.0	13.2	-90.00	131.9	-143.6	3,193.0	3,126.8	66.22	48.219		
10,300.0	7,500.0	7,588.0	7,588.0	61.5	13.2	-90.00	131.9	-143.6	3,276.0	3,208.1	67.90	48.250		
10,400.0	7,500.0	7,588.0	7,588.0	63.0	13.2	-90.00	131.9	-143.6	3,361.5	3,291.9	69.61	48.289		
10,500.0	7,500.0	7,588.0	7,588.0	64.5	13.2	-90.00	131.9	-143.6	3,447.7	3,376.4	71.33	48.336		
10,600.0	7,500.0	7,588.0	7,588.0	66.1	13.2	-90.00	131.9	-143.6	3,534.7	3,461.7	73.05	48.389		
10,700.0	7,500.0	7,588.0	7,588.0	67.7	13.2	-90.00	131.9	-143.6	3,622.4	3,547.6	74.77	48.446		
10,800.0	7,500.0	7,588.0	7,588.0	69.2	13.2	-90.00	131.9	-143.6	3,710.6	3,634.1	76.50	48.508		
10,900.0	7,500.0	7,588.0	7,588.0	70.8	13.2	-90.00	131.9	-143.6	3,799.5	3,721.3	78.22	48.573		
11,000.0	7,500.0	7,588.0	7,588.0	72.4	13.2	-90.00	131.9	-143.6	3,888.9	3,808.9	79.95	48.641		
11,100.0	7,500.0	7,588.0	7,588.0	74.0	13.2	-90.00	131.9	-143.6	3,978.8	3,897.1	81.68	48.711		
11,200.0	7,500.0	7,588.0	7,588.0	75.6	13.2	-90.00	131.9	-143.6	4,069.2	3,985.8	83.41	48.783		
11,300.0	7,500.0	7,588.0	7,588.0	77.2	13.2	-90.00	131.9	-143.6	4,160.0	4,074.8	85.15	48.856		
11,400.0	7,500.0	7,588.0	7,588.0	78.8	13.2	-90.00	131.9	-143.6	4,251.2	4,164.3	86.88	48.930		
11,500.0	7,500.0	7,588.0	7,588.0	80.5	13.2	-90.00	131.9	-143.6	4,342.8	4,254.2	88.62	49.005		
11,600.0	7,500.0	7,588.0	7,588.0	82.1	13.2	-90.00	131.9	-143.6	4,434.8	4,344.4	90.36	49.081		
11,700.0	7,500.0	7,588.0	7,588.0	83.7	13.2	-90.00	131.9	-143.6	4,527.1	4,435.0	92.10	49.157		
11,801.9	7,500.0	7,588.0	7,588.0	85.4	13.2	-90.00	131.9	-143.6	4,621.5	4,527.6	93.87	49.234		
11,900.0	7,500.0	7,588.0	7,588.0	87.0	13.2	-90.00	131.9	-143.6	4,713.0	4,616.9	96.03	49.077		
12,000.0	7,500.0	7,588.0	7,588.0	88.7	13.2	-90.00	131.9	-143.6	4,807.1	4,708.9	98.21	48.945		
12,100.0	7,500.0	7,588.0	7,588.0	90.4	13.2	-90.00	131.9	-143.6	4,902.0	4,801.6	100.37	48.839		
12,200.0	7,500.0	7,588.0	7,588.0	92.0	13.2	-90.00	131.9	-143.6	4,997.6	4,895.1	102.50	48.756		
12,300.0	7,500.0	7,588.0	7,588.0	93.7	13.2	-90.00	131.9	-143.6	5,093.9	4,989.3	104.61	48.695		
12,400.0	7,500.0	7,588.0	7,588.0	95.4	13.2	-90.00	131.9	-143.6	5,190.7	5,084.0	106.68	48.655		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
0.0	0.0	44.7	44.7	0.0	0.1	36.72	1,577.0	1,176.4	1,967.4				
100.0	100.0	142.9	142.9	0.2	0.3	36.75	1,576.6	1,177.4	1,967.8	1,967.4	0.40	4,898.339	
200.0	200.0	248.1	248.1	0.3	0.4	36.80	1,575.7	1,178.9	1,967.9	1,967.1	0.76	2,589.968	
300.0	300.0	349.7	349.7	0.5	0.6	36.83	1,575.1	1,179.8	1,967.9	1,966.8	1.11	1,770.303	
400.0	400.0	454.4	454.4	0.7	0.8	-45.31	1,574.7	1,180.0	1,967.2	1,965.7	1.47	1,335.926	
500.0	500.0	556.4	556.3	0.9	1.0	-45.38	1,574.4	1,179.8	1,965.0	1,963.1	1.83	1,076.124	
600.0	599.9	665.9	665.9	1.0	1.2	-45.52	1,574.2	1,179.1	1,961.4	1,959.2	2.20	893.105	
700.0	699.7	777.3	777.3	1.2	1.4	-45.70	1,573.2	1,178.2	1,955.9	1,953.3	2.58	759.459	
800.0	799.4	881.2	881.1	1.4	1.5	-45.92	1,571.7	1,177.4	1,948.8	1,945.9	2.95	660.777	
900.0	898.9	983.5	983.4	1.7	1.7	-46.17	1,569.9	1,176.8	1,940.4	1,937.1	3.33	582.790	
1,000.0	998.3	1,084.6	1,084.5	1.9	1.9	-46.48	1,568.3	1,175.8	1,930.7	1,927.0	3.72	519.164	
1,100.0	1,097.4	1,190.1	1,190.0	2.2	2.1	-46.88	1,566.8	1,174.2	1,919.6	1,915.5	4.13	464.927	
1,200.0	1,196.3	1,288.1	1,287.9	2.5	2.3	-47.32	1,565.6	1,172.0	1,907.2	1,902.7	4.54	419.951	
1,300.0	1,294.9	1,387.0	1,386.9	2.8	2.4	-47.83	1,564.6	1,169.6	1,893.8	1,888.8	4.97	380.711	
1,400.0	1,393.3	1,480.9	1,480.7	3.2	2.6	-48.38	1,563.9	1,166.9	1,879.3	1,873.9	5.42	346.813	
1,419.0	1,411.9	1,500.0	1,499.8	3.2	2.6	-48.50	1,563.9	1,166.4	1,876.5	1,871.0	5.51	340.744	
1,500.0	1,491.4	1,574.3	1,574.1	3.5	2.8	-48.89	1,563.6	1,164.2	1,864.4	1,858.6	5.88	317.290	
1,600.0	1,589.5	1,674.7	1,674.4	3.9	2.9	-49.41	1,563.1	1,161.7	1,849.8	1,843.4	6.35	291.104	
1,700.0	1,687.6	1,766.6	1,766.3	4.2	3.1	-49.90	1,562.8	1,159.0	1,835.2	1,828.4	6.82	268.913	
1,800.0	1,785.7	1,861.9	1,861.5	4.6	3.3	-50.42	1,562.9	1,156.2	1,821.2	1,813.8	7.31	249.233	
1,900.0	1,883.8	1,953.5	1,953.1	5.0	3.4	-50.92	1,562.8	1,154.0	1,807.3	1,799.5	7.79	232.086	
2,000.0	1,981.9	2,041.8	2,041.4	5.4	3.6	-51.39	1,563.0	1,152.3	1,794.2	1,785.9	8.27	217.051	
2,100.0	2,080.0	2,136.4	2,136.0	5.7	3.8	-51.91	1,563.4	1,150.8	1,781.6	1,772.8	8.76	203.346	
2,200.0	2,178.1	2,236.6	2,236.2	6.1	3.9	-52.44	1,563.6	1,149.6	1,769.0	1,759.8	9.27	190.821	
2,300.0	2,276.2	2,334.6	2,334.2	6.5	4.1	-52.96	1,563.5	1,148.8	1,756.6	1,746.9	9.78	179.631	
2,400.0	2,374.3	2,430.0	2,429.6	6.9	4.3	-53.48	1,563.5	1,147.8	1,744.4	1,734.1	10.29	169.562	
2,500.0	2,472.3	2,515.9	2,515.4	7.3	4.4	-53.96	1,564.0	1,146.8	1,732.7	1,721.9	10.78	160.703	
2,600.0	2,570.4	2,602.1	2,601.6	7.6	4.6	-54.47	1,565.4	1,145.5	1,721.9	1,710.6	11.28	152.617	
2,700.0	2,668.5	2,706.5	2,706.0	8.0	4.8	-55.11	1,567.4	1,143.7	1,711.5	1,699.6	11.83	144.719	
2,800.0	2,766.6	2,812.2	2,811.6	8.4	4.9	-55.77	1,569.0	1,141.4	1,700.7	1,688.4	12.38	137.412	
2,900.0	2,864.7	2,909.1	2,908.5	8.8	5.1	-56.38	1,570.2	1,139.6	1,690.0	1,677.1	12.91	130.893	
3,000.0	2,962.8	3,000.0	2,999.4	9.2	5.3	-56.93	1,571.3	1,138.5	1,679.7	1,666.3	13.44	125.021	
3,100.0	3,060.9	3,094.2	3,093.6	9.5	5.4	-57.50	1,572.5	1,137.7	1,669.9	1,655.9	13.97	119.543	
3,200.0	3,159.0	3,198.7	3,198.1	9.9	5.6	-58.13	1,573.8	1,136.9	1,660.2	1,645.7	14.53	114.286	
3,300.0	3,257.1	3,316.2	3,315.5	10.3	5.8	-58.85	1,574.1	1,136.0	1,649.9	1,634.8	15.11	109.157	
3,400.0	3,355.2	3,420.5	3,419.8	10.7	6.0	-59.49	1,573.8	1,134.8	1,639.1	1,623.4	15.68	104.540	
3,500.0	3,453.3	3,530.3	3,529.7	11.1	6.2	-60.17	1,572.8	1,133.3	1,627.8	1,611.5	16.26	100.122	
3,600.0	3,551.4	3,638.9	3,638.3	11.5	6.4	-60.85	1,571.2	1,131.9	1,616.2	1,599.3	16.84	95.990	
3,700.0	3,649.5	3,741.8	3,741.1	11.9	6.6	-61.49	1,568.6	1,130.6	1,603.9	1,586.5	17.40	92.155	
3,800.0	3,747.6	3,833.0	3,832.3	12.2	6.7	-62.04	1,566.5	1,130.2	1,592.2	1,574.3	17.95	88.713	
3,900.0	3,845.7	3,938.2	3,937.5	12.6	6.9	-62.69	1,564.1	1,129.5	1,580.6	1,562.1	18.53	85.317	
4,000.0	3,943.8	4,042.2	4,041.4	13.0	7.1	-63.37	1,561.4	1,127.8	1,568.7	1,549.6	19.11	82.097	
4,100.0	4,041.9	4,142.1	4,141.2	13.4	7.3	-64.01	1,558.4	1,126.9	1,556.8	1,537.1	19.68	79.103	
4,200.0	4,140.0	4,238.4	4,237.5	13.8	7.5	-64.64	1,555.5	1,125.7	1,545.0	1,524.7	20.25	76.296	
4,300.0	4,238.1	4,327.2	4,326.2	14.2	7.6	-65.25	1,553.2	1,124.4	1,533.7	1,512.9	20.81	73.714	
4,400.0	4,336.2	4,411.3	4,410.3	14.5	7.8	-65.83	1,551.7	1,123.2	1,523.4	1,502.0	21.35	71.340	
4,500.0	4,434.3	4,500.0	4,499.0	14.9	7.9	-66.46	1,550.8	1,122.2	1,514.1	1,492.2	21.92	69.088	
4,600.0	4,532.4	4,593.6	4,592.6	15.3	8.1	-67.12	1,550.2	1,121.3	1,505.5	1,483.0	22.49	66.940	
4,700.0	4,630.5	4,696.9	4,695.9	15.7	8.3	-67.86	1,549.6	1,120.2	1,497.0	1,473.9	23.09	64.836	
4,800.0	4,728.6	4,791.2	4,790.2	16.1	8.4	-68.55	1,548.9	1,119.2	1,488.7	1,465.0	23.67	62.895	
4,900.0	4,826.7	4,889.2	4,888.2	16.5	8.6	-69.27	1,548.3	1,118.2	1,480.8	1,456.5	24.26	61.034	
5,000.0	4,924.8	4,984.9	4,983.9	16.9	8.8	-69.99	1,547.8	1,116.9	1,473.1	1,448.2	24.85	59.279	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,022.9	5,074.0	5,073.0	17.2	8.9	-70.67	1,547.7	1,115.6	1,466.0	1,440.6	25.43	57.660	
5,200.0	5,121.0	5,171.0	5,170.0	17.6	9.1	-71.41	1,548.0	1,114.5	1,459.7	1,433.7	26.02	56.099	
5,300.0	5,219.1	5,267.2	5,266.1	18.0	9.3	-72.15	1,548.2	1,113.6	1,453.5	1,426.9	26.61	54.619	
5,400.0	5,317.2	5,356.1	5,355.1	18.4	9.4	-72.85	1,548.8	1,112.4	1,448.0	1,420.8	27.19	53.253	
5,500.0	5,415.3	5,451.7	5,450.7	18.8	9.6	-73.60	1,549.9	1,111.3	1,443.3	1,415.5	27.79	51.946	
5,600.0	5,513.4	5,549.4	5,548.4	19.2	9.8	-74.38	1,550.9	1,110.1	1,438.7	1,410.3	28.38	50.686	
5,700.0	5,611.5	5,647.1	5,646.1	19.6	9.9	-75.17	1,552.2	1,108.7	1,434.7	1,405.7	28.99	49.496	
5,800.0	5,709.6	5,745.6	5,744.5	19.9	10.1	-75.97	1,553.3	1,107.3	1,430.6	1,401.1	29.59	48.352	
5,900.0	5,807.7	5,839.0	5,837.9	20.3	10.3	-76.73	1,554.5	1,106.0	1,427.2	1,397.0	30.18	47.293	
6,000.0	5,905.8	5,933.6	5,932.5	20.7	10.4	-77.51	1,556.0	1,104.7	1,424.2	1,393.4	30.77	46.285	
6,100.0	6,003.9	6,027.1	6,025.9	21.1	10.6	-78.28	1,557.7	1,103.5	1,421.9	1,390.6	31.36	45.343	
6,200.0	6,102.0	6,127.5	6,126.4	21.5	10.8	-79.08	1,559.6	1,102.8	1,419.8	1,387.9	31.96	44.427	
6,300.0	6,200.1	6,225.5	6,224.3	21.9	10.9	-79.87	1,561.4	1,102.1	1,418.0	1,385.5	32.55	43.561	
6,400.0	6,298.2	6,324.9	6,323.7	22.3	11.1	-80.67	1,563.0	1,101.2	1,416.4	1,383.2	33.15	42.728	
6,500.0	6,396.3	6,419.9	6,418.7	22.6	11.3	-81.44	1,564.8	1,100.4	1,415.2	1,381.4	33.73	41.951	
6,600.0	6,494.4	6,519.9	6,518.6	23.0	11.5	-82.27	1,566.6	1,099.2	1,414.2	1,379.9	34.33	41.196	
6,700.0	6,592.5	6,615.7	6,614.5	23.4	11.6	-83.06	1,568.2	1,098.0	1,413.5	1,378.5	34.91	40.487	
6,736.4	6,628.2	6,646.6	6,645.3	23.6	11.7	-83.32	1,568.9	1,097.6	1,413.4	1,378.3	35.12	40.250	
6,800.0	6,690.6	6,700.0	6,698.7	23.8	11.8	-83.76	1,570.2	1,097.0	1,413.6	1,378.2	35.47	39.855	
6,900.0	6,788.7	6,791.3	6,789.9	24.2	11.9	-84.50	1,573.0	1,096.2	1,414.8	1,378.7	36.04	39.260	
7,000.0	6,886.8	6,887.5	6,886.1	24.6	12.1	-85.25	1,576.4	1,096.2	1,416.5	1,379.9	36.61	38.694	
7,068.1	6,953.6	6,951.8	6,950.4	24.8	12.2	-85.73	1,578.7	1,096.6	1,418.0	1,381.0	36.99	38.331	
7,100.0	6,984.9	6,981.8	6,980.3	25.0	12.3	-70.97	1,579.9	1,096.9	1,417.8	1,380.7	37.12	38.196	
7,150.0	7,033.5	7,026.7	7,025.2	25.2	12.3	-53.49	1,581.7	1,097.6	1,414.2	1,377.1	37.13	38.084	
7,200.0	7,081.4	7,070.0	7,068.4	25.4	12.4	-42.37	1,583.6	1,098.3	1,406.5	1,369.6	36.92	38.091	
7,250.0	7,128.3	7,111.7	7,110.0	25.6	12.5	-35.39	1,585.5	1,099.0	1,394.8	1,358.3	36.50	38.214	
7,300.0	7,173.7	7,150.4	7,148.7	25.8	12.6	-30.89	1,587.6	1,099.9	1,379.2	1,343.3	35.86	38.455	
7,350.0	7,217.2	7,188.0	7,186.2	26.1	12.6	-27.96	1,589.8	1,100.7	1,359.8	1,324.8	35.04	38.809	
7,400.0	7,258.7	7,226.4	7,224.5	26.3	12.7	-26.11	1,592.3	1,101.8	1,336.8	1,302.8	34.05	39.264	
7,450.0	7,297.7	7,264.1	7,262.1	26.6	12.7	-25.04	1,594.8	1,103.0	1,310.3	1,277.4	32.91	39.812	
7,500.0	7,334.0	7,300.0	7,297.9	26.9	12.8	-24.61	1,597.4	1,104.3	1,280.3	1,248.7	31.66	40.434	
7,550.0	7,367.2	7,345.6	7,343.3	27.2	12.9	-24.96	1,600.5	1,106.2	1,247.0	1,216.6	30.39	41.033	
7,600.0	7,397.2	7,386.9	7,384.5	27.5	13.0	-25.97	1,603.0	1,107.8	1,210.5	1,181.4	29.12	41.565	
7,650.0	7,423.7	7,423.2	7,420.7	27.8	13.0	-27.74	1,605.0	1,109.3	1,171.1	1,143.1	27.95	41.898	
7,700.0	7,446.5	7,454.4	7,451.9	28.2	13.1	-30.50	1,606.5	1,110.6	1,129.2	1,102.2	27.00	41.815	
7,750.0	7,465.4	7,480.3	7,477.8	28.6	13.1	-34.64	1,607.6	1,111.7	1,085.1	1,058.7	26.47	40.991	
7,800.0	7,480.4	7,500.9	7,498.4	29.0	13.1	-40.81	1,608.5	1,112.6	1,039.4	1,012.7	26.62	39.046	
7,850.0	7,491.1	7,515.4	7,512.8	29.3	13.2	-50.03	1,609.0	1,113.2	992.3	964.5	27.73	35.783	
7,900.0	7,497.7	7,525.0	7,522.3	29.8	13.2	-63.83	1,609.3	1,113.6	944.2	914.3	29.90	31.583	
7,951.9	7,500.0	7,529.6	7,527.0	30.2	13.2	-83.71	1,609.5	1,113.8	893.8	861.6	32.25	27.718	
8,000.0	7,500.0	7,531.5	7,528.8	30.6	13.2	-84.23	1,609.6	1,113.9	847.0	814.1	32.94	25.717	
8,100.0	7,500.0	7,535.2	7,532.6	31.5	13.2	-85.30	1,609.7	1,114.0	750.2	715.8	34.40	21.806	
8,200.0	7,500.0	7,538.9	7,536.2	32.5	13.2	-86.34	1,609.8	1,114.2	654.4	618.5	35.91	18.221	
8,300.0	7,500.0	7,542.4	7,539.8	33.6	13.2	-87.35	1,609.9	1,114.3	560.0	522.5	37.45	14.952	
8,400.0	7,500.0	7,545.9	7,543.2	34.7	13.2	-88.34	1,610.0	1,114.4	467.9	428.8	39.01	11.992	
8,500.0	7,500.0	7,549.2	7,546.6	35.9	13.2	-89.30	1,610.2	1,114.6	379.7	339.1	40.59	9.354	
8,551.9	7,500.0	7,550.9	7,548.3	36.5	13.2	-89.78	1,610.2	1,114.6	336.6	295.2	41.42	8.127	
8,600.0	7,500.0	7,552.4	7,549.8	37.1	13.2	-90.23	1,610.3	1,114.7	299.1	257.0	42.19	7.091	
8,700.0	7,500.0	7,555.6	7,552.9	38.3	13.2	-91.14	1,610.4	1,114.8	234.0	190.2	43.79	5.343	
8,800.0	7,500.0	7,558.7	7,556.0	39.6	13.2	-92.02	1,610.4	1,115.0	200.0	154.6	45.40	4.405	
8,823.8	7,500.0	7,559.4	7,556.7	39.9	13.2	-92.23	1,610.5	1,115.0	198.6	152.8	45.78	4.337 CC, ES, SF	
8,900.0	7,500.0	7,561.6	7,559.0	40.9	13.3	-92.88	1,610.5	1,115.1	212.6	165.6	47.01	4.523	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	7,564.6	7,561.9	42.3	13.3	-93.72	1,610.6	1,115.2	265.4	216.8	48.62	5.458	
9,100.0	7,500.0	7,567.4	7,564.7	43.7	13.3	-94.53	1,610.7	1,115.3	340.0	289.8	50.23	6.769	
9,200.0	7,500.0	7,570.1	7,567.5	45.1	13.3	-95.33	1,610.8	1,115.4	425.2	373.4	51.84	8.202	
9,300.0	7,500.0	7,572.8	7,570.1	46.5	13.3	-96.10	1,610.9	1,115.5	515.7	462.3	53.45	9.649	
9,400.0	7,500.0	7,575.4	7,572.7	48.0	13.3	-96.84	1,610.9	1,115.6	609.2	554.1	55.05	11.066	
9,500.0	7,500.0	7,578.0	7,575.3	49.5	13.3	-97.57	1,611.0	1,115.7	704.4	647.8	56.65	12.435	
9,551.9	7,500.0	7,579.3	7,576.6	50.2	13.3	-97.94	1,611.0	1,115.7	754.3	696.9	57.47	13.125	
9,600.0	7,500.0	7,580.4	7,577.8	51.0	13.3	-98.03	1,611.1	1,115.8	800.8	742.7	58.09	13.785	
9,700.0	7,500.0	7,582.8	7,580.1	52.4	13.3	-98.12	1,611.1	1,115.9	897.6	838.2	59.37	15.117	
9,800.0	7,500.0	7,585.0	7,582.4	53.9	13.3	-98.11	1,611.2	1,116.0	994.6	934.0	60.66	16.396	
9,900.0	7,500.0	7,587.2	7,584.5	55.4	13.3	-98.03	1,611.3	1,116.0	1,091.8	1,029.9	61.95	17.625	
10,000.0	7,500.0	7,589.2	7,586.5	56.9	13.3	-97.89	1,611.3	1,116.1	1,189.1	1,125.9	63.23	18.805	
10,100.0	7,500.0	7,591.2	7,588.5	58.4	13.3	-97.70	1,611.4	1,116.2	1,286.4	1,221.9	64.51	19.940	
10,201.9	7,500.0	7,600.0	7,597.3	60.0	13.3	-98.72	1,611.6	1,116.5	1,385.7	1,320.0	65.66	21.105	
10,300.0	7,500.0	7,600.0	7,597.3	61.5	13.3	-98.72	1,611.6	1,116.5	1,481.3	1,414.0	67.31	22.006	
10,400.0	7,500.0	7,600.0	7,597.3	63.0	13.3	-98.72	1,611.6	1,116.5	1,579.1	1,510.1	69.01	22.884	
10,500.0	7,500.0	7,600.0	7,597.3	64.5	13.3	-98.72	1,611.6	1,116.5	1,677.2	1,606.5	70.70	23.722	
10,600.0	7,500.0	7,600.0	7,597.3	66.1	13.3	-98.72	1,611.6	1,116.5	1,775.5	1,703.1	72.40	24.523	
10,700.0	7,500.0	7,601.8	7,599.1	67.7	13.3	-99.05	1,611.6	1,116.6	1,873.9	1,799.9	74.05	25.307	
10,800.0	7,500.0	7,603.9	7,601.2	69.2	13.3	-99.42	1,611.7	1,116.7	1,972.5	1,896.9	75.68	26.063	
10,900.0	7,500.0	7,606.0	7,603.3	70.8	13.3	-99.79	1,611.7	1,116.7	2,071.3	1,994.0	77.32	26.790	
11,000.0	7,500.0	7,608.1	7,605.4	72.4	13.3	-100.17	1,611.8	1,116.8	2,170.1	2,091.2	78.94	27.490	
11,100.0	7,500.0	7,610.2	7,607.5	74.0	13.3	-100.54	1,611.8	1,116.9	2,269.1	2,188.5	80.57	28.164	
11,200.0	7,500.0	7,612.3	7,609.6	75.6	13.3	-100.91	1,611.9	1,116.9	2,368.1	2,286.0	82.18	28.816	
11,300.0	7,500.0	7,614.4	7,611.7	77.2	13.3	-101.28	1,611.9	1,117.0	2,467.3	2,383.5	83.79	29.445	
11,400.0	7,500.0	7,616.5	7,613.8	78.8	13.3	-101.66	1,612.0	1,117.1	2,566.5	2,481.1	85.40	30.053	
11,500.0	7,500.0	7,618.6	7,615.9	80.5	13.3	-102.03	1,612.0	1,117.2	2,665.7	2,578.7	87.00	30.642	
11,600.0	7,500.0	7,620.8	7,618.0	82.1	13.4	-102.40	1,612.1	1,117.2	2,765.0	2,676.4	88.59	31.212	
11,700.0	7,500.0	7,622.9	7,620.2	83.7	13.4	-102.78	1,612.1	1,117.3	2,864.3	2,774.2	90.17	31.766	
11,801.9	7,500.0	7,625.1	7,622.3	85.4	13.4	-103.16	1,612.2	1,117.4	2,965.6	2,873.8	91.78	32.313	
11,900.0	7,500.0	7,627.2	7,624.5	87.0	13.4	-106.05	1,612.2	1,117.5	3,063.2	2,970.5	92.78	33.017	
12,000.0	7,500.0	7,629.5	7,626.7	88.7	13.4	-110.48	1,612.3	1,117.6	3,162.9	3,070.2	92.72	34.112	
12,100.0	7,500.0	7,631.8	7,629.0	90.4	13.4	-117.76	1,612.4	1,117.6	3,262.7	3,172.7	90.02	36.246	
12,200.0	7,500.0	7,634.2	7,631.4	92.0	13.4	-131.18	1,612.4	1,117.7	3,362.6	3,282.9	79.68	42.201	
12,300.0	7,500.0	7,636.6	7,633.9	93.7	13.4	-157.83	1,612.5	1,117.8	3,462.6	3,415.0	47.60	72.737	
12,400.0	7,500.0	7,639.1	7,636.4	95.4	13.4	162.97	1,612.5	1,117.9	3,562.5	3,521.4	41.15	86.578	
12,500.0	7,500.0	7,641.7	7,639.0	97.1	13.4	135.03	1,612.6	1,118.0	3,662.5	3,582.8	79.66	45.979	
12,600.0	7,500.0	7,644.4	7,641.6	98.9	13.4	120.91	1,612.7	1,118.1	3,762.4	3,666.1	96.33	39.057	
12,700.0	7,500.0	7,647.1	7,644.4	100.6	13.4	113.32	1,612.7	1,118.2	3,862.3	3,757.9	104.34	37.018	
12,806.4	7,500.0	7,650.1	7,647.3	102.4	13.4	108.50	1,612.8	1,118.3	3,968.4	3,858.9	109.47	36.251	
12,900.0	7,500.0	7,652.7	7,649.9	104.0	13.4	108.95	1,612.9	1,118.3	4,061.7	3,951.0	110.75	36.674	
13,000.0	7,500.0	7,655.5	7,652.8	105.8	13.4	109.44	1,612.9	1,118.4	4,161.4	4,049.3	112.10	37.121	
13,100.0	7,500.0	7,658.3	7,655.6	107.5	13.4	109.92	1,613.0	1,118.5	4,261.2	4,147.7	113.44	37.563	
13,200.0	7,500.0	7,661.1	7,658.4	109.2	13.4	110.40	1,613.1	1,118.6	4,360.9	4,246.1	114.76	37.999	
13,300.0	7,500.0	7,664.0	7,661.2	111.0	13.4	110.87	1,613.2	1,118.7	4,460.6	4,344.6	116.07	38.430	
13,400.0	7,500.0	7,666.8	7,664.0	112.7	13.4	111.34	1,613.2	1,118.8	4,560.4	4,443.0	117.37	38.856	
13,500.0	7,500.0	7,669.6	7,666.9	114.5	13.4	111.81	1,613.3	1,118.9	4,660.2	4,541.5	118.64	39.279	
13,600.0	7,500.0	7,672.4	7,669.7	116.2	13.4	112.28	1,613.4	1,119.0	4,759.9	4,640.0	119.91	39.697	
13,700.0	7,500.0	7,675.3	7,672.5	117.9	13.4	112.74	1,613.4	1,119.1	4,859.7	4,738.6	121.15	40.112	
13,800.0	7,500.0	7,678.1	7,675.3	119.7	13.5	113.20	1,613.5	1,119.2	4,959.5	4,837.1	122.38	40.524	
13,900.0	7,500.0	7,681.0	7,678.2	121.4	13.5	113.66	1,613.6	1,119.3	5,059.3	4,935.7	123.60	40.932	
14,000.0	7,500.0	7,683.8	7,681.0	123.1	13.5	114.12	1,613.7	1,119.3	5,159.1	5,034.3	124.80	41.338	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
14,100.0	7,500.0	7,686.6	7,683.9	124.9	13.5	114.57	1,613.7	1,119.4	5,258.9	5,132.9	125.99	41.741					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	35.08	1,594.8	1,120.0	1,948.8					
100.0	100.0	151.1	151.1	0.2	0.3	35.08	1,594.8	1,120.1	1,948.8	1,948.4	0.42	4,689.513		
200.0	200.0	246.0	246.0	0.3	0.4	35.07	1,595.1	1,119.8	1,949.0	1,948.2	0.76	2,578.806		
300.0	300.0	381.4	381.4	0.5	0.7	35.04	1,595.4	1,118.6	1,948.8	1,947.6	1.17	1,669.673		
400.0	400.0	535.1	535.0	0.7	0.9	-47.02	1,589.0	1,119.6	1,945.0	1,943.4	1.62	1,203.413		
500.0	500.0	816.4	812.9	0.9	1.7	-46.28	1,548.5	1,130.9	1,932.7	1,930.3	2.46	785.415		
600.0	599.9	904.0	898.6	1.0	2.1	-46.06	1,531.1	1,135.3	1,916.6	1,913.7	2.90	661.156		
700.0	699.7	1,137.6	1,125.9	1.2	3.0	-45.31	1,478.3	1,145.2	1,897.3	1,893.5	3.84	494.301		
800.0	799.4	1,296.7	1,277.8	1.4	3.9	-44.74	1,431.5	1,150.6	1,870.1	1,865.4	4.64	402.924		
900.0	898.9	1,399.2	1,375.0	1.7	4.5	-44.44	1,399.0	1,154.3	1,840.3	1,835.0	5.26	349.733		
1,000.0	998.3	1,501.3	1,471.4	1.9	5.1	-44.12	1,365.8	1,158.9	1,809.3	1,803.4	5.91	306.022		
1,100.0	1,097.4	1,582.4	1,547.9	2.2	5.5	-43.94	1,339.2	1,162.8	1,777.2	1,770.8	6.48	274.305		
1,200.0	1,196.3	1,662.8	1,624.0	2.5	6.0	-43.78	1,313.4	1,166.9	1,744.8	1,737.8	7.06	247.069		
1,300.0	1,294.9	1,764.1	1,719.7	2.8	6.6	-43.53	1,280.7	1,173.0	1,711.6	1,703.9	7.77	220.415		
1,400.0	1,393.3	1,847.1	1,797.9	3.2	7.1	-43.37	1,253.4	1,178.3	1,677.2	1,668.8	8.40	199.584		
1,419.0	1,411.9	1,862.6	1,812.4	3.2	7.2	-43.34	1,248.4	1,179.3	1,670.6	1,662.0	8.52	195.993		
1,500.0	1,491.4	1,966.2	1,910.3	3.5	7.8	-42.89	1,214.6	1,184.5	1,641.5	1,632.3	9.21	178.278		
1,600.0	1,589.5	2,037.0	1,977.3	3.9	8.2	-42.59	1,191.9	1,187.5	1,605.8	1,595.9	9.80	163.816		
1,700.0	1,687.6	2,104.4	2,041.2	4.2	8.6	-42.29	1,171.0	1,191.1	1,571.5	1,561.1	10.39	151.271		
1,800.0	1,785.7	2,211.5	2,143.0	4.6	9.2	-41.79	1,138.3	1,197.6	1,538.1	1,526.9	11.17	137.690		
1,900.0	1,883.8	2,315.9	2,241.7	5.0	9.8	-41.23	1,104.7	1,204.1	1,503.7	1,491.7	11.97	125.619		
2,000.0	1,981.9	2,409.5	2,330.0	5.4	10.4	-40.69	1,074.4	1,209.7	1,469.0	1,456.3	12.71	115.608		
2,100.0	2,080.0	2,503.0	2,418.6	5.7	10.9	-40.19	1,044.8	1,214.4	1,434.4	1,421.0	13.43	106.810		
2,200.0	2,178.1	2,596.8	2,507.5	6.1	11.5	-39.67	1,015.3	1,218.8	1,399.9	1,385.7	14.15	98.911		
2,300.0	2,276.2	2,689.4	2,595.4	6.5	12.0	-39.16	986.5	1,222.8	1,365.4	1,350.6	14.87	91.811		
2,400.0	2,374.3	2,823.1	2,721.9	6.9	12.8	-38.33	943.5	1,228.3	1,330.5	1,314.7	15.81	84.170		
2,500.0	2,472.3	2,936.5	2,828.2	7.3	13.5	-37.54	904.0	1,230.9	1,292.4	1,275.7	16.67	77.537		
2,600.0	2,570.4	3,020.5	2,906.7	7.6	14.0	-36.88	874.1	1,233.3	1,254.3	1,236.9	17.39	72.127		
2,700.0	2,668.5	3,106.4	2,987.1	8.0	14.6	-36.17	844.0	1,235.9	1,216.8	1,198.6	18.12	67.143		
2,800.0	2,766.6	3,191.9	3,067.0	8.4	15.1	-35.41	814.1	1,239.1	1,180.1	1,161.2	18.86	62.556		
2,900.0	2,864.7	3,299.0	3,167.4	8.8	15.8	-34.42	776.5	1,242.5	1,143.2	1,123.4	19.72	57.976		
3,000.0	2,962.8	3,388.2	3,251.0	9.2	16.4	-33.59	745.4	1,243.9	1,105.5	1,085.1	20.46	54.028		
3,100.0	3,060.9	3,458.4	3,316.9	9.5	16.8	-32.90	721.6	1,245.8	1,069.4	1,048.3	21.10	50.670		
3,200.0	3,159.0	3,521.0	3,376.2	9.9	17.1	-32.28	701.5	1,248.3	1,035.8	1,014.1	21.70	47.736		
3,300.0	3,257.1	3,608.0	3,458.9	10.3	17.6	-31.41	674.9	1,252.8	1,004.0	981.6	22.42	44.779		
3,400.0	3,355.2	3,684.7	3,531.9	10.7	18.1	-30.58	651.9	1,257.6	973.7	950.6	23.10	42.152		
3,500.0	3,453.3	3,768.2	3,611.7	11.1	18.5	-29.67	628.2	1,263.4	945.1	921.4	23.77	39.753		
3,600.0	3,551.4	3,874.5	3,714.5	11.5	19.0	-28.74	601.3	1,268.2	916.9	892.4	24.48	37.449		
3,700.0	3,649.5	4,007.5	3,842.9	11.9	19.7	-27.60	566.8	1,269.6	885.6	860.3	25.33	34.958		
3,800.0	3,747.6	4,090.8	3,922.5	12.2	20.1	-26.66	542.3	1,270.6	852.9	826.9	26.01	32.798		
3,900.0	3,845.7	4,173.4	4,001.2	12.6	20.6	-25.51	517.6	1,274.3	822.7	796.0	26.71	30.803		
4,000.0	3,943.8	4,284.1	4,105.6	13.0	21.3	-23.64	481.6	1,280.3	792.3	764.7	27.62	28.688		
4,100.0	4,041.9	4,387.4	4,202.3	13.4	21.9	-21.60	445.4	1,284.8	760.5	732.0	28.50	26.689		
4,200.0	4,140.0	4,472.2	4,281.6	13.8	22.5	-19.78	415.5	1,288.4	729.3	700.1	29.26	24.929		
4,300.0	4,238.1	4,553.1	4,357.6	14.2	23.0	-17.97	388.1	1,292.4	700.2	670.3	29.95	23.379		
4,400.0	4,336.2	4,635.3	4,435.7	14.5	23.4	-16.20	362.7	1,296.8	673.5	642.9	30.61	22.003		
4,500.0	4,434.3	4,726.6	4,523.0	14.9	23.9	-14.26	336.5	1,301.9	648.7	617.4	31.30	20.726		
4,600.0	4,532.4	4,824.7	4,617.0	15.3	24.4	-12.12	309.1	1,306.8	624.5	592.6	31.99	19.524		
4,700.0	4,630.5	4,928.6	4,717.1	15.7	24.9	-9.83	281.3	1,310.1	600.0	567.3	32.67	18.362		
4,800.0	4,728.6	5,015.1	4,800.8	16.1	25.3	-7.91	259.4	1,312.6	576.3	543.0	33.24	17.334		
4,900.0	4,826.7	5,103.8	4,887.1	16.5	25.7	-6.02	239.4	1,315.7	554.6	520.9	33.78	16.419		
5,000.0	4,924.8	5,200.6	4,982.1	16.9	26.0	-4.16	220.6	1,318.8	534.1	499.8	34.29	15.575		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,297.2	5,077.3	17.2	26.3	-2.51	205.0	1,321.2	514.0	479.3	34.76	14.788	
5,200.0	5,121.0	5,395.5	5,174.5	17.6	26.6	-0.94	191.0	1,323.2	494.3	459.1	35.20	14.041	
5,300.0	5,219.1	5,494.9	5,273.2	18.0	26.8	0.51	178.9	1,324.5	474.5	438.9	35.62	13.324	
5,400.0	5,317.2	5,594.6	5,372.5	18.4	27.0	1.75	169.5	1,325.1	454.6	418.6	35.99	12.632	
5,500.0	5,415.3	5,689.6	5,467.2	18.8	27.2	2.71	162.9	1,325.3	434.7	398.4	36.32	11.970	
5,600.0	5,513.4	5,782.0	5,559.5	19.2	27.3	3.38	159.0	1,326.3	416.0	379.4	36.59	11.370	
5,700.0	5,611.5	5,892.7	5,670.2	19.6	27.4	3.70	158.0	1,326.1	396.4	359.5	36.84	10.759	
5,800.0	5,709.6	5,985.2	5,762.7	19.9	27.4	3.89	157.9	1,325.2	376.1	339.0	37.09	10.139	
5,900.0	5,807.7	6,079.6	5,857.2	20.3	27.5	4.15	157.6	1,325.5	357.0	319.7	37.33	9.564	
6,000.0	5,905.8	6,178.1	5,955.6	20.7	27.6	4.39	157.6	1,326.2	338.4	300.8	37.57	9.006	
6,100.0	6,003.9	6,275.7	6,053.3	21.1	27.6	4.57	158.2	1,326.8	319.7	281.9	37.81	8.455	
6,200.0	6,102.0	6,372.7	6,150.3	21.5	27.7	4.78	158.7	1,327.8	301.3	263.3	38.05	7.919	
6,300.0	6,200.1	6,471.6	6,249.1	21.9	27.8	5.05	159.0	1,329.0	283.2	244.9	38.30	7.395	
6,400.0	6,298.2	6,571.0	6,348.5	22.3	27.8	5.35	159.4	1,329.9	264.7	226.2	38.55	6.868	
6,500.0	6,396.3	6,669.2	6,446.7	22.6	27.9	5.71	159.6	1,330.5	246.0	207.2	38.80	6.341	
6,600.0	6,494.4	6,767.3	6,544.8	23.0	28.0	6.17	159.8	1,331.1	227.4	188.3	39.06	5.822	
6,700.0	6,592.5	6,865.3	6,642.8	23.4	28.0	6.74	159.8	1,331.9	208.9	169.5	39.33	5.311	
6,800.0	6,690.6	6,963.4	6,740.9	23.8	28.1	7.47	159.7	1,332.7	190.4	150.8	39.60	4.809	
6,900.0	6,788.7	7,061.5	6,839.0	24.2	28.2	8.38	159.5	1,333.6	172.1	132.2	39.89	4.315	
7,000.0	6,886.8	7,159.4	6,936.9	24.6	28.3	9.57	159.1	1,334.7	154.0	113.8	40.20	3.831	
7,068.1	6,953.6	7,226.0	7,003.4	24.8	28.4	10.70	158.4	1,335.6	141.9	101.5	40.44	3.509	
7,100.0	6,984.9	7,257.1	7,034.6	25.0	28.4	27.26	158.0	1,336.0	136.4	95.7	40.62	3.357	
7,150.0	7,033.5	7,306.1	7,083.5	25.2	28.4	49.33	157.3	1,336.8	128.2	87.1	41.10	3.120	
7,200.0	7,081.4	7,354.5	7,131.9	25.4	28.5	67.21	156.7	1,337.4	121.4	79.6	41.81	2.904	
7,250.0	7,128.3	7,401.7	7,179.2	25.6	28.5	82.89	156.2	1,337.8	117.3	74.8	42.55	2.757	
7,270.4	7,146.9	7,420.6	7,198.0	25.7	28.5	88.90	156.0	1,337.9	116.9	74.1	42.77	2.733 CC, ES, SF	
7,300.0	7,173.7	7,447.5	7,225.0	25.8	28.6	97.30	155.9	1,338.0	117.9	75.0	42.89	2.749	
7,350.0	7,217.2	7,491.6	7,269.0	26.1	28.6	110.34	155.6	1,338.0	124.9	82.5	42.45	2.943	
7,400.0	7,258.7	7,533.4	7,310.8	26.3	28.6	121.54	155.4	1,337.8	139.2	98.0	41.21	3.377	
7,450.0	7,297.7	7,572.7	7,350.2	26.6	28.7	130.66	155.2	1,337.4	160.5	121.0	39.43	4.070	
7,500.0	7,334.0	7,609.2	7,386.7	26.9	28.7	137.81	155.1	1,336.8	187.9	150.5	37.41	5.024	
7,550.0	7,367.2	7,642.4	7,419.8	27.2	28.7	143.21	155.0	1,336.2	220.5	185.2	35.36	6.237	
7,600.0	7,397.2	7,672.1	7,449.5	27.5	28.7	147.16	155.0	1,335.7	257.4	224.0	33.41	7.703	
7,650.0	7,423.7	7,698.4	7,475.8	27.8	28.8	149.92	154.9	1,335.3	297.7	266.0	31.65	9.406	
7,700.0	7,446.5	7,721.0	7,498.4	28.2	28.8	151.60	154.9	1,335.0	340.8	310.6	30.15	11.302	
7,750.0	7,465.4	7,739.7	7,517.2	28.6	28.8	152.18	154.8	1,334.8	386.1	357.1	29.07	13.281	
7,800.0	7,480.4	7,754.5	7,531.9	29.0	28.8	151.30	154.8	1,334.6	433.3	404.6	28.71	15.092	
7,850.0	7,491.1	7,765.2	7,542.6	29.3	28.8	147.77	154.8	1,334.5	481.7	451.9	29.79	16.172	
7,900.0	7,497.7	7,771.6	7,549.1	29.8	28.8	136.87	154.8	1,334.4	531.1	496.3	34.75	15.282	
7,951.9	7,500.0	7,773.8	7,551.3	30.2	28.8	88.76	154.8	1,334.4	582.8	534.8	47.92	12.161	
8,000.0	7,500.0	7,773.8	7,551.2	30.6	28.8	88.61	154.8	1,334.4	630.8	582.2	48.57	12.986	
8,100.0	7,500.0	7,773.6	7,551.0	31.5	28.8	88.30	154.8	1,334.4	730.7	680.7	49.97	14.622	
8,200.0	7,500.0	7,773.4	7,550.8	32.5	28.8	87.99	154.8	1,334.4	830.6	779.2	51.42	16.154	
8,300.0	7,500.0	7,773.2	7,550.6	33.6	28.8	87.67	154.8	1,334.4	930.5	877.6	52.90	17.590	
8,400.0	7,500.0	7,773.0	7,550.4	34.7	28.8	87.36	154.8	1,334.4	1,030.4	976.0	54.41	18.937	
8,500.0	7,500.0	7,772.8	7,550.3	35.9	28.8	87.05	154.8	1,334.4	1,130.4	1,074.4	55.95	20.203	
8,551.9	7,500.0	7,772.7	7,550.2	36.5	28.8	86.88	154.8	1,334.4	1,182.3	1,125.5	56.76	20.830	
8,600.0	7,500.0	7,772.7	7,550.1	37.1	28.8	86.73	154.8	1,334.4	1,230.4	1,172.8	57.51	21.393	
8,700.0	7,500.0	7,772.5	7,549.9	38.3	28.8	86.42	154.8	1,334.4	1,330.3	1,271.2	59.09	22.514	
8,800.0	7,500.0	7,772.3	7,549.7	39.6	28.8	86.11	154.8	1,334.4	1,430.3	1,369.6	60.68	23.572	
8,900.0	7,500.0	7,772.1	7,549.5	40.9	28.8	85.80	154.8	1,334.4	1,530.3	1,468.0	62.28	24.571	
9,000.0	7,500.0	7,771.9	7,549.3	42.3	28.8	85.48	154.8	1,334.4	1,630.2	1,566.3	63.89	25.517	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	7,771.7	7,549.1	43.7	28.8	85.17	154.8	1,334.4	1,730.2	1,664.7	65.51	26.413		
9,200.0	7,500.0	7,771.5	7,549.0	45.1	28.8	84.86	154.8	1,334.4	1,830.2	1,763.1	67.13	27.263		
9,300.0	7,500.0	7,771.4	7,548.8	46.5	28.8	84.54	154.8	1,334.4	1,930.2	1,861.4	68.76	28.072		
9,400.0	7,500.0	7,771.2	7,548.6	48.0	28.8	84.23	154.8	1,334.4	2,030.2	1,959.8	70.39	28.842		
9,500.0	7,500.0	7,771.0	7,548.4	49.5	28.8	83.92	154.8	1,334.4	2,130.2	2,058.1	72.02	29.575		
9,551.9	7,500.0	7,770.9	7,548.3	50.2	28.8	83.75	154.8	1,334.4	2,182.0	2,109.2	72.87	29.943		
9,600.0	7,500.0	7,770.8	7,548.2	51.0	28.8	76.05	154.8	1,334.4	2,230.1	2,158.1	72.01	30.968		
9,700.0	7,500.0	7,770.6	7,548.1	52.4	28.8	-80.87	154.8	1,334.4	2,330.1	2,255.9	74.25	31.383		
9,800.0	7,500.0	7,770.5	7,547.9	53.9	28.8	-86.45	154.8	1,334.4	2,430.1	2,353.7	76.39	31.812		
9,900.0	7,500.0	7,770.3	7,547.8	55.4	28.8	-87.78	154.8	1,334.4	2,530.1	2,452.3	77.81	32.516		
10,000.0	7,500.0	7,770.2	7,547.7	56.9	28.8	-88.39	154.8	1,334.4	2,629.9	2,550.8	79.15	33.227		
10,100.0	7,500.0	7,770.1	7,547.6	58.4	28.8	-88.73	154.8	1,334.4	2,729.7	2,649.3	80.45	33.928		
10,201.9	7,500.0	7,770.1	7,547.5	60.0	28.8	-88.96	154.8	1,334.4	2,831.3	2,749.5	81.76	34.629		
10,300.0	7,500.0	7,770.0	7,547.4	61.5	28.8	-88.95	154.8	1,334.4	2,929.0	2,845.6	83.44	35.104		
10,400.0	7,500.0	7,769.9	7,547.3	63.0	28.8	-88.93	154.8	1,334.4	3,028.6	2,943.5	85.15	35.568		
10,500.0	7,500.0	7,769.8	7,547.3	64.5	28.8	-88.92	154.8	1,334.4	3,128.3	3,041.4	86.87	36.012		
10,600.0	7,500.0	7,769.8	7,547.2	66.1	28.8	-88.90	154.8	1,334.4	3,228.0	3,139.4	88.59	36.439		
10,700.0	7,500.0	7,769.7	7,547.1	67.7	28.8	-88.89	154.8	1,334.4	3,327.7	3,237.4	90.31	36.848		
10,800.0	7,500.0	7,769.6	7,547.1	69.2	28.8	-88.87	154.8	1,334.4	3,427.4	3,335.4	92.03	37.241		
10,900.0	7,500.0	7,769.6	7,547.0	70.8	28.8	-88.85	154.8	1,334.4	3,527.2	3,433.4	93.76	37.619		
11,000.0	7,500.0	7,769.5	7,546.9	72.4	28.8	-88.84	154.8	1,334.4	3,626.9	3,531.4	95.49	37.983		
11,100.0	7,500.0	7,769.4	7,546.9	74.0	28.8	-88.82	154.8	1,334.4	3,726.7	3,629.5	97.22	38.334		
11,200.0	7,500.0	7,769.4	7,546.8	75.6	28.8	-88.81	154.8	1,334.4	3,826.5	3,727.5	98.95	38.672		
11,300.0	7,500.0	7,769.3	7,546.7	77.2	28.8	-88.79	154.8	1,334.4	3,926.3	3,825.6	100.68	38.997		
11,400.0	7,500.0	7,769.2	7,546.6	78.8	28.8	-88.78	154.8	1,334.4	4,026.1	3,923.7	102.42	39.311		
11,500.0	7,500.0	7,769.2	7,546.6	80.5	28.8	-88.76	154.8	1,334.4	4,125.9	4,021.7	104.15	39.615		
11,600.0	7,500.0	7,769.1	7,546.5	82.1	28.8	-88.74	154.8	1,334.4	4,225.7	4,119.8	105.89	39.908		
11,700.0	7,500.0	7,769.0	7,546.4	83.7	28.8	-88.73	154.8	1,334.4	4,325.5	4,217.9	107.62	40.191		
11,801.9	7,500.0	7,769.0	7,546.4	85.4	28.8	-88.71	154.8	1,334.4	4,427.3	4,317.9	109.40	40.470		
11,900.0	7,500.0	7,768.9	7,546.3	87.0	28.8	-88.12	154.8	1,334.4	4,525.3	4,413.8	111.51	40.583		
12,000.0	7,500.0	7,768.8	7,546.2	88.7	28.8	-86.47	154.8	1,334.4	4,625.2	4,511.7	113.50	40.750		
12,100.0	7,500.0	7,768.7	7,546.1	90.4	28.8	-64.33	154.8	1,334.5	4,725.2	4,620.3	104.92	45.038		
12,200.0	7,500.0	7,768.5	7,546.0	92.0	28.8	85.14	154.8	1,334.5	4,825.2	4,707.6	117.57	41.041		
12,300.0	7,500.0	7,768.4	7,545.8	93.7	28.8	87.73	154.8	1,334.5	4,925.2	4,805.2	119.92	41.069		
12,400.0	7,500.0	7,768.2	7,545.6	95.4	28.8	88.50	154.8	1,334.5	5,025.1	4,903.1	121.99	41.192		
12,500.0	7,500.0	7,768.0	7,545.4	97.1	28.8	88.87	154.8	1,334.5	5,124.9	5,000.9	124.00	41.330		
12,600.0	7,500.0	7,767.8	7,545.2	98.9	28.8	89.08	154.8	1,334.5	5,224.7	5,098.7	125.97	41.476		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
0.0	0.0	103.5	103.5	0.0	0.2	35.22	1,584.6	1,118.8	1,940.4					
100.0	100.0	301.9	301.5	0.2	0.6	35.27	1,575.3	1,114.2	1,935.3	1,934.6	0.74	2,626.362		
200.0	200.0	500.7	499.2	0.3	1.1	35.49	1,554.5	1,108.3	1,925.0	1,923.6	1.40	1,374.766		
300.0	300.0	613.7	611.0	0.5	1.5	35.71	1,538.4	1,105.7	1,912.1	1,910.3	1.88	1,018.460		
400.0	400.0	754.1	749.3	0.7	1.9	-46.19	1,514.2	1,103.2	1,896.3	1,894.2	2.11	898.079		
500.0	500.0	867.9	860.9	0.9	2.4	-46.03	1,492.4	1,101.7	1,878.1	1,875.6	2.56	734.701		
600.0	599.9	940.4	932.2	1.0	2.6	-46.00	1,478.9	1,101.2	1,859.7	1,856.7	2.91	639.437		
700.0	699.7	1,082.5	1,071.6	1.2	3.2	-45.86	1,451.7	1,100.3	1,839.8	1,836.3	3.45	534.033		
800.0	799.4	1,304.3	1,286.9	1.4	4.2	-45.56	1,398.8	1,095.0	1,813.9	1,809.7	4.23	428.318		
900.0	898.9	1,441.4	1,418.1	1.7	4.9	-45.45	1,359.4	1,089.8	1,782.0	1,777.2	4.83	368.931		
1,000.0	998.3	1,565.1	1,535.7	1.9	5.6	-45.38	1,321.2	1,085.0	1,747.3	1,741.8	5.42	322.522		
1,100.0	1,097.4	1,691.0	1,654.5	2.2	6.4	-45.32	1,279.9	1,079.9	1,709.9	1,703.8	6.04	283.217		
1,200.0	1,196.3	1,881.0	1,830.7	2.5	7.7	-45.04	1,209.6	1,070.6	1,667.4	1,660.5	6.94	240.179		
1,300.0	1,294.9	1,981.1	1,922.0	2.8	8.4	-45.00	1,168.9	1,065.8	1,621.4	1,613.8	7.56	214.432		
1,400.0	1,393.3	2,086.5	2,017.7	3.2	9.2	-44.99	1,125.0	1,060.2	1,573.2	1,565.0	8.21	191.572		
1,419.0	1,411.9	2,104.5	2,034.0	3.2	9.3	-44.99	1,117.4	1,059.3	1,563.9	1,555.5	8.33	187.753		
1,500.0	1,491.4	2,196.1	2,116.4	3.5	10.1	-44.59	1,077.7	1,055.0	1,523.5	1,514.6	8.97	169.921		
1,600.0	1,589.5	2,322.5	2,228.6	3.9	11.1	-43.88	1,019.6	1,048.8	1,471.6	1,461.7	9.85	149.387		
1,700.0	1,687.6	2,402.0	2,298.9	4.2	11.7	-43.43	982.9	1,043.9	1,418.9	1,408.4	10.51	135.011		
1,800.0	1,785.7	2,473.0	2,361.9	4.6	12.3	-43.02	950.6	1,039.5	1,366.8	1,355.7	11.14	122.743		
1,900.0	1,883.8	2,544.1	2,425.4	5.0	12.9	-42.58	918.7	1,035.4	1,315.7	1,303.9	11.77	111.772		
2,000.0	1,981.9	2,627.6	2,500.3	5.4	13.5	-42.06	882.3	1,030.7	1,265.4	1,253.0	12.45	101.606		
2,100.0	2,080.0	2,716.6	2,580.4	5.7	14.2	-41.52	843.9	1,024.8	1,215.1	1,201.9	13.18	92.189		
2,200.0	2,178.1	2,784.6	2,641.5	6.1	14.7	-41.03	814.2	1,021.1	1,165.2	1,151.4	13.82	84.286		
2,300.0	2,276.2	2,891.8	2,738.1	6.5	15.6	-40.18	768.2	1,016.0	1,116.4	1,101.8	14.69	76.015		
2,400.0	2,374.3	2,982.1	2,819.0	6.9	16.3	-39.44	728.4	1,009.6	1,065.5	1,050.0	15.47	68.895		
2,500.0	2,472.3	3,072.9	2,900.4	7.3	17.0	-38.65	688.7	1,002.8	1,014.7	998.4	16.24	62.468		
2,600.0	2,570.4	3,152.3	2,971.7	7.6	17.6	-37.95	654.5	996.2	963.9	946.9	16.96	56.829		
2,700.0	2,668.5	3,251.5	3,060.8	8.0	18.4	-36.96	611.6	987.8	913.2	895.3	17.82	51.235		
2,800.0	2,766.6	3,325.2	3,126.6	8.4	19.0	-36.10	579.1	981.8	862.2	843.6	18.58	46.411		
2,900.0	2,864.7	3,420.4	3,211.8	8.8	19.8	-34.80	537.1	974.8	811.9	792.4	19.50	41.635		
3,000.0	2,962.8	3,498.9	3,281.8	9.2	20.4	-33.62	502.3	968.4	761.2	740.8	20.35	37.413		
3,100.0	3,060.9	3,578.7	3,353.1	9.5	21.0	-32.19	466.8	963.1	711.7	690.5	21.25	33.488		
3,200.0	3,159.0	3,667.9	3,432.9	9.9	21.8	-30.35	427.2	957.3	662.9	640.6	22.28	29.759		
3,300.0	3,257.1	3,755.5	3,511.3	10.3	22.4	-28.40	388.8	950.3	613.9	590.6	23.30	26.353		
3,400.0	3,355.2	3,837.4	3,585.1	10.7	23.1	-26.45	354.0	942.9	565.7	541.4	24.27	23.311		
3,500.0	3,453.3	3,919.5	3,659.7	11.1	23.7	-24.37	320.8	935.1	518.7	493.5	25.25	20.542		
3,600.0	3,551.4	4,001.3	3,734.2	11.5	24.3	-21.92	287.9	927.9	473.2	446.9	26.31	17.986		
3,700.0	3,649.5	4,086.6	3,811.8	11.9	24.9	-18.74	253.1	921.6	429.5	402.0	27.51	15.613		
3,800.0	3,747.6	4,169.6	3,887.1	12.2	25.6	-14.88	218.4	915.9	387.3	358.5	28.81	13.442		
3,900.0	3,845.7	4,250.4	3,960.1	12.6	26.2	-10.16	184.0	912.4	349.1	318.9	30.22	11.550		
4,000.0	3,943.8	4,337.2	4,038.5	13.0	26.8	-4.09	147.1	909.0	314.4	282.6	31.82	9.882		
4,100.0	4,041.9	4,424.6	4,117.7	13.4	27.5	3.12	110.2	905.8	284.6	251.0	33.53	8.486		
4,200.0	4,140.0	4,513.8	4,197.1	13.8	28.3	12.36	69.7	901.8	260.1	224.6	35.45	7.336		
4,300.0	4,238.1	4,599.9	4,272.8	14.2	29.0	22.82	29.1	896.8	243.9	206.7	37.17	6.561		
4,392.5	4,328.9	4,678.2	4,342.0	14.5	29.6	32.86	-7.5	892.2	238.8	200.6	38.21	6.250 CC		
4,400.0	4,336.2	4,684.6	4,347.7	14.5	29.7	33.67	-10.4	891.8	238.8	200.6	38.26	6.243 ES, SF		
4,500.0	4,434.3	4,774.0	4,428.0	14.9	30.3	44.40	-49.3	887.8	244.8	206.3	38.47	6.363		
4,600.0	4,532.4	4,869.8	4,516.0	15.3	31.0	54.43	-87.0	884.0	257.9	220.1	37.83	6.819		
4,700.0	4,630.5	4,969.4	4,609.0	15.7	31.6	63.33	-122.4	879.9	275.3	238.7	36.58	7.527		
4,800.0	4,728.6	5,066.9	4,701.1	16.1	32.2	70.86	-154.0	875.0	294.9	259.8	35.09	8.405		
4,900.0	4,826.7	5,170.7	4,800.1	16.5	32.7	77.54	-184.6	870.4	316.5	283.0	33.47	9.456		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	4,924.8	5,276.9	4,902.8	16.9	33.2	83.19	-211.4	866.3	337.2	305.2	31.99	10.540	
5,100.0	5,022.9	5,388.9	5,012.4	17.2	33.6	88.12	-234.1	862.8	355.6	324.9	30.69	11.586	
5,200.0	5,121.0	5,492.5	5,114.6	17.6	33.9	92.08	-251.6	860.1	372.5	342.7	29.79	12.504	
5,300.0	5,219.1	5,607.2	5,228.0	18.0	34.2	96.06	-267.7	856.9	388.1	359.1	29.01	13.377	
5,400.0	5,317.2	5,713.7	5,334.0	18.4	34.5	99.49	-278.1	853.7	400.9	372.3	28.60	14.015	
5,500.0	5,415.3	5,826.2	5,446.2	18.8	34.6	102.87	-285.6	850.8	411.6	383.2	28.45	14.466	
5,600.0	5,513.4	5,933.8	5,553.7	19.2	34.7	105.83	-289.6	849.1	420.5	391.9	28.62	14.690	
5,700.0	5,611.5	6,041.6	5,661.4	19.6	34.8	108.76	-291.1	847.1	428.0	399.0	29.03	14.747	
5,800.0	5,709.6	6,140.0	5,759.8	19.9	34.8	111.38	-291.0	845.3	435.1	405.5	29.60	14.698	
5,900.0	5,807.7	6,237.7	5,857.5	20.3	34.9	113.88	-290.9	843.6	443.1	412.8	30.31	14.621	
6,000.0	5,905.8	6,334.9	5,954.7	20.7	35.0	116.28	-291.0	841.9	452.1	421.0	31.09	14.541	
6,100.0	6,003.9	6,432.8	6,052.6	21.1	35.0	118.59	-291.1	840.3	461.9	430.0	31.93	14.467	
6,200.0	6,102.0	6,532.1	6,151.9	21.5	35.1	120.82	-291.2	838.8	472.3	439.5	32.80	14.401	
6,300.0	6,200.1	6,633.3	6,253.1	21.9	35.1	122.96	-290.9	837.8	482.8	449.2	33.68	14.338	
6,400.0	6,298.2	6,731.3	6,351.0	22.3	35.2	124.91	-290.3	837.2	493.5	459.0	34.52	14.292	
6,500.0	6,396.3	6,827.7	6,447.4	22.6	35.2	126.74	-290.0	836.6	505.0	469.7	35.34	14.297	
6,600.0	6,494.4	6,924.7	6,544.5	23.0	35.3	128.50	-289.9	835.9	517.3	481.2	36.13	14.317	
6,700.0	6,592.5	7,021.8	6,641.5	23.4	35.4	130.18	-289.9	835.1	530.2	493.3	36.90	14.369	
6,800.0	6,690.6	7,118.3	6,738.1	23.8	35.4	131.78	-290.1	834.1	543.8	506.2	37.64	14.449	
6,900.0	6,788.7	7,215.1	6,834.8	24.2	35.5	133.32	-290.3	832.8	558.0	519.7	38.34	14.553	
7,000.0	6,886.8	7,312.5	6,932.2	24.6	35.6	134.81	-290.6	831.4	572.8	533.7	39.02	14.677	
7,068.1	6,953.6	7,378.9	6,998.6	24.8	35.6	135.79	-290.8	830.4	583.0	543.6	39.47	14.772	
7,100.0	6,984.9	7,410.0	7,029.7	25.0	35.6	151.51	-290.9	829.9	588.6	549.2	39.39	14.943	
7,150.0	7,033.5	7,458.4	7,078.1	25.2	35.7	170.50	-291.0	829.1	600.1	561.0	39.14	15.335	
7,200.0	7,081.4	7,506.1	7,125.8	25.4	35.7	-176.86	-291.1	828.2	614.9	576.2	38.75	15.869	
7,250.0	7,128.3	7,552.8	7,172.5	25.6	35.7	-168.32	-291.1	827.4	632.8	594.6	38.25	16.543	
7,300.0	7,173.7	7,598.2	7,217.9	25.8	35.8	-162.18	-291.1	826.5	653.7	616.0	37.68	17.350	
7,350.0	7,217.2	7,641.9	7,261.6	26.1	35.8	-157.47	-291.1	825.6	677.5	640.5	37.07	18.277	
7,400.0	7,258.7	7,683.4	7,303.1	26.3	35.8	-153.57	-291.0	824.9	704.1	667.6	36.49	19.299	
7,450.0	7,297.7	7,722.7	7,342.4	26.6	35.8	-150.12	-291.0	824.1	733.4	697.4	36.00	20.372	
7,500.0	7,334.0	7,759.6	7,379.3	26.9	35.9	-146.85	-290.9	823.4	765.2	729.5	35.72	21.423	
7,550.0	7,367.2	7,793.5	7,413.2	27.2	35.9	-143.51	-290.8	822.7	799.4	763.6	35.79	22.338	
7,600.0	7,397.2	7,824.2	7,443.9	27.5	35.9	-139.91	-290.6	822.1	835.8	799.5	36.39	22.972	
7,650.0	7,423.7	7,851.4	7,471.1	27.8	35.9	-135.82	-290.5	821.6	874.3	836.6	37.72	23.180	
7,700.0	7,446.5	7,875.0	7,494.6	28.2	35.9	-131.03	-290.3	821.1	914.6	874.7	39.94	22.899	
7,750.0	7,465.4	7,894.9	7,514.5	28.6	35.9	-125.31	-290.2	820.8	956.5	913.4	43.04	22.221	
7,800.0	7,480.4	7,910.9	7,530.5	29.0	36.0	-118.45	-290.1	820.5	999.7	952.9	46.77	21.372	
7,850.0	7,491.1	7,922.6	7,542.2	29.3	36.0	-110.25	-290.0	820.3	1,043.8	993.3	50.58	20.636	
7,900.0	7,497.7	7,929.9	7,549.5	29.8	36.0	-100.79	-289.9	820.1	1,088.8	1,035.1	53.62	20.304	
7,951.9	7,500.0	7,932.8	7,552.4	30.2	36.0	-90.05	-289.9	820.1	1,135.8	1,080.8	54.97	20.663	
8,000.0	7,500.0	7,933.2	7,552.8	30.6	36.0	-90.09	-289.9	820.1	1,179.6	1,124.0	55.62	21.208	
8,100.0	7,500.0	7,934.0	7,553.6	31.5	36.0	-90.20	-289.9	820.1	1,271.7	1,214.7	57.02	22.301	
8,200.0	7,500.0	7,934.9	7,554.5	32.5	36.0	-90.30	-289.9	820.1	1,364.9	1,306.5	58.48	23.342	
8,300.0	7,500.0	7,935.7	7,555.3	33.6	36.0	-90.40	-289.9	820.0	1,459.1	1,399.1	59.97	24.331	
8,400.0	7,500.0	7,936.5	7,556.2	34.7	36.0	-90.50	-289.9	820.0	1,553.9	1,492.4	61.49	25.271	
8,500.0	7,500.0	7,937.4	7,557.0	35.9	36.0	-90.60	-289.8	820.0	1,649.4	1,586.3	63.04	26.164	
8,551.9	7,500.0	7,937.8	7,557.4	36.5	36.0	-90.65	-289.8	820.0	1,699.1	1,635.3	63.86	26.609	
8,600.0	7,500.0	7,938.2	7,557.9	37.1	36.0	-90.70	-289.8	820.0	1,745.4	1,680.7	64.62	27.011	
8,700.0	7,500.0	7,939.1	7,558.7	38.3	36.0	-90.81	-289.8	820.0	1,841.8	1,775.5	66.21	27.818	
8,800.0	7,500.0	7,940.0	7,559.6	39.6	36.0	-90.91	-289.8	820.0	1,938.5	1,870.7	67.82	28.584	
8,900.0	7,500.0	7,940.8	7,560.4	40.9	36.0	-91.01	-289.8	820.0	2,035.6	1,966.2	69.44	29.314	
9,000.0	7,500.0	7,941.7	7,561.3	42.3	36.0	-91.12	-289.8	820.0	2,132.9	2,061.9	71.08	30.009	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	7,942.6	7,562.2	43.7	36.0	-91.22	-289.8	819.9	2,230.5	2,157.8	72.72	30.672		
9,200.0	7,500.0	7,943.4	7,563.0	45.1	36.0	-91.33	-289.8	819.9	2,328.3	2,253.9	74.38	31.304		
9,300.0	7,500.0	7,944.3	7,563.9	46.5	36.0	-91.43	-289.8	819.9	2,426.3	2,350.2	76.04	31.908		
9,400.0	7,500.0	7,945.2	7,564.8	48.0	36.0	-91.54	-289.8	819.9	2,524.4	2,446.7	77.71	32.485		
9,500.0	7,500.0	7,946.1	7,565.7	49.5	36.0	-91.64	-289.8	819.9	2,622.7	2,543.3	79.38	33.038		
9,551.9	7,500.0	7,946.5	7,566.1	50.2	36.0	-91.70	-289.8	819.9	2,673.7	2,593.5	80.25	33.315		
9,600.0	7,500.0	7,947.0	7,566.6	51.0	36.0	-91.67	-289.8	819.9	2,721.0	2,640.2	80.85	33.657		
9,700.0	7,500.0	7,947.9	7,567.5	52.4	36.0	-91.62	-289.8	819.9	2,819.2	2,737.2	82.06	34.356		
9,800.0	7,500.0	7,948.8	7,568.5	53.9	36.0	-91.58	-289.8	819.8	2,917.2	2,834.0	83.26	35.039		
9,900.0	7,500.0	7,949.8	7,569.4	55.4	36.0	-91.54	-289.7	819.8	3,015.0	2,930.6	84.43	35.708		
10,000.0	7,500.0	7,950.8	7,570.4	56.9	36.0	-91.51	-289.7	819.8	3,112.6	3,027.0	85.59	36.365		
10,100.0	7,500.0	7,951.9	7,571.5	58.4	36.0	-91.48	-289.7	819.8	3,209.9	3,123.2	86.73	37.009		
10,201.9	7,500.0	7,953.0	7,572.6	60.0	36.0	-91.46	-289.7	819.8	3,308.8	3,220.9	87.87	37.655		
10,300.0	7,500.0	7,954.0	7,573.6	61.5	36.0	-91.53	-289.7	819.8	3,404.0	3,314.5	89.55	38.014		
10,400.0	7,500.0	7,955.1	7,574.7	63.0	36.0	-91.61	-289.7	819.7	3,501.2	3,410.0	91.26	38.366		
10,500.0	7,500.0	7,956.2	7,575.8	64.5	36.0	-91.69	-289.7	819.7	3,598.6	3,505.6	92.97	38.706		
10,600.0	7,500.0	7,957.3	7,576.9	66.1	36.0	-91.77	-289.7	819.7	3,696.1	3,601.4	94.69	39.035		
10,700.0	7,500.0	7,958.4	7,578.0	67.7	36.0	-91.84	-289.7	819.7	3,793.8	3,697.4	96.41	39.352		
10,800.0	7,500.0	7,959.5	7,579.1	69.2	36.0	-91.92	-289.7	819.7	3,891.5	3,793.4	98.13	39.658		
10,900.0	7,500.0	7,960.6	7,580.2	70.8	36.0	-92.00	-289.7	819.7	3,989.4	3,889.5	99.85	39.954		
11,000.0	7,500.0	7,961.7	7,581.3	72.4	36.0	-92.08	-289.6	819.7	4,087.4	3,985.8	101.57	40.241		
11,100.0	7,500.0	7,962.8	7,582.4	74.0	36.0	-92.16	-289.6	819.6	4,185.4	4,082.1	103.30	40.518		
11,200.0	7,500.0	7,963.9	7,583.6	75.6	36.0	-92.23	-289.6	819.6	4,283.6	4,178.6	105.02	40.787		
11,300.0	7,500.0	7,965.1	7,584.7	77.2	36.0	-92.31	-289.6	819.6	4,381.8	4,275.1	106.75	41.047		
11,400.0	7,500.0	7,966.2	7,585.8	78.8	36.0	-92.39	-289.6	819.6	4,480.1	4,371.7	108.48	41.300		
11,500.0	7,500.0	7,967.3	7,586.9	80.5	36.0	-92.47	-289.6	819.6	4,578.5	4,468.3	110.21	41.544		
11,600.0	7,500.0	7,968.4	7,588.0	82.1	36.0	-92.55	-289.6	819.6	4,677.0	4,565.0	111.94	41.782		
11,700.0	7,500.0	7,969.5	7,589.1	83.7	36.0	-92.63	-289.6	819.5	4,775.5	4,661.8	113.67	42.012		
11,801.9	7,500.0	7,970.7	7,590.3	85.4	36.0	-92.71	-289.6	819.5	4,876.0	4,760.5	115.43	42.240		
11,900.0	7,500.0	7,971.8	7,591.4	87.0	36.0	-93.11	-289.6	819.5	4,972.9	4,855.2	117.69	42.254		
12,000.0	7,500.0	7,972.9	7,592.5	88.7	36.0	-93.63	-289.5	819.5	5,071.9	4,952.0	119.93	42.290		
12,100.0	7,500.0	7,973.9	7,593.5	90.4	36.0	-94.32	-289.5	819.5	5,171.2	5,049.1	122.11	42.350		
12,200.0	7,500.0	7,975.0	7,594.6	92.0	36.0	-95.30	-289.5	819.5	5,270.8	5,146.6	124.17	42.448		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
0.0	0.0	49.8	49.8	0.0	0.1	34.75	1,615.6	1,120.6	1,966.2					
100.0	100.0	125.7	125.7	0.2	0.2	34.75	1,615.8	1,121.0	1,966.8	1,966.4	0.37	5,276.463		
200.0	200.0	190.9	190.8	0.3	0.3	34.77	1,616.5	1,122.4	1,969.0	1,968.3	0.67	2,954.426		
300.0	300.0	254.0	253.9	0.5	0.5	34.81	1,617.9	1,125.1	1,973.1	1,972.1	0.96	2,050.297		
400.0	400.0	308.6	308.4	0.7	0.6	-47.24	1,619.9	1,128.3	1,978.7	1,977.5	1.22	1,617.064		
500.0	500.0	345.0	344.6	0.9	0.7	-47.17	1,621.5	1,131.0	1,985.5	1,984.0	1.47	1,354.251		
600.0	599.9	437.0	436.1	1.0	0.9	-47.11	1,627.8	1,139.1	1,993.1	1,991.3	1.81	1,098.544		
700.0	699.7	470.2	468.9	1.2	1.0	-47.06	1,630.8	1,142.5	2,001.8	1,999.7	2.06	970.632		
800.0	799.4	529.0	527.0	1.4	1.2	-47.03	1,637.2	1,149.2	2,011.8	2,009.4	2.36	851.579		
900.0	898.9	580.1	577.3	1.7	1.4	-47.01	1,643.6	1,155.7	2,022.8	2,020.1	2.66	759.734		
1,000.0	998.3	642.8	638.7	1.9	1.6	-47.00	1,652.2	1,164.7	2,034.6	2,031.6	2.99	679.549		
1,100.0	1,097.4	719.9	714.1	2.2	1.9	-47.03	1,663.7	1,176.5	2,046.7	2,043.4	3.37	607.967		
1,200.0	1,196.3	804.2	794.8	2.5	2.6	-47.35	1,689.5	1,201.7	2,056.2	2,052.2	3.95	520.256		
1,300.0	1,294.9	1,000.0	989.2	2.8	2.9	-47.54	1,701.1	1,213.6	2,062.1	2,057.7	4.39	469.290		
1,400.0	1,393.3	1,064.5	1,052.5	3.2	3.2	-47.67	1,709.2	1,222.3	2,068.0	2,063.2	4.80	431.062		
1,419.0	1,411.9	1,074.8	1,062.6	3.2	3.2	-47.69	1,710.6	1,223.8	2,069.2	2,064.3	4.87	424.736		
1,500.0	1,491.4	1,120.0	1,106.8	3.5	3.4	-47.81	1,717.0	1,230.7	2,075.2	2,070.0	5.19	399.458		
1,600.0	1,589.5	1,196.5	1,181.4	3.9	3.8	-48.01	1,728.7	1,243.0	2,084.0	2,078.3	5.64	369.652		
1,700.0	1,687.6	1,278.6	1,261.3	4.2	4.1	-48.24	1,742.1	1,256.3	2,093.7	2,087.6	6.10	343.311		
1,800.0	1,785.7	1,386.3	1,366.1	4.6	4.6	-48.54	1,760.2	1,273.5	2,103.9	2,097.3	6.61	318.222		
1,900.0	1,883.8	1,547.8	1,523.9	5.0	5.2	-49.05	1,785.8	1,296.1	2,112.1	2,104.9	7.23	291.958		
2,000.0	1,981.9	1,644.0	1,618.2	5.4	5.6	-49.31	1,798.7	1,310.1	2,118.7	2,111.0	7.75	273.451		
2,100.0	2,080.0	1,731.0	1,703.4	5.7	6.0	-49.53	1,810.7	1,323.2	2,126.0	2,117.7	8.23	258.242		
2,200.0	2,178.1	1,818.0	1,788.5	6.1	6.3	-49.80	1,824.2	1,335.2	2,134.0	2,125.3	8.72	244.817		
2,300.0	2,276.2	1,906.0	1,874.4	6.5	6.7	-50.04	1,837.7	1,348.3	2,142.6	2,133.4	9.22	232.307		
2,400.0	2,374.3	1,993.0	1,959.1	6.9	7.1	-50.21	1,850.3	1,363.8	2,152.0	2,142.2	9.74	220.889		
2,500.0	2,472.3	2,094.4	2,057.6	7.3	7.5	-50.38	1,864.5	1,382.9	2,161.5	2,151.2	10.30	209.924		
2,600.0	2,570.4	2,173.7	2,134.7	7.6	7.9	-50.50	1,875.7	1,398.3	2,171.5	2,160.7	10.81	200.954		
2,700.0	2,668.5	2,270.7	2,228.7	8.0	8.3	-50.64	1,889.7	1,417.6	2,182.0	2,170.6	11.36	192.107		
2,800.0	2,766.6	2,389.4	2,344.0	8.4	8.9	-50.83	1,906.9	1,440.3	2,192.2	2,180.2	11.96	183.262		
2,900.0	2,864.7	2,623.4	2,572.8	8.8	9.8	-51.31	1,937.1	1,478.3	2,200.5	2,187.7	12.84	171.395		
3,000.0	2,962.8	2,691.0	2,639.3	9.2	10.0	-51.46	1,944.3	1,487.8	2,204.8	2,191.5	13.31	165.593		
3,100.0	3,060.9	2,749.4	2,696.6	9.5	10.3	-51.59	1,951.5	1,496.3	2,210.8	2,197.0	13.77	160.494		
3,200.0	3,159.0	2,847.9	2,793.0	9.9	10.7	-51.79	1,964.3	1,512.2	2,218.2	2,203.9	14.35	154.624		
3,300.0	3,257.1	3,013.8	2,955.6	10.3	11.3	-52.08	1,982.5	1,539.4	2,224.2	2,209.1	15.08	147.449		
3,400.0	3,355.2	3,082.7	3,023.4	10.7	11.5	-52.21	1,989.4	1,549.5	2,228.5	2,212.9	15.58	143.046		
3,500.0	3,453.3	3,128.0	3,067.8	11.1	11.7	-52.30	1,995.0	1,556.6	2,235.1	2,219.1	16.01	139.565		
3,600.0	3,551.4	3,195.3	3,133.5	11.5	12.0	-52.44	2,004.4	1,567.6	2,243.7	2,227.2	16.50	135.959		
3,700.0	3,649.5	3,302.2	3,265.2	11.9	12.6	-52.70	2,023.2	1,590.3	2,252.5	2,235.3	17.18	131.123		
3,800.0	3,747.6	3,418.0	3,351.0	12.2	12.9	-52.87	2,034.8	1,604.7	2,260.3	2,242.6	17.72	127.530		
3,900.0	3,845.7	3,477.0	3,408.6	12.6	13.2	-53.00	2,043.3	1,614.2	2,269.4	2,251.2	18.20	124.711		
4,000.0	3,943.8	3,537.5	3,467.4	13.0	13.5	-53.11	2,052.8	1,624.8	2,280.2	2,261.5	18.69	121.985		
4,100.0	4,041.9	3,668.4	3,594.1	13.4	14.1	-53.33	2,073.9	1,649.9	2,292.4	2,273.0	19.36	118.413		
4,200.0	4,140.0	3,996.7	3,917.1	13.8	15.2	-54.24	2,116.0	1,689.1	2,297.9	2,277.4	20.47	112.241		
4,300.0	4,238.1	4,263.8	4,183.3	14.2	15.7	-55.28	2,134.7	1,699.8	2,294.3	2,272.9	21.42	107.093		
4,400.0	4,336.2	4,382.7	4,302.2	14.5	15.8	-55.75	2,139.1	1,702.3	2,287.4	2,265.4	22.03	103.836		
4,500.0	4,434.3	4,561.2	4,480.5	14.9	16.0	-56.48	2,142.4	1,703.9	2,278.6	2,255.8	22.79	100.002		
4,600.0	4,532.4	4,669.7	4,589.1	15.3	16.1	-56.91	2,142.3	1,704.3	2,267.8	2,244.5	23.37	97.023		
4,700.0	4,630.5	4,783.6	4,702.9	15.7	16.2	-57.39	2,141.9	1,703.7	2,256.7	2,232.7	23.97	94.127		
4,800.0	4,728.6	4,896.2	4,815.6	16.1	16.2	-57.90	2,141.0	1,702.1	2,244.8	2,220.3	24.58	91.339		
4,900.0	4,826.7	4,998.5	4,917.8	16.5	16.3	-58.35	2,139.9	1,700.6	2,232.8	2,207.6	25.16	88.731		
5,000.0	4,924.8	5,096.6	5,015.9	16.9	16.4	-58.79	2,138.5	1,699.3	2,220.7	2,195.0	25.74	86.278		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	5,022.9	5,190.5	5,109.8	17.2	16.4	-59.21	2,137.3	1,698.1	2,208.9	2,182.6	26.31	83.969	
5,200.0	5,121.0	5,284.2	5,203.5	17.6	16.5	-59.64	2,136.4	1,696.8	2,197.4	2,170.5	26.87	81.763	
5,300.0	5,219.1	5,377.7	5,296.9	18.0	16.6	-60.08	2,135.6	1,695.5	2,186.2	2,158.8	27.45	79.657	
5,400.0	5,317.2	5,468.0	5,387.2	18.4	16.7	-60.51	2,135.2	1,694.2	2,175.4	2,147.4	28.01	77.660	
5,500.0	5,415.3	5,557.5	5,476.8	18.8	16.7	-60.93	2,135.0	1,693.2	2,165.1	2,136.6	28.58	75.762	
5,600.0	5,513.4	5,651.0	5,570.3	19.2	16.8	-61.39	2,135.1	1,692.1	2,155.3	2,126.2	29.15	73.930	
5,700.0	5,611.5	5,747.0	5,666.2	19.6	16.9	-61.86	2,135.4	1,690.8	2,145.8	2,116.1	29.74	72.159	
5,800.0	5,709.6	5,838.8	5,758.0	19.9	17.0	-62.32	2,136.0	1,689.5	2,136.7	2,106.4	30.32	70.482	
5,900.0	5,807.7	5,932.3	5,851.6	20.3	17.1	-62.79	2,136.7	1,688.2	2,127.9	2,097.0	30.90	68.865	
6,000.0	5,905.8	6,026.1	5,945.3	20.7	17.2	-63.27	2,137.6	1,687.1	2,119.4	2,087.9	31.49	67.311	
6,100.0	6,003.9	6,118.5	6,037.7	21.1	17.3	-63.74	2,138.7	1,686.0	2,111.3	2,079.3	32.07	65.830	
6,200.0	6,102.0	6,206.6	6,125.8	21.5	17.4	-64.19	2,139.9	1,685.2	2,103.8	2,071.2	32.65	64.434	
6,300.0	6,200.1	6,298.8	6,217.9	21.9	17.5	-64.66	2,141.7	1,684.6	2,096.9	2,063.6	33.24	63.083	
6,400.0	6,298.2	6,401.6	6,320.7	22.3	17.6	-65.19	2,143.5	1,683.9	2,090.1	2,056.2	33.86	61.728	
6,500.0	6,396.3	6,504.1	6,423.2	22.6	17.8	-65.72	2,145.2	1,683.1	2,083.2	2,048.7	34.48	60.422	
6,600.0	6,494.4	6,606.3	6,525.4	23.0	17.9	-66.26	2,146.6	1,682.1	2,076.3	2,041.2	35.10	59.161	
6,700.0	6,592.5	6,700.0	6,619.1	23.4	18.0	-66.76	2,148.0	1,681.2	2,069.5	2,033.8	35.70	57.975	
6,800.0	6,690.6	6,794.0	6,713.1	23.8	18.1	-67.26	2,149.5	1,680.4	2,063.2	2,026.9	36.30	56.838	
6,900.0	6,788.7	6,900.1	6,819.2	24.2	18.2	-67.82	2,151.1	1,679.6	2,057.0	2,020.0	36.94	55.689	
7,000.0	6,886.8	6,997.6	6,916.6	24.6	18.3	-68.34	2,152.2	1,678.9	2,050.5	2,013.0	37.55	54.602	
7,068.1	6,953.6	7,051.5	6,970.5	24.8	18.4	-68.62	2,153.0	1,678.7	2,046.6	2,008.6	37.95	53.935	
7,100.0	6,984.9	7,076.7	6,995.8	25.0	18.5	-53.71	2,153.5	1,678.7	2,044.0	2,005.9	38.11	53.639	
7,150.0	7,033.5	7,116.2	7,035.2	25.2	18.5	-35.87	2,154.4	1,678.8	2,036.8	1,998.7	38.12	53.434	
7,200.0	7,081.4	7,157.9	7,076.9	25.4	18.6	-24.26	2,155.5	1,679.0	2,025.6	1,987.8	37.84	53.533	
7,250.0	7,128.3	7,205.2	7,124.2	25.6	18.7	-16.63	2,156.8	1,679.4	2,010.4	1,973.1	37.28	53.930	
7,300.0	7,173.7	7,251.3	7,170.2	25.8	18.7	-11.28	2,158.0	1,679.7	1,991.2	1,954.8	36.42	54.671	
7,350.0	7,217.2	7,295.6	7,214.5	26.1	18.8	-7.25	2,159.2	1,680.1	1,968.2	1,933.0	35.28	55.795	
7,400.0	7,258.7	7,339.0	7,258.0	26.3	18.9	-3.97	2,160.3	1,680.5	1,941.6	1,907.7	33.85	57.356	
7,450.0	7,297.7	7,381.2	7,300.2	26.6	18.9	-1.07	2,161.4	1,680.8	1,911.4	1,879.2	32.16	59.433	
7,500.0	7,334.0	7,420.5	7,339.5	26.9	19.0	1.70	2,162.4	1,681.1	1,877.9	1,847.7	30.23	62.131	
7,550.0	7,367.2	7,456.6	7,375.6	27.2	19.0	4.58	2,163.2	1,681.4	1,841.5	1,813.4	28.09	65.565	
7,600.0	7,397.2	7,489.3	7,408.2	27.5	19.1	7.79	2,163.9	1,681.6	1,802.3	1,776.5	25.82	69.798	
7,650.0	7,423.7	7,516.0	7,434.9	27.8	19.1	11.63	2,164.5	1,681.7	1,760.7	1,737.1	23.59	74.629	
7,700.0	7,446.5	7,539.0	7,457.8	28.2	19.1	16.52	2,165.0	1,681.9	1,717.1	1,695.3	21.75	78.963	
7,750.0	7,465.4	7,558.2	7,477.1	28.6	19.2	23.10	2,165.5	1,682.1	1,671.7	1,650.7	20.99	79.655	
7,800.0	7,480.4	7,573.7	7,492.5	29.0	19.2	32.35	2,165.8	1,682.2	1,625.0	1,602.6	22.44	72.422	
7,850.0	7,491.1	7,585.2	7,504.0	29.3	19.2	45.54	2,166.1	1,682.3	1,577.4	1,550.6	26.78	58.908	
7,900.0	7,497.7	7,592.6	7,511.5	29.8	19.2	63.29	2,166.3	1,682.4	1,529.1	1,496.6	32.49	47.061	
7,951.9	7,500.0	7,596.0	7,514.9	30.2	19.2	84.18	2,166.3	1,682.5	1,478.8	1,442.9	35.86	41.238	
8,000.0	7,500.0	7,597.1	7,515.9	30.6	19.2	84.35	2,166.4	1,682.5	1,432.2	1,395.7	36.51	39.226	
8,100.0	7,500.0	7,599.3	7,518.2	31.5	19.2	84.70	2,166.4	1,682.5	1,335.8	1,297.9	37.91	35.233	
8,200.0	7,500.0	7,601.6	7,520.4	32.5	19.2	85.05	2,166.5	1,682.5	1,239.9	1,200.6	39.36	31.499	
8,300.0	7,500.0	7,603.8	7,522.7	33.6	19.2	85.40	2,166.5	1,682.5	1,144.7	1,103.9	40.86	28.019	
8,400.0	7,500.0	7,606.1	7,524.9	34.7	19.2	85.75	2,166.6	1,682.6	1,050.5	1,008.1	42.38	24.785	
8,500.0	7,500.0	7,608.4	7,527.2	35.9	19.3	86.11	2,166.6	1,682.6	957.3	913.4	43.94	21.788	
8,551.9	7,500.0	7,609.5	7,528.4	36.5	19.3	86.29	2,166.7	1,682.6	909.6	864.8	44.75	20.323	
8,600.0	7,500.0	7,610.6	7,529.5	37.1	19.3	86.46	2,166.7	1,682.6	865.7	820.2	45.52	19.020	
8,700.0	7,500.0	7,612.9	7,531.8	38.3	19.3	86.82	2,166.7	1,682.6	776.2	729.1	47.12	16.474	
8,800.0	7,500.0	7,615.2	7,534.0	39.6	19.3	87.18	2,166.8	1,682.7	689.5	640.8	48.73	14.150	
8,900.0	7,500.0	7,617.5	7,536.3	40.9	19.3	87.54	2,166.8	1,682.7	607.0	556.6	50.36	12.053	
9,000.0	7,500.0	7,619.8	7,538.6	42.3	19.3	87.90	2,166.9	1,682.7	530.5	478.5	52.00	10.201	
9,100.0	7,500.0	7,622.1	7,540.9	43.7	19.3	88.26	2,166.9	1,682.8	463.0	409.3	53.66	8.629	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
9,200.0	7,500.0	7,624.4	7,543.2	45.1	19.3	88.62	2,167.0	1,682.8	409.0	353.7	55.32	7.394	
9,300.0	7,500.0	7,626.7	7,545.5	46.5	19.3	88.98	2,167.1	1,682.8	374.5	317.5	56.99	6.571	
9,385.4	7,500.0	7,628.6	7,547.5	47.8	19.3	89.29	2,167.1	1,682.8	364.6	306.2	58.41	6.242 CC, ES	
9,400.0	7,500.0	7,629.0	7,547.8	48.0	19.3	89.34	2,167.1	1,682.8	364.9	306.2	58.66	6.221 SF	
9,500.0	7,500.0	7,631.3	7,550.1	49.5	19.3	89.71	2,167.2	1,682.9	382.2	321.8	60.34	6.334	
9,551.9	7,500.0	7,632.5	7,551.3	50.2	19.3	89.90	2,167.2	1,682.9	400.8	339.6	61.21	6.548	
9,600.0	7,500.0	7,633.6	7,552.5	51.0	19.3	90.07	2,167.2	1,682.9	423.2	361.4	61.79	6.849	
9,700.0	7,500.0	7,635.9	7,554.8	52.4	19.3	90.44	2,167.3	1,682.9	482.9	420.0	62.98	7.668	
9,800.0	7,500.0	7,638.2	7,557.1	53.9	19.3	90.82	2,167.3	1,683.0	555.5	491.4	64.17	8.658	
9,900.0	7,500.0	7,640.5	7,559.3	55.4	19.3	91.22	2,167.4	1,683.0	636.5	571.2	65.33	9.743	
10,000.0	7,500.0	7,642.7	7,561.6	56.9	19.3	91.65	2,167.4	1,683.0	723.2	656.7	66.49	10.877	
10,100.0	7,500.0	7,645.0	7,563.8	58.4	19.3	92.10	2,167.5	1,683.0	813.6	745.9	67.63	12.031	
10,201.9	7,500.0	7,647.2	7,566.0	60.0	19.3	92.62	2,167.5	1,683.1	908.4	839.6	68.76	13.210	
10,300.0	7,500.0	7,649.3	7,568.2	61.5	19.3	93.02	2,167.6	1,683.1	1,001.3	930.8	70.42	14.219	
10,400.0	7,500.0	7,651.5	7,570.4	63.0	19.3	93.43	2,167.6	1,683.1	1,096.9	1,024.8	72.10	15.213	
10,500.0	7,500.0	7,653.7	7,572.6	64.5	19.3	93.84	2,167.7	1,683.2	1,193.2	1,119.4	73.78	16.172	
10,600.0	7,500.0	7,655.9	7,574.8	66.1	19.3	94.24	2,167.7	1,683.2	1,290.1	1,214.6	75.46	17.096	
10,700.0	7,500.0	7,658.1	7,577.0	67.7	19.3	94.65	2,167.8	1,683.2	1,387.4	1,310.2	77.14	17.986	
10,800.0	7,500.0	7,660.3	7,579.2	69.2	19.3	95.06	2,167.9	1,683.3	1,485.0	1,406.2	78.81	18.844	
10,900.0	7,500.0	7,662.5	7,581.4	70.8	19.3	95.47	2,167.9	1,683.3	1,583.0	1,502.5	80.48	19.670	
11,000.0	7,500.0	7,664.8	7,583.6	72.4	19.3	95.87	2,168.0	1,683.3	1,681.2	1,599.0	82.14	20.466	
11,100.0	7,500.0	7,667.0	7,585.8	74.0	19.3	96.29	2,168.0	1,683.4	1,779.6	1,695.8	83.80	21.235	
11,200.0	7,500.0	7,669.2	7,588.0	75.6	19.3	96.69	2,168.1	1,683.4	1,878.1	1,792.7	85.46	21.977	
11,300.0	7,500.0	7,671.5	7,590.3	77.2	19.3	97.10	2,168.1	1,683.4	1,976.8	1,889.7	87.11	22.693	
11,400.0	7,500.0	7,673.7	7,592.5	78.8	19.4	97.52	2,168.2	1,683.5	2,075.7	1,986.9	88.76	23.386	
11,500.0	7,500.0	7,676.0	7,594.8	80.5	19.4	97.93	2,168.2	1,683.5	2,174.6	2,084.2	90.40	24.056	
11,600.0	7,500.0	7,678.2	7,597.0	82.1	19.4	98.34	2,168.3	1,683.5	2,273.6	2,181.6	92.03	24.706	
11,700.0	7,500.0	7,680.5	7,599.3	83.7	19.4	98.75	2,168.3	1,683.6	2,372.7	2,279.1	93.65	25.335	
11,801.9	7,500.0	7,682.8	7,601.6	85.4	19.4	99.16	2,168.4	1,683.6	2,473.8	2,378.5	95.30	25.956	
11,900.0	7,500.0	7,685.0	7,603.8	87.0	19.4	98.41	2,168.4	1,683.6	2,571.0	2,473.3	97.74	26.304	
12,000.0	7,500.0	7,687.3	7,606.1	88.7	19.4	97.79	2,168.5	1,683.6	2,670.0	2,569.8	100.17	26.655	
12,100.0	7,500.0	7,689.6	7,608.4	90.4	19.4	97.27	2,168.6	1,683.7	2,768.8	2,666.2	102.54	27.003	
12,200.0	7,500.0	7,692.0	7,610.8	92.0	19.4	96.83	2,168.6	1,683.7	2,867.4	2,762.5	104.86	27.344	
12,300.0	7,500.0	7,694.4	7,613.2	93.7	19.4	96.45	2,168.7	1,683.8	2,965.8	2,858.6	107.14	27.680	
12,400.0	7,500.0	7,696.8	7,615.6	95.4	19.4	96.12	2,168.7	1,683.8	3,064.0	2,954.6	109.39	28.010	
12,500.0	7,500.0	7,699.2	7,618.0	97.1	19.4	95.84	2,168.8	1,683.8	3,161.9	3,050.3	111.60	28.334	
12,600.0	7,500.0	7,701.7	7,620.5	98.9	19.4	95.58	2,168.8	1,683.9	3,259.7	3,145.9	113.77	28.650	
12,700.0	7,500.0	7,704.2	7,623.0	100.6	19.4	95.36	2,168.9	1,683.9	3,357.2	3,241.3	115.92	28.961	
12,806.4	7,500.0	7,706.9	7,625.7	102.4	19.4	95.14	2,169.0	1,683.9	3,460.7	3,342.5	118.17	29.286	
12,900.0	7,500.0	7,709.2	7,628.0	104.0	19.4	95.31	2,169.0	1,684.0	3,551.7	3,431.9	119.77	29.654	
13,000.0	7,500.0	7,711.8	7,630.6	105.8	19.4	95.48	2,169.1	1,684.0	3,649.0	3,527.6	121.48	30.039	
13,100.0	7,500.0	7,714.3	7,633.1	107.5	19.4	95.66	2,169.1	1,684.0	3,746.5	3,623.4	123.18	30.414	
13,200.0	7,500.0	7,716.8	7,635.6	109.2	19.4	95.83	2,169.2	1,684.1	3,844.2	3,719.3	124.89	30.781	
13,300.0	7,500.0	7,719.4	7,638.2	111.0	19.4	96.01	2,169.3	1,684.1	3,941.9	3,815.3	126.59	31.139	
13,400.0	7,500.0	7,721.9	7,640.7	112.7	19.4	96.18	2,169.3	1,684.1	4,039.7	3,911.4	128.29	31.489	
13,500.0	7,500.0	7,724.4	7,643.3	114.5	19.4	96.36	2,169.4	1,684.2	4,137.7	4,007.7	129.99	31.831	
13,600.0	7,500.0	7,727.0	7,645.8	116.2	19.4	96.53	2,169.4	1,684.2	4,235.7	4,104.0	131.69	32.165	
13,700.0	7,500.0	7,729.5	7,648.3	117.9	19.4	96.71	2,169.5	1,684.3	4,333.9	4,200.5	133.38	32.492	
13,800.0	7,500.0	7,732.1	7,650.9	119.7	19.4	96.88	2,169.6	1,684.3	4,432.1	4,297.0	135.08	32.812	
13,900.0	7,500.0	7,734.6	7,653.4	121.4	19.4	97.06	2,169.6	1,684.3	4,530.4	4,393.6	136.77	33.125	
14,000.0	7,500.0	7,737.2	7,656.0	123.1	19.5	97.23	2,169.7	1,684.4	4,628.7	4,490.3	138.45	33.431	
14,100.0	7,500.0	7,739.7	7,658.5	124.9	19.5	97.41	2,169.8	1,684.4	4,727.1	4,587.0	140.14	33.732	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU													Offset Well Error:	0.0 ft
Survey Program: 71-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
14,200.0	7,500.0	7,742.3	7,661.1	126.6	19.5	97.58	2,169.8	1,684.4	4,825.6	4,683.8	141.82	34.026		
14,300.0	7,500.0	7,744.8	7,663.6	128.4	19.5	97.76	2,169.9	1,684.5	4,924.2	4,780.7	143.51	34.314		
14,335.9	7,500.0	7,745.7	7,664.5	129.0	19.5	97.82	2,169.9	1,684.5	4,959.6	4,815.5	144.11	34.416		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	33.4	33.4	0.0	0.1	43.16	801.8	751.8	1,099.1					
100.0	100.0	123.1	123.1	0.2	0.2	43.19	802.0	752.8	1,100.1	1,099.7	0.37	2,981.786		
200.0	200.0	221.7	221.7	0.3	0.4	43.25	802.3	754.8	1,101.6	1,100.9	0.72	1,534.595		
300.0	300.0	333.2	333.2	0.5	0.6	43.30	802.4	756.1	1,102.5	1,101.5	1.09	1,014.652		
400.0	400.0	436.2	436.2	0.7	0.8	-38.86	802.5	756.3	1,102.1	1,100.6	1.44	766.120		
500.0	500.0	535.8	535.7	0.9	0.9	-38.98	803.0	756.2	1,100.3	1,098.5	1.79	615.499		
600.0	599.9	639.4	639.4	1.0	1.1	-39.15	803.1	756.1	1,096.9	1,094.7	2.15	510.899		
700.0	699.7	743.7	743.6	1.2	1.3	-39.41	803.0	755.8	1,091.9	1,089.4	2.51	434.800		
800.0	799.4	847.0	847.0	1.4	1.5	-39.77	802.9	754.6	1,085.0	1,082.1	2.88	376.734		
900.0	898.9	946.5	946.4	1.7	1.7	-40.20	803.0	753.2	1,076.8	1,073.6	3.25	331.366		
1,000.0	998.3	1,047.8	1,047.8	1.9	1.8	-40.70	802.8	752.0	1,067.2	1,063.5	3.63	293.779		
1,100.0	1,097.4	1,148.1	1,148.0	2.2	2.0	-41.28	802.4	750.7	1,056.2	1,052.2	4.03	262.378		
1,200.0	1,196.3	1,248.5	1,248.4	2.5	2.2	-41.96	802.1	749.1	1,043.8	1,039.3	4.43	235.436		
1,300.0	1,294.9	1,343.8	1,343.7	2.8	2.3	-42.71	801.9	747.4	1,030.2	1,025.4	4.85	212.447		
1,400.0	1,393.3	1,437.3	1,437.2	3.2	2.5	-43.54	802.2	745.9	1,016.1	1,010.8	5.28	192.354		
1,419.0	1,411.9	1,455.6	1,455.5	3.2	2.5	-43.72	802.3	745.6	1,013.3	1,007.9	5.37	188.794		
1,500.0	1,491.4	1,535.6	1,535.4	3.5	2.7	-44.41	802.8	744.4	1,001.4	995.7	5.74	174.481		
1,600.0	1,589.5	1,633.4	1,633.2	3.9	2.9	-45.27	803.1	742.8	986.8	980.6	6.21	158.997		
1,700.0	1,687.6	1,726.4	1,726.2	4.2	3.0	-46.12	803.8	741.5	972.9	966.2	6.67	145.781		
1,800.0	1,785.7	1,823.7	1,823.5	4.6	3.2	-47.03	804.7	740.2	959.4	952.2	7.16	134.034		
1,900.0	1,883.8	1,920.9	1,920.7	5.0	3.4	-47.98	805.7	738.8	946.2	938.5	7.65	123.663		
2,000.0	1,981.9	2,014.4	2,014.2	5.4	3.5	-48.93	807.0	737.5	933.5	925.4	8.15	114.600		
2,100.0	2,080.0	2,105.9	2,105.7	5.7	3.7	-49.87	808.7	736.6	921.7	913.1	8.64	106.638		
2,200.0	2,178.1	2,200.0	2,199.8	6.1	3.9	-50.85	810.8	736.0	910.8	901.6	9.15	99.492		
2,300.0	2,276.2	2,297.1	2,296.8	6.5	4.0	-51.88	813.1	735.7	900.4	890.7	9.68	93.032		
2,400.0	2,374.3	2,399.9	2,399.6	6.9	4.2	-52.98	815.2	735.5	890.1	879.9	10.22	87.085		
2,500.0	2,472.3	2,502.9	2,502.6	7.3	4.4	-54.08	816.7	735.2	879.6	868.8	10.77	81.664		
2,600.0	2,570.4	2,602.1	2,601.8	7.6	4.6	-55.16	817.7	735.0	869.0	857.7	11.32	76.780		
2,700.0	2,668.5	2,702.7	2,702.3	8.0	4.7	-56.29	818.6	734.6	858.6	846.7	11.88	72.291		
2,800.0	2,766.6	2,800.0	2,799.7	8.4	4.9	-57.40	819.4	734.3	848.4	835.9	12.43	68.232		
2,900.0	2,864.7	2,899.8	2,899.5	8.8	5.1	-58.57	820.2	733.8	838.5	825.5	13.00	64.478		
3,000.0	2,962.8	2,997.3	2,996.9	9.2	5.3	-59.78	821.0	732.8	828.8	815.2	13.58	61.041		
3,100.0	3,060.9	3,096.5	3,096.1	9.5	5.4	-61.05	822.0	731.6	819.5	805.3	14.16	57.864		
3,200.0	3,159.0	3,196.3	3,195.9	9.9	5.6	-62.35	822.7	730.3	810.4	795.6	14.75	54.924		
3,300.0	3,257.1	3,292.8	3,292.4	10.3	5.8	-63.66	823.5	728.8	801.7	786.3	15.35	52.241		
3,400.0	3,355.2	3,387.2	3,386.8	10.7	5.9	-64.98	824.5	727.3	793.7	777.8	15.94	49.805		
3,500.0	3,453.3	3,483.4	3,483.0	11.1	6.1	-66.31	825.8	726.2	786.6	770.0	16.53	47.574		
3,600.0	3,551.4	3,576.0	3,575.6	11.5	6.3	-67.59	827.3	725.7	780.2	763.1	17.12	45.568		
3,700.0	3,649.5	3,668.1	3,667.7	11.9	6.4	-68.86	829.4	725.6	775.1	757.4	17.71	43.763		
3,800.0	3,747.6	3,767.3	3,766.8	12.2	6.6	-70.24	832.1	725.6	770.9	752.6	18.32	42.077		
3,900.0	3,845.7	3,873.5	3,873.0	12.6	6.8	-71.77	834.4	725.0	766.5	747.6	18.95	40.448		
4,000.0	3,943.8	3,976.0	3,975.4	13.0	7.0	-73.25	835.5	724.4	761.6	742.1	19.57	38.917		
4,100.0	4,041.9	4,081.3	4,080.8	13.4	7.2	-74.84	836.2	723.1	756.6	736.4	20.20	37.457		
4,200.0	4,140.0	4,177.0	4,176.5	13.8	7.3	-76.35	836.3	721.2	751.6	730.8	20.81	36.123		
4,300.0	4,238.1	4,277.2	4,276.6	14.2	7.5	-77.96	836.7	719.1	747.4	726.0	21.42	34.888		
4,400.0	4,336.2	4,375.3	4,374.7	14.5	7.7	-79.50	836.7	717.7	743.4	721.4	22.03	33.748		
4,500.0	4,434.3	4,469.5	4,468.9	14.9	7.9	-81.01	836.9	716.1	740.2	717.6	22.62	32.720		
4,600.0	4,532.4	4,560.3	4,559.7	15.3	8.0	-82.54	837.7	713.8	738.3	715.1	23.21	31.815		
4,700.0	4,630.5	4,658.9	4,658.2	15.7	8.2	-84.19	839.3	711.4	737.8	714.0	23.80	30.997		
4,800.0	4,728.6	4,760.4	4,759.7	16.1	8.4	-85.87	840.3	709.4	737.1	712.7	24.39	30.219		
4,900.0	4,826.7	4,863.9	4,863.2	16.5	8.6	-87.57	840.9	707.5	736.7	711.8	24.98	29.495		
5,000.0	4,924.8	4,965.4	4,964.7	16.9	8.7	-89.19	840.6	706.4	736.0	710.5	25.55	28.807		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
5,063.6	4,987.2	5,026.4	5,025.7	17.1	8.8	-90.18	840.3	705.6	735.8	709.9	25.90	28.407	
5,100.0	5,022.9	5,060.0	5,059.2	17.2	8.9	-90.72	840.3	705.1	735.9	709.8	26.10	28.195	
5,200.0	5,121.0	5,154.1	5,153.3	17.6	9.1	-92.25	840.6	703.6	737.0	710.3	26.64	27.663	
5,300.0	5,219.1	5,251.6	5,250.8	18.0	9.2	-93.85	841.1	701.7	738.9	711.7	27.18	27.190	
5,400.0	5,317.2	5,349.3	5,348.5	18.4	9.4	-95.45	841.5	699.7	741.4	713.7	27.70	26.764	
5,500.0	5,415.3	5,448.2	5,447.4	18.8	9.6	-96.99	842.1	698.6	744.5	716.2	28.21	26.386	
5,600.0	5,513.4	5,546.8	5,546.0	19.2	9.8	-98.52	842.5	697.5	747.8	719.1	28.72	26.041	
5,700.0	5,611.5	5,642.5	5,641.7	19.6	9.9	-100.00	843.0	696.3	751.9	722.7	29.20	25.746	
5,800.0	5,709.6	5,739.6	5,738.7	19.9	10.1	-101.52	843.6	694.5	756.8	727.1	29.68	25.498	
5,900.0	5,807.7	5,837.6	5,836.7	20.3	10.3	-103.06	844.0	692.4	762.1	732.0	30.14	25.284	
6,000.0	5,905.8	5,934.8	5,933.9	20.7	10.4	-104.56	844.5	690.4	768.1	737.5	30.59	25.109	
6,100.0	6,003.9	6,034.1	6,033.2	21.1	10.6	-106.06	845.0	688.5	774.6	743.5	31.03	24.962	
6,200.0	6,102.0	6,133.5	6,132.5	21.5	10.8	-107.57	845.0	686.1	781.3	749.9	31.45	24.839	
6,300.0	6,200.1	6,231.1	6,230.1	21.9	11.0	-109.05	844.8	683.7	788.5	756.6	31.86	24.747	
6,400.0	6,298.2	6,329.2	6,328.2	22.3	11.1	-110.50	844.7	681.4	796.2	764.0	32.26	24.681	
6,500.0	6,396.3	6,425.1	6,424.1	22.6	11.3	-111.85	844.8	679.6	804.4	771.7	32.65	24.638	
6,600.0	6,494.4	6,517.2	6,516.2	23.0	11.5	-113.11	845.6	677.7	813.7	780.7	33.03	24.638	
6,700.0	6,592.5	6,622.1	6,621.1	23.4	11.7	-114.48	846.5	676.2	823.1	789.7	33.40	24.643	
6,800.0	6,690.6	6,718.3	6,717.2	23.8	11.8	-115.70	847.2	674.9	832.8	799.1	33.77	24.665	
6,900.0	6,788.7	6,820.6	6,819.5	24.2	12.0	-116.98	847.5	673.6	842.6	808.5	34.12	24.694	
7,000.0	6,886.8	6,913.8	6,912.8	24.6	12.2	-118.15	847.7	672.0	852.9	818.4	34.46	24.746	
7,068.1	6,953.6	6,977.0	6,975.9	24.8	12.3	-118.94	847.9	670.6	860.4	825.7	34.69	24.801	
7,100.0	6,984.9	7,007.9	7,006.8	25.0	12.3	-104.20	848.0	669.9	863.3	828.5	34.84	24.780	
7,150.0	7,033.5	7,063.3	7,062.2	25.2	12.4	-87.14	848.2	668.7	865.1	830.1	34.92	24.769	
7,200.0	7,081.4	7,114.6	7,113.5	25.4	12.5	-76.73	848.1	668.0	863.2	828.4	34.83	24.780	
7,250.0	7,128.3	7,158.0	7,156.9	25.6	12.6	-70.62	847.9	667.2	858.3	823.7	34.60	24.809	
7,300.0	7,173.7	7,200.0	7,198.9	25.8	12.7	-67.30	847.7	666.2	850.8	816.5	34.23	24.853	
7,350.0	7,217.2	7,242.9	7,241.8	26.1	12.8	-65.89	847.5	665.0	840.7	806.9	33.76	24.899	
7,400.0	7,258.7	7,283.6	7,282.4	26.3	12.8	-65.77	847.2	663.7	828.3	795.0	33.24	24.918	
7,450.0	7,297.7	7,325.7	7,324.5	26.6	12.9	-66.82	846.6	662.2	813.8	781.1	32.69	24.893	
7,500.0	7,334.0	7,366.5	7,365.3	26.9	13.0	-68.75	845.4	660.5	797.6	765.4	32.18	24.787	
7,550.0	7,367.2	7,405.5	7,404.2	27.2	13.0	-71.38	843.7	658.8	780.1	748.3	31.74	24.577	
7,600.0	7,397.2	7,472.6	7,471.1	27.5	13.2	-76.63	838.9	657.3	761.1	729.8	31.33	24.289	
7,650.0	7,423.7	7,510.6	7,508.9	27.8	13.2	-80.62	835.2	657.5	741.3	710.1	31.14	23.805	
7,700.0	7,446.5	7,529.0	7,527.2	28.2	13.2	-83.44	833.5	657.8	722.1	691.0	31.13	23.200	
7,750.0	7,465.4	7,544.2	7,542.3	28.6	13.3	-86.08	832.2	658.1	704.2	673.0	31.23	22.550	
7,800.0	7,480.4	7,555.8	7,553.9	29.0	13.3	-88.40	831.3	658.4	688.1	656.7	31.44	21.887	
7,850.0	7,491.1	7,563.5	7,561.6	29.3	13.3	-90.26	830.7	658.6	674.2	642.5	31.75	21.239	
7,900.0	7,497.7	7,566.9	7,565.0	29.8	13.3	-91.57	830.5	658.7	663.0	630.8	32.13	20.635	
7,951.9	7,500.0	7,565.5	7,563.6	30.2	13.3	-92.26	830.6	658.7	654.3	621.8	32.58	20.086	
8,000.0	7,500.0	7,561.5	7,559.6	30.6	13.3	-91.91	830.9	658.6	649.6	616.4	33.22	19.553	
8,040.6	7,500.0	7,557.9	7,556.1	31.0	13.3	-91.60	831.1	658.5	648.4	614.6	33.78	19.192 CC, ES	
8,100.0	7,500.0	7,552.4	7,550.6	31.5	13.3	-91.11	831.6	658.3	651.0	616.4	34.60	18.815	
8,200.0	7,500.0	7,542.1	7,540.3	32.5	13.3	-90.20	832.4	658.1	667.5	631.5	36.03	18.529 SF	
8,300.0	7,500.0	7,530.3	7,528.5	33.6	13.3	-89.16	833.4	657.8	697.9	660.5	37.48	18.622	
8,400.0	7,500.0	7,516.7	7,514.9	34.7	13.2	-87.96	834.6	657.6	740.6	701.6	38.95	19.014	
8,500.0	7,500.0	7,500.7	7,499.0	35.9	13.2	-86.56	836.2	657.4	793.4	753.0	40.42	19.629	
8,551.9	7,500.0	7,494.5	7,492.8	36.5	13.2	-86.02	836.9	657.3	824.2	783.0	41.20	20.007	
8,600.0	7,500.0	7,489.2	7,487.6	37.1	13.2	-85.57	837.4	657.3	854.5	812.6	41.92	20.384	
8,700.0	7,500.0	7,479.2	7,477.7	38.3	13.2	-84.69	838.3	657.2	922.4	878.9	43.44	21.232	
8,800.0	7,500.0	7,470.3	7,468.8	39.6	13.2	-83.91	839.1	657.3	995.6	950.6	44.98	22.135	
8,900.0	7,500.0	7,462.2	7,460.7	40.9	13.1	-83.21	839.8	657.3	1,073.0	1,026.5	46.52	23.065	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	7,454.9	7,453.4	42.3	13.1	-82.58	840.4	657.4	1,153.9	1,105.8	48.08	24.001		
9,100.0	7,500.0	7,448.2	7,446.8	43.7	13.1	-82.00	840.9	657.5	1,237.5	1,187.9	49.64	24.929		
9,200.0	7,500.0	7,442.1	7,440.7	45.1	13.1	-81.47	841.4	657.6	1,323.4	1,272.2	51.21	25.841		
9,300.0	7,500.0	7,436.5	7,435.1	46.5	13.1	-80.99	841.8	657.8	1,411.1	1,358.3	52.79	26.729		
9,400.0	7,500.0	7,431.3	7,430.0	48.0	13.1	-80.54	842.1	657.9	1,500.3	1,445.9	54.38	27.591		
9,500.0	7,500.0	7,426.6	7,425.2	49.5	13.1	-80.13	842.5	658.1	1,590.8	1,534.8	55.97	28.424		
9,551.9	7,500.0	7,424.2	7,422.9	50.2	13.1	-79.93	842.6	658.1	1,638.1	1,581.3	56.79	28.844		
9,600.0	7,500.0	7,422.2	7,420.8	51.0	13.1	-79.95	842.7	658.2	1,682.2	1,624.8	57.41	29.301		
9,700.0	7,500.0	7,418.1	7,416.7	52.4	13.1	-80.02	843.0	658.3	1,774.0	1,715.3	58.70	30.222		
9,800.0	7,500.0	7,400.0	7,398.7	53.9	13.0	-79.01	844.0	659.1	1,866.1	1,806.3	59.77	31.221		
9,900.0	7,500.0	7,400.0	7,398.7	55.4	13.0	-79.45	844.0	659.1	1,958.2	1,897.0	61.11	32.042		
10,000.0	7,500.0	7,400.0	7,398.7	56.9	13.0	-79.88	844.0	659.1	2,050.3	1,987.9	62.44	32.835		
10,100.0	7,500.0	7,400.0	7,398.7	58.4	13.0	-80.29	844.0	659.1	2,142.6	2,078.8	63.76	33.603		
10,201.9	7,500.0	7,400.0	7,398.7	60.0	13.0	-80.69	844.0	659.1	2,236.6	2,171.5	65.09	34.362		
10,300.0	7,500.0	7,400.0	7,398.7	61.5	13.0	-80.69	844.0	659.1	2,327.5	2,260.7	66.75	34.869		
10,400.0	7,500.0	7,400.0	7,398.7	63.0	13.0	-80.69	844.0	659.1	2,420.7	2,352.2	68.44	35.367		
10,500.0	7,500.0	7,400.0	7,398.7	64.5	13.0	-80.69	844.0	659.1	2,514.4	2,444.2	70.14	35.848		
10,600.0	7,500.0	7,400.0	7,398.7	66.1	13.0	-80.69	844.0	659.1	2,608.5	2,536.7	71.84	36.311		
10,700.0	7,500.0	7,400.0	7,398.7	67.7	13.0	-80.69	844.0	659.1	2,703.1	2,629.6	73.54	36.757		
10,800.0	7,500.0	7,400.0	7,398.7	69.2	13.0	-80.69	844.0	659.1	2,798.1	2,722.9	75.25	37.186		
10,900.0	7,500.0	7,400.0	7,398.7	70.8	13.0	-80.69	844.0	659.1	2,893.4	2,816.5	76.95	37.601		
11,000.0	7,500.0	7,400.0	7,398.7	72.4	13.0	-80.69	844.0	659.1	2,989.0	2,910.4	78.66	38.000		
11,100.0	7,500.0	7,400.0	7,398.7	74.0	13.0	-80.69	844.0	659.1	3,084.9	3,004.6	80.37	38.385		
11,200.0	7,500.0	7,400.0	7,398.7	75.6	13.0	-80.69	844.0	659.1	3,181.1	3,099.0	82.08	38.756		
11,300.0	7,500.0	7,400.0	7,398.7	77.2	13.0	-80.69	844.0	659.1	3,277.5	3,193.7	83.79	39.114		
11,400.0	7,500.0	7,400.0	7,398.7	78.8	13.0	-80.69	844.0	659.1	3,374.0	3,288.5	85.51	39.460		
11,500.0	7,500.0	7,400.0	7,398.7	80.5	13.0	-80.69	844.0	659.1	3,470.8	3,383.6	87.22	39.794		
11,600.0	7,500.0	7,400.0	7,398.7	82.1	13.0	-80.69	844.0	659.1	3,567.8	3,478.8	88.94	40.116		
11,700.0	7,500.0	7,400.0	7,398.7	83.7	13.0	-80.69	844.0	659.1	3,664.9	3,574.3	90.65	40.428		
11,801.9	7,500.0	7,400.0	7,398.7	85.4	13.0	-80.69	844.0	659.1	3,764.0	3,671.6	92.40	40.734		
11,900.0	7,500.0	7,400.0	7,398.7	87.0	13.0	-79.95	844.0	659.1	3,859.8	3,765.4	94.35	40.910		
12,000.0	7,500.0	7,400.0	7,398.7	88.7	13.0	-79.04	844.0	659.1	3,957.8	3,861.6	96.23	41.127		
12,100.0	7,500.0	7,368.9	7,367.6	90.4	13.0	-75.29	845.3	660.4	4,056.0	3,959.0	96.96	41.832		
12,200.0	7,500.0	7,367.5	7,366.3	92.0	13.0	-73.46	845.4	660.5	4,154.8	4,056.6	98.21	42.305		
12,300.0	7,500.0	7,366.2	7,364.9	93.7	13.0	-71.10	845.4	660.5	4,253.8	4,154.8	99.02	42.958		
12,400.0	7,500.0	7,364.9	7,363.6	95.4	13.0	-67.96	845.5	660.6	4,353.2	4,254.1	99.12	43.920		
12,500.0	7,500.0	7,363.5	7,362.3	97.1	13.0	-63.62	845.5	660.7	4,452.7	4,354.8	97.93	45.470		
12,600.0	7,500.0	7,362.2	7,361.0	98.9	13.0	-57.31	845.6	660.7	4,552.4	4,458.1	94.26	48.298		
12,700.0	7,500.0	7,360.9	7,359.7	100.6	13.0	-47.66	845.6	660.8	4,652.2	4,566.7	85.45	54.443		
12,806.4	7,500.0	7,359.6	7,358.3	102.4	13.0	-31.08	845.7	660.8	4,758.4	4,694.1	64.34	73.957		
12,900.0	7,500.0	7,358.4	7,357.2	104.0	13.0	-30.91	845.7	660.9	4,851.9	4,787.0	64.93	74.726		
13,000.0	7,500.0	7,357.2	7,355.9	105.8	13.0	-30.73	845.7	660.9	4,951.8	4,886.3	65.56	75.530		
13,100.0	7,500.0	7,356.0	7,354.7	107.5	13.0	-30.55	845.8	661.0	5,051.7	4,985.6	66.19	76.318		
13,200.0	7,500.0	7,354.8	7,353.6	109.2	13.0	-30.38	845.8	661.0	5,151.7	5,084.8	66.83	77.091		
13,300.0	7,500.0	7,353.7	7,352.4	111.0	13.0	-30.22	845.8	661.1	5,251.6	5,184.1	67.46	77.848		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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							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	-50.1	50.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.58	0.4	-50.1	50.1	49.8	0.30	164.971	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.4	-50.1	50.1	49.4	0.65	76.751		
300.0	300.0	299.2	299.2	0.5	0.5	-90.07	-0.1	-50.8	50.8	49.8	1.00	50.794		
400.0	400.0	398.4	398.4	0.7	0.7	-173.69	-1.4	-53.1	54.0	52.6	1.35	40.008		
500.0	500.0	497.3	497.1	0.9	0.9	-175.89	-3.5	-56.8	60.4	58.7	1.70	35.585		
600.0	599.9	595.7	595.4	1.0	1.1	-178.30	-6.5	-61.9	70.3	68.2	2.05	34.327		
700.0	699.7	695.0	694.5	1.2	1.3	-179.82	-9.1	-68.0	82.7	80.3	2.39	34.567		
800.0	799.4	794.0	793.3	1.4	1.5	179.82	-10.5	-74.0	96.8	94.0	2.74	35.364		
900.0	898.9	892.8	891.9	1.7	1.7	179.59	-11.9	-80.1	112.5	109.5	3.08	36.560		
1,000.0	998.3	991.2	990.1	1.9	1.9	179.42	-13.2	-86.1	130.1	126.6	3.42	38.038		
1,100.0	1,097.4	1,089.4	1,088.1	2.2	2.1	179.30	-14.5	-92.1	149.3	145.5	3.76	39.723		
1,200.0	1,196.3	1,187.2	1,185.7	2.5	2.3	179.22	-15.8	-98.1	170.2	166.1	4.10	41.566		
1,300.0	1,294.9	1,284.6	1,282.9	2.8	2.5	179.16	-17.2	-104.0	192.9	188.4	4.43	43.534		
1,400.0	1,393.3	1,381.6	1,379.7	3.2	2.7	179.12	-18.5	-110.0	217.2	212.4	4.76	45.604		
1,419.0	1,411.9	1,399.9	1,398.0	3.2	2.7	179.11	-18.7	-111.1	222.0	217.2	4.83	46.006		
1,500.0	1,491.4	1,478.3	1,476.2	3.5	2.9	179.09	-19.8	-115.9	242.7	237.6	5.10	47.564		
1,600.0	1,589.5	1,575.0	1,572.7	3.9	3.0	179.07	-21.1	-121.8	268.2	262.7	5.44	49.269		
1,700.0	1,687.6	1,671.6	1,669.2	4.2	3.2	179.06	-22.4	-127.7	293.7	287.9	5.78	50.773		
1,800.0	1,785.7	1,768.3	1,765.7	4.6	3.4	179.04	-23.7	-133.7	319.2	313.0	6.12	52.110		
1,900.0	1,883.8	1,865.0	1,862.2	5.0	3.6	179.03	-25.0	-139.6	344.7	338.2	6.47	53.306		
2,000.0	1,981.9	1,961.7	1,958.7	5.4	3.8	179.02	-26.3	-145.5	370.2	363.4	6.81	54.383		
2,100.0	2,080.0	2,058.4	2,055.2	5.7	4.0	179.01	-27.6	-151.4	395.7	388.5	7.15	55.357		
2,200.0	2,178.1	2,155.1	2,151.7	6.1	4.2	179.01	-28.9	-157.3	421.2	413.7	7.49	56.242		
2,300.0	2,276.2	2,251.8	2,248.2	6.5	4.4	179.00	-30.2	-163.3	446.7	438.9	7.83	57.051		
2,400.0	2,374.3	2,348.5	2,344.7	6.9	4.6	178.99	-31.5	-169.2	472.2	464.0	8.17	57.792		
2,500.0	2,472.3	2,445.2	2,441.2	7.3	4.8	178.99	-32.8	-175.1	497.7	489.2	8.51	58.474		
2,600.0	2,570.4	2,541.9	2,537.7	7.6	5.0	178.98	-34.1	-181.0	523.2	514.3	8.85	59.103		
2,700.0	2,668.5	2,638.6	2,634.2	8.0	5.2	178.98	-35.4	-186.9	548.7	539.5	9.19	59.686		
2,800.0	2,766.6	2,735.3	2,730.7	8.4	5.4	178.97	-36.7	-192.8	574.2	564.7	9.53	60.227		
2,900.0	2,864.7	2,832.0	2,827.2	8.8	5.6	178.97	-38.0	-198.8	599.7	589.8	9.87	60.731		
3,000.0	2,962.8	2,928.7	2,923.7	9.2	5.8	178.97	-39.3	-204.7	625.2	615.0	10.22	61.201		
3,100.0	3,060.9	3,025.4	3,020.2	9.5	6.0	178.96	-40.6	-210.6	650.7	640.1	10.56	61.641		
3,200.0	3,159.0	3,122.0	3,116.7	9.9	6.2	178.96	-41.9	-216.5	676.2	665.3	10.90	62.054		
3,300.0	3,257.1	3,218.7	3,213.2	10.3	6.4	178.96	-43.2	-222.4	701.7	690.5	11.24	62.442		
3,400.0	3,355.2	3,315.4	3,309.7	10.7	6.6	178.95	-44.5	-228.4	727.2	715.6	11.58	62.806		
3,500.0	3,453.3	3,412.1	3,406.2	11.1	6.8	178.95	-45.8	-234.3	752.7	740.8	11.92	63.150		
3,600.0	3,551.4	3,508.8	3,502.8	11.5	7.0	178.95	-47.1	-240.2	778.2	766.0	12.26	63.475		
3,700.0	3,649.5	3,605.5	3,599.3	11.9	7.2	178.95	-48.4	-246.1	803.7	791.1	12.60	63.782		
3,800.0	3,747.6	3,702.2	3,695.8	12.2	7.4	178.95	-49.7	-252.0	829.2	816.3	12.94	64.073		
3,900.0	3,845.7	3,798.9	3,792.3	12.6	7.6	178.94	-51.0	-258.0	854.7	841.4	13.28	64.349		
4,000.0	3,943.8	3,895.6	3,888.8	13.0	7.8	178.94	-52.4	-263.9	880.2	866.6	13.62	64.612		
4,100.0	4,041.9	3,992.3	3,985.3	13.4	8.0	178.94	-53.7	-269.8	905.7	891.8	13.96	64.861		
4,200.0	4,140.0	4,089.0	4,081.8	13.8	8.2	178.94	-55.0	-275.7	931.2	916.9	14.30	65.099		
4,300.0	4,238.1	4,185.7	4,178.3	14.2	8.4	178.94	-56.3	-281.6	956.7	942.1	14.65	65.326		
4,400.0	4,336.2	4,282.4	4,274.8	14.5	8.6	178.94	-57.6	-287.6	982.2	967.2	14.99	65.542		
4,500.0	4,434.3	4,379.1	4,371.3	14.9	8.8	178.93	-58.9	-293.5	1,007.7	992.4	15.33	65.749		
4,600.0	4,532.4	4,475.8	4,467.8	15.3	9.0	178.93	-60.2	-299.4	1,033.2	1,017.6	15.67	65.947		
4,700.0	4,630.5	4,572.4	4,564.3	15.7	9.2	178.93	-61.5	-305.3	1,058.7	1,042.7	16.01	66.136		
4,800.0	4,728.6	4,669.1	4,660.8	16.1	9.4	178.93	-62.8	-311.2	1,084.2	1,067.9	16.35	66.317		
4,900.0	4,826.7	4,765.8	4,757.3	16.5	9.6	178.93	-64.1	-317.2	1,109.7	1,093.1	16.69	66.491		
5,000.0	4,924.8	4,862.5	4,853.8	16.9	9.8	178.93	-65.4	-323.1	1,135.2	1,118.2	17.03	66.659		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
5,100.0	5,022.9	4,959.2	4,950.3	17.2	10.0	178.93	-66.7	-329.0	1,160.7	1,143.4	17.37	66.819		
5,200.0	5,121.0	5,055.9	5,046.8	17.6	10.2	178.93	-68.0	-334.9	1,186.2	1,168.5	17.71	66.973		
5,300.0	5,219.1	5,152.6	5,143.3	18.0	10.4	178.93	-69.3	-340.8	1,211.8	1,193.7	18.05	67.122		
5,400.0	5,317.2	5,249.3	5,239.8	18.4	10.6	178.92	-70.6	-346.7	1,237.3	1,218.9	18.39	67.265		
5,500.0	5,415.3	5,346.0	5,336.3	18.8	10.8	178.92	-71.9	-352.7	1,262.8	1,244.0	18.73	67.403		
5,600.0	5,513.4	5,442.7	5,432.8	19.2	11.0	178.92	-73.2	-358.6	1,288.3	1,269.2	19.08	67.536		
5,700.0	5,611.5	5,539.4	5,529.3	19.6	11.2	178.92	-74.5	-364.5	1,313.8	1,294.3	19.42	67.664		
5,800.0	5,709.6	5,636.1	5,625.8	19.9	11.4	178.92	-75.8	-370.4	1,339.3	1,319.5	19.76	67.788		
5,900.0	5,807.7	5,732.8	5,722.3	20.3	11.6	178.92	-77.1	-376.3	1,364.8	1,344.7	20.10	67.908		
6,000.0	5,905.8	5,829.5	5,818.8	20.7	11.8	178.92	-78.4	-382.3	1,390.3	1,369.8	20.44	68.023		
6,100.0	6,003.9	5,926.2	5,915.3	21.1	12.0	178.92	-79.7	-388.2	1,415.8	1,395.0	20.78	68.135		
6,200.0	6,102.0	6,022.8	6,011.8	21.5	12.2	178.92	-81.0	-394.1	1,441.3	1,420.2	21.12	68.243		
6,300.0	6,200.1	6,119.5	6,108.3	21.9	12.4	178.92	-82.3	-400.0	1,466.8	1,445.3	21.46	68.348		
6,400.0	6,298.2	6,216.2	6,204.8	22.3	12.6	178.92	-83.6	-405.9	1,492.3	1,470.5	21.80	68.450		
6,500.0	6,396.3	6,312.9	6,301.3	22.6	12.8	178.92	-84.9	-411.9	1,517.8	1,495.6	22.14	68.548		
6,600.0	6,494.4	6,409.6	6,397.9	23.0	13.0	178.92	-86.2	-417.8	1,543.3	1,520.8	22.48	68.644		
6,700.0	6,592.5	6,506.3	6,494.4	23.4	13.2	178.92	-87.5	-423.7	1,568.8	1,546.0	22.82	68.736		
6,800.0	6,690.6	6,603.0	6,590.9	23.8	13.4	178.92	-88.8	-429.6	1,594.3	1,571.1	23.16	68.826		
6,900.0	6,788.7	6,699.7	6,687.4	24.2	13.6	178.91	-90.2	-435.5	1,619.8	1,596.3	23.50	68.913		
7,000.0	6,886.8	6,796.4	6,783.9	24.6	13.8	178.91	-91.5	-441.5	1,645.3	1,621.4	23.85	68.998		
7,068.1	6,953.6	6,862.2	6,849.6	24.8	13.9	178.91	-92.3	-445.5	1,662.7	1,638.6	24.08	69.055		
7,100.0	6,984.9	6,893.0	6,880.3	25.0	14.0	-165.29	-92.8	-447.4	1,670.9	1,646.8	24.17	69.144		
7,150.0	7,033.5	6,940.9	6,928.1	25.2	14.1	-146.23	-93.4	-450.3	1,684.4	1,660.1	24.33	69.223		
7,200.0	7,081.4	6,988.0	6,975.1	25.4	14.2	-133.57	-94.0	-453.2	1,698.4	1,673.9	24.54	69.202		
7,250.0	7,128.3	7,034.0	7,021.0	25.6	14.3	-125.07	-94.7	-456.0	1,713.0	1,688.2	24.80	69.064		
7,300.0	7,173.7	7,078.5	7,065.4	25.8	14.4	-119.05	-95.3	-458.7	1,728.0	1,702.9	25.12	68.797		
7,350.0	7,217.2	7,121.1	7,108.0	26.1	14.5	-114.55	-95.8	-461.3	1,743.6	1,718.1	25.49	68.399		
7,400.0	7,258.7	7,161.7	7,148.4	26.3	14.5	-111.01	-96.4	-463.8	1,759.7	1,733.7	25.93	67.869		
7,450.0	7,297.7	7,256.4	7,242.8	26.6	14.7	-109.14	-97.1	-469.6	1,775.9	1,749.5	26.34	67.420		
7,500.0	7,334.0	7,403.0	7,383.9	26.9	15.0	-108.25	-54.3	-478.3	1,790.6	1,763.8	26.76	66.917		
7,550.0	7,367.2	7,583.4	7,537.2	27.2	15.3	-107.33	38.7	-487.7	1,802.6	1,775.2	27.43	65.721		
7,600.0	7,397.2	7,783.9	7,664.6	27.5	16.1	-105.65	192.1	-495.5	1,811.0	1,782.2	28.78	62.933		
7,650.0	7,423.7	7,975.9	7,730.3	27.8	17.4	-103.08	371.5	-499.5	1,815.6	1,784.7	30.91	58.729		
7,700.0	7,446.5	8,098.1	7,740.0	28.2	18.5	-100.80	493.1	-500.1	1,817.1	1,784.3	32.83	55.352		
7,750.0	7,465.4	8,144.2	7,740.0	28.6	19.0	-99.71	539.1	-500.1	1,818.2	1,784.3	33.95	53.558		
7,800.0	7,480.4	8,191.8	7,740.0	29.0	19.5	-98.83	586.7	-500.1	1,819.3	1,784.2	35.10	51.840		
7,850.0	7,491.1	8,240.5	7,740.0	29.3	20.0	-98.17	635.5	-500.1	1,820.3	1,784.0	36.30	50.154		
7,900.0	7,497.7	8,290.0	7,740.0	29.8	20.6	-97.75	685.0	-500.1	1,821.2	1,783.6	37.51	48.550		
7,951.9	7,500.0	8,341.9	7,740.0	30.2	21.2	-97.57	736.8	-500.1	1,821.7	1,782.9	38.81	46.943		
8,000.0	7,500.0	8,390.0	7,740.0	30.6	21.8	-97.57	784.9	-500.1	1,822.2	1,782.1	40.08	45.468		
8,100.0	7,500.0	8,490.0	7,740.0	31.5	23.1	-97.57	884.9	-500.1	1,823.0	1,780.2	42.81	42.583		
8,200.0	7,500.0	8,590.0	7,740.0	32.5	24.4	-97.56	984.9	-500.1	1,823.9	1,778.2	45.65	39.955		
8,300.0	7,500.0	8,690.0	7,740.0	33.6	25.8	-97.56	1,084.9	-500.1	1,824.8	1,776.2	48.57	37.570		
8,400.0	7,500.0	8,789.9	7,740.0	34.7	27.2	-97.55	1,184.9	-500.1	1,825.6	1,774.1	51.56	35.409		
8,500.0	7,500.0	8,889.9	7,740.0	35.9	28.7	-97.55	1,284.9	-500.1	1,826.5	1,771.9	54.61	33.448		
8,551.9	7,500.0	8,941.8	7,740.0	36.5	29.5	-97.55	1,336.8	-500.1	1,826.9	1,770.7	56.21	32.502		
8,600.0	7,500.0	8,989.9	7,740.0	37.1	30.2	-97.55	1,384.9	-500.1	1,827.3	1,769.6	57.70	31.668		
8,700.0	7,500.0	9,089.9	7,740.0	38.3	31.7	-97.54	1,484.9	-500.1	1,828.2	1,767.4	60.84	30.049		
8,800.0	7,500.0	9,189.9	7,740.0	39.6	33.3	-97.54	1,584.9	-500.1	1,829.1	1,765.1	64.01	28.573		
8,900.0	7,500.0	9,289.9	7,740.0	40.9	34.8	-97.54	1,684.9	-500.1	1,829.9	1,762.7	67.22	27.224		
9,000.0	7,500.0	9,389.9	7,740.0	42.3	36.4	-97.53	1,784.9	-500.1	1,830.8	1,760.4	70.45	25.989		
9,100.0	7,500.0	9,489.9	7,740.0	43.7	38.0	-97.53	1,884.9	-500.1	1,831.7	1,758.0	73.70	24.853		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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							
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	
9,200.0	7,500.0	9,589.9	7,740.0	45.1	39.6	-97.53	1,984.9	-500.1	1,832.5	1,755.6	76.97	23.808		
9,300.0	7,500.0	9,689.9	7,740.0	46.5	41.2	-97.52	2,084.9	-500.1	1,833.4	1,753.1	80.26	22.843		
9,400.0	7,500.0	9,789.9	7,740.0	48.0	42.9	-97.52	2,184.9	-500.1	1,834.3	1,750.7	83.57	21.950		
9,500.0	7,500.0	9,889.9	7,740.0	49.5	44.5	-97.52	2,284.9	-500.1	1,835.1	1,748.2	86.88	21.122		
9,551.9	7,500.0	9,941.8	7,740.0	50.2	45.4	-97.51	2,336.8	-500.1	1,835.6	1,747.0	88.61	20.715		
9,600.0	7,500.0	9,989.9	7,740.0	51.0	46.2	-97.51	2,384.9	-500.1	1,835.8	1,745.7	90.10	20.375		
9,700.0	7,500.0	10,089.9	7,740.0	52.4	47.8	-97.52	2,484.9	-500.1	1,835.0	1,741.8	93.18	19.692		
9,800.0	7,500.0	10,189.9	7,740.0	53.9	49.5	-97.53	2,584.8	-500.1	1,832.4	1,736.2	96.25	19.039		
9,900.0	7,500.0	10,289.8	7,740.0	55.4	51.2	-97.55	2,684.7	-500.1	1,828.1	1,728.8	99.29	18.412		
10,000.0	7,500.0	10,389.6	7,740.0	56.9	52.8	-97.59	2,784.5	-500.1	1,822.1	1,719.8	102.30	17.811		
10,100.0	7,500.0	10,489.3	7,740.0	58.4	54.5	-97.63	2,884.2	-500.1	1,814.3	1,709.1	105.29	17.232		
10,201.9	7,500.0	10,590.7	7,740.0	60.0	56.2	-97.68	2,985.7	-500.1	1,804.7	1,696.4	108.30	16.664		
10,300.0	7,500.0	10,688.3	7,740.0	61.5	57.9	-97.73	3,083.2	-500.1	1,794.5	1,682.9	111.59	16.081		
10,400.0	7,500.0	10,787.7	7,740.0	63.0	59.6	-97.77	3,182.7	-500.1	1,784.2	1,669.2	114.96	15.520		
10,500.0	7,500.0	10,887.2	7,740.0	64.5	61.2	-97.82	3,282.1	-500.1	1,773.8	1,655.5	118.32	14.991		
10,600.0	7,500.0	10,986.6	7,740.0	66.1	62.9	-97.86	3,381.6	-500.1	1,763.4	1,641.7	121.70	14.491		
10,700.0	7,500.0	11,086.1	7,740.0	67.7	64.6	-97.91	3,481.0	-500.1	1,753.1	1,628.0	125.07	14.017		
10,800.0	7,500.0	11,167.0	7,740.0	69.2	66.0	-97.95	3,561.9	-500.4	1,743.2	1,615.0	128.14	13.604		
10,900.0	7,500.0	11,259.3	7,740.0	70.8	67.6	-97.99	3,654.3	-501.8	1,734.2	1,602.8	131.40	13.198		
11,000.0	7,500.0	11,358.9	7,740.0	72.4	69.3	-98.03	3,753.9	-503.2	1,725.3	1,590.5	134.79	12.800		
11,100.0	7,500.0	11,458.5	7,740.0	74.0	71.0	-98.07	3,853.5	-504.7	1,716.5	1,578.3	138.19	12.421		
11,200.0	7,500.0	11,558.1	7,740.0	75.6	72.7	-98.11	3,953.0	-506.2	1,707.6	1,566.0	141.58	12.061		
11,300.0	7,500.0	11,657.7	7,740.0	77.2	74.4	-98.15	4,052.6	-507.7	1,698.7	1,553.7	144.98	11.717		
11,400.0	7,500.0	11,757.3	7,740.0	78.8	76.1	-98.20	4,152.2	-509.2	1,689.8	1,541.5	148.37	11.389		
11,500.0	7,500.0	11,856.9	7,740.0	80.5	77.8	-98.24	4,251.8	-510.7	1,681.0	1,529.2	151.77	11.075		
11,600.0	7,500.0	11,956.5	7,740.0	82.1	79.6	-98.29	4,351.4	-512.2	1,672.1	1,516.9	155.18	10.775		
11,700.0	7,500.0	12,056.1	7,740.0	83.7	81.3	-98.33	4,451.0	-513.7	1,663.2	1,504.6	158.58	10.488		
11,801.9	7,500.0	12,157.6	7,740.0	85.4	83.0	-98.38	4,552.4	-515.2	1,654.2	1,492.1	162.05	10.208		
11,900.0	7,500.0	12,255.4	7,740.0	87.0	84.7	-98.40	4,650.2	-516.6	1,646.3	1,480.5	165.83	9.927		
12,000.0	7,500.0	12,355.2	7,740.0	88.7	86.4	-98.43	4,750.0	-518.1	1,640.0	1,470.3	169.66	9.666		
12,100.0	7,500.0	12,455.1	7,740.0	90.4	88.2	-98.44	4,849.9	-519.6	1,635.4	1,461.9	173.44	9.429		
12,200.0	7,500.0	12,555.0	7,740.0	92.0	89.9	-98.46	4,949.8	-521.1	1,632.5	1,455.3	177.18	9.214		
12,300.0	7,500.0	12,655.0	7,740.0	93.7	91.6	-98.46	5,049.8	-522.6	1,631.4	1,450.5	180.87	9.020		
12,316.3	7,500.0	12,671.3	7,740.0	94.0	91.9	-98.46	5,066.1	-522.8	1,631.3	1,449.9	181.47	8.990		
12,400.0	7,500.0	12,755.0	7,740.0	95.4	93.4	-98.46	5,149.8	-524.1	1,631.9	1,447.4	184.51	8.845		
12,500.0	7,500.0	12,855.0	7,740.0	97.1	95.1	-98.45	5,249.7	-525.6	1,634.3	1,446.1	188.11	8.688		
12,600.0	7,500.0	12,954.9	7,740.0	98.9	96.8	-98.43	5,349.7	-527.1	1,638.3	1,446.6	191.65	8.548		
12,700.0	7,500.0	13,054.7	7,740.0	100.6	98.6	-98.41	5,449.5	-528.6	1,644.0	1,448.9	195.14	8.425		
12,806.4	7,500.0	13,160.8	7,740.0	102.4	100.4	-98.38	5,555.6	-530.2	1,652.1	1,453.3	198.79	8.310		
12,900.0	7,500.0	13,254.1	7,740.0	104.0	102.0	-98.34	5,648.8	-531.5	1,660.0	1,457.9	202.03	8.217		
13,000.0	7,500.0	13,353.7	7,740.0	105.8	103.7	-98.30	5,748.4	-533.0	1,668.4	1,462.9	205.49	8.119		
13,100.0	7,500.0	13,453.3	7,740.0	107.5	105.5	-98.26	5,848.0	-534.5	1,676.9	1,467.9	208.94	8.026		
13,200.0	7,500.0	13,553.0	7,740.0	109.2	107.2	-98.22	5,947.7	-536.0	1,685.3	1,472.9	212.40	7.935		
13,300.0	7,500.0	13,652.6	7,740.0	111.0	108.9	-98.18	6,047.3	-537.5	1,693.8	1,477.9	215.87	7.847		
13,400.0	7,500.0	13,752.2	7,740.0	112.7	110.7	-98.13	6,146.9	-539.0	1,702.3	1,482.9	219.33	7.761		
13,500.0	7,500.0	13,851.9	7,740.0	114.5	112.4	-98.09	6,246.5	-540.5	1,710.7	1,487.9	222.79	7.679		
13,600.0	7,500.0	13,951.5	7,740.0	116.2	114.1	-98.05	6,346.2	-542.0	1,719.2	1,492.9	226.26	7.598		
13,700.0	7,500.0	14,051.1	7,740.0	117.9	115.9	-98.01	6,445.8	-543.5	1,727.6	1,497.9	229.72	7.521		
13,800.0	7,500.0	14,150.8	7,740.0	119.7	117.6	-97.97	6,545.4	-544.9	1,736.1	1,502.9	233.19	7.445		
13,900.0	7,500.0	14,250.4	7,740.0	121.4	119.3	-97.94	6,645.0	-546.4	1,744.6	1,507.9	236.66	7.372		
14,000.0	7,500.0	14,350.1	7,740.0	123.1	121.1	-97.90	6,744.7	-547.9	1,753.0	1,512.9	240.12	7.300		
14,100.0	7,500.0	14,449.7	7,740.0	124.9	122.8	-97.86	6,844.3	-549.4	1,761.5	1,517.9	243.59	7.231		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)											
14,200.0	7,500.0	14,549.3	7,740.0	126.6	124.5	-97.82	6,943.9	-550.9	1,769.9	1,522.9	247.06	7.164							
14,300.0	7,500.0	14,649.0	7,740.0	128.4	126.3	-97.78	7,043.5	-552.4	1,778.4	1,527.9	250.53	7.098							
14,335.9	7,500.0	14,682.3	7,740.0	129.0	126.8	-97.77	7,076.8	-552.9	1,781.5	1,529.7	251.74	7.077 SF							

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	-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		
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	-89.48	0.4	-40.0	40.0	39.0	1.00	39.952 CC, ES		
400.0	400.0	399.5	399.5	0.7	0.7	-172.70	-0.3	-40.6	41.4	40.1	1.35	30.694		
500.0	500.0	498.9	498.9	0.9	0.9	-175.58	-2.3	-42.2	45.8	44.1	1.70	26.939		
600.0	599.9	598.0	597.8	1.0	1.0	-179.30	-5.6	-45.0	53.2	51.2	2.05	25.955		
700.0	699.7	698.3	698.1	1.2	1.2	177.75	-9.1	-47.7	62.5	60.1	2.40	26.031		
800.0	799.4	798.9	798.6	1.4	1.4	176.28	-11.5	-49.1	72.1	69.4	2.75	26.211		
900.0	898.9	899.2	898.9	1.7	1.6	175.78	-12.9	-49.1	82.0	78.9	3.10	26.458		
1,000.0	998.3	998.6	998.3	1.9	1.7	175.57	-14.0	-48.8	93.3	89.8	3.44	27.076		
1,100.0	1,097.4	1,097.7	1,097.4	2.2	1.9	175.48	-15.1	-48.6	106.3	102.5	3.79	28.046		
1,200.0	1,196.3	1,196.6	1,196.3	2.5	2.1	175.47	-16.2	-48.3	121.0	116.9	4.13	29.281		
1,300.0	1,294.9	1,295.3	1,295.0	2.8	2.3	175.52	-17.3	-48.1	137.4	132.9	4.47	30.722		
1,400.0	1,393.3	1,393.6	1,393.3	3.2	2.4	175.60	-18.4	-47.8	155.6	150.8	4.81	32.327		
1,419.0	1,411.9	1,412.2	1,411.9	3.2	2.5	175.62	-18.6	-47.7	159.2	154.3	4.88	32.647		
1,500.0	1,491.4	1,491.7	1,491.4	3.5	2.6	175.71	-19.5	-47.5	174.9	169.7	5.16	33.903		
1,600.0	1,589.5	1,589.8	1,589.5	3.9	2.8	175.80	-20.6	-47.3	194.2	188.7	5.51	35.277		
1,700.0	1,687.6	1,687.9	1,687.6	4.2	3.0	175.87	-21.7	-47.0	213.5	207.7	5.85	36.488		
1,800.0	1,785.7	1,786.1	1,785.7	4.6	3.1	175.93	-22.8	-46.8	232.9	226.7	6.20	37.564		
1,900.0	1,883.8	1,884.2	1,883.8	5.0	3.3	175.98	-24.0	-46.5	252.2	245.7	6.55	38.526		
2,000.0	1,981.9	1,982.3	1,981.9	5.4	3.5	176.02	-25.1	-46.2	271.5	264.6	6.89	39.391		
2,100.0	2,080.0	2,080.4	2,080.0	5.7	3.6	176.06	-26.2	-46.0	290.9	283.6	7.24	40.173		
2,200.0	2,178.1	2,178.5	2,178.1	6.1	3.8	176.09	-27.3	-45.7	310.2	302.6	7.59	40.884		
2,300.0	2,276.2	2,276.6	2,276.3	6.5	4.0	176.12	-28.4	-45.5	329.5	321.6	7.93	41.533		
2,400.0	2,374.3	2,374.7	2,374.4	6.9	4.2	176.14	-29.5	-45.2	348.9	340.6	8.28	42.128		
2,500.0	2,472.3	2,472.9	2,472.5	7.3	4.3	176.17	-30.6	-44.9	368.2	359.6	8.63	42.675		
2,600.0	2,570.4	2,571.0	2,570.6	7.6	4.5	176.19	-31.7	-44.7	387.5	378.6	8.97	43.179		
2,700.0	2,668.5	2,669.1	2,668.7	8.0	4.7	176.21	-32.8	-44.4	406.9	397.5	9.32	43.647		
2,800.0	2,766.6	2,767.2	2,766.8	8.4	4.8	176.22	-33.9	-44.2	426.2	416.5	9.67	44.080		
2,900.0	2,864.7	2,865.3	2,864.9	8.8	5.0	176.24	-35.0	-43.9	445.5	435.5	10.02	44.484		
3,000.0	2,962.8	2,963.4	2,963.0	9.2	5.2	176.25	-36.1	-43.6	464.9	454.5	10.36	44.861		
3,100.0	3,060.9	3,061.5	3,061.1	9.5	5.4	176.27	-37.2	-43.4	484.2	473.5	10.71	45.213		
3,200.0	3,159.0	3,159.6	3,159.2	9.9	5.5	176.28	-38.3	-43.1	503.5	492.5	11.06	45.544		
3,300.0	3,257.1	3,257.8	3,257.3	10.3	5.7	176.29	-39.4	-42.9	522.9	511.5	11.40	45.854		
3,400.0	3,355.2	3,355.9	3,355.4	10.7	5.9	176.30	-40.5	-42.6	542.2	530.4	11.75	46.146		
3,500.0	3,453.3	3,454.0	3,453.5	11.1	6.1	176.31	-41.6	-42.3	561.5	549.4	12.10	46.421		
3,600.0	3,551.4	3,552.1	3,551.6	11.5	6.2	176.32	-42.8	-42.1	580.9	568.4	12.44	46.681		
3,700.0	3,649.5	3,650.2	3,649.7	11.9	6.4	176.33	-43.9	-41.8	600.2	587.4	12.79	46.927		
3,800.0	3,747.6	3,748.3	3,747.9	12.2	6.6	176.34	-45.0	-41.6	619.5	606.4	13.14	47.159		
3,900.0	3,845.7	3,846.4	3,846.0	12.6	6.7	176.34	-46.1	-41.3	638.9	625.4	13.48	47.380		
4,000.0	3,943.8	3,944.6	3,944.1	13.0	6.9	176.35	-47.2	-41.0	658.2	644.4	13.83	47.590		
4,100.0	4,041.9	4,042.7	4,042.2	13.4	7.1	176.36	-48.3	-40.8	677.5	663.4	14.18	47.790		
4,200.0	4,140.0	4,140.8	4,140.3	13.8	7.3	176.36	-49.4	-40.5	696.9	682.3	14.52	47.980		
4,300.0	4,238.1	4,238.9	4,238.4	14.2	7.4	176.37	-50.5	-40.3	716.2	701.3	14.87	48.161		
4,400.0	4,336.2	4,337.0	4,336.5	14.5	7.6	176.37	-51.6	-40.0	735.5	720.3	15.22	48.334		
4,500.0	4,434.3	4,435.1	4,434.6	14.9	7.8	176.38	-52.7	-39.7	754.9	739.3	15.56	48.499		
4,600.0	4,532.4	4,533.2	4,532.7	15.3	7.9	176.38	-53.8	-39.5	774.2	758.3	15.91	48.657		
4,700.0	4,630.5	4,631.3	4,630.8	15.7	8.1	176.39	-54.9	-39.2	793.5	777.3	16.26	48.808		
4,800.0	4,728.6	4,729.5	4,728.9	16.1	8.3	176.39	-56.0	-39.0	812.9	796.3	16.60	48.953		
4,900.0	4,826.7	4,827.6	4,827.0	16.5	8.5	176.40	-57.1	-38.7	832.2	815.2	16.95	49.092		
5,000.0	4,924.8	4,925.7	4,925.1	16.9	8.6	176.40	-58.2	-38.4	851.5	834.2	17.30	49.226		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,023.8	5,023.2	17.2	8.8	176.41	-59.3	-38.2	870.9	853.2	17.65	49.354		
5,200.0	5,121.0	5,121.9	5,121.3	17.6	9.0	176.41	-60.4	-37.9	890.2	872.2	17.99	49.477		
5,300.0	5,219.1	5,220.0	5,219.5	18.0	9.2	176.41	-61.6	-37.7	909.5	891.2	18.34	49.596		
5,400.0	5,317.2	5,318.1	5,317.6	18.4	9.3	176.42	-62.7	-37.4	928.9	910.2	18.69	49.710		
5,500.0	5,415.3	5,416.3	5,415.7	18.8	9.5	176.42	-63.8	-37.1	948.2	929.2	19.03	49.820		
5,600.0	5,513.4	5,514.4	5,513.8	19.2	9.7	176.42	-64.9	-36.9	967.5	948.1	19.38	49.927		
5,700.0	5,611.5	5,612.5	5,611.9	19.6	9.8	176.43	-66.0	-36.6	986.9	967.1	19.73	50.029		
5,800.0	5,709.6	5,710.6	5,710.0	19.9	10.0	176.43	-67.1	-36.4	1,006.2	986.1	20.07	50.128		
5,900.0	5,807.7	5,808.7	5,808.1	20.3	10.2	176.43	-68.2	-36.1	1,025.5	1,005.1	20.42	50.223		
6,000.0	5,905.8	5,906.8	5,906.2	20.7	10.4	176.44	-69.3	-35.8	1,044.9	1,024.1	20.77	50.316		
6,100.0	6,003.9	6,004.9	6,004.3	21.1	10.5	176.44	-70.4	-35.6	1,064.2	1,043.1	21.11	50.405		
6,200.0	6,102.0	6,103.0	6,102.4	21.5	10.7	176.44	-71.5	-35.3	1,083.5	1,062.1	21.46	50.491		
6,300.0	6,200.1	6,201.2	6,200.5	21.9	10.9	176.44	-72.6	-35.1	1,102.9	1,081.1	21.81	50.575		
6,400.0	6,298.2	6,299.3	6,298.6	22.3	11.0	176.45	-73.7	-34.8	1,122.2	1,100.0	22.15	50.656		
6,500.0	6,396.3	6,397.4	6,396.7	22.6	11.2	176.45	-74.8	-34.6	1,141.5	1,119.0	22.50	50.735		
6,600.0	6,494.4	6,495.5	6,494.8	23.0	11.4	176.45	-75.9	-34.3	1,160.9	1,138.0	22.85	50.811		
6,700.0	6,592.5	6,593.6	6,592.9	23.4	11.6	176.45	-77.0	-34.0	1,180.2	1,157.0	23.19	50.885		
6,800.0	6,690.6	6,691.7	6,691.1	23.8	11.7	176.45	-78.1	-33.8	1,199.5	1,176.0	23.54	50.957		
6,900.0	6,788.7	6,789.8	6,789.2	24.2	11.9	176.46	-79.2	-33.5	1,218.9	1,195.0	23.89	51.026		
7,000.0	6,886.8	6,888.0	6,887.3	24.6	12.1	176.46	-80.4	-33.3	1,238.2	1,214.0	24.23	51.094		
7,068.1	6,953.6	6,976.2	6,975.5	24.8	12.2	176.58	-78.7	-33.1	1,251.1	1,226.6	24.49	51.079		
7,100.0	6,984.9	7,027.2	7,026.0	25.0	12.3	-167.63	-72.2	-33.1	1,256.6	1,232.1	24.57	51.142		
7,150.0	7,033.5	7,105.9	7,102.3	25.2	12.4	-148.40	-53.3	-33.2	1,265.1	1,240.4	24.71	51.206		
7,200.0	7,081.4	7,182.5	7,173.5	25.4	12.5	-135.39	-25.0	-33.5	1,273.1	1,248.2	24.89	51.144		
7,250.0	7,128.3	7,256.7	7,238.3	25.6	12.7	-126.40	11.1	-34.0	1,280.9	1,255.7	25.18	50.876		
7,300.0	7,173.7	7,328.2	7,295.7	25.8	12.8	-119.80	53.6	-34.6	1,288.2	1,262.6	25.59	50.339		
7,350.0	7,217.2	7,396.9	7,345.5	26.1	13.1	-114.66	100.8	-35.3	1,295.3	1,269.2	26.15	49.533		
7,400.0	7,258.7	7,462.6	7,387.5	26.3	13.3	-110.47	151.2	-36.1	1,302.1	1,275.2	26.87	48.467		
7,450.0	7,297.7	7,525.5	7,422.1	26.6	13.7	-106.95	203.7	-36.9	1,308.5	1,280.8	27.72	47.211		
7,500.0	7,334.0	7,585.7	7,449.6	26.9	14.1	-103.91	257.3	-37.8	1,314.7	1,286.0	28.68	45.840		
7,550.0	7,367.2	7,643.4	7,470.6	27.2	14.5	-101.24	311.0	-38.7	1,320.5	1,290.7	29.72	44.423		
7,600.0	7,397.2	7,698.8	7,485.5	27.5	15.0	-98.88	364.3	-39.5	1,326.0	1,295.1	30.82	43.016		
7,650.0	7,423.7	7,752.0	7,495.0	27.8	15.5	-96.78	416.6	-40.4	1,331.1	1,299.1	31.95	41.660		
7,700.0	7,446.5	7,803.2	7,499.5	28.2	16.1	-94.90	467.6	-41.3	1,335.8	1,302.7	33.07	40.387		
7,750.0	7,465.4	7,851.4	7,500.0	28.6	16.6	-93.28	515.8	-42.2	1,340.1	1,305.9	34.16	39.227		
7,800.0	7,480.4	7,898.9	7,500.0	29.0	17.2	-91.97	563.3	-43.0	1,343.9	1,308.7	35.21	38.173		
7,850.0	7,491.1	7,947.6	7,500.0	29.3	17.8	-90.98	612.0	-43.8	1,347.2	1,311.0	36.26	37.154		
7,900.0	7,497.7	7,997.1	7,500.0	29.8	18.4	-90.32	661.4	-44.7	1,349.8	1,312.5	37.29	36.197		
7,951.9	7,500.0	8,048.9	7,500.0	30.2	19.0	-90.00	713.2	-45.6	1,351.6	1,313.2	38.38	35.214		
8,000.0	7,500.0	8,097.0	7,500.0	30.6	19.7	-90.00	761.3	-46.4	1,352.8	1,313.2	39.66	34.107		
8,100.0	7,500.0	8,196.9	7,500.0	31.5	21.0	-90.00	861.3	-48.2	1,355.5	1,313.0	42.44	31.941		
8,200.0	7,500.0	8,296.9	7,500.0	32.5	22.5	-90.00	961.2	-49.9	1,358.1	1,312.8	45.31	29.973		
8,300.0	7,500.0	8,396.9	7,500.0	33.6	23.9	-90.00	1,061.2	-51.7	1,360.7	1,312.4	48.27	28.191		
8,400.0	7,500.0	8,496.8	7,500.0	34.7	25.4	-90.00	1,161.1	-53.4	1,363.3	1,312.0	51.29	26.578		
8,500.0	7,500.0	8,596.8	7,500.0	35.9	27.0	-90.00	1,261.1	-55.2	1,365.9	1,311.5	54.38	25.119		
8,551.9	7,500.0	8,648.7	7,500.0	36.5	27.8	-90.00	1,312.9	-56.1	1,367.3	1,311.3	56.00	24.415		
8,600.0	7,500.0	8,696.7	7,500.0	37.1	28.5	-90.00	1,361.0	-56.9	1,368.5	1,311.0	57.51	23.796		
8,700.0	7,500.0	8,796.7	7,500.0	38.3	30.1	-90.00	1,461.0	-58.7	1,371.2	1,310.5	60.69	22.594		
8,800.0	7,500.0	8,896.7	7,500.0	39.6	31.7	-90.00	1,560.9	-60.4	1,373.8	1,309.9	63.90	21.500		
8,900.0	7,500.0	8,996.6	7,500.0	40.9	33.3	-90.00	1,660.9	-62.1	1,376.4	1,309.3	67.13	20.502		
9,000.0	7,500.0	9,096.6	7,500.0	42.3	34.9	-90.00	1,760.8	-63.9	1,379.0	1,308.6	70.40	19.589		
9,100.0	7,500.0	9,183.2	7,500.0	43.7	36.4	-90.00	1,847.4	-65.7	1,382.0	1,308.5	73.47	18.811		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	9,263.7	7,500.0	45.1	37.7	-90.00	1,927.8	-68.4	1,386.2	1,309.8	76.45	18.133		
9,300.0	7,500.0	9,344.0	7,500.0	46.5	39.0	-90.00	2,008.1	-72.3	1,391.9	1,312.5	79.44	17.521		
9,400.0	7,500.0	9,424.2	7,500.0	48.0	40.4	-90.00	2,088.1	-77.3	1,399.0	1,316.6	82.44	16.969		
9,500.0	7,500.0	9,523.1	7,500.0	49.5	42.0	-90.00	2,186.7	-84.2	1,406.9	1,321.1	85.77	16.403		
9,551.9	7,500.0	9,574.8	7,500.0	50.2	42.9	-90.00	2,238.3	-87.8	1,410.9	1,323.4	87.51	16.123		
9,600.0	7,500.0	9,622.8	7,500.0	51.0	43.7	-90.00	2,286.2	-91.1	1,414.5	1,325.6	88.95	15.902		
9,700.0	7,500.0	9,722.6	7,500.0	52.4	45.4	-90.00	2,385.8	-98.1	1,420.6	1,328.7	91.94	15.452		
9,800.0	7,500.0	9,822.5	7,500.0	53.9	47.0	-90.00	2,485.4	-105.1	1,425.0	1,330.1	94.92	15.013		
9,900.0	7,500.0	9,922.5	7,500.0	55.4	48.7	-90.00	2,585.1	-112.0	1,427.7	1,329.8	97.89	14.585		
10,000.0	7,500.0	10,022.5	7,500.0	56.9	50.4	-90.00	2,684.9	-119.0	1,428.6	1,327.8	100.83	14.168		
10,100.0	7,500.0	10,122.5	7,500.0	58.4	52.1	-90.00	2,784.6	-126.0	1,427.8	1,324.0	103.76	13.760		
10,201.9	7,500.0	10,224.3	7,500.0	60.0	53.9	-90.00	2,886.3	-133.1	1,425.1	1,318.4	106.72	13.354		
10,300.0	7,500.0	10,322.4	7,500.0	61.5	55.5	-90.00	2,984.1	-139.9	1,421.7	1,311.6	110.08	12.916		
10,400.0	7,500.0	10,422.3	7,500.0	63.0	57.3	-90.00	3,083.8	-146.9	1,418.2	1,304.7	113.50	12.495		
10,500.0	7,500.0	10,522.2	7,500.0	64.5	59.0	-90.00	3,183.4	-153.9	1,414.7	1,297.8	116.93	12.099		
10,600.0	7,500.0	10,622.2	7,500.0	66.1	60.7	-90.00	3,283.1	-160.8	1,411.2	1,290.9	120.36	11.725		
10,700.0	7,500.0	10,752.8	7,500.0	67.7	62.9	-90.00	3,413.6	-168.6	1,406.7	1,282.4	124.33	11.314		
10,800.0	7,500.0	10,885.0	7,500.0	69.2	65.2	-90.00	3,545.6	-173.4	1,399.9	1,271.6	128.32	10.909		
10,900.0	7,500.0	11,016.6	7,500.0	70.8	67.5	-90.00	3,677.2	-175.2	1,390.8	1,258.5	132.30	10.512		
11,000.0	7,500.0	11,117.6	7,500.0	72.4	69.2	-90.00	3,778.3	-175.3	1,380.4	1,244.6	135.76	10.168		
11,100.0	7,500.0	11,217.1	7,500.0	74.0	70.9	-90.00	3,877.7	-175.3	1,370.0	1,230.8	139.20	9.842		
11,200.0	7,500.0	11,316.6	7,500.0	75.6	72.6	-90.00	3,977.2	-175.4	1,359.6	1,217.0	142.64	9.532		
11,300.0	7,500.0	11,416.0	7,500.0	77.2	74.4	-90.00	4,076.6	-175.5	1,349.3	1,203.2	146.08	9.237		
11,400.0	7,500.0	11,515.5	7,500.0	78.8	76.1	-90.00	4,176.1	-175.6	1,338.9	1,189.4	149.52	8.955		
11,500.0	7,500.0	11,614.9	7,500.0	80.5	77.8	-90.00	4,275.6	-175.7	1,328.5	1,175.6	152.97	8.685		
11,600.0	7,500.0	11,714.4	7,500.0	82.1	79.5	-90.00	4,375.0	-175.7	1,318.2	1,161.7	156.42	8.427		
11,700.0	7,500.0	11,813.9	7,500.0	83.7	81.2	-90.00	4,474.5	-175.8	1,307.8	1,147.9	159.87	8.180		
11,801.9	7,500.0	11,915.2	7,500.0	85.4	83.0	-90.00	4,575.8	-175.9	1,297.2	1,133.8	163.39	7.939		
11,900.0	7,500.0	12,012.9	7,500.0	87.0	84.7	-90.00	4,673.5	-176.0	1,287.9	1,120.6	167.33	7.697		
12,000.0	7,500.0	12,112.6	7,500.0	88.7	86.4	-90.00	4,773.2	-176.1	1,280.1	1,108.8	171.30	7.473		
12,100.0	7,500.0	12,212.4	7,500.0	90.4	88.1	-90.00	4,873.0	-176.1	1,274.0	1,098.8	175.24	7.270		
12,200.0	7,500.0	12,312.3	7,500.0	92.0	89.9	-90.00	4,972.9	-176.2	1,269.7	1,090.6	179.12	7.088		
12,300.0	7,500.0	12,412.2	7,500.0	93.7	91.6	-90.00	5,072.9	-176.3	1,267.1	1,084.2	182.96	6.926		
12,397.2	7,500.0	12,509.5	7,500.0	95.4	93.3	-90.00	5,170.1	-176.4	1,266.3	1,079.7	186.65	6.785		
12,400.0	7,500.0	12,512.2	7,500.0	95.4	93.3	-90.00	5,172.9	-176.4	1,266.3	1,079.6	186.75	6.781		
12,500.0	7,500.0	12,612.2	7,500.0	97.1	95.1	-90.00	5,272.9	-176.5	1,267.2	1,076.8	190.49	6.653		
12,600.0	7,500.0	12,712.2	7,500.0	98.9	96.8	-90.00	5,372.8	-176.6	1,269.9	1,075.7	194.17	6.540		
12,700.0	7,500.0	12,812.1	7,500.0	100.6	98.6	-90.00	5,472.7	-176.6	1,274.3	1,076.5	197.80	6.442		
12,806.4	7,500.0	12,918.3	7,500.0	102.4	100.4	-90.00	5,578.9	-176.7	1,280.9	1,079.3	201.60	6.354		
12,900.0	7,500.0	13,011.6	7,500.0	104.0	102.0	-90.00	5,672.3	-176.8	1,287.6	1,082.8	204.85	6.286		
13,000.0	7,500.0	13,111.4	7,500.0	105.8	103.8	-90.00	5,772.0	-176.9	1,294.7	1,086.4	208.33	6.215		
13,100.0	7,500.0	13,211.1	7,500.0	107.5	105.5	-90.00	5,871.8	-177.0	1,301.9	1,090.1	211.81	6.147		
13,200.0	7,500.0	13,310.9	7,500.0	109.2	107.2	-90.00	5,971.5	-177.0	1,309.0	1,093.7	215.28	6.080		
13,300.0	7,500.0	13,410.6	7,500.0	111.0	109.0	-90.00	6,071.3	-177.1	1,316.1	1,097.4	218.76	6.016		
13,400.0	7,500.0	13,510.4	7,500.0	112.7	110.7	-90.00	6,171.0	-177.2	1,323.3	1,101.0	222.24	5.954		
13,500.0	7,500.0	13,610.1	7,500.0	114.5	112.4	-90.00	6,270.8	-177.3	1,330.4	1,104.7	225.73	5.894		
13,600.0	7,500.0	13,709.9	7,500.0	116.2	114.2	-90.00	6,370.5	-177.4	1,337.6	1,108.3	229.21	5.836		
13,700.0	7,500.0	13,809.6	7,500.0	117.9	115.9	-90.00	6,470.2	-177.5	1,344.7	1,112.0	232.69	5.779		
13,800.0	7,500.0	13,909.4	7,500.0	119.7	117.7	-90.00	6,570.0	-177.5	1,351.8	1,115.7	236.17	5.724		
13,900.0	7,500.0	14,009.1	7,500.0	121.4	119.4	-90.00	6,669.7	-177.6	1,359.0	1,119.3	239.66	5.670		
14,000.0	7,500.0	14,108.8	7,500.0	123.1	121.1	-90.00	6,769.5	-177.7	1,366.1	1,123.0	243.14	5.619		
14,100.0	7,500.0	14,208.6	7,500.0	124.9	122.9	-90.00	6,869.2	-177.8	1,373.2	1,126.6	246.62	5.568		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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							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								
14,200.0	7,500.0	14,308.3	7,500.0	126.6	124.6	-90.00	6,969.0	-177.9	1,380.4	1,130.3	250.11	5.519								
14,300.0	7,500.0	14,408.1	7,500.0	128.4	126.4	-90.00	7,068.7	-177.9	1,387.5	1,133.9	253.60	5.471								
14,335.9	7,500.0	14,422.4	7,500.0	129.0	126.6	-90.00	7,083.0	-178.0	1,390.2	1,135.8	254.47	5.463 SF								

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
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		
300.0	300.0	300.0	300.0	0.5	0.5	-89.30	0.4	-29.9	29.9	28.9	1.00	29.895 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-171.67	0.4	-29.9	30.8	29.5	1.35	22.811		
500.0	500.0	500.0	500.0	0.9	0.8	-172.32	0.4	-29.9	33.4	31.7	1.70	19.657		
600.0	599.9	599.9	599.9	1.0	1.0	-173.20	0.4	-29.9	37.7	35.7	2.05	18.428		
700.0	699.7	700.4	700.4	1.2	1.2	-174.32	0.3	-29.1	42.9	40.5	2.40	17.918		
800.0	799.4	801.1	801.0	1.4	1.4	-175.74	0.0	-26.4	48.2	45.4	2.74	17.548		
900.0	898.9	901.8	901.6	1.7	1.6	-177.36	-0.6	-22.1	53.4	50.3	3.09	17.279		
1,000.0	998.3	1,001.5	1,001.3	1.9	1.7	-178.89	-1.2	-16.9	59.7	56.3	3.44	17.363		
1,100.0	1,097.4	1,101.2	1,100.8	2.2	1.9	179.87	-1.8	-11.8	67.8	64.0	3.78	17.902		
1,200.0	1,196.3	1,200.7	1,200.2	2.5	2.1	178.92	-2.4	-6.6	77.6	73.4	4.13	18.782		
1,300.0	1,294.9	1,300.0	1,299.4	2.8	2.3	178.22	-3.0	-1.5	89.1	84.6	4.47	19.921		
1,400.0	1,393.3	1,399.2	1,398.3	3.2	2.5	177.71	-3.6	3.6	102.4	97.6	4.82	21.264		
1,419.0	1,411.9	1,417.9	1,417.1	3.2	2.5	177.64	-3.7	4.6	105.1	100.2	4.88	21.539		
1,500.0	1,491.4	1,498.1	1,497.2	3.5	2.7	177.35	-4.2	8.7	116.9	111.7	5.16	22.629		
1,600.0	1,589.5	1,597.0	1,596.0	3.9	2.9	177.07	-4.8	13.8	131.4	125.9	5.52	23.820		
1,700.0	1,687.6	1,696.0	1,694.8	4.2	3.1	176.85	-5.4	18.9	145.9	140.0	5.87	24.868		
1,800.0	1,785.7	1,794.9	1,793.6	4.6	3.3	176.67	-6.0	24.0	160.4	154.2	6.22	25.797		
1,900.0	1,883.8	1,893.9	1,892.4	5.0	3.5	176.52	-6.6	29.1	174.9	168.3	6.57	26.627		
2,000.0	1,981.9	1,992.8	1,991.2	5.4	3.6	176.39	-7.2	34.2	189.4	182.5	6.92	27.372		
2,100.0	2,080.0	2,091.8	2,090.0	5.7	3.8	176.28	-7.8	39.3	203.9	196.6	7.27	28.045		
2,200.0	2,178.1	2,190.7	2,188.8	6.1	4.0	176.18	-8.4	44.4	218.4	210.8	7.62	28.655		
2,300.0	2,276.2	2,289.6	2,287.6	6.5	4.2	176.09	-9.0	49.5	232.9	224.9	7.97	29.212		
2,400.0	2,374.3	2,388.6	2,386.4	6.9	4.4	176.02	-9.6	54.6	247.4	239.1	8.32	29.721		
2,500.0	2,472.3	2,487.5	2,485.2	7.3	4.6	175.95	-10.2	59.7	261.9	253.2	8.68	30.189		
2,600.0	2,570.4	2,586.5	2,584.0	7.6	4.8	175.90	-10.8	64.8	276.4	267.4	9.03	30.621		
2,700.0	2,668.5	2,685.4	2,682.9	8.0	5.0	175.84	-11.4	69.9	290.9	281.5	9.38	31.020		
2,800.0	2,766.6	2,784.3	2,781.7	8.4	5.2	175.79	-12.0	75.0	305.4	295.7	9.73	31.390		
2,900.0	2,864.7	2,883.3	2,880.5	8.8	5.4	175.75	-12.6	80.1	319.9	309.8	10.08	31.734		
3,000.0	2,962.8	2,982.2	2,979.3	9.2	5.6	175.71	-13.2	85.2	334.4	324.0	10.43	32.055		
3,100.0	3,060.9	3,081.2	3,078.1	9.5	5.8	175.67	-13.8	90.3	348.9	338.2	10.79	32.354		
3,200.0	3,159.0	3,180.1	3,176.9	9.9	6.0	175.64	-14.4	95.4	363.5	352.3	11.14	32.635		
3,300.0	3,257.1	3,279.1	3,275.7	10.3	6.2	175.61	-15.0	100.5	378.0	366.5	11.49	32.899		
3,400.0	3,355.2	3,378.0	3,374.5	10.7	6.4	175.58	-15.6	105.6	392.5	380.6	11.84	33.146		
3,500.0	3,453.3	3,476.9	3,473.3	11.1	6.6	175.55	-16.2	110.7	407.0	394.8	12.19	33.380		
3,600.0	3,551.4	3,575.9	3,572.1	11.5	6.7	175.53	-16.8	115.8	421.5	408.9	12.54	33.600		
3,700.0	3,649.5	3,674.8	3,670.9	11.9	6.9	175.50	-17.4	121.0	436.0	423.1	12.90	33.808		
3,800.0	3,747.6	3,773.8	3,769.7	12.2	7.1	175.48	-18.0	126.1	450.5	437.3	13.25	34.006		
3,900.0	3,845.7	3,872.7	3,868.6	12.6	7.3	175.46	-18.6	131.2	465.0	451.4	13.60	34.193		
4,000.0	3,943.8	3,971.6	3,967.4	13.0	7.5	175.44	-19.2	136.3	479.5	465.6	13.95	34.370		
4,100.0	4,041.9	4,070.6	4,066.2	13.4	7.7	175.42	-19.8	141.4	494.0	479.7	14.30	34.539		
4,200.0	4,140.0	4,169.5	4,165.0	13.8	7.9	175.41	-20.4	146.5	508.5	493.9	14.66	34.699		
4,300.0	4,238.1	4,268.5	4,263.8	14.2	8.1	175.39	-21.0	151.6	523.0	508.0	15.01	34.852		
4,400.0	4,336.2	4,367.4	4,362.6	14.5	8.3	175.38	-21.6	156.7	537.5	522.2	15.36	34.998		
4,500.0	4,434.3	4,466.4	4,461.4	14.9	8.5	175.36	-22.2	161.8	552.1	536.3	15.71	35.138		
4,600.0	4,532.4	4,565.3	4,560.2	15.3	8.7	175.35	-22.8	166.9	566.6	550.5	16.06	35.271		
4,700.0	4,630.5	4,664.2	4,659.0	15.7	8.9	175.34	-23.4	172.0	581.1	564.7	16.42	35.398		
4,800.0	4,728.6	4,763.2	4,757.8	16.1	9.1	175.32	-24.0	177.1	595.6	578.8	16.77	35.521		
4,900.0	4,826.7	4,862.1	4,856.6	16.5	9.3	175.31	-24.6	182.2	610.1	593.0	17.12	35.638		
5,000.0	4,924.8	4,961.1	4,955.4	16.9	9.5	175.30	-25.2	187.3	624.6	607.1	17.47	35.750		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
5,100.0	5,022.9	5,060.0	5,054.3	17.2	9.7	175.29	-25.8	192.4	639.1	621.3	17.82	35.858	
5,200.0	5,121.0	5,158.9	5,153.1	17.6	9.9	175.28	-26.4	197.5	653.6	635.4	18.18	35.962	
5,300.0	5,219.1	5,257.9	5,251.9	18.0	10.0	175.27	-27.0	202.6	668.1	649.6	18.53	36.062	
5,400.0	5,317.2	5,356.8	5,350.7	18.4	10.2	175.26	-27.6	207.7	682.6	663.8	18.88	36.158	
5,500.0	5,415.3	5,455.8	5,449.5	18.8	10.4	175.25	-28.2	212.8	697.1	677.9	19.23	36.250	
5,600.0	5,513.4	5,554.7	5,548.3	19.2	10.6	175.24	-28.8	217.9	711.7	692.1	19.58	36.340	
5,700.0	5,611.5	5,653.7	5,647.1	19.6	10.8	175.23	-29.4	223.0	726.2	706.2	19.94	36.426	
5,800.0	5,709.6	5,752.6	5,745.9	19.9	11.0	175.23	-30.0	228.1	740.7	720.4	20.29	36.509	
5,900.0	5,807.7	5,851.5	5,844.7	20.3	11.2	175.22	-30.6	233.2	755.2	734.5	20.64	36.589	
6,000.0	5,905.8	5,950.5	5,943.5	20.7	11.4	175.21	-31.2	238.3	769.7	748.7	20.99	36.666	
6,100.0	6,003.9	6,049.4	6,042.3	21.1	11.6	175.20	-31.8	243.4	784.2	762.9	21.34	36.741	
6,200.0	6,102.0	6,148.4	6,141.1	21.5	11.8	175.20	-32.4	248.5	798.7	777.0	21.70	36.814	
6,300.0	6,200.1	6,247.3	6,240.0	21.9	12.0	175.19	-33.0	253.6	813.2	791.2	22.05	36.884	
6,400.0	6,298.2	6,346.3	6,338.8	22.3	12.2	175.18	-33.6	258.7	827.7	805.3	22.40	36.952	
6,500.0	6,396.3	6,445.2	6,437.6	22.6	12.4	175.18	-34.2	263.8	842.2	819.5	22.75	37.018	
6,600.0	6,494.4	6,544.1	6,536.4	23.0	12.6	175.17	-34.8	268.9	856.7	833.6	23.10	37.082	
6,700.0	6,592.5	6,643.1	6,635.2	23.4	12.8	175.17	-35.4	274.0	871.3	847.8	23.46	37.144	
6,800.0	6,690.6	6,742.0	6,734.0	23.8	13.0	175.16	-36.1	279.1	885.8	862.0	23.81	37.204	
6,900.0	6,788.7	6,841.0	6,832.8	24.2	13.2	175.16	-36.7	284.2	900.3	876.1	24.16	37.262	
7,000.0	6,886.8	6,939.9	6,931.6	24.6	13.4	175.15	-37.3	289.3	914.8	890.3	24.51	37.319	
7,068.1	6,953.6	7,007.3	6,998.9	24.8	13.5	175.15	-37.7	292.8	924.7	899.9	24.75	37.356	
7,100.0	6,984.9	7,038.8	7,030.4	25.0	13.5	-169.45	-37.9	294.4	929.5	904.7	24.81	37.461	
7,150.0	7,033.5	7,087.8	7,079.4	25.2	13.6	-151.08	-38.2	297.0	937.8	912.9	24.90	37.658	
7,200.0	7,081.4	7,136.1	7,127.6	25.4	13.7	-139.18	-38.4	299.5	947.1	922.1	25.00	37.887	
7,250.0	7,128.3	7,190.1	7,181.5	25.6	13.8	-131.59	-38.5	302.2	957.4	932.3	25.11	38.125	
7,300.0	7,173.7	7,268.8	7,259.7	25.8	14.0	-126.78	-31.2	306.1	967.6	942.4	25.25	38.316	
7,350.0	7,217.2	7,351.9	7,340.3	26.1	14.1	-123.30	-11.9	310.0	977.3	951.9	25.40	38.470	
7,400.0	7,258.7	7,438.8	7,420.8	26.3	14.3	-120.60	20.6	313.5	986.0	960.4	25.60	38.514	
7,450.0	7,297.7	7,528.8	7,498.0	26.6	14.5	-118.32	66.6	316.7	993.7	967.8	25.91	38.348	
7,500.0	7,334.0	7,620.5	7,568.2	26.9	14.8	-116.26	125.3	319.3	1,000.2	973.8	26.41	37.868	
7,550.0	7,367.2	7,712.5	7,628.4	27.2	15.2	-114.30	194.7	321.2	1,005.3	978.2	27.16	37.012	
7,600.0	7,397.2	7,803.2	7,676.2	27.5	15.8	-112.37	271.7	322.3	1,009.2	981.0	28.20	35.791	
7,650.0	7,423.7	7,891.3	7,710.4	27.8	16.4	-110.46	352.8	322.7	1,011.9	982.4	29.51	34.290	
7,700.0	7,446.5	7,975.7	7,731.2	28.2	17.2	-108.59	434.5	322.3	1,013.4	982.4	31.04	32.653	
7,750.0	7,465.4	8,055.7	7,739.6	28.6	18.0	-106.77	514.0	321.4	1,014.0	981.3	32.70	31.014	
7,800.0	7,480.4	8,111.3	7,740.0	29.0	18.6	-105.48	569.6	320.4	1,014.2	980.0	34.12	29.725	
7,850.0	7,491.1	8,160.0	7,740.0	29.3	19.1	-104.58	618.3	319.5	1,014.7	979.3	35.46	28.615	
7,900.0	7,497.7	8,209.5	7,740.0	29.8	19.7	-103.97	667.8	318.7	1,015.7	978.8	36.81	27.594	
7,951.9	7,500.0	8,261.3	7,740.0	30.2	20.3	-103.66	719.6	317.8	1,016.9	978.6	38.23	26.602	
8,000.0	7,500.0	8,309.4	7,740.0	30.6	20.9	-103.64	767.7	316.9	1,018.1	978.6	39.46	25.800	
8,100.0	7,500.0	8,409.4	7,740.0	31.5	22.2	-103.60	867.6	315.2	1,020.6	978.5	42.13	24.225	
8,200.0	7,500.0	8,509.3	7,740.0	32.5	23.6	-103.57	967.6	313.5	1,023.2	978.3	44.90	22.787	
8,300.0	7,500.0	8,609.3	7,740.0	33.6	25.0	-103.54	1,067.5	311.7	1,025.7	978.0	47.76	21.477	
8,400.0	7,500.0	8,709.2	7,740.0	34.7	26.4	-103.50	1,167.5	310.0	1,028.3	977.6	50.68	20.288	
8,500.0	7,500.0	8,809.2	7,740.0	35.9	27.9	-103.47	1,267.4	308.2	1,030.8	977.1	53.67	19.207	
8,551.9	7,500.0	8,861.1	7,740.0	36.5	28.7	-103.45	1,319.3	307.3	1,032.1	976.9	55.24	18.685	
8,600.0	7,500.0	8,909.2	7,740.0	37.1	29.4	-103.43	1,367.4	306.5	1,033.4	976.7	56.70	18.224	
8,700.0	7,500.0	9,009.1	7,740.0	38.3	31.0	-103.40	1,467.3	304.7	1,035.9	976.1	59.78	17.329	
8,800.0	7,500.0	9,109.1	7,740.0	39.6	32.5	-103.37	1,567.3	303.0	1,038.4	975.6	62.89	16.512	
8,900.0	7,500.0	9,209.1	7,740.0	40.9	34.1	-103.33	1,667.2	301.2	1,041.0	975.0	66.04	15.764	
9,000.0	7,500.0	9,309.0	7,740.0	42.3	35.7	-103.30	1,767.2	299.5	1,043.5	974.3	69.21	15.079	
9,100.0	7,500.0	9,409.0	7,740.0	43.7	37.3	-103.27	1,867.1	297.8	1,046.1	973.7	72.40	14.448	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	9,509.0	7,740.0	45.1	38.9	-103.23	1,967.1	296.0	1,048.6	973.0	75.62	13.868		
9,300.0	7,500.0	9,608.9	7,740.0	46.5	40.6	-103.20	2,067.0	294.3	1,051.2	972.3	78.85	13.331		
9,400.0	7,500.0	9,708.9	7,740.0	48.0	42.2	-103.17	2,167.0	292.5	1,053.7	971.6	82.10	12.835		
9,500.0	7,500.0	9,808.9	7,740.0	49.5	43.8	-103.14	2,266.9	290.8	1,056.3	970.9	85.37	12.374		
9,551.9	7,500.0	9,860.8	7,740.0	50.2	44.7	-103.12	2,318.8	289.9	1,057.6	970.5	87.07	12.147		
9,600.0	7,500.0	9,908.8	7,740.0	51.0	45.5	-103.11	2,366.9	289.0	1,058.6	970.2	88.43	11.972		
9,700.0	7,500.0	10,008.8	7,740.0	52.4	47.2	-103.09	2,466.8	287.3	1,059.5	968.3	91.25	11.611		
9,800.0	7,500.0	10,108.8	7,740.0	53.9	48.8	-103.10	2,566.8	285.5	1,058.7	964.7	94.05	11.257		
9,900.0	7,500.0	10,208.8	7,740.0	55.4	50.5	-103.14	2,666.8	283.8	1,056.2	959.4	96.82	10.909		
10,000.0	7,500.0	10,308.7	7,740.0	56.9	52.2	-103.21	2,766.7	282.1	1,052.0	952.4	99.55	10.567		
10,100.0	7,500.0	10,408.5	7,740.0	58.4	53.9	-103.29	2,866.5	280.3	1,046.1	943.8	102.25	10.230		
10,201.9	7,500.0	10,510.1	7,740.0	60.0	55.6	-103.41	2,968.0	278.5	1,038.3	933.3	104.96	9.892		
10,300.0	7,500.0	10,607.8	7,740.0	61.5	57.3	-103.52	3,065.7	276.8	1,030.0	921.8	108.16	9.523		
10,400.0	7,500.0	10,707.4	7,740.0	63.0	59.0	-103.64	3,165.4	275.1	1,021.5	910.1	111.42	9.168		
10,500.0	7,500.0	10,807.1	7,740.0	64.5	60.7	-103.75	3,265.0	273.4	1,013.0	898.3	114.68	8.833		
10,600.0	7,500.0	10,906.7	7,740.0	66.1	62.3	-103.87	3,364.6	271.6	1,004.6	886.6	117.95	8.517		
10,700.0	7,500.0	11,006.3	7,740.0	67.7	64.0	-103.99	3,464.2	269.9	996.1	874.9	121.21	8.218		
10,800.0	7,500.0	11,105.9	7,740.0	69.2	65.8	-104.12	3,563.8	268.1	987.6	863.2	124.47	7.935		
10,900.0	7,500.0	11,205.5	7,740.0	70.8	67.5	-104.24	3,663.4	266.4	979.2	851.5	127.74	7.666		
11,000.0	7,500.0	11,305.2	7,740.0	72.4	69.2	-104.37	3,763.0	264.7	970.7	839.8	131.00	7.410		
11,100.0	7,500.0	11,404.8	7,740.0	74.0	70.9	-104.49	3,862.6	262.9	962.3	828.1	134.26	7.168		
11,200.0	7,500.0	11,504.4	7,740.0	75.6	72.6	-104.63	3,962.2	261.2	953.9	816.4	137.51	6.937		
11,300.0	7,500.0	11,604.0	7,740.0	77.2	74.3	-104.76	4,061.8	259.4	945.4	804.7	140.76	6.716		
11,400.0	7,500.0	11,703.6	7,740.0	78.8	76.0	-104.89	4,161.4	257.7	937.0	793.0	144.01	6.506		
11,500.0	7,500.0	11,803.3	7,740.0	80.5	77.7	-105.03	4,261.0	256.0	928.6	781.3	147.26	6.306		
11,600.0	7,500.0	11,902.9	7,740.0	82.1	79.5	-105.17	4,360.6	254.2	920.2	769.7	150.50	6.114		
11,700.0	7,500.0	12,002.5	7,740.0	83.7	81.2	-105.32	4,460.2	252.5	911.8	758.0	153.74	5.931		
11,801.9	7,500.0	12,104.0	7,740.0	85.4	82.9	-105.47	4,561.7	250.7	903.2	746.2	157.03	5.752		
11,900.0	7,500.0	12,201.8	7,740.0	87.0	84.6	-105.58	4,659.5	249.0	895.8	734.9	160.85	5.569		
12,000.0	7,500.0	12,301.6	7,740.0	88.7	86.3	-105.67	4,759.3	247.3	889.8	725.1	164.72	5.402		
12,100.0	7,500.0	12,401.5	7,740.0	90.4	88.1	-105.73	4,859.2	245.5	885.6	717.0	168.57	5.254		
12,200.0	7,500.0	12,501.5	7,740.0	92.0	89.8	-105.77	4,959.1	243.8	883.1	710.7	172.39	5.123		
12,300.0	7,500.0	12,601.5	7,740.0	93.7	91.5	-105.79	5,059.1	242.0	882.2	706.0	176.18	5.007		
12,301.9	7,500.0	12,603.4	7,740.0	93.8	91.6	-105.79	5,061.0	242.0	882.2	705.9	176.25	5.005		
12,400.0	7,500.0	12,701.5	7,740.0	95.4	93.3	-105.77	5,159.1	240.3	883.0	703.1	179.94	4.907		
12,500.0	7,500.0	12,801.4	7,740.0	97.1	95.0	-105.73	5,259.0	238.6	885.5	701.8	183.68	4.821		
12,600.0	7,500.0	12,901.3	7,740.0	98.9	96.7	-105.67	5,358.9	236.8	889.7	702.3	187.39	4.748		
12,700.0	7,500.0	13,001.2	7,740.0	100.6	98.5	-105.58	5,458.7	235.1	895.5	704.4	191.07	4.687		
12,806.4	7,500.0	13,107.2	7,740.0	102.4	100.3	-105.46	5,564.8	233.2	903.6	708.6	194.94	4.635		
12,900.0	7,500.0	13,200.5	7,740.0	104.0	101.9	-105.32	5,658.0	231.6	911.5	713.3	198.20	4.599		
13,000.0	7,500.0	13,300.1	7,740.0	105.8	103.6	-105.18	5,757.6	229.8	920.0	718.3	201.68	4.562		
13,100.0	7,500.0	13,399.7	7,740.0	107.5	105.4	-105.04	5,857.2	228.1	928.5	723.3	205.17	4.526		
13,200.0	7,500.0	13,499.3	7,740.0	109.2	107.1	-104.90	5,956.8	226.4	937.0	728.3	208.65	4.491		
13,300.0	7,500.0	13,598.9	7,740.0	111.0	108.8	-104.76	6,056.4	224.6	945.5	733.4	212.14	4.457		
13,400.0	7,500.0	13,698.5	7,740.0	112.7	110.6	-104.62	6,156.0	222.9	954.0	738.4	215.63	4.424		
13,500.0	7,500.0	13,798.1	7,740.0	114.5	112.3	-104.49	6,255.6	221.2	962.5	743.4	219.12	4.393		
13,600.0	7,500.0	13,897.8	7,740.0	116.2	114.0	-104.36	6,355.2	219.4	971.0	748.4	222.61	4.362		
13,700.0	7,500.0	13,997.4	7,740.0	117.9	115.8	-104.24	6,454.8	217.7	979.6	753.5	226.10	4.332		
13,800.0	7,500.0	14,094.0	7,740.0	119.7	117.5	-104.11	6,551.4	216.0	988.1	758.6	229.54	4.305		
13,900.0	7,500.0	14,179.2	7,740.0	121.4	118.9	-104.00	6,636.6	213.6	997.7	764.9	232.79	4.286		
14,000.0	7,500.0	14,264.1	7,740.0	123.1	120.4	-103.86	6,721.4	210.0	1,008.7	772.6	236.04	4.273		
14,100.0	7,500.0	14,350.5	7,740.0	124.9	121.9	-103.71	6,807.7	205.0	1,021.1	781.7	239.34	4.266		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						
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
14,200.0	7,500.0	14,449.7	7,740.0	126.6	123.6	-103.54	6,906.6	198.7	1,034.0	791.2	242.88	4.257	
14,300.0	7,500.0	14,548.8	7,740.0	128.4	125.4	-103.37	7,005.5	192.5	1,047.0	800.6	246.42	4.249	
14,335.9	7,500.0	14,584.3	7,740.0	129.0	126.0	-103.31	7,041.0	190.2	1,051.7	804.0	247.69	4.246 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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: 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	-88.96	0.4	-20.2	20.2						
100.0	100.0	100.0	100.0	0.2	0.2	-88.96	0.4	-20.2	20.2	19.9	0.30	66.366			
200.0	200.0	200.0	200.0	0.3	0.3	-88.96	0.4	-20.2	20.2	19.5	0.65	30.876			
300.0	300.0	300.0	300.0	0.5	0.5	-88.96	0.4	-20.2	20.2	19.2	1.00	20.118	CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-171.46	0.4	-20.2	21.0	19.7	1.35	15.559			
500.0	500.0	500.0	500.0	0.9	0.8	-172.40	0.4	-20.2	23.6	21.9	1.70	13.893			
600.0	599.9	600.3	600.3	1.0	1.0	-173.84	0.3	-19.3	27.1	25.0	2.05	13.217			
700.0	699.7	700.8	700.7	1.2	1.2	-175.77	0.0	-16.7	30.6	28.2	2.40	12.750			
800.0	799.4	801.3	801.1	1.4	1.4	-178.03	-0.5	-12.3	34.1	31.4	2.75	12.422			
900.0	898.9	901.8	901.5	1.7	1.6	179.47	-1.2	-6.2	37.7	34.6	3.09	12.195			
1,000.0	998.3	1,002.4	1,001.7	1.9	1.8	176.82	-2.1	1.7	41.5	38.1	3.45	12.041			
1,100.0	1,097.4	1,102.4	1,101.4	2.2	2.0	174.30	-3.1	10.8	45.9	42.1	3.80	12.073			
1,200.0	1,196.3	1,202.2	1,200.7	2.5	2.2	172.46	-4.1	19.9	52.0	47.9	4.16	12.512			
1,300.0	1,294.9	1,301.9	1,300.0	2.8	2.4	171.27	-5.1	29.0	59.9	55.4	4.52	13.266			
1,400.0	1,393.3	1,401.4	1,399.1	3.2	2.7	170.59	-6.2	38.1	69.6	64.7	4.88	14.263			
1,419.0	1,411.9	1,420.3	1,417.9	3.2	2.7	170.51	-6.4	39.8	71.6	66.7	4.95	14.475			
1,500.0	1,491.4	1,500.8	1,498.1	3.5	2.9	170.23	-7.2	47.1	80.4	75.1	5.24	15.326			
1,600.0	1,589.5	1,600.3	1,597.1	3.9	3.1	169.96	-8.2	56.2	91.2	85.6	5.61	16.249			
1,700.0	1,687.6	1,699.7	1,696.1	4.2	3.3	169.75	-9.2	65.3	102.0	96.1	5.98	17.056			
1,800.0	1,785.7	1,799.1	1,795.1	4.6	3.6	169.58	-10.2	74.3	112.9	106.5	6.35	17.767			
1,900.0	1,883.8	1,898.5	1,894.1	5.0	3.8	169.43	-11.2	83.4	123.7	117.0	6.72	18.398			
2,000.0	1,981.9	1,997.9	1,993.1	5.4	4.0	169.31	-12.3	92.5	134.6	127.5	7.10	18.962			
2,100.0	2,080.0	2,097.3	2,092.1	5.7	4.3	169.21	-13.3	101.5	145.4	137.9	7.47	19.469			
2,200.0	2,178.1	2,196.7	2,191.0	6.1	4.5	169.13	-14.3	110.6	156.2	148.4	7.84	19.926			
2,300.0	2,276.2	2,296.1	2,290.0	6.5	4.7	169.05	-15.3	119.6	167.1	158.8	8.21	20.341			
2,400.0	2,374.3	2,395.5	2,389.0	6.9	5.0	168.98	-16.3	128.7	177.9	169.3	8.59	20.720			
2,500.0	2,472.3	2,495.0	2,488.0	7.3	5.2	168.93	-17.3	137.8	188.7	179.8	8.96	21.066			
2,600.0	2,570.4	2,594.4	2,587.0	7.6	5.4	168.87	-18.4	146.8	199.6	190.2	9.33	21.384			
2,700.0	2,668.5	2,693.8	2,686.0	8.0	5.7	168.83	-19.4	155.9	210.4	200.7	9.71	21.678			
2,800.0	2,766.6	2,793.2	2,785.0	8.4	5.9	168.78	-20.4	165.0	221.2	211.2	10.08	21.949			
2,900.0	2,864.7	2,892.6	2,884.0	8.8	6.1	168.74	-21.4	174.0	232.1	221.6	10.45	22.200			
3,000.0	2,962.8	2,992.0	2,983.0	9.2	6.4	168.71	-22.4	183.1	242.9	232.1	10.83	22.434			
3,100.0	3,060.9	3,091.4	3,082.0	9.5	6.6	168.68	-23.4	192.2	253.8	242.6	11.20	22.652			
3,200.0	3,159.0	3,190.8	3,181.0	9.9	6.8	168.65	-24.4	201.2	264.6	253.0	11.58	22.855			
3,300.0	3,257.1	3,290.2	3,279.9	10.3	7.1	168.62	-25.5	210.3	275.4	263.5	11.95	23.046			
3,400.0	3,355.2	3,389.7	3,378.9	10.7	7.3	168.60	-26.5	219.4	286.3	273.9	12.33	23.225			
3,500.0	3,453.3	3,489.1	3,477.9	11.1	7.5	168.57	-27.5	228.4	297.1	284.4	12.70	23.393			
3,600.0	3,551.4	3,588.5	3,576.9	11.5	7.8	168.55	-28.5	237.5	308.0	294.9	13.08	23.551			
3,700.0	3,649.5	3,687.9	3,675.9	11.9	8.0	168.53	-29.5	246.6	318.8	305.3	13.45	23.700			
3,800.0	3,747.6	3,787.3	3,774.9	12.2	8.2	168.51	-30.5	255.6	329.6	315.8	13.83	23.841			
3,900.0	3,845.7	3,886.7	3,873.9	12.6	8.5	168.49	-31.6	264.7	340.5	326.3	14.20	23.975			
4,000.0	3,943.8	3,986.1	3,972.9	13.0	8.7	168.48	-32.6	273.8	351.3	336.7	14.58	24.102			
4,100.0	4,041.9	4,085.5	4,071.9	13.4	8.9	168.46	-33.6	282.8	362.1	347.2	14.95	24.222			
4,200.0	4,140.0	4,184.9	4,170.9	13.8	9.2	168.45	-34.6	291.9	373.0	357.7	15.33	24.336			
4,300.0	4,238.1	4,284.3	4,269.9	14.2	9.4	168.43	-35.6	301.0	383.8	368.1	15.70	24.445			
4,400.0	4,336.2	4,383.8	4,368.9	14.5	9.6	168.42	-36.6	310.0	394.7	378.6	16.08	24.548			
4,500.0	4,434.3	4,483.2	4,467.8	14.9	9.9	168.41	-37.7	319.1	405.5	389.0	16.45	24.647			
4,600.0	4,532.4	4,582.6	4,566.8	15.3	10.1	168.40	-38.7	328.1	416.3	399.5	16.83	24.742			
4,700.0	4,630.5	4,682.0	4,665.8	15.7	10.3	168.39	-39.7	337.2	427.2	410.0	17.20	24.832			
4,800.0	4,728.6	4,781.4	4,764.8	16.1	10.6	168.38	-40.7	346.3	438.0	420.4	17.58	24.918			
4,900.0	4,826.7	4,880.8	4,863.8	16.5	10.8	168.37	-41.7	355.3	448.8	430.9	17.95	25.001			
5,000.0	4,924.8	4,980.2	4,962.8	16.9	11.1	168.36	-42.7	364.4	459.7	441.4	18.33	25.080			

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
5,100.0	5,022.9	5,079.6	5,061.8	17.2	11.3	168.35	-43.8	373.5	470.5	451.8	18.70	25.156				
5,200.0	5,121.0	5,179.0	5,160.8	17.6	11.5	168.34	-44.8	382.5	481.4	462.3	19.08	25.229				
5,300.0	5,219.1	5,278.5	5,259.8	18.0	11.8	168.33	-45.8	391.6	492.2	472.7	19.46	25.299				
5,400.0	5,317.2	5,377.9	5,358.8	18.4	12.0	168.32	-46.8	400.7	503.0	483.2	19.83	25.366				
5,500.0	5,415.3	5,477.3	5,457.8	18.8	12.2	168.31	-47.8	409.7	513.9	493.7	20.21	25.431				
5,600.0	5,513.4	5,576.7	5,556.8	19.2	12.5	168.31	-48.8	418.8	524.7	504.1	20.58	25.494				
5,700.0	5,611.5	5,676.1	5,655.7	19.6	12.7	168.30	-49.8	427.9	535.6	514.6	20.96	25.554				
5,800.0	5,709.6	5,775.5	5,754.7	19.9	12.9	168.29	-50.9	436.9	546.4	525.1	21.33	25.612				
5,900.0	5,807.7	5,874.9	5,853.7	20.3	13.2	168.29	-51.9	446.0	557.2	535.5	21.71	25.668				
6,000.0	5,905.8	5,974.3	5,952.7	20.7	13.4	168.28	-52.9	455.1	568.1	546.0	22.08	25.722				
6,100.0	6,003.9	6,073.7	6,051.7	21.1	13.6	168.27	-53.9	464.1	578.9	556.4	22.46	25.774				
6,200.0	6,102.0	6,173.2	6,150.7	21.5	13.9	168.27	-54.9	473.2	589.7	566.9	22.84	25.825				
6,300.0	6,200.1	6,272.6	6,249.7	21.9	14.1	168.26	-55.9	482.3	600.6	577.4	23.21	25.874				
6,400.0	6,298.2	6,372.0	6,348.7	22.3	14.3	168.26	-57.0	491.3	611.4	587.8	23.59	25.921				
6,500.0	6,396.3	6,471.4	6,447.7	22.6	14.6	168.25	-58.0	500.4	622.3	598.3	23.96	25.967				
6,600.0	6,494.4	6,570.8	6,546.7	23.0	14.8	168.25	-59.0	509.4	633.1	608.8	24.34	26.011				
6,700.0	6,592.5	6,670.2	6,645.7	23.4	15.1	168.24	-60.0	518.5	643.9	619.2	24.72	26.055				
6,800.0	6,690.6	6,769.6	6,744.7	23.8	15.3	168.24	-61.0	527.6	654.8	629.7	25.09	26.096				
6,900.0	6,788.7	6,869.0	6,843.6	24.2	15.5	168.23	-62.0	536.6	665.6	640.2	25.47	26.137				
7,000.0	6,886.8	6,981.1	6,955.3	24.6	15.8	168.30	-62.3	546.9	676.3	650.4	25.84	26.172				
7,068.1	6,953.6	7,093.3	7,065.6	24.8	16.0	169.63	-46.5	557.2	680.2	654.3	25.84	26.321				
7,100.0	6,984.9	7,143.6	7,113.7	25.0	16.1	-174.27	-32.4	561.7	680.9	655.2	25.71	26.480				
7,150.0	7,033.5	7,219.6	7,183.5	25.2	16.3	-154.56	-3.2	568.4	681.6	656.1	25.52	26.705				
7,200.0	7,081.4	7,291.8	7,245.7	25.4	16.5	-141.08	32.9	574.5	682.0	656.6	25.36	26.892				
7,250.0	7,128.3	7,360.3	7,300.1	25.6	16.7	-131.62	74.1	579.9	682.2	656.8	25.37	26.889				
7,300.0	7,173.7	7,425.2	7,346.7	25.8	16.9	-124.56	118.9	584.7	682.4	656.8	25.60	26.660				
7,350.0	7,217.2	7,486.7	7,386.0	26.1	17.2	-118.98	166.0	588.8	682.7	656.6	26.06	26.196				
7,400.0	7,258.7	7,545.1	7,418.5	26.3	17.5	-114.36	214.4	592.2	683.2	656.4	26.77	25.525				
7,450.0	7,297.7	7,600.7	7,444.7	26.6	17.8	-110.41	263.4	595.2	684.0	656.3	27.68	24.707				
7,500.0	7,334.0	7,653.8	7,465.1	26.9	18.2	-106.94	312.3	597.5	685.1	656.3	28.77	23.812				
7,550.0	7,367.2	7,704.7	7,480.4	27.2	18.6	-103.83	360.7	599.5	686.5	656.6	29.97	22.908				
7,600.0	7,397.2	7,753.5	7,491.0	27.5	18.9	-101.03	408.4	600.9	688.3	657.0	31.22	22.044				
7,650.0	7,423.7	7,800.6	7,497.4	27.8	19.4	-98.47	455.0	602.0	690.3	657.8	32.48	21.254				
7,700.0	7,446.5	7,846.1	7,499.9	28.2	19.8	-96.13	500.4	602.7	692.6	658.9	33.70	20.554				
7,750.0	7,465.4	7,892.1	7,500.0	28.6	20.2	-94.02	546.4	603.2	695.0	660.1	34.86	19.939				
7,800.0	7,480.4	7,939.7	7,500.0	29.0	20.7	-92.30	594.0	603.7	697.2	661.3	35.94	19.398				
7,850.0	7,491.1	7,988.5	7,500.0	29.3	21.2	-91.04	642.8	604.2	699.0	662.1	36.94	18.922				
7,900.0	7,497.7	8,038.0	7,500.0	29.8	21.8	-90.27	692.3	604.7	700.2	662.3	37.90	18.474				
7,951.9	7,500.0	8,089.9	7,500.0	30.2	22.4	-90.00	744.2	605.3	700.5	661.7	38.86	18.025				
8,000.0	7,500.0	8,138.0	7,500.0	30.6	22.9	-90.00	792.3	605.8	700.5	660.3	40.17	17.437				
8,100.0	7,500.0	8,238.0	7,500.0	31.5	24.2	-90.00	892.2	606.8	700.3	657.3	42.96	16.299				
8,200.0	7,500.0	8,338.0	7,500.0	32.5	25.5	-90.00	992.2	607.9	700.1	654.3	45.86	15.268				
8,300.0	7,500.0	8,438.0	7,500.0	33.6	26.8	-90.00	1,092.2	608.9	699.9	651.1	48.83	14.335				
8,400.0	7,500.0	8,538.0	7,500.0	34.7	28.2	-90.00	1,192.2	610.0	699.8	647.9	51.87	13.491				
8,500.0	7,500.0	8,638.0	7,500.0	35.9	29.6	-90.00	1,292.2	611.0	699.6	644.6	54.96	12.728				
8,551.9	7,500.0	8,689.9	7,500.0	36.5	30.4	-90.00	1,344.1	611.5	699.5	642.9	56.59	12.361				
8,600.0	7,500.0	8,738.0	7,500.0	37.1	31.1	-90.00	1,392.2	612.1	699.4	641.3	58.10	12.037				
8,700.0	7,500.0	8,838.0	7,500.0	38.3	32.6	-90.00	1,492.2	613.1	699.2	637.9	61.29	11.409				
8,800.0	7,500.0	8,938.0	7,500.0	39.6	34.1	-90.00	1,592.2	614.1	699.1	634.6	64.50	10.838				
8,900.0	7,500.0	9,038.0	7,500.0	40.9	35.6	-90.00	1,692.2	615.2	698.9	631.1	67.75	10.316				
9,000.0	7,500.0	9,138.0	7,500.0	42.3	37.2	-90.00	1,792.2	616.2	698.7	627.7	71.02	9.839				
9,100.0	7,500.0	9,238.0	7,500.0	43.7	38.8	-90.00	1,892.2	617.3	698.5	624.2	74.31	9.400				

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	9,338.0	7,500.0	45.1	40.4	-90.00	1,992.2	618.3	698.4	620.7	77.62	8.997	
9,300.0	7,500.0	9,438.0	7,500.0	46.5	42.0	-90.00	2,092.2	619.4	698.2	617.2	80.95	8.625	
9,400.0	7,500.0	9,538.0	7,500.0	48.0	43.6	-90.00	2,192.2	620.4	698.0	613.7	84.29	8.281	
9,500.0	7,500.0	9,638.0	7,500.0	49.5	45.2	-90.00	2,292.2	621.5	697.8	610.2	87.65	7.962	
9,551.9	7,500.0	9,689.9	7,500.0	50.2	46.1	-90.00	2,344.1	622.0	697.7	608.4	89.39	7.806	
9,600.0	7,500.0	9,738.0	7,500.0	51.0	46.8	-90.00	2,392.2	622.5	697.5	606.7	90.74	7.686	
9,700.0	7,500.0	9,838.0	7,500.0	52.4	48.5	-90.00	2,492.1	623.6	695.6	602.0	93.54	7.436	
9,800.0	7,500.0	9,937.9	7,500.0	53.9	50.1	-90.00	2,592.1	624.6	691.9	595.6	96.32	7.184	
9,900.0	7,500.0	10,037.7	7,500.0	55.4	51.8	-90.00	2,691.9	625.7	686.6	587.5	99.07	6.930	
10,000.0	7,500.0	10,127.8	7,500.0	56.9	53.3	-90.00	2,782.0	626.0	680.1	578.5	101.64	6.691	
10,100.0	7,500.0	10,217.0	7,500.0	58.4	54.8	-90.00	2,871.2	625.0	673.4	569.3	104.17	6.465	
10,201.9	7,500.0	10,308.1	7,500.0	60.0	56.3	-90.00	2,962.2	622.5	666.5	559.7	106.72	6.245	
10,300.0	7,500.0	10,400.0	7,500.0	61.5	57.8	-90.00	3,054.0	618.5	660.4	550.5	109.96	6.006	
10,400.0	7,500.0	10,485.4	7,500.0	63.0	59.2	-90.00	3,139.3	613.5	655.8	542.6	113.14	5.796	
10,500.0	7,500.0	10,575.1	7,500.0	64.5	60.7	-90.00	3,228.8	606.9	652.7	536.3	116.39	5.608	
10,600.0	7,500.0	10,664.9	7,500.0	66.1	62.2	-90.00	3,318.2	598.8	651.2	531.5	119.65	5.442	
10,646.0	7,500.0	10,706.2	7,500.0	66.8	62.9	-90.00	3,359.3	594.7	651.0	529.9	121.15	5.374	
10,700.0	7,500.0	10,754.7	7,500.0	67.7	63.7	-90.00	3,407.5	589.4	651.3	528.3	122.92	5.298	
10,800.0	7,500.0	10,844.5	7,500.0	69.2	65.1	-90.00	3,496.6	578.6	652.9	526.7	126.19	5.174	
10,900.0	7,500.0	10,937.4	7,500.0	70.8	66.7	-90.00	3,588.6	566.0	656.0	526.5	129.52	5.065	
11,000.0	7,500.0	11,037.3	7,500.0	72.4	68.3	-90.00	3,687.6	552.1	659.5	526.5	132.97	4.960	
11,100.0	7,500.0	11,137.2	7,500.0	74.0	70.0	-90.00	3,786.6	538.1	663.0	526.6	136.43	4.860	
11,200.0	7,500.0	11,237.2	7,500.0	75.6	71.7	-90.00	3,885.5	524.2	666.5	526.6	139.89	4.764	
11,300.0	7,500.0	11,347.8	7,500.0	77.2	73.5	-90.00	3,995.2	509.6	669.3	525.8	143.54	4.663	
11,400.0	7,500.0	11,461.1	7,500.0	78.8	75.4	-90.00	4,107.7	496.7	670.2	523.0	147.24	4.552	
11,500.0	7,500.0	11,574.3	7,500.0	80.5	77.4	-90.00	4,220.4	486.1	669.1	518.2	150.93	4.433	
11,600.0	7,500.0	11,687.4	7,500.0	82.1	79.3	-90.00	4,333.3	477.7	666.1	511.5	154.63	4.308	
11,700.0	7,500.0	11,800.4	7,500.0	83.7	81.2	-90.00	4,446.1	471.5	661.1	502.8	158.32	4.176	
11,801.9	7,500.0	11,915.2	7,500.0	85.4	83.2	-90.00	4,560.8	467.6	653.9	491.9	162.08	4.035	
11,900.0	7,500.0	12,025.5	7,500.0	87.0	85.1	-90.00	4,671.1	465.9	646.0	479.6	166.41	3.882	
12,000.0	7,500.0	12,137.7	7,500.0	88.7	87.0	-90.00	4,783.3	466.4	637.7	466.9	170.79	3.734	
12,100.0	7,500.0	12,240.9	7,500.0	90.4	88.8	-90.00	4,886.5	468.4	629.6	454.7	174.96	3.599	
12,200.0	7,500.0	12,340.7	7,500.0	92.0	90.5	-90.00	4,986.2	470.3	623.3	444.2	179.04	3.481	
12,300.0	7,500.0	12,440.6	7,500.0	93.7	92.3	-90.00	5,086.1	472.3	618.6	435.6	183.06	3.379	
12,400.0	7,500.0	12,540.6	7,500.0	95.4	94.0	-90.00	5,186.0	474.3	615.8	428.7	187.04	3.292	
12,500.0	7,500.0	12,640.5	7,500.0	97.1	95.7	-90.00	5,286.0	476.2	614.6	423.7	190.97	3.219	
12,514.9	7,500.0	12,655.4	7,500.0	97.4	96.0	-90.00	5,300.9	476.5	614.6	423.1	191.55	3.209	
12,600.0	7,500.0	12,740.5	7,500.0	98.9	97.5	-90.00	5,386.0	478.2	615.3	420.4	194.84	3.158	
12,700.0	7,500.0	12,840.5	7,500.0	100.6	99.2	-90.00	5,485.9	480.2	617.6	418.9	198.66	3.109	
12,806.4	7,500.0	12,946.8	7,500.0	102.4	101.1	-90.00	5,592.2	482.3	622.0	419.4	202.67	3.069	
12,900.0	7,500.0	13,040.3	7,500.0	104.0	102.7	-90.00	5,685.7	484.1	626.8	420.9	205.93	3.044	
13,000.0	7,500.0	13,140.2	7,500.0	105.8	104.4	-90.00	5,785.5	486.1	631.9	422.5	209.41	3.017	
13,100.0	7,500.0	13,240.0	7,500.0	107.5	106.1	-90.00	5,885.4	488.1	637.0	424.1	212.89	2.992	
13,200.0	7,500.0	13,339.9	7,500.0	109.2	107.9	-90.00	5,985.2	490.0	642.0	425.7	216.37	2.967	
13,300.0	7,500.0	13,439.8	7,500.0	111.0	109.6	-90.00	6,085.1	492.0	647.1	427.3	219.86	2.943	
13,400.0	7,500.0	13,539.6	7,500.0	112.7	111.4	-90.00	6,185.0	494.0	652.2	428.9	223.34	2.920	
13,500.0	7,500.0	13,639.5	7,500.0	114.5	113.1	-90.00	6,284.8	495.9	657.3	430.5	226.83	2.898	
13,600.0	7,500.0	13,739.4	7,500.0	116.2	114.8	-90.00	6,384.7	497.9	662.4	432.1	230.32	2.876	
13,700.0	7,500.0	13,839.3	7,500.0	117.9	116.6	-90.00	6,484.5	499.9	667.5	433.7	233.81	2.855	
13,800.0	7,500.0	13,939.1	7,500.0	119.7	118.3	-90.00	6,584.4	501.9	672.6	435.3	237.29	2.834	
13,900.0	7,500.0	14,039.0	7,500.0	121.4	120.0	-90.00	6,684.2	503.8	677.6	436.9	240.78	2.814	
14,000.0	7,500.0	14,138.9	7,500.0	123.1	121.8	-90.00	6,784.1	505.8	682.7	438.5	244.27	2.795	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
14,100.0	7,500.0	14,238.7	7,500.0	124.9	123.5	-90.00	6,883.9	507.8	687.8	440.1	247.76	2.776					
14,200.0	7,500.0	14,338.6	7,500.0	126.6	125.3	-90.00	6,983.8	509.7	692.9	441.7	251.25	2.758					
14,300.0	7,500.0	14,438.5	7,500.0	128.4	127.0	-90.00	7,083.6	511.7	698.0	443.2	254.74	2.740					
14,335.9	7,500.0	14,455.0	7,500.0	129.0	127.3	-90.00	7,100.1	512.0	700.1	444.4	255.66	2.738 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	-87.93	0.4	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-87.93	0.4	-10.1	10.1	9.8	0.30	33.199		
200.0	200.0	200.0	200.0	0.3	0.3	-87.93	0.4	-10.1	10.1	9.4	0.65	15.446		
300.0	300.0	300.0	300.0	0.5	0.5	-87.93	0.4	-10.1	10.1	9.1	1.00	10.064 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-170.85	0.4	-10.1	10.9	9.6	1.35	8.101		
500.0	500.0	500.2	500.2	0.9	0.9	-172.92	0.3	-9.2	12.7	11.0	1.70	7.449		
600.0	599.9	600.4	600.4	1.0	1.0	-175.94	0.1	-6.6	14.4	12.3	2.05	7.029		
700.0	699.7	700.6	700.5	1.2	1.2	-179.59	-0.2	-2.2	16.2	13.8	2.40	6.754		
800.0	799.4	800.9	800.6	1.4	1.4	176.36	-0.6	3.9	18.1	15.3	2.75	6.584		
900.0	898.9	901.2	900.6	1.7	1.6	172.09	-1.2	11.8	20.1	17.0	3.10	6.491		
1,000.0	998.3	1,001.5	1,000.4	1.9	1.8	167.73	-1.8	21.4	22.4	18.9	3.47	6.452		
1,100.0	1,097.4	1,101.7	1,100.0	2.2	2.1	163.47	-2.6	32.7	24.9	21.1	3.86	6.462		
1,200.0	1,196.3	1,201.6	1,199.2	2.5	2.3	160.68	-3.5	44.4	28.8	24.5	4.25	6.766		
1,300.0	1,294.9	1,301.5	1,298.4	2.8	2.6	159.61	-4.3	56.2	34.3	29.7	4.65	7.378		
1,400.0	1,393.3	1,401.2	1,397.4	3.2	2.8	159.70	-5.1	67.9	41.5	36.5	5.04	8.228		
1,419.0	1,411.9	1,420.2	1,416.2	3.2	2.9	159.80	-5.3	70.1	43.1	37.9	5.12	8.413		
1,500.0	1,491.4	1,500.9	1,496.4	3.5	3.1	160.24	-5.9	79.6	49.8	44.4	5.43	9.161		
1,600.0	1,589.5	1,600.5	1,595.3	3.9	3.4	160.64	-6.8	91.3	58.1	52.3	5.83	9.970		
1,700.0	1,687.6	1,700.2	1,694.3	4.2	3.6	160.94	-7.6	103.0	66.4	60.2	6.22	10.675		
1,800.0	1,785.7	1,799.8	1,793.2	4.6	3.9	161.18	-8.4	114.7	74.7	68.1	6.62	11.294		
1,900.0	1,883.8	1,899.5	1,892.2	5.0	4.1	161.36	-9.2	126.4	83.0	76.0	7.01	11.842		
2,000.0	1,981.9	1,999.2	1,991.2	5.4	4.4	161.52	-10.0	138.2	91.4	84.0	7.41	12.331		
2,100.0	2,080.0	2,098.8	2,090.1	5.7	4.7	161.65	-10.9	149.9	99.7	91.9	7.81	12.769		
2,200.0	2,178.1	2,198.5	2,189.1	6.1	4.9	161.75	-11.7	161.6	108.0	99.8	8.20	13.164		
2,300.0	2,276.2	2,298.1	2,288.0	6.5	5.2	161.85	-12.5	173.3	116.3	107.7	8.60	13.522		
2,400.0	2,374.3	2,397.8	2,387.0	6.9	5.5	161.93	-13.3	185.0	124.6	115.6	9.00	13.848		
2,500.0	2,472.3	2,497.4	2,486.0	7.3	5.7	162.00	-14.1	196.7	133.0	123.6	9.40	14.146		
2,600.0	2,570.4	2,597.1	2,584.9	7.6	6.0	162.06	-15.0	208.4	141.3	131.5	9.80	14.419		
2,700.0	2,668.5	2,696.7	2,683.9	8.0	6.3	162.11	-15.8	220.2	149.6	139.4	10.20	14.670		
2,800.0	2,766.6	2,796.4	2,782.8	8.4	6.5	162.16	-16.6	231.9	157.9	147.3	10.60	14.902		
2,900.0	2,864.7	2,896.0	2,881.8	8.8	6.8	162.21	-17.4	243.6	166.2	155.3	11.00	15.117		
3,000.0	2,962.8	2,995.7	2,980.7	9.2	7.1	162.25	-18.3	255.3	174.6	163.2	11.40	15.317		
3,100.0	3,060.9	3,095.3	3,079.7	9.5	7.3	162.28	-19.1	267.0	182.9	171.1	11.80	15.503		
3,200.0	3,159.0	3,195.0	3,178.7	9.9	7.6	162.32	-19.9	278.7	191.2	179.0	12.20	15.677		
3,300.0	3,257.1	3,294.6	3,277.6	10.3	7.9	162.35	-20.7	290.4	199.5	186.9	12.60	15.839		
3,400.0	3,355.2	3,394.3	3,376.6	10.7	8.1	162.37	-21.5	302.1	207.9	194.9	13.00	15.992		
3,500.0	3,453.3	3,494.0	3,475.5	11.1	8.4	162.40	-22.4	313.9	216.2	202.8	13.40	16.135		
3,600.0	3,551.4	3,593.6	3,574.5	11.5	8.7	162.42	-23.2	325.6	224.5	210.7	13.80	16.270		
3,700.0	3,649.5	3,693.3	3,673.5	11.9	8.9	162.45	-24.0	337.3	232.8	218.6	14.20	16.397		
3,800.0	3,747.6	3,792.9	3,772.4	12.2	9.2	162.47	-24.8	349.0	241.1	226.5	14.60	16.517		
3,900.0	3,845.7	3,892.6	3,871.4	12.6	9.5	162.49	-25.7	360.7	249.5	234.5	15.00	16.630		
4,000.0	3,943.8	3,992.2	3,970.3	13.0	9.7	162.50	-26.5	372.4	257.8	242.4	15.40	16.738		
4,100.0	4,041.9	4,091.9	4,069.3	13.4	10.0	162.52	-27.3	384.1	266.1	250.3	15.80	16.840		
4,200.0	4,140.0	4,191.5	4,168.3	13.8	10.3	162.54	-28.1	395.8	274.4	258.2	16.20	16.937		
4,300.0	4,238.1	4,291.2	4,267.2	14.2	10.6	162.55	-28.9	407.6	282.7	266.1	16.60	17.029		
4,400.0	4,336.2	4,390.8	4,366.2	14.5	10.8	162.57	-29.8	419.3	291.1	274.1	17.00	17.117		
4,500.0	4,434.3	4,490.5	4,465.1	14.9	11.1	162.58	-30.6	431.0	299.4	282.0	17.41	17.200		
4,600.0	4,532.4	4,590.1	4,564.1	15.3	11.4	162.59	-31.4	442.7	307.7	289.9	17.81	17.280		
4,700.0	4,630.5	4,689.8	4,663.0	15.7	11.6	162.60	-32.2	454.4	316.0	297.8	18.21	17.357		
4,800.0	4,728.6	4,789.4	4,762.0	16.1	11.9	162.62	-33.1	466.1	324.4	305.7	18.61	17.430		
4,900.0	4,826.7	4,889.1	4,861.0	16.5	12.2	162.63	-33.9	477.8	332.7	313.7	19.01	17.500		
5,000.0	4,924.8	4,988.7	4,959.9	16.9	12.4	162.64	-34.7	489.5	341.0	321.6	19.41	17.567		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,088.4	5,058.9	17.2	12.7	162.65	-35.5	501.3	349.3	329.5	19.81	17.631	
5,200.0	5,121.0	5,188.1	5,157.8	17.6	13.0	162.66	-36.3	513.0	357.6	337.4	20.21	17.692	
5,300.0	5,219.1	5,287.7	5,256.8	18.0	13.2	162.67	-37.2	524.7	366.0	345.3	20.62	17.752	
5,400.0	5,317.2	5,387.4	5,355.8	18.4	13.5	162.67	-38.0	536.4	374.3	353.3	21.02	17.809	
5,500.0	5,415.3	5,487.0	5,454.7	18.8	13.8	162.68	-38.8	548.1	382.6	361.2	21.42	17.863	
5,600.0	5,513.4	5,586.7	5,553.7	19.2	14.0	162.69	-39.6	559.8	390.9	369.1	21.82	17.916	
5,700.0	5,611.5	5,686.3	5,652.6	19.6	14.3	162.70	-40.4	571.5	399.2	377.0	22.22	17.967	
5,800.0	5,709.6	5,786.0	5,751.6	19.9	14.6	162.70	-41.3	583.2	407.6	384.9	22.62	18.016	
5,900.0	5,807.7	5,885.6	5,850.6	20.3	14.9	162.71	-42.1	595.0	415.9	392.9	23.02	18.063	
6,000.0	5,905.8	5,985.3	5,949.5	20.7	15.1	162.72	-42.9	606.7	424.2	400.8	23.43	18.109	
6,100.0	6,003.9	6,084.9	6,048.5	21.1	15.4	162.72	-43.7	618.4	432.5	408.7	23.83	18.153	
6,200.0	6,102.0	6,184.6	6,147.4	21.5	15.7	162.73	-44.6	630.1	440.9	416.6	24.23	18.196	
6,300.0	6,200.1	6,284.2	6,246.4	21.9	15.9	162.74	-45.4	641.8	449.2	424.5	24.63	18.237	
6,400.0	6,298.2	6,383.9	6,345.4	22.3	16.2	162.74	-46.2	653.5	457.5	432.5	25.03	18.277	
6,500.0	6,396.3	6,483.5	6,444.3	22.6	16.5	162.75	-47.0	665.2	465.8	440.4	25.43	18.316	
6,600.0	6,494.4	6,583.2	6,543.3	23.0	16.7	162.75	-47.8	676.9	474.1	448.3	25.83	18.353	
6,700.0	6,592.5	6,682.9	6,642.2	23.4	17.0	162.76	-48.7	688.7	482.5	456.2	26.24	18.389	
6,800.0	6,690.6	6,782.5	6,741.2	23.8	17.3	162.76	-49.5	700.4	490.8	464.2	26.64	18.425	
6,900.0	6,788.7	6,882.2	6,840.1	24.2	17.6	162.77	-50.3	712.1	499.1	472.1	27.04	18.459	
7,000.0	6,886.8	6,981.8	6,939.1	24.6	17.8	162.77	-51.1	723.8	507.4	480.0	27.44	18.492	
7,068.1	6,953.6	7,049.7	7,006.5	24.8	18.0	162.77	-51.7	731.8	513.1	485.4	27.71	18.514	
7,100.0	6,984.9	7,081.4	7,038.0	25.0	18.1	177.94	-52.0	735.5	516.1	488.4	27.74	18.606	
7,150.0	7,033.5	7,130.8	7,087.1	25.2	18.2	-164.13	-52.4	741.3	522.4	494.7	27.75	18.827	
7,200.0	7,081.4	7,179.4	7,135.3	25.4	18.4	-152.75	-52.8	747.0	530.6	502.9	27.71	19.148	
7,250.0	7,128.3	7,239.7	7,195.2	25.6	18.5	-145.94	-52.5	754.1	540.7	513.0	27.70	19.519	
7,300.0	7,173.7	7,326.0	7,280.2	25.8	18.7	-141.94	-42.3	764.1	550.2	522.6	27.63	19.916	
7,350.0	7,217.2	7,417.0	7,367.2	26.1	19.0	-139.05	-17.7	774.1	558.3	531.0	27.28	20.468	
7,400.0	7,258.7	7,511.7	7,452.4	26.3	19.2	-136.67	22.2	783.9	564.6	537.8	26.80	21.065	
7,450.0	7,297.7	7,608.6	7,531.6	26.6	19.5	-134.43	77.0	792.8	568.8	542.6	26.22	21.694	
7,500.0	7,334.0	7,705.6	7,600.6	26.9	19.8	-132.16	144.6	800.3	571.0	545.2	25.76	22.166	
7,550.0	7,367.2	7,800.8	7,656.4	27.2	20.3	-129.75	221.5	806.3	571.0	545.4	25.62	22.287	
7,600.0	7,397.2	7,892.6	7,697.6	27.5	20.8	-127.21	303.3	810.4	569.2	543.2	25.99	21.905	
7,650.0	7,423.7	7,979.9	7,724.2	27.8	21.3	-124.56	386.3	812.8	565.9	539.0	26.92	21.019	
7,700.0	7,446.5	8,061.9	7,737.5	28.2	21.9	-121.86	467.1	813.7	561.5	533.1	28.38	19.782	
7,750.0	7,465.4	8,129.8	7,740.0	28.6	22.5	-119.50	534.9	813.4	556.3	526.3	30.08	18.498	
7,800.0	7,480.4	8,177.3	7,740.0	29.0	22.9	-118.09	582.5	813.0	552.4	520.8	31.61	17.476	
7,850.0	7,491.1	8,226.1	7,740.0	29.3	23.4	-116.99	631.2	812.6	550.1	516.8	33.25	16.543	
7,900.0	7,497.7	8,275.6	7,740.0	29.8	23.8	-116.25	680.7	812.1	549.1	514.1	34.95	15.711	
7,917.2	7,499.0	8,292.7	7,740.0	29.9	24.0	-116.09	697.8	812.0	549.0	513.5	35.54	15.449	
7,951.9	7,500.0	8,327.4	7,740.0	30.2	24.4	-115.91	732.5	811.7	549.3	512.6	36.74	14.951	
8,000.0	7,500.0	8,375.5	7,740.0	30.6	24.9	-115.87	780.6	811.3	550.0	512.2	37.88	14.519	
8,100.0	7,500.0	8,475.4	7,740.0	31.5	26.0	-115.79	880.6	810.4	551.6	511.3	40.35	13.671	
8,200.0	7,500.0	8,575.4	7,740.0	32.5	27.2	-115.72	980.6	809.5	553.2	510.3	42.91	12.892	
8,300.0	7,500.0	8,675.4	7,740.0	33.6	28.4	-115.64	1,080.5	808.7	554.8	509.2	45.55	12.178	
8,400.0	7,500.0	8,775.4	7,740.0	34.7	29.7	-115.56	1,180.5	807.8	556.3	508.1	48.27	11.527	
8,500.0	7,500.0	8,875.4	7,740.0	35.9	31.0	-115.48	1,280.5	806.9	557.9	506.9	51.04	10.932	
8,551.9	7,500.0	8,927.3	7,740.0	36.5	31.8	-115.44	1,332.4	806.5	558.7	506.2	52.49	10.644	
8,600.0	7,500.0	8,975.4	7,740.0	37.1	32.4	-115.41	1,380.5	806.0	559.5	505.6	53.86	10.388	
8,700.0	7,500.0	9,075.4	7,740.0	38.3	33.8	-115.33	1,480.5	805.2	561.1	504.3	56.72	9.892	
8,800.0	7,500.0	9,175.3	7,740.0	39.6	35.3	-115.25	1,580.4	804.3	562.6	503.0	59.62	9.437	
8,900.0	7,500.0	9,275.3	7,740.0	40.9	36.8	-115.18	1,680.4	803.4	564.2	501.7	62.56	9.019	
9,000.0	7,500.0	9,375.3	7,740.0	42.3	38.2	-115.10	1,780.4	802.6	565.8	500.3	65.52	8.635	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
9,100.0	7,500.0	9,475.3	7,740.0	43.7	39.8	-115.03	1,880.4	801.7	567.4	498.9	68.51	8.282	
9,200.0	7,500.0	9,575.3	7,740.0	45.1	41.3	-114.95	1,980.4	800.8	569.0	497.4	71.52	7.955	
9,300.0	7,500.0	9,675.3	7,740.0	46.5	42.8	-114.88	2,080.4	799.9	570.5	496.0	74.56	7.652	
9,400.0	7,500.0	9,775.2	7,740.0	48.0	44.4	-114.81	2,180.3	799.1	572.1	494.5	77.61	7.372	
9,500.0	7,500.0	9,875.2	7,740.0	49.5	46.0	-114.73	2,280.3	798.2	573.7	493.0	80.68	7.111	
9,551.9	7,500.0	9,927.1	7,740.0	50.2	46.8	-114.69	2,332.2	797.7	574.5	492.3	82.28	6.983	
9,600.0	7,500.0	9,975.2	7,740.0	51.0	47.6	-114.67	2,380.3	797.3	575.1	491.6	83.50	6.887	
9,700.0	7,500.0	10,075.2	7,740.0	52.4	49.2	-114.66	2,480.3	796.4	575.1	489.1	86.01	6.687	
9,800.0	7,500.0	10,175.2	7,740.0	53.9	50.8	-114.74	2,580.3	795.6	573.6	485.1	88.45	6.485	
9,900.0	7,500.0	10,275.1	7,740.0	55.4	52.4	-114.90	2,680.2	794.7	570.5	479.6	90.81	6.282	
10,000.0	7,500.0	10,375.0	7,740.0	56.9	54.1	-115.14	2,780.1	793.8	565.7	472.6	93.10	6.077	
10,100.0	7,500.0	10,474.8	7,740.0	58.4	55.7	-115.47	2,879.8	793.0	559.5	464.2	95.28	5.872	
10,201.9	7,500.0	10,576.3	7,740.0	60.0	57.4	-115.90	2,981.3	792.1	551.5	454.1	97.40	5.662	
10,300.0	7,500.0	10,673.9	7,740.0	61.5	59.0	-116.33	3,079.0	791.2	543.0	443.0	100.05	5.427	
10,400.0	7,500.0	10,773.5	7,740.0	63.0	60.6	-116.79	3,178.5	790.4	534.4	431.7	102.73	5.202	
10,500.0	7,500.0	10,873.0	7,740.0	64.5	62.3	-117.26	3,278.0	789.5	525.9	420.5	105.37	4.991	
10,600.0	7,500.0	10,972.5	7,740.0	66.1	63.9	-117.75	3,377.6	788.6	517.4	409.4	107.97	4.792	
10,700.0	7,500.0	11,072.1	7,740.0	67.7	65.6	-118.25	3,477.1	787.7	508.9	398.4	110.52	4.605	
10,800.0	7,500.0	11,171.6	7,740.0	69.2	67.3	-118.77	3,576.7	786.9	500.5	387.5	113.02	4.428	
10,900.0	7,500.0	11,271.2	7,740.0	70.8	68.9	-119.30	3,676.2	786.0	492.1	376.6	115.48	4.261	
11,000.0	7,500.0	11,370.7	7,740.0	72.4	70.6	-119.86	3,775.7	785.1	483.7	365.9	117.87	4.104	
11,100.0	7,500.0	11,476.0	7,740.0	74.0	72.4	-120.50	3,881.0	784.8	475.0	354.8	120.22	3.951	
11,200.0	7,500.0	11,582.8	7,740.0	75.6	74.2	-121.30	3,987.8	786.4	464.7	342.4	122.34	3.799	
11,300.0	7,500.0	11,682.1	7,740.0	77.2	75.9	-122.15	4,087.1	788.8	453.8	329.5	124.23	3.653	
11,400.0	7,500.0	11,781.3	7,740.0	78.8	77.6	-123.03	4,186.3	791.2	442.9	316.9	125.99	3.515	
11,500.0	7,500.0	11,880.5	7,740.0	80.5	79.3	-123.96	4,285.4	793.6	432.2	304.5	127.61	3.386	
11,600.0	7,500.0	11,979.6	7,740.0	82.1	81.0	-124.93	4,384.5	796.0	421.5	292.4	129.08	3.266	
11,700.0	7,500.0	12,078.8	7,740.0	83.7	82.7	-125.96	4,483.7	798.4	411.0	280.6	130.37	3.153	
11,801.9	7,500.0	12,179.9	7,740.0	85.4	84.4	-127.05	4,584.7	800.9	400.4	268.9	131.49	3.045	
11,900.0	7,500.0	12,277.2	7,740.0	87.0	86.1	-128.03	4,682.1	803.2	391.1	257.9	133.20	2.936	
12,000.0	7,500.0	12,376.7	7,740.0	88.7	87.8	-128.93	4,781.5	805.7	383.0	248.0	134.97	2.837	
12,100.0	7,500.0	12,476.3	7,740.0	90.4	89.5	-129.71	4,881.1	808.1	376.3	239.5	136.82	2.751	
12,200.0	7,500.0	12,576.1	7,740.0	92.0	91.2	-130.34	4,980.8	810.5	371.1	232.3	138.80	2.674	
12,300.0	7,500.0	12,676.0	7,740.0	93.7	92.9	-130.83	5,080.7	812.9	367.2	226.3	140.97	2.605	
12,400.0	7,500.0	12,775.9	7,740.0	95.4	94.7	-131.16	5,180.6	815.4	364.7	221.4	143.37	2.544	
12,500.0	7,500.0	12,875.9	7,740.0	97.1	96.4	-131.32	5,280.5	817.8	363.5	217.5	146.06	2.489	
12,541.2	7,500.0	12,917.1	7,740.0	97.8	97.1	-131.33	5,321.8	818.8	363.4	216.2	147.25	2.468	
12,600.0	7,500.0	12,975.9	7,740.0	98.9	98.1	-131.30	5,380.5	820.2	363.6	214.6	149.05	2.440	
12,700.0	7,500.0	13,075.9	7,740.0	100.6	99.8	-131.11	5,480.5	822.7	365.1	212.7	152.38	2.396	
12,806.4	7,500.0	13,182.2	7,740.0	102.4	101.7	-130.73	5,586.8	825.2	368.0	211.7	156.30	2.355	
12,900.0	7,500.0	13,275.7	7,740.0	104.0	103.3	-130.29	5,680.2	827.5	371.3	211.6	159.74	2.325	
13,000.0	7,500.0	13,375.6	7,740.0	105.8	105.0	-129.84	5,780.1	830.0	374.9	211.5	163.42	2.294	
13,100.0	7,500.0	13,475.5	7,740.0	107.5	106.7	-129.39	5,880.0	832.4	378.4	211.3	167.11	2.265	
13,200.0	7,500.0	13,575.4	7,740.0	109.2	108.5	-128.95	5,979.8	834.8	382.0	211.2	170.80	2.237	
13,300.0	7,500.0	13,675.3	7,740.0	111.0	110.2	-128.52	6,079.7	837.2	385.6	211.1	174.51	2.210	
13,400.0	7,500.0	13,775.2	7,740.0	112.7	111.9	-128.09	6,179.5	839.7	389.3	211.1	178.22	2.184	
13,500.0	7,500.0	13,875.1	7,740.0	114.5	113.6	-127.68	6,279.4	842.1	392.9	211.0	181.93	2.160	
13,600.0	7,500.0	13,975.0	7,740.0	116.2	115.4	-127.27	6,379.3	844.5	396.6	211.0	185.65	2.136	
13,700.0	7,500.0	14,074.9	7,740.0	117.9	117.1	-126.87	6,479.1	847.0	400.3	210.9	189.37	2.114	
13,800.0	7,500.0	14,174.8	7,740.0	119.7	118.8	-126.47	6,579.0	849.4	404.0	210.9	193.10	2.092	
13,900.0	7,500.0	14,274.6	7,740.0	121.4	120.6	-126.09	6,678.9	851.8	407.7	210.9	196.83	2.072	
14,000.0	7,500.0	14,374.5	7,740.0	123.1	122.3	-125.71	6,778.7	854.2	411.5	210.9	200.56	2.052	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						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		
14,100.0	7,500.0	14,474.4	7,740.0	124.9	124.0	-125.34	6,878.6	856.7	415.3	211.0	204.29	2.033		
14,200.0	7,500.0	14,574.3	7,740.0	126.6	125.8	-124.97	6,978.4	859.1	419.0	211.0	208.03	2.014		
14,300.0	7,500.0	14,674.2	7,740.0	128.4	127.5	-124.61	7,078.3	861.5	422.8	211.1	211.77	1.997		
14,335.9	7,500.0	14,696.1	7,740.0	129.0	127.9	-124.53	7,100.2	862.1	424.4	211.6	212.79	1.995 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	9.8	9.8				
100.0	100.0	100.0	100.0	0.2	0.2	90.02	0.0	9.8	9.8	9.5	0.30	32.256	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	9.8	9.8	9.1	0.65	15.007	
233.4	233.4	233.4	233.4	0.4	0.4	90.02	0.0	9.8	9.8	9.0	0.77	12.735 CC	
300.0	300.0	299.9	299.9	0.5	0.5	90.24	0.0	10.0	10.0	9.0	1.00	9.993 ES	
400.0	400.0	399.7	399.7	0.7	0.7	10.31	-0.3	11.7	10.9	9.5	1.35	8.051	
500.0	500.0	499.5	499.4	0.9	0.9	14.81	-0.9	15.1	11.8	10.1	1.70	6.937	
600.0	599.9	599.3	599.1	1.0	1.1	21.01	-1.9	20.3	12.9	10.8	2.05	6.277	
700.0	699.7	699.0	698.6	1.2	1.3	28.28	-3.1	27.1	14.2	11.8	2.41	5.915	
800.0	799.4	798.7	797.9	1.4	1.5	35.95	-4.6	35.7	16.0	13.2	2.78	5.764	
900.0	898.9	898.4	897.0	1.7	1.7	43.39	-6.4	45.9	18.3	15.2	3.19	5.757	
1,000.0	998.3	998.1	995.9	1.9	2.0	50.20	-8.5	57.8	21.2	17.6	3.64	5.840	
1,100.0	1,097.4	1,097.6	1,094.5	2.2	2.3	56.17	-10.9	71.4	24.8	20.6	4.14	5.974	
1,200.0	1,196.3	1,197.2	1,192.9	2.5	2.6	61.27	-13.6	86.7	28.9	24.2	4.71	6.134	
1,300.0	1,294.9	1,296.7	1,290.8	2.8	2.9	65.57	-16.6	103.7	33.7	28.3	5.34	6.303	
1,400.0	1,393.3	1,396.1	1,388.4	3.2	3.3	69.19	-19.8	122.3	39.0	33.0	6.03	6.471	
1,419.0	1,411.9	1,414.9	1,406.9	3.2	3.3	69.80	-20.5	126.0	40.1	33.9	6.17	6.503	
1,500.0	1,491.4	1,495.4	1,485.7	3.5	3.6	71.57	-23.4	142.6	45.1	38.4	6.75	6.690	
1,600.0	1,589.5	1,594.7	1,582.4	3.9	4.1	71.86	-27.3	164.5	52.3	44.8	7.45	7.019	
1,700.0	1,687.6	1,693.8	1,678.5	4.2	4.5	70.75	-31.4	188.0	60.5	52.3	8.13	7.435	
1,800.0	1,785.7	1,793.4	1,774.8	4.6	5.0	68.80	-35.7	213.1	69.5	60.7	8.79	7.910	
1,900.0	1,883.8	1,894.1	1,872.1	5.0	5.4	66.49	-38.6	239.0	77.6	68.2	9.42	8.237	
2,000.0	1,981.9	1,994.9	1,969.5	5.4	5.9	63.88	-39.7	265.0	84.4	74.4	10.01	8.428	
2,100.0	2,080.0	2,095.5	2,067.0	5.7	6.4	61.95	-40.2	289.9	90.2	79.6	10.60	8.509	
2,200.0	2,178.1	2,196.3	2,165.0	6.1	6.8	61.09	-40.6	313.2	95.0	83.8	11.23	8.460	
2,300.0	2,276.2	2,296.2	2,262.3	6.5	7.2	60.61	-41.0	335.7	99.5	87.6	11.89	8.371	
2,400.0	2,374.3	2,396.0	2,359.7	6.9	7.7	60.17	-41.4	358.1	104.0	91.4	12.54	8.292	
2,500.0	2,472.3	2,495.9	2,457.0	7.3	8.1	59.76	-41.9	380.6	108.4	95.2	13.19	8.222	
2,600.0	2,570.4	2,595.8	2,554.3	7.6	8.5	59.39	-42.3	403.1	112.9	99.1	13.84	8.159	
2,700.0	2,668.5	2,695.7	2,651.7	8.0	9.0	59.05	-42.7	425.5	117.4	102.9	14.49	8.102	
2,800.0	2,766.6	2,795.6	2,749.0	8.4	9.4	58.73	-43.1	448.0	121.9	106.7	15.14	8.051	
2,900.0	2,864.7	2,895.5	2,846.4	8.8	9.8	58.43	-43.5	470.4	126.3	110.6	15.78	8.005	
3,000.0	2,962.8	2,995.4	2,943.7	9.2	10.3	58.16	-43.9	492.9	130.8	114.4	16.43	7.962	
3,100.0	3,060.9	3,095.3	3,041.0	9.5	10.7	57.90	-44.4	515.4	135.3	118.2	17.08	7.923	
3,200.0	3,159.0	3,195.2	3,138.4	9.9	11.1	57.66	-44.8	537.8	139.8	122.1	17.72	7.888	
3,300.0	3,257.1	3,295.1	3,235.7	10.3	11.6	57.43	-45.2	560.3	144.3	125.9	18.37	7.855	
3,400.0	3,355.2	3,395.0	3,333.1	10.7	12.0	57.22	-45.6	582.7	148.8	129.8	19.02	7.825	
3,500.0	3,453.3	3,494.9	3,430.4	11.1	12.4	57.02	-46.0	605.2	153.3	133.6	19.66	7.797	
3,600.0	3,551.4	3,594.8	3,527.7	11.5	12.9	56.83	-46.4	627.7	157.8	137.5	20.31	7.771	
3,700.0	3,649.5	3,694.7	3,625.1	11.9	13.3	56.65	-46.9	650.1	162.3	141.4	20.95	7.746	
3,800.0	3,747.6	3,794.6	3,722.4	12.2	13.7	56.48	-47.3	672.6	166.8	145.2	21.60	7.724	
3,900.0	3,845.7	3,894.5	3,819.7	12.6	14.2	56.33	-47.7	695.1	171.3	149.1	22.24	7.703	
4,000.0	3,943.8	3,994.4	3,917.1	13.0	14.6	56.17	-48.1	717.5	175.8	152.9	22.88	7.683	
4,100.0	4,041.9	4,094.3	4,014.4	13.4	15.1	56.03	-48.5	740.0	180.3	156.8	23.53	7.664	
4,200.0	4,140.0	4,194.2	4,111.8	13.8	15.5	55.89	-48.9	762.4	184.8	160.7	24.17	7.647	
4,300.0	4,238.1	4,294.1	4,209.1	14.2	15.9	55.76	-49.4	784.9	189.3	164.5	24.81	7.630	
4,400.0	4,336.2	4,394.0	4,306.4	14.5	16.4	55.64	-49.8	807.4	193.9	168.4	25.46	7.615	
4,500.0	4,434.3	4,493.9	4,403.8	14.9	16.8	55.52	-50.2	829.8	198.4	172.3	26.10	7.600	
4,600.0	4,532.4	4,593.8	4,501.1	15.3	17.2	55.41	-50.6	852.3	202.9	176.1	26.74	7.586	
4,700.0	4,630.5	4,693.7	4,598.5	15.7	17.7	55.30	-51.0	874.8	207.4	180.0	27.38	7.573	
4,800.0	4,728.6	4,793.6	4,695.8	16.1	18.1	55.19	-51.4	897.2	211.9	183.9	28.03	7.561	
4,900.0	4,826.7	4,893.5	4,793.1	16.5	18.5	55.10	-51.8	919.7	216.4	187.7	28.67	7.549	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
5,000.0	4,924.8	4,993.4	4,890.5	16.9	19.0	55.00	-52.3	942.1	220.9	191.6	29.31	7.538		
5,100.0	5,022.9	5,093.3	4,987.8	17.2	19.4	54.91	-52.7	964.6	225.4	195.5	29.95	7.527		
5,200.0	5,121.0	5,193.2	5,085.1	17.6	19.9	54.82	-53.1	987.1	230.0	199.4	30.59	7.517		
5,300.0	5,219.1	5,293.1	5,182.5	18.0	20.3	54.74	-53.5	1,009.5	234.5	203.2	31.23	7.507		
5,400.0	5,317.2	5,393.0	5,279.8	18.4	20.7	54.65	-53.9	1,032.0	239.0	207.1	31.88	7.498		
5,500.0	5,415.3	5,492.9	5,377.2	18.8	21.2	54.58	-54.3	1,054.4	243.5	211.0	32.52	7.489		
5,600.0	5,513.4	5,592.8	5,474.5	19.2	21.6	54.50	-54.8	1,076.9	248.0	214.9	33.16	7.481		
5,700.0	5,611.5	5,692.7	5,571.8	19.6	22.0	54.43	-55.2	1,099.4	252.5	218.8	33.80	7.472		
5,800.0	5,709.6	5,792.6	5,669.2	19.9	22.5	54.36	-55.6	1,121.8	257.1	222.6	34.44	7.465		
5,900.0	5,807.7	5,892.5	5,766.5	20.3	22.9	54.29	-56.0	1,144.3	261.6	226.5	35.08	7.457		
6,000.0	5,905.8	5,992.4	5,863.9	20.7	23.4	54.22	-56.4	1,166.8	266.1	230.4	35.72	7.450		
6,100.0	6,003.9	6,092.3	5,961.2	21.1	23.8	54.16	-56.8	1,189.2	270.6	234.3	36.36	7.443		
6,200.0	6,102.0	6,192.1	6,058.5	21.5	24.2	54.10	-57.3	1,211.7	275.1	238.1	37.00	7.436		
6,300.0	6,200.1	6,292.0	6,155.9	21.9	24.7	54.04	-57.7	1,234.1	279.7	242.0	37.64	7.430		
6,400.0	6,298.2	6,391.9	6,253.2	22.3	25.1	53.98	-58.1	1,256.6	284.2	245.9	38.28	7.424		
6,500.0	6,396.3	6,491.8	6,350.5	22.6	25.5	53.93	-58.5	1,279.1	288.7	249.8	38.92	7.418		
6,600.0	6,494.4	6,591.7	6,447.9	23.0	26.0	53.87	-58.9	1,301.5	293.2	253.7	39.56	7.412		
6,700.0	6,592.5	6,691.6	6,545.2	23.4	26.4	53.82	-59.3	1,324.0	297.7	257.5	40.20	7.407		
6,800.0	6,690.6	6,791.5	6,642.6	23.8	26.9	53.77	-59.8	1,346.5	302.3	261.4	40.84	7.401		
6,900.0	6,788.7	6,891.4	6,739.9	24.2	27.3	53.72	-60.2	1,368.9	306.8	265.3	41.48	7.396		
7,000.0	6,886.8	6,991.3	6,837.2	24.6	27.7	53.67	-60.6	1,391.4	311.3	269.2	42.12	7.391		
7,068.1	6,953.6	7,059.3	6,903.5	24.8	28.0	53.64	-60.9	1,406.7	314.4	271.8	42.56	7.388		
7,100.0	6,984.9	7,091.2	6,934.5	25.0	28.2	68.57	-61.0	1,413.8	316.5	273.8	42.68	7.415		
7,150.0	7,033.5	7,140.7	6,982.8	25.2	28.4	86.61	-61.2	1,425.0	322.3	279.4	42.84	7.523		
7,200.0	7,081.4	7,189.5	7,030.3	25.4	28.6	98.59	-61.4	1,435.9	331.2	288.3	42.90	7.721		
7,250.0	7,128.3	7,237.2	7,076.8	25.6	28.8	106.68	-61.6	1,446.7	343.4	300.6	42.81	8.021		
7,300.0	7,173.7	7,283.3	7,121.8	25.8	29.0	112.43	-61.8	1,457.0	359.0	316.4	42.53	8.440		
7,350.0	7,217.2	7,327.7	7,165.0	26.1	29.2	116.68	-62.0	1,467.0	377.9	335.9	42.00	8.999		
7,400.0	7,258.7	7,407.7	7,242.8	26.3	29.5	121.64	-58.5	1,484.9	399.1	357.2	41.89	9.527		
7,450.0	7,297.7	7,518.6	7,348.4	26.6	30.0	126.37	-35.7	1,509.2	417.4	375.7	41.76	9.995		
7,500.0	7,334.0	7,645.2	7,461.2	26.9	30.5	129.92	15.2	1,534.9	431.3	390.0	41.30	10.442		
7,550.0	7,367.2	7,784.7	7,569.4	27.2	31.0	132.17	99.1	1,559.5	439.1	398.5	40.65	10.804		
7,600.0	7,397.2	7,929.9	7,657.7	27.5	31.6	133.03	212.1	1,579.3	440.1	400.2	39.88	11.035		
7,650.0	7,423.7	8,071.1	7,714.5	27.8	32.3	132.52	340.5	1,591.7	434.0	394.9	39.10	11.100		
7,700.0	7,446.5	8,200.6	7,738.3	28.2	33.0	130.86	467.4	1,596.5	421.7	383.3	38.37	10.990		
7,750.0	7,465.4	8,274.0	7,740.0	28.6	33.4	129.95	540.7	1,596.5	406.1	369.0	37.11	10.945		
7,800.0	7,480.4	8,321.6	7,740.0	29.0	33.6	129.81	588.3	1,596.3	393.5	358.0	35.52	11.077		
7,850.0	7,491.1	8,370.3	7,740.0	29.3	33.9	129.67	637.0	1,596.0	384.3	350.3	34.00	11.303		
7,900.0	7,497.7	8,419.8	7,740.0	29.8	34.3	129.60	686.5	1,595.8	378.6	346.1	32.54	11.634		
7,951.9	7,500.0	8,471.6	7,740.0	30.2	34.6	129.64	738.3	1,595.5	376.2	345.1	31.09	12.101		
8,000.0	7,500.0	8,519.7	7,740.0	30.6	35.0	129.70	786.4	1,595.2	375.7	343.6	32.10	11.706		
8,100.0	7,500.0	8,619.7	7,740.0	31.5	35.8	129.84	886.4	1,594.7	374.6	340.4	34.24	10.941		
8,200.0	7,500.0	8,719.7	7,740.0	32.5	36.6	129.98	986.4	1,594.2	373.6	337.1	36.45	10.249		
8,300.0	7,500.0	8,819.7	7,740.0	33.6	37.6	130.12	1,086.4	1,593.7	372.5	333.8	38.70	9.625		
8,400.0	7,500.0	8,919.7	7,740.0	34.7	38.5	130.26	1,186.4	1,593.1	371.4	330.4	40.99	9.061		
8,500.0	7,500.0	9,019.7	7,740.0	35.9	39.6	130.39	1,286.4	1,592.6	370.4	327.0	43.31	8.551		
8,551.9	7,500.0	9,071.6	7,740.0	36.5	40.1	130.47	1,338.3	1,592.4	369.8	325.3	44.53	8.305		
8,600.0	7,500.0	9,119.7	7,740.0	37.1	40.7	130.54	1,386.4	1,592.1	369.3	323.6	45.65	8.089		
8,700.0	7,500.0	9,219.6	7,740.0	38.3	41.8	130.68	1,486.4	1,591.6	368.2	320.2	48.01	7.669		
8,800.0	7,500.0	9,319.6	7,740.0	39.6	43.0	130.82	1,586.3	1,591.1	367.2	316.8	50.39	7.287		
8,900.0	7,500.0	9,419.6	7,740.0	40.9	44.2	130.96	1,686.3	1,590.5	366.1	313.4	52.77	6.939		
9,000.0	7,500.0	9,519.6	7,740.0	42.3	45.4	131.10	1,786.3	1,590.0	365.1	309.9	55.15	6.619		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
9,100.0	7,500.0	9,619.6	7,740.0	43.7	46.7	131.25	1,886.3	1,589.5	364.0	306.5	57.55	6.326	
9,200.0	7,500.0	9,719.6	7,740.0	45.1	48.0	131.39	1,986.3	1,589.0	363.0	303.0	59.94	6.056	
9,300.0	7,500.0	9,819.6	7,740.0	46.5	49.3	131.54	2,086.3	1,588.4	361.9	299.6	62.33	5.807	
9,400.0	7,500.0	9,919.6	7,740.0	48.0	50.7	131.69	2,186.3	1,587.9	360.9	296.2	64.72	5.576	
9,500.0	7,500.0	10,019.6	7,740.0	49.5	52.1	131.84	2,286.3	1,587.4	359.8	292.7	67.11	5.362	
9,551.9	7,500.0	10,071.5	7,740.0	50.2	52.8	131.91	2,338.2	1,587.1	359.3	291.0	68.35	5.257	
9,600.0	7,500.0	10,119.6	7,740.0	51.0	53.5	131.96	2,386.3	1,586.9	359.0	289.7	69.22	5.186	
9,631.9	7,500.0	10,151.5	7,740.0	51.4	53.9	131.97	2,418.2	1,586.7	358.9	289.1	69.82	5.140	
9,700.0	7,500.0	10,219.6	7,740.0	52.4	54.9	131.93	2,486.3	1,586.3	359.2	288.0	71.14	5.049	
9,800.0	7,500.0	10,319.5	7,740.0	53.9	56.4	131.72	2,586.2	1,585.8	360.7	287.5	73.23	4.926	
9,900.0	7,500.0	10,419.5	7,740.0	55.4	57.8	131.34	2,686.2	1,585.3	363.6	288.1	75.49	4.816	
10,000.0	7,500.0	10,519.3	7,740.0	56.9	59.3	130.80	2,786.0	1,584.8	367.8	289.8	77.92	4.720	
10,100.0	7,500.0	10,619.0	7,740.0	58.4	60.8	130.10	2,885.7	1,584.2	373.3	292.8	80.51	4.637	
10,201.9	7,500.0	10,720.5	7,740.0	60.0	62.3	129.25	2,987.2	1,583.7	380.4	297.1	83.30	4.567	
10,300.0	7,500.0	10,818.1	7,740.0	61.5	63.8	128.35	3,084.8	1,583.2	388.0	301.2	86.88	4.466	
10,400.0	7,500.0	10,917.6	7,740.0	63.0	65.4	127.46	3,184.3	1,582.7	395.9	305.3	90.54	4.372	
10,500.0	7,500.0	11,017.1	7,740.0	64.5	66.9	126.60	3,283.8	1,582.2	403.8	309.6	94.22	4.286	
10,600.0	7,500.0	11,116.7	7,740.0	66.1	68.4	125.78	3,383.3	1,581.6	411.9	314.0	97.90	4.207	
10,700.0	7,500.0	11,216.2	7,740.0	67.7	70.0	124.99	3,482.8	1,581.1	420.0	318.4	101.60	4.134	
10,800.0	7,500.0	11,315.7	7,740.0	69.2	71.6	124.23	3,582.3	1,580.6	428.2	322.9	105.30	4.066	
10,900.0	7,500.0	11,415.2	7,740.0	70.8	73.1	123.49	3,681.8	1,580.1	436.4	327.4	109.00	4.004	
11,000.0	7,500.0	11,514.7	7,740.0	72.4	74.7	122.79	3,781.4	1,579.6	444.7	332.0	112.71	3.946	
11,100.0	7,500.0	11,614.2	7,740.0	74.0	76.3	122.11	3,880.9	1,579.0	453.1	336.7	116.42	3.892	
11,200.0	7,500.0	11,713.7	7,740.0	75.6	77.9	121.45	3,980.4	1,578.5	461.6	341.5	120.13	3.842	
11,300.0	7,500.0	11,813.2	7,740.0	77.2	79.5	120.82	4,079.9	1,578.0	470.1	346.3	123.84	3.796	
11,400.0	7,500.0	11,912.7	7,740.0	78.8	81.1	120.22	4,179.4	1,577.5	478.7	351.1	127.55	3.753	
11,500.0	7,500.0	12,012.2	7,740.0	80.5	82.7	119.63	4,278.9	1,577.0	487.3	356.0	131.26	3.712	
11,600.0	7,500.0	12,111.7	7,740.0	82.1	84.3	119.06	4,378.4	1,576.4	496.0	361.0	134.97	3.674	
11,700.0	7,500.0	12,211.2	7,740.0	83.7	86.0	118.51	4,477.9	1,575.9	504.7	366.0	138.68	3.639	
11,801.9	7,500.0	12,312.6	7,740.0	85.4	87.6	117.98	4,579.3	1,575.4	513.6	371.1	142.46	3.605	
11,900.0	7,500.0	12,410.3	7,740.0	87.0	89.2	117.48	4,677.0	1,574.9	521.5	374.5	147.02	3.547	
12,000.0	7,500.0	12,510.0	7,740.0	88.7	90.9	117.08	4,776.7	1,574.3	528.0	376.5	151.52	3.485	
12,100.0	7,500.0	12,609.9	7,740.0	90.4	92.5	116.79	4,876.5	1,573.8	533.0	377.2	155.88	3.419	
12,200.0	7,500.0	12,709.8	7,740.0	92.0	94.2	116.58	4,976.5	1,573.3	536.5	376.4	160.09	3.351	
12,300.0	7,500.0	12,809.8	7,740.0	93.7	95.8	116.47	5,076.4	1,572.8	538.4	374.3	164.14	3.280	
12,400.0	7,500.0	12,909.8	7,740.0	95.4	97.5	116.45	5,176.4	1,572.3	538.7	370.7	168.03	3.206	
12,500.0	7,500.0	13,009.8	7,740.0	97.1	99.2	116.52	5,276.4	1,571.7	537.5	365.8	171.75	3.130	
12,600.0	7,500.0	13,109.7	7,740.0	98.9	100.8	116.69	5,376.4	1,571.2	534.7	359.5	175.29	3.051	
12,700.0	7,500.0	13,209.6	7,740.0	100.6	102.5	116.94	5,476.2	1,570.7	530.4	351.8	178.62	2.970	
12,806.4	7,500.0	13,315.8	7,740.0	102.4	104.3	117.32	5,582.4	1,570.1	524.1	342.2	181.91	2.881	
12,900.0	7,500.0	13,409.1	7,740.0	104.0	105.8	117.68	5,675.7	1,569.6	517.8	333.6	184.23	2.811	
13,000.0	7,500.0	13,508.8	7,740.0	105.8	107.5	118.07	5,775.4	1,569.1	511.1	324.4	186.67	2.738	
13,100.0	7,500.0	13,608.5	7,740.0	107.5	109.2	118.48	5,875.2	1,568.6	504.4	315.4	189.06	2.668	
13,200.0	7,500.0	13,708.2	7,740.0	109.2	110.8	118.89	5,974.9	1,568.1	497.8	306.4	191.39	2.601	
13,300.0	7,500.0	13,807.9	7,740.0	111.0	112.5	119.32	6,074.6	1,567.5	491.2	297.5	193.68	2.536	
13,400.0	7,500.0	13,907.6	7,740.0	112.7	114.2	119.76	6,174.3	1,567.0	484.6	288.7	195.91	2.473	
13,500.0	7,500.0	14,007.4	7,740.0	114.5	115.9	120.21	6,274.0	1,566.5	478.0	279.9	198.08	2.413	
13,600.0	7,500.0	14,107.1	7,740.0	116.2	117.6	120.67	6,373.7	1,566.0	471.5	271.3	200.18	2.355	
13,700.0	7,500.0	14,206.8	7,740.0	117.9	119.3	121.15	6,473.4	1,565.5	465.0	262.7	202.22	2.299	
13,800.0	7,500.0	14,306.5	7,740.0	119.7	121.0	121.64	6,573.1	1,564.9	458.5	254.3	204.19	2.245	
13,900.0	7,500.0	14,406.2	7,740.0	121.4	122.6	122.14	6,672.8	1,564.4	452.1	246.0	206.09	2.193	
14,000.0	7,500.0	14,505.9	7,740.0	123.1	124.3	122.66	6,772.6	1,563.9	445.6	237.7	207.90	2.144	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)						
14,100.0	7,500.0	14,605.6	7,740.0	124.9	126.0	123.19	6,872.3	1,563.4	439.3	229.6	209.64	2.095				
14,200.0	7,500.0	14,705.3	7,740.0	126.6	127.7	123.74	6,972.0	1,562.9	433.0	221.7	211.28	2.049				
14,300.0	7,500.0	14,805.1	7,740.0	128.4	129.4	124.31	7,071.7	1,562.3	426.7	213.8	212.84	2.005				
14,335.9	7,500.0	14,840.8	7,740.0	129.0	130.0	124.51	7,107.5	1,562.1	424.4	211.1	213.37	1.989 SF				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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	
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	CC, ES
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	
300.0	300.0	299.6	299.6	0.5	0.5	90.08	0.0	20.7	20.7	19.7	1.00	20.697	
400.0	400.0	399.3	399.2	0.7	0.7	8.45	-0.1	23.3	22.5	21.1	1.35	16.661	
500.0	500.0	498.8	498.7	0.9	0.9	9.57	-0.2	27.7	24.2	22.5	1.70	14.281	
600.0	599.9	598.4	598.1	1.0	1.1	11.18	-0.4	33.7	26.0	24.0	2.05	12.725	
700.0	699.7	697.9	697.3	1.2	1.3	13.17	-0.7	41.5	27.9	25.5	2.40	11.639	
800.0	799.4	797.4	796.3	1.4	1.5	15.47	-1.0	51.0	29.8	27.0	2.75	10.846	
900.0	898.9	896.8	895.1	1.7	1.8	18.00	-1.3	62.2	31.8	28.7	3.11	10.245	
1,000.0	998.3	996.2	993.6	1.9	2.0	20.70	-1.7	75.1	34.0	30.5	3.47	9.775	
1,100.0	1,097.4	1,095.6	1,091.9	2.2	2.3	23.51	-2.2	89.7	36.2	32.4	3.86	9.390	
1,200.0	1,196.3	1,194.9	1,189.9	2.5	2.7	26.38	-2.7	106.0	38.7	34.4	4.27	9.060	
1,300.0	1,294.9	1,294.2	1,287.5	2.8	3.0	29.27	-3.3	124.0	41.4	36.6	4.72	8.762	
1,400.0	1,393.3	1,393.4	1,384.8	3.2	3.4	32.14	-3.9	143.7	44.2	39.0	5.22	8.481	
1,419.0	1,411.9	1,412.3	1,403.2	3.2	3.5	32.68	-4.0	147.6	44.8	39.5	5.32	8.429	
1,500.0	1,491.4	1,492.6	1,481.7	3.5	3.8	34.58	-4.6	165.0	47.8	42.1	5.75	8.313	
1,600.0	1,589.5	1,591.7	1,578.0	3.9	4.2	35.85	-5.3	188.0	53.0	46.7	6.29	8.428	
1,700.0	1,687.6	1,690.6	1,673.8	4.2	4.7	36.14	-6.0	212.6	59.7	52.9	6.80	8.775	
1,800.0	1,785.7	1,789.3	1,769.0	4.6	5.2	35.71	-6.9	238.8	68.0	60.7	7.29	9.317	
1,900.0	1,883.8	1,887.7	1,863.4	5.0	5.7	34.83	-7.7	266.5	77.8	70.0	7.76	10.024	
2,000.0	1,981.9	1,985.7	1,956.9	5.4	6.2	33.69	-8.7	295.8	89.1	80.9	8.20	10.875	
2,100.0	2,080.0	2,084.3	2,050.7	5.7	6.8	32.50	-9.6	326.5	101.8	93.2	8.62	11.815	
2,200.0	2,178.1	2,183.5	2,144.8	6.1	7.4	31.54	-10.6	357.5	114.6	105.6	9.04	12.676	
2,300.0	2,276.2	2,282.7	2,239.0	6.5	7.9	30.77	-11.6	388.5	127.4	118.0	9.47	13.457	
2,400.0	2,374.3	2,381.8	2,333.2	6.9	8.5	30.15	-12.5	419.5	140.3	130.4	9.90	14.168	
2,500.0	2,472.3	2,481.0	2,427.4	7.3	9.1	29.63	-13.5	450.5	153.2	142.8	10.34	14.817	
2,600.0	2,570.4	2,580.1	2,521.6	7.6	9.7	29.19	-14.5	481.5	166.0	155.3	10.77	15.412	
2,700.0	2,668.5	2,679.3	2,615.8	8.0	10.3	28.81	-15.5	512.5	178.9	167.7	11.21	15.959	
2,800.0	2,766.6	2,778.5	2,709.9	8.4	10.9	28.48	-16.4	543.5	191.8	180.2	11.65	16.464	
2,900.0	2,864.7	2,877.6	2,804.1	8.8	11.4	28.20	-17.4	574.5	204.7	192.6	12.09	16.931	
3,000.0	2,962.8	2,976.8	2,898.3	9.2	12.0	27.95	-18.4	605.5	217.6	205.1	12.53	17.364	
3,100.0	3,060.9	3,075.9	2,992.5	9.5	12.6	27.73	-19.4	636.5	230.5	217.5	12.97	17.768	
3,200.0	3,159.0	3,175.1	3,086.7	9.9	13.2	27.53	-20.3	667.5	243.4	230.0	13.42	18.144	
3,300.0	3,257.1	3,274.3	3,180.9	10.3	13.8	27.35	-21.3	698.5	256.3	242.5	13.86	18.495	
3,400.0	3,355.2	3,373.4	3,275.1	10.7	14.4	27.18	-22.3	729.5	269.2	254.9	14.30	18.824	
3,500.0	3,453.3	3,472.6	3,369.2	11.1	15.0	27.04	-23.3	760.5	282.1	267.4	14.75	19.133	
3,600.0	3,551.4	3,571.7	3,463.4	11.5	15.5	26.90	-24.2	791.5	295.0	279.9	15.19	19.424	
3,700.0	3,649.5	3,670.9	3,557.6	11.9	16.1	26.78	-25.2	822.5	308.0	292.3	15.63	19.697	
3,800.0	3,747.6	3,770.1	3,651.8	12.2	16.7	26.67	-26.2	853.5	320.9	304.8	16.08	19.956	
3,900.0	3,845.7	3,869.2	3,746.0	12.6	17.3	26.56	-27.1	884.5	333.8	317.3	16.52	20.200	
4,000.0	3,943.8	3,968.4	3,840.2	13.0	17.9	26.47	-28.1	915.5	346.7	329.7	16.97	20.431	
4,100.0	4,041.9	4,067.5	3,934.3	13.4	18.5	26.38	-29.1	946.5	359.6	342.2	17.42	20.650	
4,200.0	4,140.0	4,166.7	4,028.5	13.8	19.1	26.29	-30.1	977.5	372.6	354.7	17.86	20.858	
4,300.0	4,238.1	4,265.9	4,122.7	14.2	19.7	26.21	-31.0	1,008.5	385.5	367.2	18.31	21.056	
4,400.0	4,336.2	4,365.0	4,216.9	14.5	20.3	26.14	-32.0	1,039.5	398.4	379.7	18.75	21.244	
4,500.0	4,434.3	4,464.2	4,311.1	14.9	20.9	26.07	-33.0	1,070.5	411.3	392.1	19.20	21.423	
4,600.0	4,532.4	4,563.3	4,405.3	15.3	21.4	26.01	-34.0	1,101.5	424.3	404.6	19.65	21.594	
4,700.0	4,630.5	4,662.5	4,499.5	15.7	22.0	25.95	-34.9	1,132.5	437.2	417.1	20.09	21.757	
4,800.0	4,728.6	4,761.7	4,593.6	16.1	22.6	25.89	-35.9	1,163.5	450.1	429.6	20.54	21.913	
4,900.0	4,826.7	4,860.8	4,687.8	16.5	23.2	25.84	-36.9	1,194.5	463.0	442.0	20.99	22.063	
5,000.0	4,924.8	4,960.0	4,782.0	16.9	23.8	25.79	-37.8	1,225.5	475.9	454.5	21.43	22.206	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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	
5,100.0	5,022.9	5,059.1	4,876.2	17.2	24.4	25.74	-38.8	1,256.5	488.9	467.0	21.88	22.343	
5,200.0	5,121.0	5,158.3	4,970.4	17.6	25.0	25.69	-39.8	1,287.5	501.8	479.5	22.33	22.474	
5,300.0	5,219.1	5,257.5	5,064.6	18.0	25.6	25.65	-40.8	1,318.5	514.7	492.0	22.77	22.601	
5,400.0	5,317.2	5,356.6	5,158.7	18.4	26.2	25.61	-41.7	1,349.5	527.7	504.4	23.22	22.722	
5,500.0	5,415.3	5,455.8	5,252.9	18.8	26.8	25.57	-42.7	1,380.5	540.6	516.9	23.67	22.839	
5,600.0	5,513.4	5,554.9	5,347.1	19.2	27.4	25.53	-43.7	1,411.5	553.5	529.4	24.12	22.951	
5,700.0	5,611.5	5,654.1	5,441.3	19.6	28.0	25.50	-44.7	1,442.5	566.4	541.9	24.56	23.059	
5,800.0	5,709.6	5,753.3	5,535.5	19.9	28.5	25.46	-45.6	1,473.5	579.4	554.3	25.01	23.164	
5,900.0	5,807.7	5,852.4	5,629.7	20.3	29.1	25.43	-46.6	1,504.5	592.3	566.8	25.46	23.264	
6,000.0	5,905.8	5,951.6	5,723.9	20.7	29.7	25.40	-47.6	1,535.5	605.2	579.3	25.91	23.361	
6,100.0	6,003.9	6,050.7	5,818.0	21.1	30.3	25.37	-48.6	1,566.5	618.1	591.8	26.35	23.455	
6,200.0	6,102.0	6,149.9	5,912.2	21.5	30.9	25.34	-49.5	1,597.5	631.1	604.3	26.80	23.546	
6,300.0	6,200.1	6,249.1	6,006.4	21.9	31.5	25.31	-50.5	1,628.5	644.0	616.8	27.25	23.633	
6,400.0	6,298.2	6,348.2	6,100.6	22.3	32.1	25.29	-51.5	1,659.5	656.9	629.2	27.70	23.718	
6,500.0	6,396.3	6,447.4	6,194.8	22.6	32.7	25.26	-52.4	1,690.5	669.9	641.7	28.15	23.800	
6,600.0	6,494.4	6,546.6	6,289.0	23.0	33.3	25.24	-53.4	1,721.5	682.8	654.2	28.59	23.880	
6,700.0	6,592.5	6,645.7	6,383.1	23.4	33.9	25.21	-54.4	1,752.5	695.7	666.7	29.04	23.956	
6,800.0	6,690.6	6,744.9	6,477.3	23.8	34.5	25.19	-55.4	1,783.5	708.6	679.2	29.49	24.031	
6,900.0	6,788.7	6,844.0	6,571.5	24.2	35.1	25.17	-56.3	1,814.5	721.6	691.6	29.94	24.103	
7,000.0	6,886.8	6,943.2	6,665.7	24.6	35.6	25.15	-57.3	1,845.5	734.5	704.1	30.38	24.174	
7,068.1	6,953.6	7,010.7	6,729.8	24.8	36.1	25.13	-58.0	1,866.7	743.3	712.6	30.69	24.220	
7,100.0	6,984.9	7,042.3	6,759.8	25.0	36.2	39.75	-58.3	1,876.5	747.7	717.1	30.62	24.416	
7,150.0	7,033.5	7,091.5	6,806.5	25.2	36.5	57.18	-58.8	1,891.9	755.6	725.0	30.58	24.704	
7,200.0	7,081.4	7,139.8	6,852.5	25.4	36.8	68.46	-59.2	1,907.0	764.7	734.1	30.61	24.985	
7,250.0	7,128.3	7,187.1	6,897.3	25.6	37.1	75.79	-59.7	1,921.8	775.2	744.5	30.67	25.275	
7,300.0	7,173.7	7,244.0	6,951.4	25.8	37.4	81.06	-60.0	1,939.6	787.0	756.1	30.92	25.457	
7,350.0	7,217.2	7,365.4	7,066.1	26.1	38.1	86.15	-44.5	1,975.7	797.6	765.6	32.06	24.876	
7,400.0	7,258.7	7,500.8	7,187.9	26.3	38.8	89.69	2.0	2,011.2	804.9	771.7	33.18	24.260	
7,450.0	7,297.7	7,644.3	7,302.6	26.6	39.4	91.71	82.0	2,041.1	808.0	773.8	34.17	23.646	
7,500.0	7,334.0	7,786.5	7,395.1	26.9	39.9	92.28	187.7	2,061.3	806.7	771.7	34.97	23.069	
7,550.0	7,367.2	7,919.0	7,457.0	27.2	40.3	91.74	304.1	2,070.4	801.4	765.8	35.58	22.523	
7,600.0	7,397.2	8,036.8	7,489.8	27.5	40.7	90.51	417.1	2,070.3	793.0	756.9	36.10	21.968	
7,650.0	7,423.7	8,139.1	7,499.9	27.8	41.0	88.97	518.6	2,063.9	782.4	745.8	36.61	21.371	
7,700.0	7,446.5	8,187.6	7,500.0	28.2	41.1	88.96	566.8	2,059.2	771.5	734.4	37.05	20.820	
7,750.0	7,465.4	8,233.1	7,500.0	28.6	41.3	89.05	612.1	2,054.9	761.9	724.3	37.56	20.283	
7,800.0	7,480.4	8,280.2	7,500.0	29.0	41.5	89.13	658.9	2,050.4	753.5	715.3	38.14	19.754	
7,850.0	7,491.1	8,328.4	7,500.0	29.3	41.7	89.28	707.0	2,045.7	746.1	707.3	38.79	19.236	
7,900.0	7,497.7	8,377.6	7,500.0	29.8	41.9	89.55	755.9	2,041.0	739.6	700.1	39.45	18.745	
7,951.9	7,500.0	8,429.1	7,500.0	30.2	42.1	90.00	807.1	2,036.1	733.7	693.6	40.13	18.283	
8,000.0	7,500.0	8,476.9	7,500.0	30.6	42.4	90.00	854.8	2,031.5	728.7	687.2	41.45	17.581	
8,100.0	7,500.0	8,576.4	7,500.0	31.5	42.9	90.00	953.8	2,022.0	718.2	674.0	44.26	16.226	
8,200.0	7,500.0	8,675.8	7,500.0	32.5	43.6	90.00	1,052.7	2,012.4	707.8	660.6	47.17	15.004	
8,300.0	7,500.0	8,775.3	7,500.0	33.6	44.3	90.00	1,151.7	2,002.9	697.3	647.2	50.16	13.903	
8,400.0	7,500.0	8,874.7	7,500.0	34.7	45.0	90.00	1,250.7	1,993.4	686.9	633.7	53.20	12.910	
8,500.0	7,500.0	8,974.2	7,500.0	35.9	45.8	90.00	1,349.7	1,983.8	676.4	620.1	56.30	12.014	
8,551.9	7,500.0	9,025.8	7,500.0	36.5	46.2	90.00	1,401.1	1,978.9	671.0	613.1	57.93	11.583	
8,600.0	7,500.0	9,073.6	7,500.0	37.1	46.7	90.00	1,448.7	1,974.3	666.0	606.5	59.44	11.203	
8,700.0	7,500.0	9,173.1	7,500.0	38.3	47.6	90.00	1,547.7	1,964.8	655.5	592.9	62.62	10.467	
8,800.0	7,500.0	9,272.5	7,500.0	39.6	48.5	90.00	1,646.7	1,955.3	645.1	579.2	65.84	9.798	
8,900.0	7,500.0	9,372.0	7,500.0	40.9	49.5	90.00	1,745.7	1,945.7	634.6	565.5	69.08	9.187	
9,000.0	7,500.0	9,471.4	7,500.0	42.3	50.5	90.00	1,844.7	1,936.2	624.1	551.8	72.34	8.628	
9,100.0	7,500.0	9,570.9	7,500.0	43.7	51.6	90.00	1,943.7	1,926.7	613.7	538.1	75.63	8.115	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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
9,200.0	7,500.0	9,670.3	7,500.0	45.1	52.7	90.00	2,042.7	1,917.1	603.2	524.3	78.93	7.643	
9,300.0	7,500.0	9,769.8	7,500.0	46.5	53.9	90.00	2,141.7	1,907.6	592.8	510.5	82.25	7.207	
9,400.0	7,500.0	9,869.2	7,500.0	48.0	55.0	90.00	2,240.7	1,898.1	582.3	496.8	85.58	6.804	
9,500.0	7,500.0	9,968.7	7,500.0	49.5	56.2	90.00	2,339.7	1,888.5	571.9	483.0	88.93	6.431	
9,551.9	7,500.0	10,020.3	7,500.0	50.2	56.9	90.00	2,391.1	1,883.6	566.5	475.8	90.67	6.247	
9,600.0	7,500.0	10,068.2	7,500.0	51.0	57.5	90.00	2,438.7	1,879.0	561.6	469.8	91.85	6.115	
9,700.0	7,500.0	10,167.8	7,500.0	52.4	58.8	90.00	2,537.8	1,869.4	552.9	458.6	94.28	5.864	
9,800.0	7,500.0	10,267.5	7,500.0	53.9	60.0	90.00	2,637.1	1,859.9	545.9	449.2	96.70	5.645	
9,900.0	7,500.0	10,367.4	7,500.0	55.4	61.4	90.00	2,736.5	1,850.3	540.6	441.5	99.11	5.455	
10,000.0	7,500.0	10,467.3	7,500.0	56.9	62.7	90.00	2,836.0	1,840.7	537.1	435.6	101.50	5.292	
10,100.0	7,500.0	10,567.3	7,500.0	58.4	64.1	90.00	2,935.5	1,831.2	535.3	431.4	103.87	5.154	
10,151.9	7,500.0	10,619.2	7,500.0	59.2	64.8	90.00	2,987.2	1,826.2	535.1	430.0	105.09	5.092	
10,201.9	7,500.0	10,669.2	7,500.0	60.0	65.5	90.00	3,037.0	1,821.4	535.3	429.0	106.25	5.038	
10,300.0	7,500.0	10,761.8	7,500.0	61.5	66.8	90.00	3,129.2	1,812.8	536.5	427.0	109.51	4.899	
10,400.0	7,500.0	10,853.2	7,500.0	63.0	68.1	90.00	3,220.3	1,805.7	539.2	426.4	112.79	4.780	
10,500.0	7,500.0	10,944.5	7,500.0	64.5	69.4	90.00	3,311.4	1,800.1	543.5	427.4	116.06	4.683	
10,600.0	7,500.0	11,035.6	7,500.0	66.1	70.8	90.00	3,402.4	1,795.9	549.3	430.0	119.33	4.603	
10,700.0	7,500.0	11,126.6	7,500.0	67.7	72.1	90.00	3,493.3	1,793.2	556.8	434.2	122.60	4.541	
10,800.0	7,500.0	11,217.3	7,500.0	69.2	73.5	90.00	3,584.0	1,791.9	565.8	440.0	125.87	4.495	
10,900.0	7,500.0	11,313.2	7,500.0	70.8	75.0	90.00	3,679.9	1,791.8	576.2	446.9	129.23	4.459	
11,000.0	7,500.0	11,412.6	7,500.0	72.4	76.5	90.00	3,779.4	1,791.8	586.6	454.0	132.65	4.422	
11,100.0	7,500.0	11,512.1	7,500.0	74.0	78.1	90.00	3,878.8	1,791.8	597.1	461.0	136.08	4.388	
11,200.0	7,500.0	11,611.5	7,500.0	75.6	79.6	90.00	3,978.3	1,791.8	607.5	468.0	139.51	4.355	
11,300.0	7,500.0	11,711.0	7,500.0	77.2	81.2	90.00	4,077.7	1,791.8	618.0	475.0	142.94	4.323	
11,400.0	7,500.0	11,810.4	7,500.0	78.8	82.8	90.00	4,177.2	1,791.8	628.4	482.1	146.38	4.293	
11,500.0	7,500.0	11,909.9	7,500.0	80.5	84.3	90.00	4,276.7	1,791.8	638.9	489.1	149.82	4.264	
11,600.0	7,500.0	12,009.3	7,500.0	82.1	85.9	90.00	4,376.1	1,791.8	649.3	496.1	153.26	4.237	
11,700.0	7,500.0	12,108.8	7,500.0	83.7	87.5	90.00	4,475.6	1,791.8	659.8	503.1	156.70	4.210	
11,801.9	7,500.0	12,210.1	7,500.0	85.4	89.2	90.00	4,576.9	1,791.8	670.4	510.2	160.21	4.185	
11,900.0	7,500.0	12,307.8	7,500.0	87.0	90.7	90.00	4,674.5	1,791.8	679.9	515.1	164.71	4.128	
12,000.0	7,500.0	12,407.5	7,500.0	88.7	92.3	90.00	4,774.2	1,791.8	687.7	518.5	169.25	4.063	
12,100.0	7,500.0	12,507.3	7,500.0	90.4	94.0	90.00	4,874.0	1,791.8	693.9	520.1	173.76	3.993	
12,200.0	7,500.0	12,607.2	7,500.0	92.0	95.6	90.00	4,973.9	1,791.8	698.3	520.0	178.22	3.918	
12,300.0	7,500.0	12,707.1	7,500.0	93.7	97.2	90.00	5,073.9	1,791.8	700.9	518.3	182.64	3.838	
12,400.0	7,500.0	12,807.1	7,500.0	95.4	98.8	90.00	5,173.9	1,791.8	701.8	514.8	187.00	3.753	
12,500.0	7,500.0	12,907.1	7,500.0	97.1	100.5	90.00	5,273.9	1,791.8	701.0	509.7	191.32	3.664	
12,600.0	7,500.0	13,007.1	7,500.0	98.9	102.1	90.00	5,373.9	1,791.8	698.4	502.8	195.58	3.571	
12,700.0	7,500.0	13,107.0	7,500.0	100.6	103.8	90.00	5,473.8	1,791.8	694.1	494.3	199.79	3.474	
12,806.4	7,500.0	13,213.2	7,500.0	102.4	105.5	90.00	5,580.0	1,791.8	687.6	483.4	204.20	3.367	
12,900.0	7,500.0	13,306.6	7,500.0	104.0	107.1	90.00	5,673.3	1,791.8	680.9	473.5	207.45	3.282	
13,000.0	7,500.0	13,406.3	7,500.0	105.8	108.7	90.00	5,773.1	1,791.8	673.9	463.0	210.92	3.195	
13,100.0	7,500.0	13,506.1	7,500.0	107.5	110.4	90.00	5,872.8	1,791.8	666.8	452.4	214.40	3.110	
13,200.0	7,500.0	13,605.8	7,500.0	109.2	112.0	90.00	5,972.6	1,791.8	659.8	441.9	217.88	3.028	
13,300.0	7,500.0	13,705.6	7,500.0	111.0	113.7	90.00	6,072.3	1,791.8	652.7	431.4	221.35	2.949	
13,400.0	7,500.0	13,800.0	7,500.0	112.7	115.3	90.00	6,166.8	1,792.0	645.9	421.2	224.74	2.874	
13,500.0	7,500.0	13,888.5	7,500.0	114.5	116.8	90.00	6,255.2	1,793.5	640.6	412.6	228.03	2.809	
13,600.0	7,500.0	13,977.5	7,500.0	116.2	118.3	90.00	6,344.2	1,796.6	637.0	405.6	231.33	2.754	
13,700.0	7,500.0	14,066.7	7,500.0	117.9	119.8	90.00	6,433.3	1,801.2	635.1	400.4	234.64	2.707	
13,762.1	7,500.0	14,122.1	7,500.0	119.0	120.8	90.00	6,488.5	1,804.8	634.7	398.0	236.69	2.682	
13,800.0	7,500.0	14,155.8	7,500.0	119.7	121.3	90.00	6,522.2	1,807.3	634.9	396.9	237.94	2.668	
13,900.0	7,500.0	14,245.0	7,500.0	121.4	122.9	90.00	6,611.0	1,814.9	636.4	395.1	241.25	2.638	
14,000.0	7,500.0	14,334.1	7,500.0	123.1	124.4	90.00	6,699.6	1,824.0	639.6	395.0	244.56	2.615	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design											S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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	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				
14,100.0	7,500.0	14,423.0	7,500.0	124.9	126.0	90.00	6,788.0	1,834.6	644.5	396.6	247.87	2.600				
14,200.0	7,500.0	14,511.8	7,500.0	126.6	127.5	90.00	6,875.9	1,846.7	651.1	399.9	251.17	2.592				
14,300.0	7,500.0	14,600.0	7,500.0	128.4	129.1	90.00	6,963.1	1,860.2	659.4	404.9	254.47	2.591 SF				
14,335.9	7,500.0	14,632.1	7,500.0	129.0	129.6	90.00	6,994.7	1,865.5	662.8	407.1	255.66	2.592				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						
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	
300.0	300.0	300.0	300.0	0.5	0.5	-89.62	0.7	-110.0	110.0	109.0	1.00	109.795	CC, ES
400.0	400.0	398.7	398.7	0.7	0.7	-171.48	1.4	-110.5	111.4	110.1	1.35	82.595	
500.0	500.0	497.4	497.3	0.9	0.9	-170.70	3.3	-112.2	115.7	114.0	1.70	68.158	
600.0	599.9	595.7	595.6	1.0	1.0	-169.53	6.6	-114.9	122.9	120.8	2.05	59.970	
700.0	699.7	693.6	693.3	1.2	1.2	-168.10	11.1	-118.7	133.0	130.6	2.40	55.309	
800.0	799.4	792.7	792.1	1.4	1.4	-166.74	16.4	-123.1	145.5	142.8	2.76	52.658	
900.0	898.9	891.6	890.8	1.7	1.6	-165.73	21.7	-127.6	159.8	156.7	3.12	51.155	
1,000.0	998.3	990.3	989.3	1.9	1.8	-165.03	26.9	-132.0	175.8	172.3	3.49	50.436	
1,100.0	1,097.4	1,088.7	1,087.5	2.2	2.0	-164.57	32.2	-136.4	193.5	189.6	3.85	50.274	
1,200.0	1,196.3	1,186.9	1,185.3	2.5	2.2	-164.31	37.4	-140.8	212.8	208.6	4.21	50.522	
1,300.0	1,294.9	1,286.9	1,285.1	2.8	2.4	-164.07	43.2	-144.8	233.3	228.8	4.59	50.875	
1,400.0	1,393.3	1,387.3	1,385.2	3.2	2.7	-163.65	50.2	-147.5	254.5	249.5	4.97	51.170	
1,419.0	1,411.9	1,406.3	1,404.2	3.2	2.7	-163.56	51.7	-147.9	258.6	253.5	5.05	51.226	
1,500.0	1,491.4	1,486.8	1,484.4	3.5	2.9	-163.14	58.3	-149.1	275.7	270.4	5.37	51.306	
1,600.0	1,589.5	1,584.5	1,581.8	3.9	3.1	-162.68	66.4	-150.4	296.8	291.1	5.78	51.368	
1,700.0	1,687.6	1,682.2	1,679.1	4.2	3.3	-162.27	74.6	-151.6	318.0	311.8	6.19	51.398	
1,800.0	1,785.7	1,779.9	1,776.5	4.6	3.5	-161.91	82.7	-152.9	339.1	332.5	6.60	51.403	
1,900.0	1,883.8	1,877.7	1,873.9	5.0	3.7	-161.60	90.9	-154.1	360.2	353.2	7.01	51.392	
2,000.0	1,981.9	1,975.4	1,971.3	5.4	3.9	-161.32	99.0	-155.4	381.4	373.9	7.42	51.368	
2,100.0	2,080.0	2,073.1	2,068.6	5.7	4.2	-161.07	107.2	-156.7	402.5	394.7	7.84	51.336	
2,200.0	2,178.1	2,170.8	2,166.0	6.1	4.4	-160.85	115.3	-157.9	423.7	415.4	8.26	51.298	
2,300.0	2,276.2	2,268.5	2,263.4	6.5	4.6	-160.64	123.5	-159.2	444.8	436.2	8.68	51.257	
2,400.0	2,374.3	2,366.3	2,360.8	6.9	4.8	-160.46	131.6	-160.4	466.0	456.9	9.10	51.213	
2,500.0	2,472.3	2,464.0	2,458.1	7.3	5.0	-160.29	139.8	-161.7	487.2	477.7	9.52	51.167	
2,600.0	2,570.4	2,561.7	2,555.5	7.6	5.3	-160.13	147.9	-163.0	508.4	498.4	9.94	51.121	
2,700.0	2,668.5	2,659.4	2,652.9	8.0	5.5	-159.99	156.1	-164.2	529.6	519.2	10.37	51.075	
2,800.0	2,766.6	2,757.2	2,750.2	8.4	5.7	-159.86	164.2	-165.5	550.7	539.9	10.79	51.029	
2,900.0	2,864.7	2,854.9	2,847.6	8.8	5.9	-159.74	172.4	-166.7	571.9	560.7	11.22	50.984	
3,000.0	2,962.8	2,952.6	2,945.0	9.2	6.1	-159.62	180.5	-168.0	593.1	581.5	11.64	50.940	
3,100.0	3,060.9	3,050.3	3,042.4	9.5	6.4	-159.52	188.7	-169.3	614.3	602.2	12.07	50.896	
3,200.0	3,159.0	3,148.1	3,139.7	9.9	6.6	-159.42	196.8	-170.5	635.5	623.0	12.50	50.854	
3,300.0	3,257.1	3,245.8	3,237.1	10.3	6.8	-159.33	204.9	-171.8	656.7	643.8	12.92	50.813	
3,400.0	3,355.2	3,343.5	3,334.5	10.7	7.0	-159.24	213.1	-173.0	677.9	664.5	13.35	50.773	
3,500.0	3,453.3	3,441.2	3,431.9	11.1	7.2	-159.16	221.2	-174.3	699.1	685.3	13.78	50.734	
3,600.0	3,551.4	3,538.9	3,529.2	11.5	7.5	-159.09	229.4	-175.6	720.3	706.1	14.21	50.697	
3,700.0	3,649.5	3,636.7	3,626.6	11.9	7.7	-159.01	237.5	-176.8	741.5	726.9	14.64	50.661	
3,800.0	3,747.6	3,734.4	3,724.0	12.2	7.9	-158.95	245.7	-178.1	762.7	747.6	15.07	50.625	
3,900.0	3,845.7	3,832.1	3,821.4	12.6	8.1	-158.88	253.8	-179.4	783.9	768.4	15.49	50.591	
4,000.0	3,943.8	3,929.8	3,918.7	13.0	8.4	-158.82	262.0	-180.6	805.1	789.2	15.92	50.558	
4,100.0	4,041.9	4,027.6	4,016.1	13.4	8.6	-158.76	270.1	-181.9	826.3	809.9	16.35	50.527	
4,200.0	4,140.0	4,125.3	4,113.5	13.8	8.8	-158.71	278.3	-183.1	847.5	830.7	16.78	50.496	
4,300.0	4,238.1	4,223.0	4,210.9	14.2	9.0	-158.66	286.4	-184.4	868.7	851.5	17.21	50.466	
4,400.0	4,336.2	4,320.7	4,308.2	14.5	9.2	-158.61	294.6	-185.7	889.9	872.3	17.64	50.437	
4,500.0	4,434.3	4,418.4	4,405.6	14.9	9.5	-158.56	302.7	-186.9	911.1	893.0	18.07	50.409	
4,600.0	4,532.4	4,516.2	4,503.0	15.3	9.7	-158.52	310.9	-188.2	932.3	913.8	18.51	50.382	
4,700.0	4,630.5	4,613.9	4,600.4	15.7	9.9	-158.47	319.0	-189.4	953.5	934.6	18.94	50.356	
4,800.0	4,728.6	4,711.6	4,697.7	16.1	10.1	-158.43	327.2	-190.7	974.7	955.4	19.37	50.331	
4,900.0	4,826.7	4,809.3	4,795.1	16.5	10.3	-158.39	335.3	-192.0	996.0	976.2	19.80	50.306	
5,000.0	4,924.8	4,907.1	4,892.5	16.9	10.6	-158.35	343.5	-193.2	1,017.2	996.9	20.23	50.282	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,004.8	4,989.9	17.2	10.8	-158.32	351.6	-194.5	1,038.4	1,017.7	20.66	50.259	
5,200.0	5,121.0	5,102.5	5,087.2	17.6	11.0	-158.28	359.7	-195.7	1,059.6	1,038.5	21.09	50.237	
5,300.0	5,219.1	5,200.2	5,184.6	18.0	11.2	-158.25	367.9	-197.0	1,080.8	1,059.3	21.52	50.215	
5,400.0	5,317.2	5,298.0	5,282.0	18.4	11.5	-158.22	376.0	-198.3	1,102.0	1,080.1	21.95	50.194	
5,500.0	5,415.3	5,395.7	5,379.4	18.8	11.7	-158.19	384.2	-199.5	1,123.2	1,100.8	22.39	50.174	
5,600.0	5,513.4	5,493.4	5,476.7	19.2	11.9	-158.16	392.3	-200.8	1,144.4	1,121.6	22.82	50.154	
5,700.0	5,611.5	5,591.1	5,574.1	19.6	12.1	-158.13	400.5	-202.1	1,165.6	1,142.4	23.25	50.135	
5,800.0	5,709.6	5,688.8	5,671.5	19.9	12.4	-158.10	408.6	-203.3	1,186.9	1,163.2	23.68	50.116	
5,900.0	5,807.7	5,786.6	5,768.9	20.3	12.6	-158.07	416.8	-204.6	1,208.1	1,184.0	24.11	50.098	
6,000.0	5,905.8	5,884.3	5,866.2	20.7	12.8	-158.05	424.9	-205.8	1,229.3	1,204.7	24.55	50.080	
6,100.0	6,003.9	5,982.0	5,963.6	21.1	13.0	-158.02	433.1	-207.1	1,250.5	1,225.5	24.98	50.063	
6,200.0	6,102.0	6,079.7	6,061.0	21.5	13.2	-158.00	441.2	-208.4	1,271.7	1,246.3	25.41	50.047	
6,300.0	6,200.1	6,177.5	6,158.4	21.9	13.5	-157.97	449.4	-209.6	1,292.9	1,267.1	25.84	50.030	
6,400.0	6,298.2	6,275.2	6,255.7	22.3	13.7	-157.95	457.5	-210.9	1,314.1	1,287.9	26.28	50.015	
6,500.0	6,396.3	6,372.9	6,353.1	22.6	13.9	-157.93	465.7	-212.1	1,335.3	1,308.6	26.71	49.999	
6,600.0	6,494.4	6,470.6	6,450.5	23.0	14.1	-157.91	473.8	-213.4	1,356.6	1,329.4	27.14	49.984	
6,700.0	6,592.5	6,568.3	6,547.8	23.4	14.4	-157.89	482.0	-214.7	1,377.8	1,350.2	27.57	49.970	
6,800.0	6,690.6	6,666.1	6,645.2	23.8	14.6	-157.87	490.1	-215.9	1,399.0	1,371.0	28.00	49.955	
6,900.0	6,788.7	6,763.8	6,742.6	24.2	14.8	-157.85	498.3	-217.2	1,420.2	1,391.8	28.44	49.941	
7,000.0	6,886.8	6,861.5	6,840.0	24.6	15.0	-157.83	506.4	-218.4	1,441.4	1,412.5	28.87	49.928	
7,068.1	6,953.6	6,969.6	6,947.8	24.8	15.2	-157.97	511.3	-219.8	1,455.5	1,426.3	29.16	49.911	
7,100.0	6,984.9	7,046.8	7,024.6	25.0	15.2	-143.10	503.3	-220.8	1,460.7	1,431.4	29.27	49.906	
7,150.0	7,033.5	7,154.5	7,128.3	25.2	15.0	-126.44	475.2	-222.2	1,466.3	1,437.2	29.14	50.317	
7,200.0	7,081.4	7,238.8	7,204.8	25.4	14.8	-116.62	439.9	-223.2	1,470.0	1,441.1	28.88	50.900	
7,250.0	7,128.3	7,299.7	7,266.4	25.6	14.6	-110.74	407.6	-223.8	1,472.7	1,444.0	28.68	51.358	
7,300.0	7,173.7	7,341.4	7,289.6	25.8	14.5	-106.87	382.4	-224.3	1,475.5	1,446.9	28.60	51.587	
7,350.0	7,217.2	7,368.5	7,310.2	26.1	14.4	-104.00	364.7	-224.5	1,478.8	1,450.1	28.67	51.577	
7,400.0	7,258.7	7,384.9	7,322.2	26.3	14.3	-101.63	353.6	-224.7	1,483.0	1,454.2	28.87	51.366	
7,450.0	7,297.7	7,393.2	7,328.2	26.6	14.3	-99.50	347.8	-224.8	1,488.3	1,459.1	29.18	50.997	
7,500.0	7,334.0	7,395.7	7,329.9	26.9	14.3	-97.49	346.1	-224.8	1,494.6	1,465.0	29.59	50.513	
7,550.0	7,367.2	7,393.5	7,328.4	27.2	14.3	-95.52	347.6	-224.8	1,502.0	1,471.9	30.06	49.960	
7,600.0	7,397.2	7,388.0	7,324.4	27.5	14.3	-93.58	351.5	-224.7	1,510.3	1,479.7	30.58	49.383	
7,650.0	7,423.7	7,379.7	7,318.4	27.8	14.3	-91.64	357.2	-224.6	1,519.4	1,488.3	31.12	48.826	
7,700.0	7,446.5	7,369.2	7,310.7	28.2	14.4	-89.72	364.3	-224.5	1,529.2	1,497.6	31.64	48.327	
7,750.0	7,465.4	7,357.1	7,301.6	28.6	14.4	-87.83	372.3	-224.4	1,539.6	1,507.4	32.13	47.919	
7,800.0	7,480.4	7,350.0	7,296.2	29.0	14.4	-86.20	376.9	-224.4	1,550.3	1,517.8	32.53	47.664	
7,850.0	7,491.1	7,328.8	7,279.8	29.3	14.5	-84.19	390.3	-224.1	1,561.2	1,528.3	32.90	47.454	
7,900.0	7,497.7	7,313.1	7,267.3	29.8	14.6	-82.49	399.7	-224.0	1,572.2	1,539.0	33.16	47.415	
7,951.9	7,500.0	7,300.0	7,256.7	30.2	14.6	-80.94	407.4	-223.8	1,583.5	1,550.2	33.33	47.514	
8,000.0	7,500.0	7,280.5	7,240.5	30.6	14.7	-80.35	418.3	-223.6	1,594.4	1,560.4	33.99	46.910	
8,100.0	7,500.0	7,250.0	7,214.6	31.5	14.8	-79.41	434.3	-223.3	1,620.6	1,585.3	35.38	45.801	
8,200.0	7,500.0	7,227.5	7,194.9	32.5	14.8	-78.69	445.3	-223.0	1,651.7	1,614.9	36.81	44.877	
8,300.0	7,500.0	7,200.0	7,170.3	33.6	14.9	-77.81	457.5	-222.7	1,687.6	1,649.3	38.25	44.124	
8,400.0	7,500.0	7,200.0	7,170.3	34.7	14.9	-77.81	457.5	-222.7	1,728.0	1,688.3	39.74	43.479	
8,500.0	7,500.0	7,172.2	7,144.8	35.9	15.0	-76.89	468.7	-222.4	1,772.6	1,731.4	41.20	43.021	
8,551.9	7,500.0	7,150.0	7,124.1	36.5	15.0	-76.16	476.7	-222.1	1,797.6	1,755.7	41.94	42.861	
8,600.0	7,500.0	7,150.0	7,124.1	37.1	15.0	-76.16	476.7	-222.1	1,821.5	1,778.8	42.68	42.675	
8,700.0	7,500.0	7,150.0	7,124.1	38.3	15.0	-76.16	476.7	-222.1	1,874.1	1,829.8	44.24	42.364	
8,800.0	7,500.0	7,150.0	7,124.1	39.6	15.0	-76.16	476.7	-222.1	1,930.4	1,884.6	45.81	42.141	
8,900.0	7,500.0	7,124.6	7,100.1	40.9	15.1	-75.31	484.9	-221.8	1,989.6	1,942.4	47.28	42.083	
9,000.0	7,500.0	7,100.0	7,076.5	42.3	15.1	-74.48	491.9	-221.5	2,052.3	2,003.5	48.74	42.104	
9,100.0	7,500.0	7,100.0	7,076.5	43.7	15.1	-74.48	491.9	-221.5	2,117.3	2,067.0	50.34	42.064 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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
9,200.0	7,500.0	7,100.0	7,076.5	45.1	15.1	-74.48	491.9	-221.5	2,185.0	2,133.1	51.94	42.070		
9,300.0	7,500.0	7,100.0	7,076.5	46.5	15.1	-74.48	491.9	-221.5	2,255.1	2,201.6	53.55	42.114		
9,400.0	7,500.0	7,100.0	7,076.5	48.0	15.1	-74.48	491.9	-221.5	2,327.4	2,272.3	55.16	42.190		
9,500.0	7,500.0	7,100.0	7,076.5	49.5	15.1	-74.48	491.9	-221.5	2,401.7	2,344.9	56.79	42.293		
9,551.9	7,500.0	7,078.7	7,055.8	50.2	15.2	-73.76	497.0	-221.2	2,440.6	2,383.1	57.47	42.468		
9,600.0	7,500.0	7,076.2	7,053.4	51.0	15.2	-73.83	497.6	-221.2	2,477.2	2,419.1	58.10	42.634		
9,700.0	7,500.0	7,071.4	7,048.7	52.4	15.2	-74.00	498.6	-221.1	2,553.7	2,494.2	59.42	42.975		
9,800.0	7,500.0	7,050.0	7,027.7	53.9	15.2	-73.64	502.8	-220.9	2,630.9	2,570.3	60.60	43.413		
9,900.0	7,500.0	7,050.0	7,027.7	55.4	15.2	-73.98	502.8	-220.9	2,708.2	2,646.2	61.94	43.720		
10,000.0	7,500.0	7,050.0	7,027.7	56.9	15.2	-74.31	502.8	-220.9	2,785.9	2,722.6	63.28	44.027		
10,100.0	7,500.0	7,050.0	7,027.7	58.4	15.2	-74.65	502.8	-220.9	2,864.0	2,799.4	64.60	44.335		
10,201.9	7,500.0	7,050.0	7,027.7	60.0	15.2	-74.98	502.8	-220.9	2,943.8	2,877.9	65.93	44.648		
10,300.0	7,500.0	7,050.0	7,027.7	61.5	15.2	-74.98	502.8	-220.9	3,021.5	2,953.9	67.56	44.724		
10,400.0	7,500.0	7,050.0	7,027.7	63.0	15.2	-74.98	502.8	-220.9	3,101.8	3,032.6	69.22	44.812		
10,500.0	7,500.0	7,050.0	7,027.7	64.5	15.2	-74.98	502.8	-220.9	3,183.3	3,112.4	70.88	44.911		
10,600.0	7,500.0	7,050.0	7,027.7	66.1	15.2	-74.98	502.8	-220.9	3,265.7	3,193.2	72.54	45.017		
10,700.0	7,500.0	7,050.0	7,027.7	67.7	15.2	-74.98	502.8	-220.9	3,349.2	3,275.0	74.21	45.130		
10,800.0	7,500.0	7,050.0	7,027.7	69.2	15.2	-74.98	502.8	-220.9	3,433.5	3,357.6	75.88	45.249		
10,900.0	7,500.0	7,050.0	7,027.7	70.8	15.2	-74.98	502.8	-220.9	3,518.6	3,441.1	77.55	45.372		
11,000.0	7,500.0	7,050.0	7,027.7	72.4	15.2	-74.98	502.8	-220.9	3,604.5	3,525.3	79.22	45.499		
11,100.0	7,500.0	7,050.0	7,027.7	74.0	15.2	-74.98	502.8	-220.9	3,691.2	3,610.3	80.90	45.628		
11,200.0	7,500.0	7,027.0	7,005.0	75.6	15.2	-74.29	506.4	-220.6	3,777.9	3,695.6	82.33	45.889		
11,300.0	7,500.0	7,025.2	7,003.2	77.2	15.2	-74.24	506.6	-220.6	3,865.7	3,781.8	83.98	46.033		
11,400.0	7,500.0	7,023.4	7,001.5	78.8	15.2	-74.18	506.8	-220.5	3,954.1	3,868.5	85.63	46.177		
11,500.0	7,500.0	7,021.8	6,999.8	80.5	15.2	-74.13	507.1	-220.5	4,043.0	3,955.8	87.28	46.321		
11,600.0	7,500.0	7,000.0	6,978.2	82.1	15.2	-73.48	509.4	-220.2	4,132.9	4,044.2	88.69	46.598		
11,700.0	7,500.0	7,000.0	6,978.2	83.7	15.2	-73.48	509.4	-220.2	4,222.7	4,132.3	90.36	46.732		
11,801.9	7,500.0	7,000.0	6,978.2	85.4	15.2	-73.48	509.4	-220.2	4,314.7	4,222.6	92.06	46.867		
11,900.0	7,500.0	7,000.0	6,978.2	87.0	15.2	-72.85	509.4	-220.2	4,404.0	4,310.2	93.85	46.928		
12,000.0	7,500.0	7,000.0	6,978.2	88.7	15.2	-72.14	509.4	-220.2	4,496.1	4,400.5	95.58	47.040		
12,100.0	7,500.0	7,000.0	6,978.2	90.4	15.2	-71.35	509.4	-220.2	4,589.1	4,491.9	97.21	47.206		
12,200.0	7,500.0	7,000.0	6,978.2	92.0	15.2	-70.46	509.4	-220.2	4,683.0	4,584.2	98.73	47.431		
12,300.0	7,500.0	7,000.0	6,978.2	93.7	15.2	-69.45	509.4	-220.2	4,777.6	4,677.5	100.11	47.724		
12,400.0	7,500.0	7,000.0	6,978.2	95.4	15.2	-68.31	509.4	-220.2	4,873.0	4,771.7	101.32	48.095		
12,500.0	7,500.0	7,000.0	6,978.2	97.1	15.2	-67.00	509.4	-220.2	4,969.0	4,866.7	102.33	48.560		
12,600.0	7,500.0	7,000.0	6,978.2	98.9	15.2	-65.49	509.4	-220.2	5,065.6	4,962.6	103.08	49.145		
12,700.0	7,500.0	7,000.0	6,978.2	100.6	15.2	-63.75	509.4	-220.2	5,162.8	5,059.3	103.50	49.884		
12,806.4	7,500.0	7,000.0	6,978.2	102.4	15.2	-61.56	509.4	-220.2	5,266.6	5,163.1	103.47	50.900		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						
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	-89.58	0.7	-100.2	100.2				
100.0	100.0	100.0	100.0	0.2	0.2	-89.58	0.7	-100.2	100.2	99.9	0.30	329.943	
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.7	-100.2	100.2	99.5	0.65	153.503	
300.0	300.0	300.0	300.0	0.5	0.5	-89.58	0.7	-100.2	100.2	99.2	1.00	100.018	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	-171.78	0.7	-100.2	101.1	99.7	1.35	74.819	
500.0	500.0	500.7	500.7	0.9	0.9	-171.55	1.5	-99.8	103.3	101.6	1.70	60.705	
600.0	599.9	601.5	601.4	1.0	1.0	-170.60	3.9	-98.6	106.5	104.4	2.05	51.835	
700.0	699.7	702.1	701.9	1.2	1.2	-169.02	7.9	-96.7	110.7	108.3	2.41	45.894	
800.0	799.4	802.6	802.3	1.4	1.4	-166.94	13.4	-94.0	116.1	113.3	2.78	41.754	
900.0	898.9	902.9	902.3	1.7	1.6	-164.48	20.6	-90.5	122.8	119.6	3.16	38.800	
1,000.0	998.3	1,002.4	1,001.4	1.9	1.8	-162.17	28.3	-86.8	131.1	127.5	3.56	36.852	
1,100.0	1,097.4	1,101.8	1,100.4	2.2	2.0	-160.38	36.1	-83.0	141.2	137.2	3.96	35.673	
1,200.0	1,196.3	1,201.1	1,199.3	2.5	2.3	-159.04	43.8	-79.2	153.0	148.6	4.37	35.047	
1,300.0	1,294.9	1,300.1	1,298.0	2.8	2.5	-158.11	51.6	-75.5	166.5	161.7	4.78	34.830	
1,400.0	1,393.3	1,399.0	1,396.4	3.2	2.7	-157.52	59.3	-71.7	181.6	176.4	5.20	34.924	
1,419.0	1,411.9	1,417.7	1,415.1	3.2	2.7	-157.44	60.8	-71.0	184.7	179.4	5.28	34.972	
1,500.0	1,491.4	1,497.6	1,494.7	3.5	2.9	-157.19	67.0	-67.9	197.9	192.2	5.63	35.141	
1,600.0	1,589.5	1,596.3	1,593.0	3.9	3.2	-156.93	74.7	-64.2	214.1	208.0	6.06	35.305	
1,700.0	1,687.6	1,695.0	1,691.3	4.2	3.4	-156.70	82.4	-60.4	230.4	223.9	6.50	35.432	
1,800.0	1,785.7	1,793.6	1,789.6	4.6	3.6	-156.50	90.1	-56.7	246.6	239.7	6.94	35.531	
1,900.0	1,883.8	1,892.3	1,887.9	5.0	3.8	-156.33	97.8	-53.0	262.9	255.5	7.38	35.609	
2,000.0	1,981.9	1,991.0	1,986.2	5.4	4.0	-156.17	105.5	-49.2	279.1	271.3	7.83	35.670	
2,100.0	2,080.0	2,089.6	2,084.5	5.7	4.3	-156.04	113.2	-45.5	295.4	287.1	8.27	35.719	
2,200.0	2,178.1	2,188.3	2,182.8	6.1	4.5	-155.91	120.9	-41.7	311.7	302.9	8.72	35.758	
2,300.0	2,276.2	2,287.0	2,281.1	6.5	4.7	-155.80	128.6	-38.0	327.9	318.8	9.16	35.789	
2,400.0	2,374.3	2,385.6	2,379.4	6.9	4.9	-155.70	136.3	-34.2	344.2	334.6	9.61	35.814	
2,500.0	2,472.3	2,484.3	2,477.7	7.3	5.2	-155.61	144.0	-30.5	360.5	350.4	10.06	35.834	
2,600.0	2,570.4	2,583.0	2,576.0	7.6	5.4	-155.53	151.7	-26.7	376.7	366.2	10.51	35.850	
2,700.0	2,668.5	2,681.6	2,674.3	8.0	5.6	-155.45	159.4	-23.0	393.0	382.0	10.96	35.862	
2,800.0	2,766.6	2,780.3	2,772.6	8.4	5.9	-155.38	167.1	-19.2	409.3	397.9	11.41	35.872	
2,900.0	2,864.7	2,879.0	2,870.9	8.8	6.1	-155.32	174.9	-15.5	425.5	413.7	11.86	35.880	
3,000.0	2,962.8	2,977.6	2,969.2	9.2	6.3	-155.26	182.6	-11.7	441.8	429.5	12.31	35.886	
3,100.0	3,060.9	3,076.3	3,067.4	9.5	6.5	-155.20	190.3	-8.0	458.1	445.3	12.76	35.890	
3,200.0	3,159.0	3,175.0	3,165.7	9.9	6.8	-155.15	198.0	-4.2	474.4	461.1	13.22	35.893	
3,300.0	3,257.1	3,273.6	3,264.0	10.3	7.0	-155.10	205.7	-0.5	490.6	477.0	13.67	35.895	
3,400.0	3,355.2	3,372.3	3,362.3	10.7	7.2	-155.06	213.4	3.3	506.9	492.8	14.12	35.896	
3,500.0	3,453.3	3,471.0	3,460.6	11.1	7.4	-155.02	221.1	7.0	523.2	508.6	14.57	35.897	
3,600.0	3,551.4	3,569.6	3,558.9	11.5	7.7	-154.98	228.8	10.8	539.4	524.4	15.03	35.897	
3,700.0	3,649.5	3,668.3	3,657.2	11.9	7.9	-154.94	236.5	14.5	555.7	540.2	15.48	35.896	
3,800.0	3,747.6	3,767.0	3,755.5	12.2	8.1	-154.90	244.2	18.3	572.0	556.1	15.94	35.895	
3,900.0	3,845.7	3,865.6	3,853.8	12.6	8.4	-154.87	251.9	22.0	588.3	571.9	16.39	35.894	
4,000.0	3,943.8	3,964.3	3,952.1	13.0	8.6	-154.84	259.6	25.8	604.5	587.7	16.84	35.892	
4,100.0	4,041.9	4,063.0	4,050.4	13.4	8.8	-154.81	267.3	29.5	620.8	603.5	17.30	35.890	
4,200.0	4,140.0	4,161.6	4,148.7	13.8	9.0	-154.78	275.0	33.3	637.1	619.3	17.75	35.888	
4,300.0	4,238.1	4,260.3	4,247.0	14.2	9.3	-154.75	282.7	37.0	653.4	635.2	18.21	35.886	
4,400.0	4,336.2	4,359.0	4,345.3	14.5	9.5	-154.73	290.4	40.8	669.6	651.0	18.66	35.884	
4,500.0	4,434.3	4,457.6	4,443.6	14.9	9.7	-154.70	298.1	44.5	685.9	666.8	19.12	35.881	
4,600.0	4,532.4	4,556.3	4,541.9	15.3	9.9	-154.68	305.8	48.3	702.2	682.6	19.57	35.879	
4,700.0	4,630.5	4,655.0	4,640.1	15.7	10.2	-154.66	313.5	52.0	718.5	698.4	20.03	35.876	
4,800.0	4,728.6	4,753.6	4,738.4	16.1	10.4	-154.63	321.2	55.8	734.7	714.3	20.48	35.873	
4,900.0	4,826.7	4,852.3	4,836.7	16.5	10.6	-154.61	328.9	59.5	751.0	730.1	20.94	35.871	
5,000.0	4,924.8	4,951.0	4,935.0	16.9	10.9	-154.59	336.6	63.3	767.3	745.9	21.39	35.868	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
5,100.0	5,022.9	5,049.6	5,033.3	17.2	11.1	-154.58	344.3	67.0	783.6	761.7	21.85	35.865	
5,200.0	5,121.0	5,148.3	5,131.6	17.6	11.3	-154.56	352.0	70.8	799.8	777.5	22.30	35.863	
5,300.0	5,219.1	5,247.0	5,229.9	18.0	11.5	-154.54	359.7	74.5	816.1	793.4	22.76	35.860	
5,400.0	5,317.2	5,345.6	5,328.2	18.4	11.8	-154.52	367.5	78.3	832.4	809.2	23.21	35.857	
5,500.0	5,415.3	5,444.3	5,426.5	18.8	12.0	-154.51	375.2	82.0	848.7	825.0	23.67	35.854	
5,600.0	5,513.4	5,543.0	5,524.8	19.2	12.2	-154.49	382.9	85.8	864.9	840.8	24.13	35.852	
5,700.0	5,611.5	5,641.6	5,623.1	19.6	12.4	-154.48	390.6	89.5	881.2	856.6	24.58	35.849	
5,800.0	5,709.6	5,740.3	5,721.4	19.9	12.7	-154.46	398.3	93.3	897.5	872.5	25.04	35.846	
5,900.0	5,807.7	5,839.0	5,819.7	20.3	12.9	-154.45	406.0	97.0	913.8	888.3	25.49	35.844	
6,000.0	5,905.8	5,937.6	5,918.0	20.7	13.1	-154.44	413.7	100.8	930.0	904.1	25.95	35.841	
6,100.0	6,003.9	6,036.3	6,016.3	21.1	13.4	-154.42	421.4	104.5	946.3	919.9	26.41	35.839	
6,200.0	6,102.0	6,135.0	6,114.5	21.5	13.6	-154.41	429.1	108.3	962.6	935.7	26.86	35.836	
6,300.0	6,200.1	6,233.6	6,212.8	21.9	13.8	-154.40	436.8	112.0	978.9	951.6	27.32	35.834	
6,400.0	6,298.2	6,332.3	6,311.1	22.3	14.0	-154.39	444.5	115.8	995.2	967.4	27.77	35.831	
6,500.0	6,396.3	6,431.0	6,409.4	22.6	14.3	-154.38	452.2	119.5	1,011.4	983.2	28.23	35.829	
6,600.0	6,494.4	6,529.6	6,507.7	23.0	14.5	-154.37	459.9	123.3	1,027.7	999.0	28.69	35.826	
6,700.0	6,592.5	6,628.3	6,606.0	23.4	14.7	-154.35	467.6	127.0	1,044.0	1,014.8	29.14	35.824	
6,800.0	6,690.6	6,727.0	6,704.3	23.8	15.0	-154.34	475.3	130.8	1,060.3	1,030.7	29.60	35.822	
6,900.0	6,788.7	6,825.6	6,802.6	24.2	15.2	-154.33	483.0	134.5	1,076.5	1,046.5	30.05	35.820	
7,000.0	6,886.8	6,924.3	6,900.9	24.6	15.4	-154.33	490.7	138.3	1,092.8	1,062.3	30.51	35.817	
7,068.1	6,953.6	6,991.5	6,967.8	24.8	15.6	-154.32	496.0	140.8	1,103.9	1,073.1	30.82	35.816	
7,100.0	6,984.9	7,023.0	6,999.2	25.0	15.6	-138.91	498.4	142.0	1,108.8	1,077.7	31.11	35.844	
7,150.0	7,033.5	7,072.3	7,048.4	25.2	15.8	-120.66	502.3	143.9	1,115.5	1,084.0	31.50	35.407	
7,200.0	7,081.4	7,121.2	7,097.1	25.4	15.9	-109.07	506.1	145.7	1,120.8	1,089.0	31.82	35.221	
7,250.0	7,128.3	7,196.2	7,171.8	25.6	16.0	-102.38	509.8	148.6	1,124.6	1,092.6	31.97	35.175	
7,300.0	7,173.7	7,288.3	7,263.5	25.8	16.0	-99.53	501.7	152.1	1,125.5	1,093.8	31.71	35.495	
7,350.0	7,217.2	7,359.8	7,333.0	26.1	16.0	-98.51	485.4	154.7	1,124.5	1,093.2	31.31	35.915	
7,400.0	7,258.7	7,411.8	7,382.0	26.3	15.9	-98.20	468.1	156.6	1,122.9	1,091.9	30.99	36.240	
7,450.0	7,297.7	7,447.8	7,414.9	26.6	15.8	-98.01	453.6	157.9	1,121.7	1,090.8	30.83	36.385	
7,486.5	7,324.5	7,466.2	7,431.3	26.8	15.7	-97.80	445.4	158.5	1,121.3	1,090.5	30.83	36.376	
7,500.0	7,334.0	7,471.5	7,436.0	26.9	15.7	-97.69	442.9	158.7	1,121.4	1,090.5	30.84	36.356	
7,550.0	7,367.2	7,485.9	7,448.6	27.2	15.7	-97.15	436.0	159.1	1,122.5	1,091.5	31.03	36.178	
7,600.0	7,397.2	7,493.2	7,454.9	27.5	15.7	-96.34	432.4	159.4	1,125.2	1,093.8	31.35	35.894	
7,650.0	7,423.7	7,495.1	7,456.6	27.8	15.7	-95.30	431.4	159.4	1,129.5	1,097.7	31.77	35.553	
7,700.0	7,446.5	7,492.8	7,454.7	28.2	15.7	-94.04	432.6	159.4	1,135.4	1,103.2	32.26	35.199	
7,750.0	7,465.4	7,487.4	7,449.9	28.6	15.7	-92.59	435.3	159.2	1,142.9	1,110.1	32.77	34.874	
7,800.0	7,480.4	7,479.3	7,442.9	29.0	15.7	-90.99	439.2	158.9	1,151.8	1,118.5	33.27	34.617	
7,850.0	7,491.1	7,469.2	7,434.0	29.3	15.7	-89.27	444.0	158.6	1,161.9	1,128.2	33.72	34.460	
7,900.0	7,497.7	7,450.0	7,416.9	29.8	15.8	-87.13	452.6	157.9	1,173.0	1,138.9	34.09	34.412	
7,951.9	7,500.0	7,450.0	7,416.9	30.2	15.8	-85.85	452.6	157.9	1,185.4	1,151.1	34.31	34.548	
8,000.0	7,500.0	7,431.1	7,399.7	30.6	15.8	-85.00	460.6	157.3	1,198.0	1,163.1	34.96	34.267	
8,100.0	7,500.0	7,400.0	7,371.0	31.5	15.9	-83.58	472.4	156.2	1,229.4	1,193.0	36.34	33.830	
8,200.0	7,500.0	7,400.0	7,371.0	32.5	15.9	-83.58	472.4	156.2	1,267.2	1,229.4	37.79	33.536	
8,300.0	7,500.0	7,373.4	7,345.9	33.6	15.9	-82.36	481.3	155.2	1,311.0	1,271.8	39.22	33.432 SF	
8,400.0	7,500.0	7,350.0	7,323.6	34.7	16.0	-81.27	488.1	154.4	1,360.6	1,320.0	40.66	33.460	
8,500.0	7,500.0	7,350.0	7,323.6	35.9	16.0	-81.27	488.1	154.4	1,415.2	1,373.0	42.20	33.532	
8,551.9	7,500.0	7,350.0	7,323.6	36.5	16.0	-81.27	488.1	154.4	1,445.4	1,402.4	43.01	33.605	
8,600.0	7,500.0	7,350.0	7,323.6	37.1	16.0	-81.27	488.1	154.4	1,474.5	1,430.7	43.77	33.690	
8,700.0	7,500.0	7,328.5	7,302.8	38.3	16.0	-80.27	493.6	153.6	1,537.6	1,492.3	45.25	33.982	
8,800.0	7,500.0	7,320.5	7,295.0	39.6	16.0	-79.90	495.4	153.3	1,604.4	1,557.6	46.80	34.285	
8,900.0	7,500.0	7,300.0	7,275.0	40.9	16.0	-78.94	499.7	152.5	1,674.7	1,626.4	48.28	34.684	
9,000.0	7,500.0	7,300.0	7,275.0	42.3	16.0	-78.94	499.7	152.5	1,747.5	1,697.6	49.89	35.023	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	7,300.0	7,275.0	43.7	16.0	-78.94	499.7	152.5	1,822.8	1,771.3	51.52	35.383		
9,200.0	7,500.0	7,300.0	7,275.0	45.1	16.0	-78.94	499.7	152.5	1,900.4	1,847.3	53.15	35.759		
9,300.0	7,500.0	7,300.0	7,275.0	46.5	16.0	-78.94	499.7	152.5	1,980.1	1,925.3	54.78	36.143		
9,400.0	7,500.0	7,300.0	7,275.0	48.0	16.0	-78.94	499.7	152.5	2,061.5	2,005.1	56.43	36.532		
9,500.0	7,500.0	7,300.0	7,275.0	49.5	16.0	-78.94	499.7	152.5	2,144.5	2,086.4	58.08	36.923		
9,551.9	7,500.0	7,300.0	7,275.0	50.2	16.0	-78.94	499.7	152.5	2,188.1	2,129.2	58.94	37.125		
9,600.0	7,500.0	7,279.3	7,254.6	51.0	16.0	-78.13	503.2	151.7	2,228.4	2,169.0	59.38	37.524		
9,700.0	7,500.0	7,275.9	7,251.2	52.4	16.0	-78.30	503.7	151.6	2,313.0	2,252.3	60.65	38.136		
9,800.0	7,500.0	7,272.8	7,248.1	53.9	16.0	-78.48	504.1	151.5	2,397.9	2,336.0	61.91	38.732		
9,900.0	7,500.0	7,250.0	7,225.5	55.4	16.0	-77.84	506.9	150.6	2,483.4	2,420.5	62.99	39.426		
10,000.0	7,500.0	7,250.0	7,225.5	56.9	16.0	-78.17	506.9	150.6	2,568.7	2,504.4	64.26	39.972		
10,100.0	7,500.0	7,250.0	7,225.5	58.4	16.0	-78.51	506.9	150.6	2,654.1	2,588.6	65.52	40.507		
10,201.9	7,500.0	7,250.0	7,225.5	60.0	16.0	-78.84	506.9	150.6	2,741.3	2,674.5	66.79	41.041		
10,300.0	7,500.0	7,250.0	7,225.5	61.5	16.0	-78.84	506.9	150.6	2,825.7	2,757.2	68.44	41.285		
10,400.0	7,500.0	7,250.0	7,225.5	63.0	16.0	-78.84	506.9	150.6	2,912.6	2,842.5	70.13	41.533		
10,500.0	7,500.0	7,250.0	7,225.5	64.5	16.0	-78.84	506.9	150.6	3,000.4	2,928.5	71.82	41.779		
10,600.0	7,500.0	7,250.0	7,225.5	66.1	16.0	-78.84	506.9	150.6	3,088.9	3,015.4	73.50	42.022		
10,700.0	7,500.0	7,250.0	7,225.5	67.7	16.0	-78.84	506.9	150.6	3,178.0	3,102.8	75.20	42.263		
10,800.0	7,500.0	7,250.0	7,225.5	69.2	16.0	-78.84	506.9	150.6	3,267.8	3,190.9	76.89	42.499		
10,900.0	7,500.0	7,250.0	7,225.5	70.8	16.0	-78.84	506.9	150.6	3,358.2	3,279.6	78.59	42.732		
11,000.0	7,500.0	7,250.0	7,225.5	72.4	16.0	-78.84	506.9	150.6	3,449.1	3,368.8	80.29	42.961		
11,100.0	7,500.0	7,250.0	7,225.5	74.0	16.0	-78.84	506.9	150.6	3,540.5	3,458.5	81.99	43.185		
11,200.0	7,500.0	7,250.0	7,225.5	75.6	16.0	-78.84	506.9	150.6	3,632.4	3,548.7	83.69	43.405		
11,300.0	7,500.0	7,250.0	7,225.5	77.2	16.0	-78.84	506.9	150.6	3,724.7	3,639.3	85.39	43.620		
11,400.0	7,500.0	7,250.0	7,225.5	78.8	16.0	-78.84	506.9	150.6	3,817.3	3,730.2	87.09	43.830		
11,500.0	7,500.0	7,250.0	7,225.5	80.5	16.0	-78.84	506.9	150.6	3,910.4	3,821.6	88.80	44.036		
11,600.0	7,500.0	7,250.0	7,225.5	82.1	16.0	-78.84	506.9	150.6	4,003.7	3,913.2	90.50	44.238		
11,700.0	7,500.0	7,250.0	7,225.5	83.7	16.0	-78.84	506.9	150.6	4,097.4	4,005.2	92.21	44.434		
11,801.9	7,500.0	7,250.0	7,225.5	85.4	16.0	-78.84	506.9	150.6	4,193.1	4,099.2	93.95	44.630		
11,900.0	7,500.0	7,250.0	7,225.5	87.0	16.0	-78.27	506.9	150.6	4,285.9	4,189.9	95.95	44.669		
12,000.0	7,500.0	7,250.0	7,225.5	88.7	16.0	-77.62	506.9	150.6	4,381.1	4,283.2	97.91	44.746		
12,100.0	7,500.0	7,250.0	7,225.5	90.4	16.0	-76.86	506.9	150.6	4,477.1	4,377.3	99.79	44.866		
12,200.0	7,500.0	7,250.0	7,225.5	92.0	16.0	-75.99	506.9	150.6	4,573.7	4,472.1	101.56	45.034		
12,300.0	7,500.0	7,250.0	7,225.5	93.7	16.0	-74.96	506.9	150.6	4,670.9	4,567.7	103.20	45.260		
12,400.0	7,500.0	7,250.0	7,225.5	95.4	16.0	-73.74	506.9	150.6	4,768.5	4,663.8	104.67	45.559		
12,500.0	7,500.0	7,250.0	7,225.5	97.1	16.0	-72.27	506.9	150.6	4,866.6	4,760.7	105.90	45.953		
12,600.0	7,500.0	7,250.0	7,225.5	98.9	16.0	-70.47	506.9	150.6	4,965.0	4,858.2	106.82	46.480		
12,700.0	7,500.0	7,250.0	7,225.5	100.6	16.0	-68.24	506.9	150.6	5,063.8	4,956.5	107.27	47.207		
12,806.4	7,500.0	7,250.0	7,225.5	102.4	16.0	-65.18	506.9	150.6	5,169.2	5,062.3	106.95	48.334		
12,900.0	7,500.0	7,250.0	7,225.5	104.0	16.0	-65.18	506.9	150.6	5,262.1	5,153.6	108.43	48.529		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
0.0	0.0	0.0	0.0	0.0	0.0	-89.54	0.7	-90.1	90.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.54	0.7	-90.1	90.1	89.8	0.30	296.766		
200.0	200.0	200.0	200.0	0.3	0.3	-89.54	0.7	-90.1	90.1	89.5	0.65	138.068		
300.0	300.0	300.0	300.0	0.5	0.5	-89.54	0.7	-90.1	90.1	89.1	1.00	89.960	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	-171.74	0.7	-90.1	91.0	89.6	1.35	67.360		
500.0	500.0	500.0	500.0	0.9	0.8	-171.97	0.7	-90.1	93.6	91.9	1.70	55.066		
600.0	599.9	601.0	600.9	1.0	1.0	-171.92	1.4	-89.6	97.3	95.3	2.05	47.487		
700.0	699.7	702.0	701.9	1.2	1.2	-171.24	3.5	-87.9	101.7	99.3	2.40	42.351		
800.0	799.4	802.9	802.8	1.4	1.4	-170.01	6.9	-85.0	106.8	104.0	2.76	38.708		
900.0	898.9	903.9	903.5	1.7	1.6	-168.34	11.7	-81.1	112.5	109.4	3.12	36.039		
1,000.0	998.3	1,004.7	1,004.1	1.9	1.8	-166.31	17.9	-76.0	119.1	115.6	3.50	34.032		
1,100.0	1,097.4	1,105.5	1,104.4	2.2	2.0	-164.02	25.4	-69.8	126.5	122.6	3.89	32.484		
1,200.0	1,196.3	1,206.1	1,204.3	2.5	2.3	-161.55	34.3	-62.5	134.9	130.6	4.31	31.263		
1,300.0	1,294.9	1,305.5	1,302.9	2.8	2.5	-159.36	43.6	-54.8	144.8	140.0	4.75	30.465		
1,400.0	1,393.3	1,404.7	1,401.4	3.2	2.8	-157.68	53.0	-47.1	156.4	151.2	5.20	30.059		
1,419.0	1,411.9	1,423.5	1,420.1	3.2	2.8	-157.41	54.8	-45.6	158.8	153.5	5.29	30.019		
1,500.0	1,491.4	1,503.8	1,499.8	3.5	3.0	-156.42	62.3	-39.4	169.2	163.6	5.67	29.841		
1,600.0	1,589.5	1,602.9	1,598.2	3.9	3.3	-155.35	71.7	-31.7	182.2	176.0	6.15	29.617		
1,700.0	1,687.6	1,702.0	1,696.5	4.2	3.5	-154.42	81.0	-24.0	195.1	188.5	6.64	29.396		
1,800.0	1,785.7	1,801.1	1,794.9	4.6	3.8	-153.61	90.3	-16.3	208.2	201.0	7.13	29.182		
1,900.0	1,883.8	1,900.2	1,893.3	5.0	4.0	-152.90	99.7	-8.6	221.2	213.6	7.63	28.978		
2,000.0	1,981.9	1,999.4	1,991.6	5.4	4.3	-152.26	109.0	-0.9	234.3	226.2	8.14	28.785		
2,100.0	2,080.0	2,098.5	2,090.0	5.7	4.6	-151.69	118.4	6.8	247.4	238.8	8.65	28.604		
2,200.0	2,178.1	2,197.6	2,188.4	6.1	4.8	-151.18	127.7	14.5	260.6	251.4	9.16	28.433		
2,300.0	2,276.2	2,296.7	2,286.7	6.5	5.1	-150.72	137.0	22.2	273.7	264.1	9.68	28.274		
2,400.0	2,374.3	2,395.8	2,385.1	6.9	5.4	-150.30	146.4	29.9	286.9	276.7	10.20	28.124		
2,500.0	2,472.3	2,494.9	2,483.5	7.3	5.6	-149.91	155.7	37.5	300.1	289.4	10.72	27.985		
2,600.0	2,570.4	2,594.0	2,581.8	7.6	5.9	-149.56	165.1	45.2	313.3	302.0	11.25	27.854		
2,700.0	2,668.5	2,693.1	2,680.2	8.0	6.2	-149.24	174.4	52.9	326.5	314.7	11.77	27.732		
2,800.0	2,766.6	2,792.2	2,778.6	8.4	6.5	-148.94	183.7	60.6	339.7	327.4	12.30	27.617		
2,900.0	2,864.7	2,891.3	2,876.9	8.8	6.7	-148.67	193.1	68.3	352.9	340.1	12.83	27.509		
3,000.0	2,962.8	2,990.4	2,975.3	9.2	7.0	-148.41	202.4	76.0	366.2	352.8	13.36	27.408		
3,100.0	3,060.9	3,089.5	3,073.7	9.5	7.3	-148.18	211.8	83.7	379.4	365.5	13.89	27.312		
3,200.0	3,159.0	3,188.6	3,172.0	9.9	7.5	-147.96	221.1	91.4	392.7	378.2	14.42	27.223		
3,300.0	3,257.1	3,287.8	3,270.4	10.3	7.8	-147.75	230.4	99.1	405.9	391.0	14.96	27.138		
3,400.0	3,355.2	3,386.9	3,368.8	10.7	8.1	-147.55	239.8	106.8	419.2	403.7	15.49	27.058		
3,500.0	3,453.3	3,486.0	3,467.1	11.1	8.3	-147.37	249.1	114.5	432.4	416.4	16.03	26.983		
3,600.0	3,551.4	3,585.1	3,565.5	11.5	8.6	-147.20	258.5	122.2	445.7	429.1	16.56	26.911		
3,700.0	3,649.5	3,684.2	3,663.9	11.9	8.9	-147.04	267.8	129.9	459.0	441.9	17.10	26.843		
3,800.0	3,747.6	3,783.3	3,762.2	12.2	9.2	-146.89	277.1	137.6	472.3	454.6	17.64	26.779		
3,900.0	3,845.7	3,882.4	3,860.6	12.6	9.4	-146.74	286.5	145.2	485.5	467.4	18.17	26.718		
4,000.0	3,943.8	3,981.5	3,959.0	13.0	9.7	-146.61	295.8	152.9	498.8	480.1	18.71	26.660		
4,100.0	4,041.9	4,080.6	4,057.3	13.4	10.0	-146.48	305.2	160.6	512.1	492.8	19.25	26.604		
4,200.0	4,140.0	4,179.7	4,155.7	13.8	10.2	-146.36	314.5	168.3	525.4	505.6	19.79	26.551		
4,300.0	4,238.1	4,278.8	4,254.1	14.2	10.5	-146.24	323.8	176.0	538.7	518.3	20.33	26.501		
4,400.0	4,336.2	4,377.9	4,352.4	14.5	10.8	-146.13	333.2	183.7	551.9	531.1	20.87	26.453		
4,500.0	4,434.3	4,477.0	4,450.8	14.9	11.1	-146.02	342.5	191.4	565.2	543.8	21.40	26.407		
4,600.0	4,532.4	4,576.2	4,549.2	15.3	11.3	-145.92	351.9	199.1	578.5	556.6	21.94	26.363		
4,700.0	4,630.5	4,675.3	4,647.5	15.7	11.6	-145.83	361.2	206.8	591.8	569.3	22.48	26.321		
4,800.0	4,728.6	4,774.4	4,745.9	16.1	11.9	-145.73	370.6	214.5	605.1	582.1	23.03	26.281		
4,900.0	4,826.7	4,873.5	4,844.2	16.5	12.2	-145.64	379.9	222.2	618.4	594.8	23.57	26.242		
5,000.0	4,924.8	4,972.6	4,942.6	16.9	12.4	-145.56	389.2	229.9	631.7	607.6	24.11	26.205		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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		
5,100.0	5,022.9	5,071.7	5,041.0	17.2	12.7	-145.48	398.6	237.6	645.0	620.4	24.65	26.169		
5,200.0	5,121.0	5,170.8	5,139.3	17.6	13.0	-145.40	407.9	245.3	658.3	633.1	25.19	26.135		
5,300.0	5,219.1	5,269.9	5,237.7	18.0	13.2	-145.33	417.3	253.0	671.6	645.9	25.73	26.102		
5,400.0	5,317.2	5,369.0	5,336.1	18.4	13.5	-145.26	426.6	260.6	684.9	658.6	26.27	26.070		
5,500.0	5,415.3	5,468.1	5,434.4	18.8	13.8	-145.19	435.9	268.3	698.2	671.4	26.81	26.040		
5,600.0	5,513.4	5,567.2	5,532.8	19.2	14.1	-145.12	445.3	276.0	711.5	684.2	27.36	26.010		
5,700.0	5,611.5	5,666.3	5,631.2	19.6	14.3	-145.06	454.6	283.7	724.8	696.9	27.90	25.982		
5,800.0	5,709.6	5,765.4	5,729.5	19.9	14.6	-144.99	464.0	291.4	738.1	709.7	28.44	25.954		
5,900.0	5,807.7	5,864.5	5,827.9	20.3	14.9	-144.93	473.3	299.1	751.4	722.5	28.98	25.928		
6,000.0	5,905.8	5,963.7	5,926.3	20.7	15.2	-144.88	482.6	306.8	764.8	735.2	29.52	25.902		
6,100.0	6,003.9	6,062.8	6,024.6	21.1	15.4	-144.82	492.0	314.5	778.1	748.0	30.07	25.877		
6,200.0	6,102.0	6,161.9	6,123.0	21.5	15.7	-144.77	501.3	322.2	791.4	760.8	30.61	25.853		
6,300.0	6,200.1	6,261.0	6,221.4	21.9	16.0	-144.72	510.7	329.9	804.7	773.5	31.15	25.830		
6,400.0	6,298.2	6,360.1	6,319.7	22.3	16.2	-144.67	520.0	337.6	818.0	786.3	31.70	25.808		
6,500.0	6,396.3	6,459.2	6,418.1	22.6	16.5	-144.62	529.3	345.3	831.3	799.1	32.24	25.786		
6,600.0	6,494.4	6,558.3	6,516.5	23.0	16.8	-144.57	538.7	353.0	844.6	811.8	32.78	25.765		
6,700.0	6,592.5	6,657.4	6,614.8	23.4	17.1	-144.53	548.0	360.7	857.9	824.6	33.32	25.745		
6,800.0	6,690.6	6,756.5	6,713.2	23.8	17.3	-144.48	557.4	368.3	871.2	837.4	33.87	25.725		
6,900.0	6,788.7	6,855.6	6,811.6	24.2	17.6	-144.44	566.7	376.0	884.6	850.1	34.41	25.705 SF		
7,000.0	6,886.8	7,045.0	6,999.8	24.6	17.9	-145.14	570.8	390.8	896.1	861.3	34.80	25.747		
7,068.1	6,953.6	7,257.0	7,200.0	24.8	17.7	-149.82	506.6	406.4	893.0	859.7	33.30	26.816		
7,100.0	6,984.9	7,333.4	7,264.4	25.0	17.4	-138.11	465.9	411.5	888.5	856.3	32.19	27.597		
7,150.0	7,033.5	7,420.1	7,330.2	25.2	17.2	-125.33	409.9	416.6	879.1	848.6	30.56	28.769		
7,200.0	7,081.4	7,475.0	7,367.3	25.4	17.0	-117.95	369.5	419.5	869.2	839.8	29.39	29.569		
7,250.0	7,128.3	7,508.1	7,387.7	25.6	16.9	-113.50	343.5	421.1	860.2	831.5	28.73	29.944		
7,300.0	7,173.7	7,526.6	7,398.4	25.8	16.8	-110.42	328.5	421.9	853.1	824.7	28.44	29.999		
7,350.0	7,217.2	7,535.1	7,403.2	26.1	16.8	-107.95	321.4	422.3	848.4	820.0	28.42	29.851		
7,400.0	7,258.7	7,536.6	7,404.0	26.3	16.8	-105.69	320.2	422.4	846.3	817.7	28.62	29.576		
7,413.3	7,269.3	7,536.1	7,403.7	26.4	16.8	-105.10	320.6	422.4	846.2	817.5	28.70	29.485		
7,450.0	7,297.7	7,533.1	7,402.1	26.6	16.8	-103.47	323.1	422.2	847.0	818.0	28.98	29.223		
7,500.0	7,334.0	7,525.9	7,398.0	26.9	16.8	-101.18	329.1	421.9	850.2	820.7	29.50	28.826		
7,550.0	7,367.2	7,515.8	7,392.2	27.2	16.8	-98.79	337.2	421.5	856.0	825.9	30.12	28.421		
7,600.0	7,397.2	7,500.0	7,382.8	27.5	16.9	-96.05	350.0	420.7	864.0	833.2	30.87	27.992		
7,650.0	7,423.7	7,489.8	7,376.6	27.8	16.9	-93.68	358.0	420.2	874.1	842.6	31.52	27.731		
7,700.0	7,446.5	7,474.6	7,367.0	28.2	17.0	-91.00	369.8	419.5	885.9	853.7	32.19	27.522		
7,750.0	7,465.4	7,458.3	7,356.4	28.6	17.0	-88.27	382.2	418.6	899.2	866.4	32.76	27.449		
7,800.0	7,480.4	7,441.1	7,344.8	29.0	17.1	-85.53	394.9	417.7	913.6	880.4	33.18	27.537		
7,850.0	7,491.1	7,423.1	7,332.4	29.3	17.1	-82.83	407.8	416.8	928.8	895.4	33.41	27.802		
7,900.0	7,497.7	7,400.0	7,315.7	29.8	17.2	-79.97	423.8	415.5	944.7	911.2	33.44	28.250		
7,951.9	7,500.0	7,384.8	7,304.5	30.2	17.3	-77.59	433.9	414.6	961.3	928.1	33.24	28.922		
8,000.0	7,500.0	7,366.9	7,290.8	30.6	17.3	-76.77	445.5	413.5	977.7	943.8	33.86	28.877		
8,100.0	7,500.0	7,333.6	7,264.6	31.5	17.4	-75.21	465.8	411.5	1,016.4	981.3	35.15	28.918		
8,200.0	7,500.0	7,300.0	7,236.9	32.5	17.5	-73.61	484.8	409.3	1,061.6	1,025.1	36.44	29.134		
8,300.0	7,500.0	7,280.0	7,220.0	33.6	17.6	-72.64	495.2	408.0	1,112.5	1,074.7	37.78	29.450		
8,400.0	7,500.0	7,250.0	7,193.8	34.7	17.7	-71.17	509.9	405.9	1,168.8	1,129.8	39.05	29.929		
8,500.0	7,500.0	7,250.0	7,193.8	35.9	17.7	-71.17	509.9	405.9	1,229.9	1,189.4	40.53	30.344		
8,551.9	7,500.0	7,230.4	7,176.3	36.5	17.7	-70.20	518.7	404.6	1,263.2	1,222.1	41.15	30.696		
8,600.0	7,500.0	7,222.5	7,169.3	37.1	17.7	-69.82	522.0	404.0	1,295.1	1,253.3	41.80	30.980		
8,700.0	7,500.0	7,200.0	7,148.7	38.3	17.8	-68.71	531.1	402.4	1,364.2	1,321.1	43.10	31.655		
8,800.0	7,500.0	7,200.0	7,148.7	39.6	17.8	-68.71	531.1	402.4	1,436.4	1,391.8	44.61	32.202		
8,900.0	7,500.0	7,182.4	7,132.4	40.9	17.8	-67.85	537.6	401.1	1,511.5	1,465.6	45.92	32.913		
9,000.0	7,500.0	7,171.6	7,122.3	42.3	17.8	-67.32	541.4	400.3	1,589.1	1,541.8	47.31	33.587		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	7,150.0	7,101.9	43.7	17.9	-66.26	548.3	398.7	1,669.1	1,620.5	48.55	34.378	
9,200.0	7,500.0	7,150.0	7,101.9	45.1	17.9	-66.26	548.3	398.7	1,750.6	1,700.6	50.08	34.960	
9,300.0	7,500.0	7,150.0	7,101.9	46.5	17.9	-66.26	548.3	398.7	1,834.0	1,782.4	51.61	35.537	
9,400.0	7,500.0	7,150.0	7,101.9	48.0	17.9	-66.26	548.3	398.7	1,919.0	1,865.9	53.15	36.108	
9,500.0	7,500.0	7,130.7	7,083.5	49.5	17.9	-65.33	553.8	397.3	2,005.0	1,950.6	54.36	36.882	
9,551.9	7,500.0	7,127.4	7,080.3	50.2	17.9	-65.17	554.7	397.1	2,050.1	1,995.0	55.10	37.207	
9,600.0	7,500.0	7,124.4	7,077.5	51.0	17.9	-65.39	555.5	396.8	2,092.2	2,036.4	55.73	37.544	
9,700.0	7,500.0	7,100.0	7,053.8	52.4	17.9	-65.00	561.4	395.0	2,180.1	2,123.4	56.70	38.448	
9,800.0	7,500.0	7,100.0	7,053.8	53.9	17.9	-65.76	561.4	395.0	2,267.7	2,209.6	58.11	39.027	
9,900.0	7,500.0	7,100.0	7,053.8	55.4	17.9	-66.51	561.4	395.0	2,355.6	2,296.1	59.50	39.590	
10,000.0	7,500.0	7,100.0	7,053.8	56.9	17.9	-67.24	561.4	395.0	2,443.7	2,382.8	60.88	40.139	
10,100.0	7,500.0	7,100.0	7,053.8	58.4	17.9	-67.95	561.4	395.0	2,532.0	2,469.7	62.25	40.675	
10,201.9	7,500.0	7,100.0	7,053.8	60.0	17.9	-68.66	561.4	395.0	2,622.0	2,558.3	63.63	41.209	
10,300.0	7,500.0	7,100.0	7,053.8	61.5	17.9	-68.66	561.4	395.0	2,709.1	2,643.9	65.20	41.553	
10,400.0	7,500.0	7,100.0	7,053.8	63.0	17.9	-68.66	561.4	395.0	2,798.6	2,731.8	66.80	41.897	
10,500.0	7,500.0	7,100.0	7,053.8	64.5	17.9	-68.66	561.4	395.0	2,888.8	2,820.4	68.40	42.234	
10,600.0	7,500.0	7,100.0	7,053.8	66.1	17.9	-68.66	561.4	395.0	2,979.7	2,909.7	70.01	42.562	
10,700.0	7,500.0	7,077.1	7,031.5	67.7	17.9	-67.72	565.9	393.2	3,070.6	2,999.4	71.20	43.126	
10,800.0	7,500.0	7,074.2	7,028.6	69.2	17.9	-67.60	566.4	393.0	3,162.4	3,089.6	72.74	43.473	
10,900.0	7,500.0	7,071.4	7,025.9	70.8	17.9	-67.48	566.9	392.8	3,254.6	3,180.3	74.29	43.810	
11,000.0	7,500.0	7,050.0	7,004.8	72.4	17.9	-66.61	570.2	391.1	3,347.7	3,272.2	75.46	44.366	
11,100.0	7,500.0	7,050.0	7,004.8	74.0	17.9	-66.61	570.2	391.1	3,440.7	3,363.6	77.05	44.656	
11,200.0	7,500.0	7,050.0	7,004.8	75.6	17.9	-66.61	570.2	391.1	3,534.1	3,455.4	78.64	44.938	
11,300.0	7,500.0	7,050.0	7,004.8	77.2	17.9	-66.61	570.2	391.1	3,627.8	3,547.6	80.24	45.213	
11,400.0	7,500.0	7,050.0	7,004.8	78.8	17.9	-66.61	570.2	391.1	3,721.9	3,640.0	81.83	45.480	
11,500.0	7,500.0	7,050.0	7,004.8	80.5	17.9	-66.61	570.2	391.1	3,816.2	3,732.8	83.43	45.741	
11,600.0	7,500.0	7,050.0	7,004.8	82.1	17.9	-66.61	570.2	391.1	3,910.9	3,825.8	85.03	45.994	
11,700.0	7,500.0	7,050.0	7,004.8	83.7	17.9	-66.61	570.2	391.1	4,005.8	3,919.1	86.63	46.240	
11,801.9	7,500.0	7,050.0	7,004.8	85.4	17.9	-66.61	570.2	391.1	4,102.7	4,014.5	88.26	46.484	
11,900.0	7,500.0	7,050.0	7,004.8	87.0	17.9	-65.31	570.2	391.1	4,196.5	4,107.0	89.49	46.892	
12,000.0	7,500.0	7,050.0	7,004.8	88.7	17.9	-63.78	570.2	391.1	4,292.7	4,202.2	90.50	47.432	
12,100.0	7,500.0	7,050.0	7,004.8	90.4	17.9	-62.03	570.2	391.1	4,389.5	4,298.3	91.19	48.134	
12,200.0	7,500.0	7,050.0	7,004.8	92.0	17.9	-59.98	570.2	391.1	4,486.8	4,395.4	91.48	49.048	
12,300.0	7,500.0	7,050.0	7,004.8	93.7	17.9	-57.58	570.2	391.1	4,584.6	4,493.4	91.23	50.254	
12,400.0	7,500.0	7,050.0	7,004.8	95.4	17.9	-54.73	570.2	391.1	4,682.7	4,592.5	90.27	51.875	
12,500.0	7,500.0	7,050.0	7,004.8	97.1	17.9	-51.34	570.2	391.1	4,781.2	4,692.8	88.36	54.111	
12,600.0	7,500.0	7,050.0	7,004.8	98.9	17.9	-47.25	570.2	391.1	4,879.9	4,794.8	85.16	57.302	
12,700.0	7,500.0	7,050.0	7,004.8	100.6	17.9	-42.30	570.2	391.1	4,978.9	4,898.7	80.22	62.063	
12,806.4	7,500.0	7,050.0	7,004.8	102.4	17.9	-35.85	570.2	391.1	5,084.5	5,012.0	72.43	70.196	
12,900.0	7,500.0	7,050.0	7,004.8	104.0	17.9	-35.85	570.2	391.1	5,177.4	5,104.0	73.40	70.537	
13,000.0	7,500.0	7,050.0	7,004.8	105.8	17.9	-35.85	570.2	391.1	5,276.7	5,202.3	74.43	70.892	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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							
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	-89.74	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	
300.0	300.0	300.0	300.0	0.5	0.5	-89.74	0.4	-80.0	80.0	79.0	1.00	79.901	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	-171.96	0.4	-80.0	80.9	79.6	1.35	59.900	
500.0	500.0	500.0	500.0	0.9	0.8	-172.21	0.4	-80.0	83.5	81.8	1.70	49.137	
600.0	599.9	599.9	599.9	1.0	1.0	-172.59	0.4	-80.0	87.8	85.8	2.05	42.893	
700.0	699.7	699.7	699.7	1.2	1.2	-173.06	0.4	-80.0	93.9	91.5	2.40	39.197	
800.0	799.4	799.4	799.4	1.4	1.4	-173.58	0.4	-80.0	101.7	98.9	2.74	37.082	
900.0	898.9	898.9	898.9	1.7	1.5	-174.13	0.4	-80.0	111.2	108.1	3.09	36.016	
1,000.0	998.3	998.3	998.3	1.9	1.7	-174.66	0.4	-80.0	122.5	119.0	3.43	35.683	
1,100.0	1,097.4	1,099.3	1,099.3	2.2	1.9	-174.95	0.9	-79.4	134.8	131.0	3.78	35.669	
1,200.0	1,196.3	1,200.5	1,200.5	2.5	2.1	-174.85	2.6	-77.3	147.4	143.3	4.13	35.728	
1,300.0	1,294.9	1,301.9	1,301.7	2.8	2.3	-174.43	5.4	-73.9	160.4	155.9	4.48	35.834	
1,400.0	1,393.3	1,403.3	1,403.0	3.2	2.4	-173.78	9.3	-69.0	173.6	168.8	4.83	35.967	
1,419.0	1,411.9	1,422.6	1,422.2	3.2	2.5	-173.63	10.2	-67.9	176.2	171.3	4.90	35.991	
1,500.0	1,491.4	1,505.0	1,504.3	3.5	2.6	-172.93	14.3	-62.8	186.7	181.5	5.19	35.948	
1,600.0	1,589.5	1,606.9	1,605.7	3.9	2.9	-171.86	20.6	-55.1	198.4	192.9	5.57	35.618	
1,700.0	1,687.6	1,709.0	1,707.2	4.2	3.1	-170.60	27.9	-46.0	208.9	202.9	5.96	35.027	
1,800.0	1,785.7	1,811.3	1,808.6	4.6	3.3	-169.14	36.4	-35.5	218.1	211.7	6.38	34.206	
1,900.0	1,883.8	1,913.6	1,909.7	5.0	3.6	-167.48	46.1	-23.5	226.2	219.3	6.81	33.191	
2,000.0	1,981.9	2,013.1	2,008.0	5.4	3.9	-165.85	56.0	-11.3	233.8	226.5	7.27	32.179	
2,100.0	2,080.0	2,112.6	2,106.2	5.7	4.2	-164.32	65.8	0.9	241.6	233.9	7.73	31.239	
2,200.0	2,178.1	2,212.1	2,204.5	6.1	4.4	-162.88	75.7	13.1	249.6	241.4	8.22	30.367	
2,300.0	2,276.2	2,311.6	2,302.7	6.5	4.7	-161.54	85.6	25.3	257.7	249.0	8.72	29.557	
2,400.0	2,374.3	2,411.1	2,401.0	6.9	5.0	-160.28	95.5	37.5	266.0	256.7	9.23	28.805	
2,500.0	2,472.3	2,510.6	2,499.2	7.3	5.3	-159.09	105.4	49.7	274.4	264.6	9.76	28.109	
2,600.0	2,570.4	2,610.0	2,597.4	7.6	5.6	-157.97	115.3	61.9	282.8	272.5	10.30	27.464	
2,700.0	2,668.5	2,709.5	2,695.7	8.0	5.9	-156.92	125.1	74.2	291.4	280.6	10.85	26.867	
2,800.0	2,766.6	2,809.0	2,793.9	8.4	6.2	-155.93	135.0	86.4	300.1	288.7	11.41	26.313	
2,900.0	2,864.7	2,908.5	2,892.2	8.8	6.6	-155.00	144.9	98.6	308.9	296.9	11.97	25.800	
3,000.0	2,962.8	3,008.0	2,990.4	9.2	6.9	-154.12	154.8	110.8	317.7	305.2	12.55	25.323	
3,100.0	3,060.9	3,107.5	3,088.7	9.5	7.2	-153.28	164.7	123.0	326.6	313.5	13.13	24.881	
3,200.0	3,159.0	3,207.0	3,186.9	9.9	7.5	-152.49	174.5	135.2	335.6	321.9	13.72	24.470	
3,300.0	3,257.1	3,306.5	3,285.2	10.3	7.8	-151.74	184.4	147.4	344.7	330.4	14.31	24.087	
3,400.0	3,355.2	3,406.0	3,383.4	10.7	8.1	-151.03	194.3	159.6	353.8	338.9	14.91	23.731	
3,500.0	3,453.3	3,505.5	3,481.6	11.1	8.4	-150.36	204.2	171.9	362.9	347.4	15.51	23.398	
3,600.0	3,551.4	3,605.0	3,579.9	11.5	8.8	-149.71	214.1	184.1	372.1	356.0	16.12	23.087	
3,700.0	3,649.5	3,704.5	3,678.1	11.9	9.1	-149.10	224.0	196.3	381.3	364.6	16.73	22.797	
3,800.0	3,747.6	3,804.0	3,776.4	12.2	9.4	-148.52	233.8	208.5	390.6	373.3	17.34	22.524	
3,900.0	3,845.7	3,903.4	3,874.6	12.6	9.7	-147.97	243.7	220.7	399.9	382.0	17.96	22.269	
4,000.0	3,943.8	4,002.9	3,972.9	13.0	10.0	-147.44	253.6	232.9	409.3	390.7	18.58	22.030	
4,100.0	4,041.9	4,102.4	4,071.1	13.4	10.3	-146.93	263.5	245.1	418.7	399.5	19.20	21.804	
4,200.0	4,140.0	4,201.9	4,169.3	13.8	10.7	-146.45	273.4	257.3	428.1	408.3	19.83	21.592	
4,300.0	4,238.1	4,301.4	4,267.6	14.2	11.0	-145.98	283.2	269.6	437.5	417.1	20.45	21.392	
4,400.0	4,336.2	4,400.9	4,365.8	14.5	11.3	-145.54	293.1	281.8	447.0	425.9	21.08	21.204	
4,500.0	4,434.3	4,500.4	4,464.1	14.9	11.6	-145.12	303.0	294.0	456.5	434.8	21.71	21.025	
4,600.0	4,532.4	4,599.9	4,562.3	15.3	11.9	-144.71	312.9	306.2	466.0	443.7	22.34	20.857	
4,700.0	4,630.5	4,699.4	4,660.6	15.7	12.3	-144.32	322.8	318.4	475.6	452.6	22.98	20.697	
4,800.0	4,728.6	4,798.9	4,758.8	16.1	12.6	-143.94	332.7	330.6	485.1	461.5	23.61	20.546	
4,900.0	4,826.7	4,898.4	4,857.1	16.5	12.9	-143.58	342.5	342.8	494.7	470.5	24.25	20.402	
5,000.0	4,924.8	4,997.9	4,955.3	16.9	13.2	-143.23	352.4	355.0	504.3	479.4	24.89	20.265	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,097.3	5,053.5	17.2	13.6	-142.90	362.3	367.2	514.0	488.4	25.52	20.136		
5,200.0	5,121.0	5,196.8	5,151.8	17.6	13.9	-142.58	372.2	379.5	523.6	497.4	26.16	20.012		
5,300.0	5,219.1	5,296.3	5,250.0	18.0	14.2	-142.26	382.1	391.7	533.3	506.4	26.80	19.894		
5,400.0	5,317.2	5,395.8	5,348.3	18.4	14.5	-141.96	392.0	403.9	542.9	515.5	27.45	19.782		
5,500.0	5,415.3	5,495.3	5,446.5	18.8	14.9	-141.68	401.8	416.1	552.6	524.5	28.09	19.675		
5,600.0	5,513.4	5,594.8	5,544.8	19.2	15.2	-141.40	411.7	428.3	562.3	533.6	28.73	19.572		
5,700.0	5,611.5	5,694.3	5,643.0	19.6	15.5	-141.13	421.6	440.5	572.0	542.6	29.37	19.474		
5,800.0	5,709.6	5,793.8	5,741.2	19.9	15.8	-140.87	431.5	452.7	581.7	551.7	30.02	19.380		
5,900.0	5,807.7	5,893.3	5,839.5	20.3	16.1	-140.61	441.4	464.9	591.5	560.8	30.66	19.291		
6,000.0	5,905.8	5,992.8	5,937.7	20.7	16.5	-140.37	451.2	477.2	601.2	569.9	31.31	19.204		
6,100.0	6,003.9	6,092.3	6,036.0	21.1	16.8	-140.13	461.1	489.4	611.0	579.0	31.95	19.122		
6,200.0	6,102.0	6,191.8	6,134.2	21.5	17.1	-139.90	471.0	501.6	620.7	588.1	32.60	19.043		
6,300.0	6,200.1	6,291.2	6,232.5	21.9	17.4	-139.68	480.9	513.8	630.5	597.3	33.24	18.966		
6,400.0	6,298.2	6,390.7	6,330.7	22.3	17.8	-139.47	490.8	526.0	640.3	606.4	33.89	18.893		
6,500.0	6,396.3	6,490.2	6,429.0	22.6	18.1	-139.26	500.7	538.2	650.1	615.6	34.54	18.823		
6,600.0	6,494.4	6,589.7	6,527.2	23.0	18.4	-139.06	510.5	550.4	659.9	624.7	35.18	18.755		
6,700.0	6,592.5	6,689.2	6,625.4	23.4	18.7	-138.86	520.4	562.6	669.7	633.9	35.83	18.690		
6,800.0	6,690.6	6,788.7	6,723.7	23.8	19.1	-138.67	530.3	574.9	679.5	643.0	36.48	18.627		
6,900.0	6,788.7	6,888.2	6,821.9	24.2	19.4	-138.49	540.2	587.1	689.3	652.2	37.13	18.566		
7,000.0	6,886.8	6,987.7	6,920.2	24.6	19.7	-138.31	550.1	599.3	699.2	661.4	37.78	18.508		
7,068.1	6,953.6	7,055.4	6,987.1	24.8	19.9	-138.19	556.8	607.6	705.9	667.7	38.22	18.469		
7,100.0	6,984.9	7,087.2	7,018.5	25.0	20.0	-122.99	560.0	611.5	708.5	670.0	38.52	18.393		
7,150.0	7,033.5	7,137.1	7,067.7	25.2	20.2	-105.21	564.9	617.6	710.7	671.9	38.82	18.306		
7,200.0	7,081.4	7,186.6	7,116.6	25.4	20.4	-94.24	569.8	623.7	710.5	671.6	38.90	18.262 SF		
7,250.0	7,128.3	7,233.0	7,200.8	25.6	20.7	-91.66	563.4	645.7	704.2	666.5	37.74	18.661		
7,300.0	7,173.7	7,279.4	7,200.1	25.8	20.7	-94.34	527.0	663.9	689.9	654.7	35.23	19.583		
7,350.0	7,217.2	7,322.2	7,246.4	26.1	20.6	-98.12	491.1	675.5	672.4	639.5	32.87	20.456		
7,400.0	7,258.7	7,363.7	7,287.7	26.3	20.5	-101.23	465.6	682.3	654.8	623.5	31.27	20.939		
7,450.0	7,297.7	7,402.7	7,326.7	26.6	20.5	-103.26	450.0	686.1	639.1	608.7	30.41	21.019		
7,500.0	7,334.0	7,439.0	7,363.0	26.9	20.5	-104.27	442.0	688.0	626.4	596.3	30.08	20.825		
7,550.0	7,367.2	7,472.2	7,396.2	27.2	20.5	-104.41	439.5	688.5	617.3	587.2	30.14	20.481		
7,600.0	7,397.2	7,502.2	7,426.2	27.5	20.5	-103.82	440.9	688.2	612.2	581.7	30.50	20.072		
7,638.4	7,417.9	7,522.9	7,446.9	27.8	20.5	-102.94	443.9	687.5	611.0	580.1	30.94	19.749		
7,650.0	7,423.7	7,528.7	7,452.7	27.8	20.5	-102.61	445.0	687.3	611.1	580.0	31.09	19.657		
7,700.0	7,446.5	7,551.5	7,475.5	28.2	20.5	-100.87	451.1	685.9	614.0	582.2	31.84	19.284		
7,750.0	7,465.4	7,570.4	7,494.4	28.6	20.5	-98.68	458.5	684.1	620.6	587.9	32.68	18.994		
7,800.0	7,480.4	7,585.4	7,509.4	29.0	20.5	-95.87	468.3	681.7	630.6	597.1	33.54	18.804		
7,850.0	7,491.1	7,596.1	7,515.1	29.3	20.6	-93.24	475.5	679.8	643.5	609.3	34.20	18.816		
7,900.0	7,497.7	7,602.7	7,526.7	29.8	20.6	-90.14	484.5	677.4	659.0	624.3	34.70	18.992		
7,951.9	7,500.0	7,605.0	7,529.0	30.2	20.6	-86.58	495.3	674.3	677.1	642.2	34.91	19.396		
8,000.0	7,500.0	7,605.0	7,529.0	30.6	20.6	-85.51	502.1	672.3	695.9	660.3	35.54	19.578		
8,100.0	7,500.0	7,610.0	7,534.0	31.5	20.7	-82.73	518.5	667.0	742.0	705.2	36.84	20.139		
8,200.0	7,500.0	7,615.0	7,539.0	32.5	20.7	-81.36	525.8	664.4	796.5	758.3	38.20	20.851		
8,300.0	7,500.0	7,620.0	7,544.0	33.6	20.7	-78.87	537.8	659.6	858.4	818.9	39.46	21.751		
8,400.0	7,500.0	7,625.0	7,549.0	34.7	20.7	-78.87	537.8	659.6	926.0	885.0	40.97	22.602		
8,500.0	7,500.0	7,630.0	7,554.0	35.9	20.7	-77.35	544.3	656.8	998.5	956.2	42.31	23.602		
8,551.9	7,500.0	7,635.0	7,559.0	36.5	20.7	-76.83	546.4	655.8	1,037.8	994.8	43.03	24.117		
8,600.0	7,500.0	7,640.0	7,564.0	37.1	20.7	-76.38	548.2	654.9	1,075.1	1,031.4	43.71	24.597		
8,700.0	7,500.0	7,645.0	7,569.0	38.3	20.7	-75.06	553.0	652.4	1,155.1	1,110.0	45.05	25.638		
8,800.0	7,500.0	7,650.0	7,574.0	39.6	20.7	-75.06	553.0	652.4	1,237.6	1,191.0	46.62	26.549		
8,900.0	7,500.0	7,655.0	7,579.0	40.9	20.7	-75.06	553.0	652.4	1,322.6	1,274.4	48.19	27.444		
9,000.0	7,500.0	7,660.0	7,584.0	42.3	20.7	-73.58	557.8	649.6	1,409.1	1,359.6	49.47	28.484		

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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				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	7,373.2	7,300.4	43.7	20.7	-73.07	559.4	648.6	1,497.3	1,446.4	50.94	29.395	
9,200.0	7,500.0	7,350.0	7,277.9	45.1	20.7	-71.37	564.0	645.3	1,587.2	1,535.1	52.10	30.465	
9,300.0	7,500.0	7,350.0	7,277.9	46.5	20.7	-71.37	564.0	645.3	1,677.6	1,623.9	53.68	31.251	
9,400.0	7,500.0	7,350.0	7,277.9	48.0	20.7	-71.37	564.0	645.3	1,769.1	1,713.8	55.27	32.007	
9,500.0	7,500.0	7,350.0	7,277.9	49.5	20.7	-71.37	564.0	645.3	1,861.5	1,804.6	56.87	32.733	
9,551.9	7,500.0	7,350.0	7,277.9	50.2	20.7	-71.37	564.0	645.3	1,909.7	1,852.0	57.70	33.097	
9,600.0	7,500.0	7,350.0	7,277.9	51.0	20.7	-71.76	564.0	645.3	1,954.5	1,896.2	58.36	33.493	
9,700.0	7,500.0	7,350.0	7,277.9	52.4	20.7	-72.55	564.0	645.3	2,047.7	1,988.0	59.71	34.297	
9,800.0	7,500.0	7,350.0	7,277.9	53.9	20.7	-73.31	564.0	645.3	2,141.0	2,079.9	61.04	35.075	
9,900.0	7,500.0	7,350.0	7,277.9	55.4	20.7	-74.03	564.0	645.3	2,234.2	2,171.9	62.35	35.831	
10,000.0	7,500.0	7,350.0	7,277.9	56.9	20.7	-74.73	564.0	645.3	2,327.4	2,263.8	63.65	36.566	
10,100.0	7,500.0	7,329.4	7,257.7	58.4	20.6	-74.17	567.3	642.4	2,420.2	2,355.6	64.58	37.476	
10,201.9	7,500.0	7,326.3	7,254.7	60.0	20.6	-74.69	567.7	642.0	2,514.9	2,449.1	65.83	38.203	
10,300.0	7,500.0	7,323.6	7,252.0	61.5	20.6	-74.53	568.0	641.6	2,606.3	2,538.9	67.41	38.666	
10,400.0	7,500.0	7,320.9	7,249.4	63.0	20.6	-74.38	568.4	641.2	2,700.0	2,631.0	69.02	39.121	
10,500.0	7,500.0	7,300.0	7,228.8	64.5	20.6	-73.22	570.7	638.4	2,794.4	2,724.1	70.29	39.758	
10,600.0	7,500.0	7,300.0	7,228.8	66.1	20.6	-73.22	570.7	638.4	2,888.8	2,816.9	71.94	40.158	
10,700.0	7,500.0	7,300.0	7,228.8	67.7	20.6	-73.22	570.7	638.4	2,983.5	2,909.9	73.59	40.543	
10,800.0	7,500.0	7,300.0	7,228.8	69.2	20.6	-73.22	570.7	638.4	3,078.6	3,003.4	75.24	40.915	
10,900.0	7,500.0	7,300.0	7,228.8	70.8	20.6	-73.22	570.7	638.4	3,174.0	3,097.1	76.90	41.274	
11,000.0	7,500.0	7,300.0	7,228.8	72.4	20.6	-73.22	570.7	638.4	3,269.7	3,191.1	78.56	41.621	
11,100.0	7,500.0	7,300.0	7,228.8	74.0	20.6	-73.22	570.7	638.4	3,365.6	3,285.3	80.22	41.955	
11,200.0	7,500.0	7,300.0	7,228.8	75.6	20.6	-73.22	570.7	638.4	3,461.7	3,379.8	81.88	42.278	
11,300.0	7,500.0	7,300.0	7,228.8	77.2	20.6	-73.22	570.7	638.4	3,558.1	3,474.5	83.54	42.590	
11,400.0	7,500.0	7,300.0	7,228.8	78.8	20.6	-73.22	570.7	638.4	3,654.6	3,569.4	85.21	42.892	
11,500.0	7,500.0	7,300.0	7,228.8	80.5	20.6	-73.22	570.7	638.4	3,751.3	3,664.5	86.87	43.183	
11,600.0	7,500.0	7,300.0	7,228.8	82.1	20.6	-73.22	570.7	638.4	3,848.2	3,759.7	88.54	43.465	
11,700.0	7,500.0	7,300.0	7,228.8	83.7	20.6	-73.22	570.7	638.4	3,945.3	3,855.1	90.20	43.738	
11,801.9	7,500.0	7,300.0	7,228.8	85.4	20.6	-73.22	570.7	638.4	4,044.3	3,952.4	91.90	44.006	
11,900.0	7,500.0	7,300.0	7,228.8	87.0	20.6	-71.92	570.7	638.4	4,140.0	4,046.5	93.48	44.289	
12,000.0	7,500.0	7,300.0	7,228.8	88.7	20.6	-70.34	570.7	638.4	4,238.0	4,143.1	94.84	44.686	
12,100.0	7,500.0	7,300.0	7,228.8	90.4	20.6	-68.42	570.7	638.4	4,336.3	4,240.5	95.86	45.238	
12,200.0	7,500.0	7,300.0	7,228.8	92.0	20.6	-66.03	570.7	638.4	4,435.0	4,338.7	96.37	46.019	
12,300.0	7,500.0	7,300.0	7,228.8	93.7	20.6	-63.01	570.7	638.4	4,534.0	4,437.9	96.14	47.158	
12,400.0	7,500.0	7,300.0	7,228.8	95.4	20.6	-59.10	570.7	638.4	4,633.3	4,538.5	94.74	48.906	
12,500.0	7,500.0	7,300.0	7,228.8	97.1	20.6	-53.90	570.7	638.4	4,732.7	4,641.3	91.41	51.775	
12,600.0	7,500.0	7,300.0	7,228.8	98.9	20.6	-46.79	570.7	638.4	4,832.3	4,747.5	84.85	56.952	
12,700.0	7,500.0	7,300.0	7,228.8	100.6	20.6	-36.91	570.7	638.4	4,932.0	4,859.1	72.91	67.650	
12,806.4	7,500.0	7,300.0	7,228.8	102.4	20.6	-22.31	570.7	638.4	5,038.2	4,986.5	51.71	97.425	
12,900.0	7,500.0	7,300.0	7,228.8	104.0	20.6	-22.31	570.7	638.4	5,131.7	5,079.3	52.35	98.018	
13,000.0	7,500.0	7,300.0	7,228.8	105.8	20.6	-22.31	570.7	638.4	5,231.5	5,178.5	53.04	98.635	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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							
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	-89.70	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	
300.0	300.0	300.0	300.0	0.5	0.5	-89.70	0.4	-70.0	70.0	69.0	1.00	69.844 CC	
400.0	400.0	401.1	401.1	0.7	0.7	-171.63	0.7	-69.2	70.0	68.7	1.35	51.764	
500.0	500.0	502.2	502.2	0.9	0.9	-171.05	1.8	-66.7	70.2	68.5	1.70	41.193	
600.0	599.9	603.4	603.2	1.0	1.0	-170.08	3.6	-62.6	70.5	68.5	2.06	34.279 ES	
700.0	699.7	704.5	704.1	1.2	1.2	-168.73	6.1	-56.9	71.0	68.6	2.41	29.418	
800.0	799.4	805.6	804.9	1.4	1.5	-167.04	9.4	-49.6	71.7	68.9	2.78	25.823	
900.0	898.9	906.6	905.5	1.7	1.7	-165.01	13.3	-40.6	72.6	69.4	3.15	23.059	
1,000.0	998.3	1,007.7	1,005.9	1.9	1.9	-162.68	18.0	-30.1	73.8	70.2	3.54	20.864	
1,100.0	1,097.4	1,108.7	1,106.0	2.2	2.2	-160.09	23.4	-17.9	75.3	71.3	3.95	19.071	
1,200.0	1,196.3	1,209.7	1,205.8	2.5	2.5	-157.28	29.5	-4.1	77.2	72.8	4.39	17.566	
1,300.0	1,294.9	1,310.6	1,305.4	2.8	2.8	-154.32	36.3	11.3	79.5	74.6	4.88	16.275	
1,400.0	1,393.3	1,411.5	1,404.6	3.2	3.2	-151.24	43.8	28.3	82.2	76.8	5.43	15.148	
1,419.0	1,411.9	1,430.7	1,423.3	3.2	3.3	-150.65	45.3	31.7	82.8	77.3	5.54	14.950	
1,500.0	1,491.4	1,512.1	1,503.1	3.5	3.6	-147.97	52.0	46.8	85.1	79.0	6.04	14.083	
1,600.0	1,589.5	1,611.9	1,600.8	3.9	3.9	-144.73	60.3	65.5	87.9	81.2	6.70	13.118	
1,700.0	1,687.6	1,711.8	1,698.5	4.2	4.3	-141.70	68.6	84.3	91.0	83.6	7.40	12.298	
1,800.0	1,785.7	1,811.6	1,796.2	4.6	4.7	-138.87	76.9	103.0	94.4	86.2	8.13	11.605	
1,900.0	1,883.8	1,911.5	1,894.0	5.0	5.1	-136.25	85.1	121.7	97.9	89.0	8.89	11.019	
2,000.0	1,981.9	2,011.3	1,991.7	5.4	5.5	-133.81	93.4	140.5	101.7	92.0	9.66	10.523	
2,100.0	2,080.0	2,111.1	2,089.4	5.7	5.9	-131.55	101.7	159.2	105.6	95.1	10.45	10.102	
2,200.0	2,178.1	2,211.0	2,187.1	6.1	6.3	-129.45	110.0	177.9	109.6	98.4	11.25	9.744	
2,300.0	2,276.2	2,310.8	2,284.8	6.5	6.7	-127.50	118.3	196.7	113.8	101.8	12.06	9.439	
2,400.0	2,374.3	2,410.7	2,382.5	6.9	7.1	-125.70	126.6	215.4	118.2	105.3	12.88	9.178	
2,500.0	2,472.3	2,510.5	2,480.3	7.3	7.5	-124.02	134.8	234.1	122.6	108.9	13.69	8.953	
2,600.0	2,570.4	2,610.3	2,578.0	7.6	7.9	-122.47	143.1	252.9	127.1	112.6	14.52	8.759	
2,700.0	2,668.5	2,710.2	2,675.7	8.0	8.3	-121.02	151.4	271.6	131.8	116.4	15.34	8.590	
2,800.0	2,766.6	2,810.0	2,773.4	8.4	8.7	-119.67	159.7	290.4	136.5	120.3	16.16	8.444	
2,900.0	2,864.7	2,909.9	2,871.1	8.8	9.1	-118.41	168.0	309.1	141.2	124.2	16.98	8.315	
3,000.0	2,962.8	3,009.7	2,968.8	9.2	9.5	-117.23	176.3	327.8	146.1	128.3	17.81	8.203	
3,100.0	3,060.9	3,109.5	3,066.5	9.5	9.9	-116.13	184.6	346.6	150.9	132.3	18.63	8.104	
3,200.0	3,159.0	3,209.4	3,164.3	9.9	10.3	-115.10	192.8	365.3	155.9	136.4	19.45	8.017	
3,300.0	3,257.1	3,309.2	3,262.0	10.3	10.7	-114.13	201.1	384.0	160.9	140.6	20.26	7.939	
3,400.0	3,355.2	3,409.1	3,359.7	10.7	11.1	-113.22	209.4	402.8	165.9	144.8	21.08	7.870	
3,500.0	3,453.3	3,508.9	3,457.4	11.1	11.5	-112.36	217.7	421.5	171.0	149.1	21.90	7.809	
3,600.0	3,551.4	3,608.7	3,555.1	11.5	11.9	-111.55	226.0	440.2	176.1	153.4	22.71	7.754	
3,700.0	3,649.5	3,708.6	3,652.8	11.9	12.3	-110.79	234.3	459.0	181.2	157.7	23.52	7.705	
3,800.0	3,747.6	3,808.4	3,750.6	12.2	12.7	-110.07	242.6	477.7	186.4	162.1	24.33	7.661	
3,900.0	3,845.7	3,908.3	3,848.3	12.6	13.1	-109.39	250.8	496.4	191.6	166.5	25.14	7.621	
4,000.0	3,943.8	4,008.1	3,946.0	13.0	13.5	-108.75	259.1	515.2	196.8	170.9	25.95	7.585	
4,100.0	4,041.9	4,107.9	4,043.7	13.4	13.9	-108.14	267.4	533.9	202.1	175.3	26.76	7.553	
4,200.0	4,140.0	4,207.8	4,141.4	13.8	14.3	-107.56	275.7	552.7	207.4	179.8	27.56	7.524	
4,300.0	4,238.1	4,307.6	4,239.1	14.2	14.7	-107.01	284.0	571.4	212.6	184.3	28.36	7.497	
4,400.0	4,336.2	4,407.5	4,336.8	14.5	15.1	-106.48	292.3	590.1	218.0	188.8	29.17	7.473	
4,500.0	4,434.3	4,507.3	4,434.6	14.9	15.5	-105.99	300.6	608.9	223.3	193.3	29.97	7.451	
4,600.0	4,532.4	4,607.1	4,532.3	15.3	15.9	-105.51	308.8	627.6	228.6	197.9	30.77	7.431	
4,700.0	4,630.5	4,707.0	4,630.0	15.7	16.3	-105.06	317.1	646.3	234.0	202.4	31.56	7.413	
4,800.0	4,728.6	4,806.8	4,727.7	16.1	16.7	-104.62	325.4	665.1	239.3	207.0	32.36	7.396	
4,900.0	4,826.7	4,906.7	4,825.4	16.5	17.1	-104.21	333.7	683.8	244.7	211.6	33.16	7.381	
5,000.0	4,924.8	5,006.5	4,923.1	16.9	17.5	-103.81	342.0	702.5	250.1	216.2	33.95	7.367	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	5,022.9	5,106.3	5,020.9	17.2	17.9	-103.43	350.3	721.3	255.5	220.8	34.75	7.354	
5,200.0	5,121.0	5,206.2	5,118.6	17.6	18.3	-103.07	358.5	740.0	261.0	225.4	35.54	7.342	
5,300.0	5,219.1	5,306.0	5,216.3	18.0	18.7	-102.72	366.8	758.7	266.4	230.1	36.33	7.331	
5,400.0	5,317.2	5,405.9	5,314.0	18.4	19.1	-102.38	375.1	777.5	271.8	234.7	37.13	7.322	
5,500.0	5,415.3	5,505.7	5,411.7	18.8	19.5	-102.06	383.4	796.2	277.3	239.4	37.92	7.312	
5,600.0	5,513.4	5,605.5	5,509.4	19.2	19.9	-101.75	391.7	814.9	282.7	244.0	38.71	7.304	
5,700.0	5,611.5	5,705.4	5,607.1	19.6	20.3	-101.45	400.0	833.7	288.2	248.7	39.50	7.296	
5,800.0	5,709.6	5,805.2	5,704.9	19.9	20.7	-101.16	408.3	852.4	293.7	253.4	40.29	7.289	
5,900.0	5,807.7	5,905.0	5,802.6	20.3	21.1	-100.89	416.5	871.2	299.1	258.1	41.08	7.283	
6,000.0	5,905.8	6,004.9	5,900.3	20.7	21.5	-100.62	424.8	889.9	304.6	262.8	41.86	7.277	
6,100.0	6,003.9	6,104.7	5,998.0	21.1	21.9	-100.36	433.1	908.6	310.1	267.5	42.65	7.271	
6,200.0	6,102.0	6,204.6	6,095.7	21.5	22.3	-100.11	441.4	927.4	315.6	272.2	43.44	7.266	
6,300.0	6,200.1	6,304.4	6,193.4	21.9	22.7	-99.87	449.7	946.1	321.1	276.9	44.22	7.261	
6,400.0	6,298.2	6,404.2	6,291.2	22.3	23.1	-99.64	458.0	964.8	326.6	281.6	45.01	7.257	
6,500.0	6,396.3	6,504.1	6,388.9	22.6	23.5	-99.42	466.3	983.6	332.1	286.3	45.80	7.253	
6,600.0	6,494.4	6,603.9	6,486.6	23.0	23.9	-99.20	474.5	1,002.3	337.7	291.1	46.58	7.249	
6,700.0	6,592.5	6,703.8	6,584.3	23.4	24.3	-98.99	482.8	1,021.0	343.2	295.8	47.37	7.245	
6,800.0	6,690.6	6,803.6	6,682.0	23.8	24.7	-98.79	491.1	1,039.8	348.7	300.6	48.15	7.242	
6,900.0	6,788.7	6,903.4	6,779.7	24.2	25.1	-98.59	499.4	1,058.5	354.2	305.3	48.93	7.239	
7,000.0	6,886.8	7,003.3	6,877.4	24.6	25.5	-98.40	507.7	1,077.2	359.8	310.1	49.72	7.237	
7,068.1	6,953.6	7,153.9	7,024.9	24.8	26.0	-98.85	503.8	1,105.5	357.2	306.8	50.48	7.077	
7,100.0	6,984.9	7,229.0	7,096.8	25.0	26.1	-85.21	487.3	1,119.3	348.9	298.2	50.74	6.876	
7,150.0	7,033.5	7,329.3	7,188.3	25.2	26.3	-71.48	450.6	1,136.8	326.0	275.5	50.54	6.450	
7,200.0	7,081.4	7,404.8	7,252.3	25.4	26.3	-67.12	412.5	1,149.1	294.1	244.9	49.21	5.976	
7,250.0	7,128.3	7,458.0	7,294.2	25.6	26.3	-70.61	380.7	1,157.2	256.6	210.5	46.10	5.566	
7,300.0	7,173.7	7,493.8	7,320.6	25.8	26.3	-80.08	357.2	1,162.2	216.4	175.6	40.78	5.307	
7,350.0	7,217.2	7,516.4	7,336.6	26.1	26.3	-91.83	341.5	1,165.3	176.2	141.5	34.66	5.084	
7,400.0	7,258.7	7,529.5	7,345.6	26.3	26.3	-101.20	332.1	1,167.0	139.5	109.0	30.47	4.577	
7,450.0	7,297.7	7,535.4	7,349.5	26.6	26.3	-105.84	327.8	1,167.8	112.1	83.3	28.81	3.892	
7,494.3	7,330.0	7,536.1	7,350.0	26.9	26.3	-105.88	327.2	1,167.9	103.0	74.3	28.76	3.582	
7,500.0	7,334.0	7,536.0	7,349.9	26.9	26.3	-105.63	327.4	1,167.8	103.2	74.4	28.83	3.580 SF	
7,550.0	7,367.2	7,532.5	7,347.6	27.2	26.3	-101.07	329.9	1,167.4	117.1	87.0	30.03	3.898	
7,600.0	7,397.2	7,525.8	7,343.1	27.5	26.3	-92.79	334.7	1,166.5	147.1	115.0	32.10	4.583	
7,650.0	7,423.7	7,516.7	7,336.8	27.8	26.3	-81.88	341.3	1,165.3	185.1	151.0	34.11	5.426	
7,700.0	7,446.5	7,500.0	7,325.1	28.2	26.3	-68.00	353.0	1,163.1	226.5	191.5	34.96	6.479	
7,750.0	7,465.4	7,500.0	7,325.1	28.6	26.3	-61.15	353.0	1,163.1	269.0	235.2	33.82	7.954	
7,800.0	7,480.4	7,478.9	7,309.8	29.0	26.3	-50.05	367.2	1,160.1	311.4	280.2	31.21	9.979	
7,850.0	7,491.1	7,463.8	7,298.6	29.3	26.3	-42.97	377.1	1,158.0	353.4	325.4	28.00	12.623	
7,900.0	7,497.7	7,450.0	7,288.1	29.8	26.3	-37.79	385.8	1,156.0	394.5	369.7	24.76	15.935	
7,951.9	7,500.0	7,430.4	7,272.8	30.2	26.3	-33.39	397.8	1,153.1	435.8	414.1	21.66	20.116	
8,000.0	7,500.0	7,414.5	7,260.2	30.6	26.3	-32.41	407.0	1,150.6	473.8	452.0	21.76	21.778	
8,100.0	7,500.0	7,385.2	7,236.2	31.5	26.3	-30.76	423.3	1,146.0	555.6	533.5	22.03	25.218	
8,200.0	7,500.0	7,350.0	7,206.4	32.5	26.3	-29.02	441.0	1,140.3	640.4	618.2	22.23	28.808	
8,300.0	7,500.0	7,350.0	7,206.4	33.6	26.3	-29.02	441.0	1,140.3	727.5	704.5	22.98	31.652	
8,400.0	7,500.0	7,319.1	7,179.4	34.7	26.2	-27.68	455.0	1,135.1	816.1	792.8	23.25	35.106	
8,500.0	7,500.0	7,300.0	7,162.3	35.9	26.2	-26.92	463.0	1,131.9	906.4	882.7	23.69	38.255	
8,551.9	7,500.0	7,300.0	7,162.3	36.5	26.2	-26.92	463.0	1,131.9	953.8	929.7	24.07	39.619	
8,600.0	7,500.0	7,300.0	7,162.3	37.1	26.2	-26.92	463.0	1,131.9	998.1	973.7	24.43	40.857	
8,700.0	7,500.0	7,274.6	7,139.2	38.3	26.2	-26.01	472.6	1,127.4	1,090.4	1,065.7	24.76	44.034	
8,800.0	7,500.0	7,250.0	7,116.5	39.6	26.2	-25.20	480.9	1,123.1	1,184.0	1,158.9	25.11	47.150	
8,900.0	7,500.0	7,250.0	7,116.5	40.9	26.2	-25.20	480.9	1,123.1	1,277.9	1,252.1	25.82	49.484	
9,000.0	7,500.0	7,250.0	7,116.5	42.3	26.2	-25.20	480.9	1,123.1	1,372.6	1,346.1	26.54	51.717	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	7,250.0	7,116.5	43.7	26.2	-25.20	480.9	1,123.1	1,468.1	1,440.8	27.26	53.850		
9,200.0	7,500.0	7,226.5	7,094.5	45.1	26.1	-24.49	488.0	1,118.9	1,563.4	1,535.8	27.58	56.680		
9,300.0	7,500.0	7,219.4	7,087.7	46.5	26.1	-24.29	489.9	1,117.6	1,659.5	1,631.3	28.17	58.905		
9,400.0	7,500.0	7,200.0	7,069.3	48.0	26.1	-23.76	494.8	1,114.0	1,756.0	1,727.5	28.55	61.502		
9,500.0	7,500.0	7,200.0	7,069.3	49.5	26.1	-23.76	494.8	1,114.0	1,852.6	1,823.3	29.25	63.338		
9,551.9	7,500.0	7,200.0	7,069.3	50.2	26.1	-23.76	494.8	1,114.0	1,902.8	1,873.2	29.61	64.260		
9,600.0	7,500.0	7,200.0	7,069.3	51.0	26.1	-25.48	494.8	1,114.0	1,949.4	1,918.4	31.00	62.884		
9,700.0	7,500.0	7,200.0	7,069.3	52.4	26.1	-29.04	494.8	1,114.0	2,046.4	2,012.5	34.00	60.197		
9,800.0	7,500.0	7,200.0	7,069.3	53.9	26.1	-32.52	494.8	1,114.0	2,143.5	2,106.5	37.07	57.825		
9,900.0	7,500.0	7,200.0	7,069.3	55.4	26.1	-35.90	494.8	1,114.0	2,240.7	2,200.5	40.15	55.805		
10,000.0	7,500.0	7,200.0	7,069.3	56.9	26.1	-39.15	494.8	1,114.0	2,337.8	2,294.6	43.19	54.131		
10,100.0	7,500.0	7,178.0	7,048.2	58.4	26.1	-41.14	499.5	1,110.0	2,434.4	2,389.1	45.35	53.684		
10,201.9	7,500.0	7,173.9	7,044.3	60.0	26.0	-43.87	500.3	1,109.2	2,533.1	2,485.1	48.08	52.690		
10,300.0	7,500.0	7,150.0	7,021.1	61.5	26.0	-42.71	504.4	1,104.8	2,628.7	2,580.3	48.39	54.320		
10,400.0	7,500.0	7,150.0	7,021.1	63.0	26.0	-42.71	504.4	1,104.8	2,725.7	2,676.1	49.57	54.991		
10,500.0	7,500.0	7,150.0	7,021.1	64.5	26.0	-42.71	504.4	1,104.8	2,822.9	2,772.1	50.74	55.633		
10,600.0	7,500.0	7,150.0	7,021.1	66.1	26.0	-42.71	504.4	1,104.8	2,920.2	2,868.3	51.92	56.248		
10,700.0	7,500.0	7,150.0	7,021.1	67.7	26.0	-42.71	504.4	1,104.8	3,017.8	2,964.7	53.10	56.837		
10,800.0	7,500.0	7,150.0	7,021.1	69.2	26.0	-42.71	504.4	1,104.8	3,115.5	3,061.2	54.28	57.401		
10,900.0	7,500.0	7,150.0	7,021.1	70.8	26.0	-42.71	504.4	1,104.8	3,213.4	3,157.9	55.46	57.943		
11,000.0	7,500.0	7,150.0	7,021.1	72.4	26.0	-42.71	504.4	1,104.8	3,311.4	3,254.7	56.64	58.464		
11,100.0	7,500.0	7,150.0	7,021.1	74.0	26.0	-42.71	504.4	1,104.8	3,409.5	3,351.6	57.82	58.963		
11,200.0	7,500.0	7,150.0	7,021.1	75.6	26.0	-42.71	504.4	1,104.8	3,507.7	3,448.7	59.01	59.444		
11,300.0	7,500.0	7,150.0	7,021.1	77.2	26.0	-42.71	504.4	1,104.8	3,606.0	3,545.8	60.19	59.906		
11,400.0	7,500.0	7,150.0	7,021.1	78.8	26.0	-42.71	504.4	1,104.8	3,704.4	3,643.0	61.38	60.352		
11,500.0	7,500.0	7,150.0	7,021.1	80.5	26.0	-42.71	504.4	1,104.8	3,802.9	3,740.3	62.57	60.780		
11,600.0	7,500.0	7,150.0	7,021.1	82.1	26.0	-42.71	504.4	1,104.8	3,901.4	3,837.7	63.76	61.193		
11,700.0	7,500.0	7,150.0	7,021.1	83.7	26.0	-42.71	504.4	1,104.8	4,000.0	3,935.1	64.94	61.592		
11,801.9	7,500.0	7,150.0	7,021.1	85.4	26.0	-42.71	504.4	1,104.8	4,100.6	4,034.5	66.16	61.984		
11,900.0	7,500.0	7,150.0	7,021.1	87.0	26.0	-37.83	504.4	1,104.8	4,197.6	4,135.4	62.19	67.498		
12,000.0	7,500.0	7,150.0	7,021.1	88.7	26.0	-31.94	504.4	1,104.8	4,296.6	4,240.2	56.39	76.189		
12,100.0	7,500.0	7,150.0	7,021.1	90.4	26.0	-24.99	504.4	1,104.8	4,395.8	4,347.2	48.62	90.404		
12,200.0	7,500.0	7,127.0	6,998.8	92.0	25.9	-16.70	507.3	1,100.5	4,494.6	4,455.8	38.82	115.795		
12,300.0	7,500.0	7,125.8	6,997.5	93.7	25.9	-8.13	507.5	1,100.3	4,594.0	4,564.0	30.03	152.983		
12,400.0	7,500.0	7,124.6	6,996.4	95.4	25.9	0.98	507.6	1,100.0	4,693.4	4,666.6	26.80	175.144		
12,500.0	7,500.0	7,123.5	6,995.3	97.1	25.9	10.19	507.7	1,099.8	4,792.8	4,759.0	33.84	141.650		
12,600.0	7,500.0	7,122.5	6,994.3	98.9	25.9	19.04	507.8	1,099.6	4,892.3	4,846.0	46.26	105.766		
12,700.0	7,500.0	7,100.0	6,972.3	100.6	25.9	25.87	509.7	1,095.4	4,992.1	4,934.7	57.38	87.002		
12,806.4	7,500.0	7,100.0	6,972.3	102.4	25.9	33.47	509.7	1,095.4	5,097.7	5,027.6	70.14	72.675		
12,900.0	7,500.0	7,100.0	6,972.3	104.0	25.9	33.47	509.7	1,095.4	5,190.6	5,119.5	71.05	73.052		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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						
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	-89.65	0.4	-60.2	60.2				
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.4	-60.2	60.2	59.9	0.30	198.148	
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.4	-60.2	60.2	59.5	0.65	92.187	
300.0	300.0	301.0	301.0	0.5	0.5	-89.36	0.7	-59.3	59.3	58.3	1.00	59.089	
400.0	400.0	401.9	401.9	0.7	0.7	-170.73	1.5	-56.8	57.7	56.4	1.36	42.600	
500.0	500.0	502.9	502.7	0.9	0.9	-169.59	3.0	-52.6	56.2	54.5	1.71	32.906	
600.0	599.9	603.7	603.4	1.0	1.1	-168.03	5.0	-46.7	54.8	52.7	2.06	26.550	
700.0	699.7	704.6	703.9	1.2	1.3	-166.05	7.6	-39.2	53.5	51.1	2.42	22.072	
800.0	799.4	805.4	804.3	1.4	1.5	-163.61	10.8	-30.0	52.4	49.6	2.79	18.755	
900.0	898.9	906.2	904.4	1.7	1.8	-160.72	14.5	-19.1	51.5	48.3	3.18	16.201	
1,000.0	998.3	1,006.9	1,004.2	1.9	2.1	-157.40	18.8	-6.5	50.9	47.3	3.59	14.174	
1,100.0	1,097.4	1,107.5	1,103.8	2.2	2.4	-153.67	23.7	7.6	50.6	46.6	4.04	12.526	
1,116.4	1,113.6	1,124.0	1,120.0	2.2	2.4	-153.02	24.6	10.1	50.6	46.5	4.12	12.282 CC	
1,200.0	1,196.3	1,208.2	1,203.0	2.5	2.7	-149.60	29.2	23.5	50.8	46.2	4.55	11.161 ES	
1,300.0	1,294.9	1,308.7	1,301.8	2.8	3.1	-145.28	35.2	40.9	51.4	46.3	5.13	10.019	
1,400.0	1,393.3	1,409.3	1,400.3	3.2	3.4	-140.81	41.8	60.0	52.5	46.7	5.79	9.063	
1,419.0	1,411.9	1,428.3	1,419.0	3.2	3.5	-139.96	43.1	63.8	52.8	46.8	5.93	8.900	
1,500.0	1,491.4	1,509.7	1,498.3	3.5	3.9	-135.90	48.9	80.7	53.8	47.2	6.56	8.196	
1,600.0	1,589.5	1,610.0	1,595.8	3.9	4.3	-129.71	56.6	103.0	54.5	47.1	7.45	7.317	
1,700.0	1,687.6	1,709.8	1,692.6	4.2	4.7	-123.18	64.4	125.8	55.7	47.3	8.42	6.616	
1,800.0	1,785.7	1,809.6	1,789.5	4.6	5.2	-116.98	72.3	148.5	57.5	48.1	9.40	6.123	
1,900.0	1,883.8	1,909.4	1,886.3	5.0	5.6	-111.24	80.1	171.3	60.0	49.6	10.36	5.789	
2,000.0	1,981.9	2,009.2	1,983.2	5.4	6.1	-105.99	88.0	194.0	63.0	51.7	11.30	5.577	
2,100.0	2,080.0	2,109.0	2,080.0	5.7	6.5	-101.26	95.8	216.8	66.5	54.3	12.20	5.453	
2,200.0	2,178.1	2,208.8	2,176.9	6.1	7.0	-97.03	103.6	239.5	70.4	57.4	13.06	5.393	
2,300.0	2,276.2	2,308.5	2,273.7	6.5	7.4	-93.26	111.5	262.3	74.7	60.8	13.88	5.381 SF	
2,400.0	2,374.3	2,408.3	2,370.6	6.9	7.9	-89.91	119.3	285.0	79.2	64.6	14.67	5.403	
2,500.0	2,472.3	2,508.1	2,467.4	7.3	8.4	-86.93	127.2	307.8	84.0	68.6	15.42	5.448	
2,600.0	2,570.4	2,607.9	2,564.3	7.6	8.8	-84.28	135.0	330.6	89.0	72.9	16.15	5.510	
2,700.0	2,668.5	2,707.7	2,661.1	8.0	9.3	-81.91	142.8	353.3	94.2	77.3	16.86	5.584	
2,800.0	2,766.6	2,807.5	2,758.0	8.4	9.7	-79.79	150.7	376.1	99.5	81.9	17.56	5.665	
2,900.0	2,864.7	2,907.3	2,854.8	8.8	10.2	-77.89	158.5	398.8	104.9	86.7	18.24	5.752	
3,000.0	2,962.8	3,007.1	2,951.7	9.2	10.7	-76.18	166.4	421.6	110.4	91.5	18.91	5.841	
3,100.0	3,060.9	3,106.9	3,048.5	9.5	11.1	-74.63	174.2	444.3	116.0	96.5	19.56	5.931	
3,200.0	3,159.0	3,206.7	3,145.4	9.9	11.6	-73.22	182.0	467.1	121.7	101.5	20.21	6.022	
3,300.0	3,257.1	3,306.5	3,242.2	10.3	12.0	-71.94	189.9	489.8	127.5	106.6	20.86	6.112	
3,400.0	3,355.2	3,406.3	3,339.1	10.7	12.5	-70.77	197.7	512.6	133.3	111.8	21.50	6.201	
3,500.0	3,453.3	3,506.1	3,435.9	11.1	13.0	-69.70	205.6	535.3	139.2	117.0	22.13	6.288	
3,600.0	3,551.4	3,605.9	3,532.8	11.5	13.4	-68.72	213.4	558.1	145.1	122.3	22.76	6.374	
3,700.0	3,649.5	3,705.7	3,629.6	11.9	13.9	-67.81	221.2	580.9	151.0	127.6	23.39	6.457	
3,800.0	3,747.6	3,805.5	3,726.5	12.2	14.4	-66.98	229.1	603.6	157.0	133.0	24.02	6.538	
3,900.0	3,845.7	3,905.3	3,823.3	12.6	14.8	-66.20	236.9	626.4	163.0	138.4	24.64	6.617	
4,000.0	3,943.8	4,005.1	3,920.2	13.0	15.3	-65.48	244.8	649.1	169.1	143.8	25.26	6.693	
4,100.0	4,041.9	4,104.9	4,017.0	13.4	15.7	-64.81	252.6	671.9	175.2	149.3	25.88	6.767	
4,200.0	4,140.0	4,204.7	4,113.9	13.8	16.2	-64.18	260.4	694.6	181.3	154.7	26.50	6.839	
4,300.0	4,238.1	4,304.5	4,210.7	14.2	16.7	-63.60	268.3	717.4	187.4	160.2	27.12	6.908	
4,400.0	4,336.2	4,404.3	4,307.6	14.5	17.1	-63.05	276.1	740.1	193.5	165.8	27.74	6.976	
4,500.0	4,434.3	4,504.0	4,404.4	14.9	17.6	-62.54	284.0	762.9	199.6	171.3	28.35	7.041	
4,600.0	4,532.4	4,603.8	4,501.3	15.3	18.1	-62.05	291.8	785.6	205.8	176.8	28.97	7.104	
4,700.0	4,630.5	4,703.6	4,598.1	15.7	18.5	-61.60	299.6	808.4	212.0	182.4	29.59	7.165	
4,800.0	4,728.6	4,803.4	4,695.0	16.1	19.0	-61.17	307.5	831.2	218.2	188.0	30.20	7.224	
4,900.0	4,826.7	4,903.2	4,791.8	16.5	19.4	-60.76	315.3	853.9	224.4	193.6	30.81	7.281	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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	
5,000.0	4,924.8	5,003.0	4,888.7	16.9	19.9	-60.38	323.2	876.7	230.6	199.2	31.43	7.337	
5,100.0	5,022.9	5,102.8	4,985.5	17.2	20.4	-60.01	331.0	899.4	236.8	204.8	32.04	7.391	
5,200.0	5,121.0	5,202.6	5,082.4	17.6	20.8	-59.67	338.8	922.2	243.0	210.4	32.65	7.442	
5,300.0	5,219.1	5,302.4	5,179.2	18.0	21.3	-59.34	346.7	944.9	249.3	216.0	33.27	7.493	
5,400.0	5,317.2	5,402.2	5,276.1	18.4	21.8	-59.03	354.5	967.7	255.5	221.6	33.88	7.542	
5,500.0	5,415.3	5,502.0	5,372.9	18.8	22.2	-58.73	362.4	990.4	261.8	227.3	34.49	7.589	
5,600.0	5,513.4	5,601.8	5,469.8	19.2	22.7	-58.45	370.2	1,013.2	268.0	232.9	35.11	7.635	
5,700.0	5,611.5	5,701.6	5,566.6	19.6	23.2	-58.18	378.0	1,035.9	274.3	238.6	35.72	7.679	
5,800.0	5,709.6	5,801.4	5,663.5	19.9	23.6	-57.92	385.9	1,058.7	280.6	244.2	36.33	7.723	
5,900.0	5,807.7	5,901.2	5,760.3	20.3	24.1	-57.67	393.7	1,081.5	286.8	249.9	36.94	7.765	
6,000.0	5,905.8	6,001.0	5,857.2	20.7	24.5	-57.44	401.6	1,104.2	293.1	255.6	37.55	7.805	
6,100.0	6,003.9	6,100.8	5,954.0	21.1	25.0	-57.21	409.4	1,127.0	299.4	261.2	38.17	7.845	
6,200.0	6,102.0	6,200.6	6,050.9	21.5	25.5	-56.99	417.2	1,149.7	305.7	266.9	38.78	7.883	
6,300.0	6,200.1	6,300.4	6,147.7	21.9	25.9	-56.79	425.1	1,172.5	312.0	272.6	39.39	7.921	
6,400.0	6,298.2	6,400.2	6,244.6	22.3	26.4	-56.59	432.9	1,195.2	318.3	278.3	40.00	7.957	
6,500.0	6,396.3	6,500.0	6,341.4	22.6	26.9	-56.39	440.8	1,218.0	324.6	284.0	40.61	7.992	
6,600.0	6,494.4	6,599.7	6,438.3	23.0	27.3	-56.21	448.6	1,240.7	330.9	289.7	41.23	8.027	
6,700.0	6,592.5	6,699.5	6,535.1	23.4	27.8	-56.03	456.4	1,263.5	337.2	295.4	41.84	8.060	
6,800.0	6,690.6	6,799.3	6,632.0	23.8	28.3	-55.86	464.3	1,286.2	343.5	301.1	42.45	8.093	
6,900.0	6,788.7	6,899.1	6,728.8	24.2	28.7	-55.69	472.1	1,309.0	349.8	306.8	43.06	8.124	
7,000.0	6,886.8	6,998.9	6,825.7	24.6	29.2	-55.53	480.0	1,331.8	356.2	312.5	43.67	8.155	
7,068.1	6,953.6	7,066.9	6,891.6	24.8	29.5	-55.43	485.3	1,347.2	360.5	316.4	44.09	8.176	
7,100.0	6,984.9	7,098.8	6,922.6	25.0	29.7	-40.39	487.8	1,354.5	361.7	317.4	44.25	8.173	
7,150.0	7,033.5	7,148.7	6,971.0	25.2	29.9	-22.06	491.7	1,365.9	360.4	316.4	44.04	8.185	
7,200.0	7,081.4	7,198.2	7,019.0	25.4	30.1	-9.56	495.6	1,377.2	355.3	312.1	43.23	8.218	
7,250.0	7,128.3	7,246.9	7,066.3	25.6	30.3	-0.58	499.4	1,388.3	346.5	304.6	41.83	8.283	
7,300.0	7,173.7	7,294.5	7,112.5	25.8	30.6	6.60	503.2	1,399.1	334.1	294.3	39.81	8.392	
7,350.0	7,217.2	7,357.5	7,173.7	26.1	30.8	14.08	507.0	1,413.5	318.0	281.2	36.79	8.643	
7,400.0	7,258.7	7,430.7	7,244.9	26.3	31.1	24.30	503.4	1,430.2	295.1	262.8	32.26	9.148	
7,450.0	7,297.7	7,486.6	7,288.5	26.6	31.3	36.37	494.5	1,442.8	267.5	239.7	27.77	9.633	
7,500.0	7,334.0	7,527.1	7,336.8	26.9	31.4	49.09	484.6	1,451.8	238.5	212.8	25.69	9.283	
7,550.0	7,367.2	7,555.2	7,362.9	27.2	31.5	60.52	476.2	1,458.0	211.6	184.8	26.76	7.908	
7,600.0	7,397.2	7,573.6	7,379.7	27.5	31.5	69.10	469.9	1,461.9	190.7	161.8	28.95	6.588	
7,650.0	7,423.7	7,584.3	7,389.5	27.8	31.5	74.27	466.0	1,464.2	180.0	149.4	30.65	5.874	
7,666.8	7,431.8	7,586.6	7,391.5	28.0	31.5	75.25	465.2	1,464.7	179.3	148.2	31.03	5.777	
7,700.0	7,446.5	7,589.3	7,393.9	28.2	31.5	76.16	464.2	1,465.3	182.3	150.7	31.52	5.781	
7,750.0	7,465.4	7,589.6	7,394.3	28.6	31.5	75.11	464.0	1,465.3	197.4	165.6	31.79	6.208	
7,800.0	7,480.4	7,586.4	7,391.3	29.0	31.5	71.46	465.3	1,464.7	222.7	191.0	31.70	7.026	
7,850.0	7,491.1	7,580.3	7,385.8	29.3	31.5	65.64	467.5	1,463.4	254.9	223.5	31.37	8.126	
7,900.0	7,497.7	7,571.9	7,378.2	29.8	31.5	58.26	470.5	1,461.6	291.3	260.4	30.87	9.435	
7,951.9	7,500.0	7,561.2	7,368.4	30.2	31.5	49.81	474.2	1,459.3	331.4	301.1	30.31	10.936	
8,000.0	7,500.0	7,550.0	7,358.1	30.6	31.5	47.21	477.8	1,456.8	370.3	340.2	30.08	12.310	
8,100.0	7,500.0	7,532.8	7,342.1	31.5	31.4	43.45	483.0	1,453.1	455.8	425.9	29.92	15.236	
8,200.0	7,500.0	7,517.8	7,328.1	32.5	31.4	40.38	487.1	1,449.8	545.4	515.6	29.83	18.287	
8,300.0	7,500.0	7,500.0	7,311.3	33.6	31.3	37.00	491.5	1,445.8	637.6	608.1	29.48	21.629	
8,400.0	7,500.0	7,500.0	7,311.3	34.7	31.3	37.00	491.5	1,445.8	731.4	701.0	30.36	24.090	
8,500.0	7,500.0	7,500.0	7,311.3	35.9	31.3	37.00	491.5	1,445.8	826.7	795.4	31.26	26.442	
8,551.9	7,500.0	7,481.2	7,293.5	36.5	31.3	33.75	495.5	1,441.7	876.0	845.7	30.29	28.923	
8,600.0	7,500.0	7,477.6	7,289.9	37.1	31.3	33.14	496.3	1,440.8	922.2	891.8	30.42	30.318	
8,700.0	7,500.0	7,470.6	7,283.3	38.3	31.2	32.03	497.6	1,439.3	1,018.8	988.0	30.72	33.158	
8,800.0	7,500.0	7,450.0	7,263.5	39.6	31.2	28.96	500.9	1,434.6	1,116.1	1,086.1	29.98	37.233	
8,900.0	7,500.0	7,450.0	7,263.5	40.9	31.2	28.96	500.9	1,434.6	1,213.3	1,182.6	30.74	39.466	

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 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,450.0	7,263.5	42.3	31.2	28.96	500.9	1,434.6	1,311.0	1,279.5	31.52	41.593		
9,100.0	7,500.0	7,450.0	7,263.5	43.7	31.2	28.96	500.9	1,434.6	1,409.0	1,376.7	32.30	43.617		
9,200.0	7,500.0	7,450.0	7,263.5	45.1	31.2	28.96	500.9	1,434.6	1,507.3	1,474.2	33.09	45.546		
9,300.0	7,500.0	7,450.0	7,263.5	46.5	31.2	28.96	500.9	1,434.6	1,605.8	1,571.9	33.89	47.383		
9,400.0	7,500.0	7,450.0	7,263.5	48.0	31.2	28.96	500.9	1,434.6	1,704.4	1,669.7	34.69	49.134		
9,500.0	7,500.0	7,450.0	7,263.5	49.5	31.2	28.96	500.9	1,434.6	1,803.2	1,767.7	35.49	50.803		
9,551.9	7,500.0	7,450.0	7,263.5	50.2	31.2	28.96	500.9	1,434.6	1,854.6	1,818.6	35.91	51.639		
9,600.0	7,500.0	7,450.0	7,263.5	51.0	31.2	25.99	500.9	1,434.6	1,902.2	1,868.1	34.09	55.792		
9,700.0	7,500.0	7,430.5	7,244.7	52.4	31.1	16.81	503.4	1,430.2	2,000.9	1,972.7	28.22	70.905		
9,800.0	7,500.0	7,428.0	7,242.2	53.9	31.1	9.06	503.7	1,429.6	2,100.0	2,076.0	24.01	87.448		
9,900.0	7,500.0	7,425.5	7,239.9	55.4	31.1	0.73	504.0	1,429.1	2,199.3	2,177.7	21.57	101.945		
10,000.0	7,500.0	7,423.2	7,237.6	56.9	31.1	-7.85	504.2	1,428.5	2,298.6	2,275.8	22.78	100.898		
10,100.0	7,500.0	7,420.9	7,235.4	58.4	31.1	-16.31	504.4	1,428.0	2,398.0	2,370.7	27.27	87.930		
10,201.9	7,500.0	7,400.0	7,215.1	60.0	31.0	-23.73	506.1	1,423.2	2,499.6	2,466.7	32.81	76.189		
10,300.0	7,500.0	7,400.0	7,215.1	61.5	31.0	-23.73	506.1	1,423.2	2,596.9	2,563.4	33.50	77.518		
10,400.0	7,500.0	7,400.0	7,215.1	63.0	31.0	-23.73	506.1	1,423.2	2,696.2	2,662.0	34.21	78.816		
10,500.0	7,500.0	7,400.0	7,215.1	64.5	31.0	-23.73	506.1	1,423.2	2,795.6	2,760.7	34.92	80.060		
10,600.0	7,500.0	7,400.0	7,215.1	66.1	31.0	-23.73	506.1	1,423.2	2,895.0	2,859.4	35.63	81.253		
10,700.0	7,500.0	7,400.0	7,215.1	67.7	31.0	-23.73	506.1	1,423.2	2,994.4	2,958.1	36.34	82.398		
10,800.0	7,500.0	7,400.0	7,215.1	69.2	31.0	-23.73	506.1	1,423.2	3,093.9	3,056.8	37.05	83.497		
10,900.0	7,500.0	7,400.0	7,215.1	70.8	31.0	-23.73	506.1	1,423.2	3,193.4	3,155.6	37.77	84.554		
11,000.0	7,500.0	7,400.0	7,215.1	72.4	31.0	-23.73	506.1	1,423.2	3,292.9	3,254.5	38.48	85.571		
11,100.0	7,500.0	7,400.0	7,215.1	74.0	31.0	-23.73	506.1	1,423.2	3,392.5	3,353.3	39.20	86.549		
11,200.0	7,500.0	7,400.0	7,215.1	75.6	31.0	-23.73	506.1	1,423.2	3,492.1	3,452.2	39.91	87.492		
11,300.0	7,500.0	7,400.0	7,215.1	77.2	31.0	-23.73	506.1	1,423.2	3,591.7	3,551.1	40.63	88.400		
11,400.0	7,500.0	7,400.0	7,215.1	78.8	31.0	-23.73	506.1	1,423.2	3,691.3	3,650.0	41.35	89.276		
11,500.0	7,500.0	7,400.0	7,215.1	80.5	31.0	-23.73	506.1	1,423.2	3,791.0	3,748.9	42.07	90.121		
11,600.0	7,500.0	7,400.0	7,215.1	82.1	31.0	-23.73	506.1	1,423.2	3,890.7	3,847.9	42.78	90.936		
11,700.0	7,500.0	7,400.0	7,215.1	83.7	31.0	-23.73	506.1	1,423.2	3,990.4	3,946.9	43.50	91.725		
11,801.9	7,500.0	7,400.0	7,215.1	85.4	31.0	-23.73	506.1	1,423.2	4,092.0	4,047.7	44.24	92.501		
11,900.0	7,500.0	7,400.0	7,215.1	87.0	31.0	-10.83	506.1	1,423.2	4,189.8	4,158.8	31.05	134.959		
12,000.0	7,500.0	7,400.0	7,215.1	88.7	31.0	3.88	506.1	1,423.2	4,289.6	4,262.2	27.36	156.788		
12,100.0	7,500.0	7,400.0	7,215.1	90.4	31.0	18.42	506.1	1,423.2	4,389.3	4,346.9	42.43	103.442		
12,200.0	7,500.0	7,400.0	7,215.1	92.0	31.0	31.14	506.1	1,423.2	4,489.1	4,428.8	60.31	74.431		
12,300.0	7,500.0	7,400.0	7,215.1	93.7	31.0	41.39	506.1	1,423.2	4,588.8	4,513.9	74.90	61.264		
12,400.0	7,500.0	7,400.0	7,215.1	95.4	31.0	49.35	506.1	1,423.2	4,688.4	4,602.5	85.88	54.594		
12,500.0	7,500.0	7,400.0	7,215.1	97.1	31.0	55.47	506.1	1,423.2	4,787.9	4,693.8	94.13	50.864		
12,600.0	7,500.0	7,400.0	7,215.1	98.9	31.0	60.22	506.1	1,423.2	4,887.3	4,786.8	100.54	48.613		
12,700.0	7,500.0	7,400.0	7,215.1	100.6	31.0	63.97	506.1	1,423.2	4,986.5	4,880.8	105.71	47.173		
12,806.4	7,500.0	7,400.0	7,215.1	102.4	31.0	67.15	506.1	1,423.2	5,091.9	4,981.6	110.31	46.159		
12,900.0	7,500.0	7,400.0	7,215.1	104.0	31.0	67.15	506.1	1,423.2	5,184.6	5,072.7	111.82	46.366		

Cathedral Energy Services

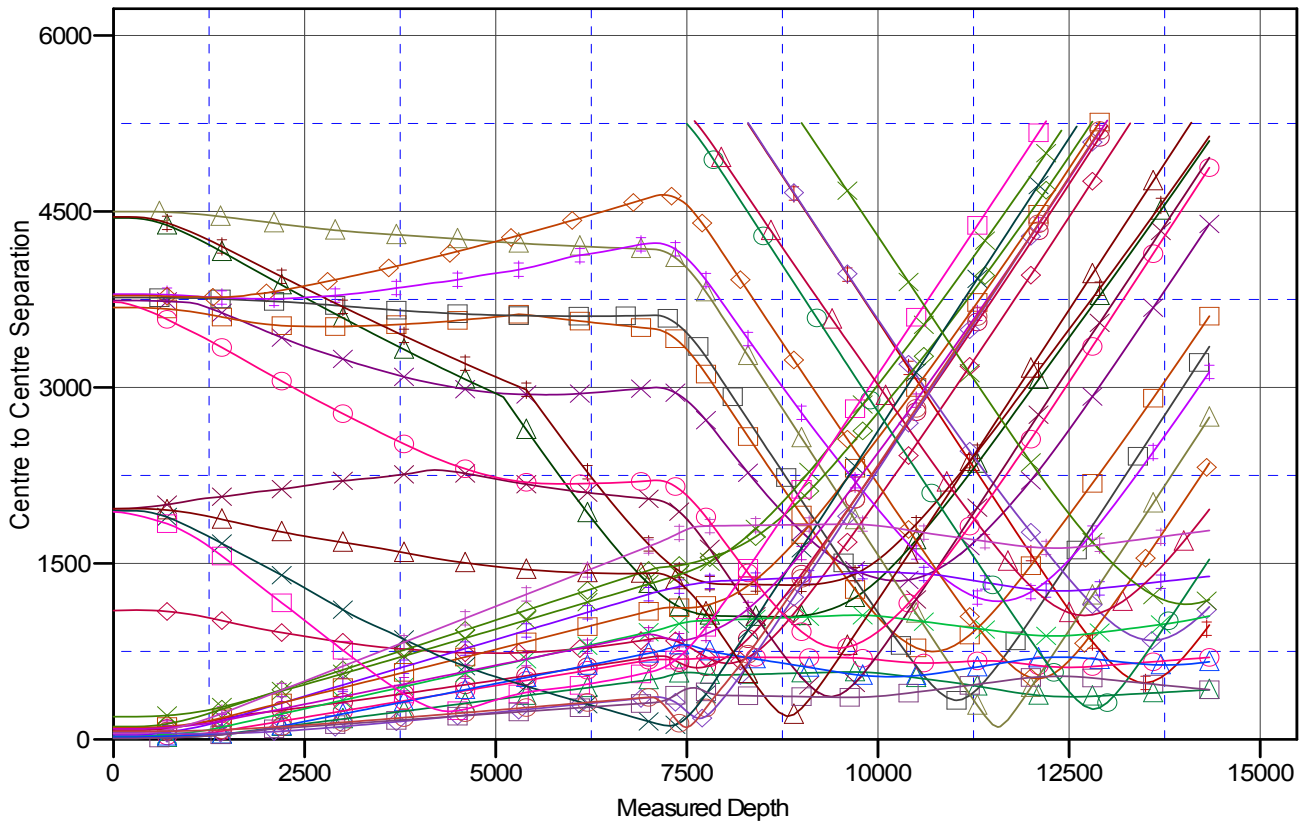
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2F-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 2F-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #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 2F-7H-E168
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.29°

Ladder Plot



LEGEND

NG), ENCANAWELL, SURVEYS V0	Woolley-Becky 2D-7H-E168, Hz, Plan #4 V0	WOOLLEY 22-7 (EXISTING), ENCAN
NOBLE WELL, NO SURVEYS V0	BEARDEN 13-6 (EXISTING), ENCANAWELL, SURVEYS V0	WOOLLEY 21-7 (EXISTING), ENCAN
8, Hz, Plan #2 V0	BULTHAUP 21-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	Woolley-Sosa 2D-7H-E168, Hz, Plan #
ING), KERR-MCGEE WELL, SURVEYS V0	WOOLLEY 4-0-7 (EXISTING), ENCANAWELL, SURVEYS V0	WOOLLEY 2-4-7 (EXISTING), ENCAN
38 Hz, Plan #3 V0	Woolley-Sosa 2B-7H-E168, Hz, Plan #2 V0	BECKY 7-6 (EXISTING), NOBLE WEI
ISTING), ENCANAWELL, GYRO V0	BEARDEN 2-4-6 (EXISTING), ENCANAWELL, PLAN ONLY V0	BECKY 5-6 (EXISTING), FOUNDATIK
), ENCANAWELL, SURVEYS V0	Woolley-Becky 2C-7H-E168, Hz, Plan #4 V0	BECKY 4 (EXISTING), MARTIN EXP1
68, Hz, Plan #2 V0	Woolley-Becky 2H-7H-E168, Hz, Plan #3 V0	Woolley-Becky 2A-7H-E168, Hz, Plan #
8, Hz, Plan #2 V0	Woolley-Becky 2B-7H-E168, Hz, Plan #2 V0	Woolley-Becky 2G-7H-E168, Hz, Plan #
NG), ENCANAWELL, NO SURVEYS V0	Woolley-Sosa 2C-7H-E168, Hz, Plan #2 V0	Woolley-Sosa 2F-7H-E168, Hz, Plan #

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