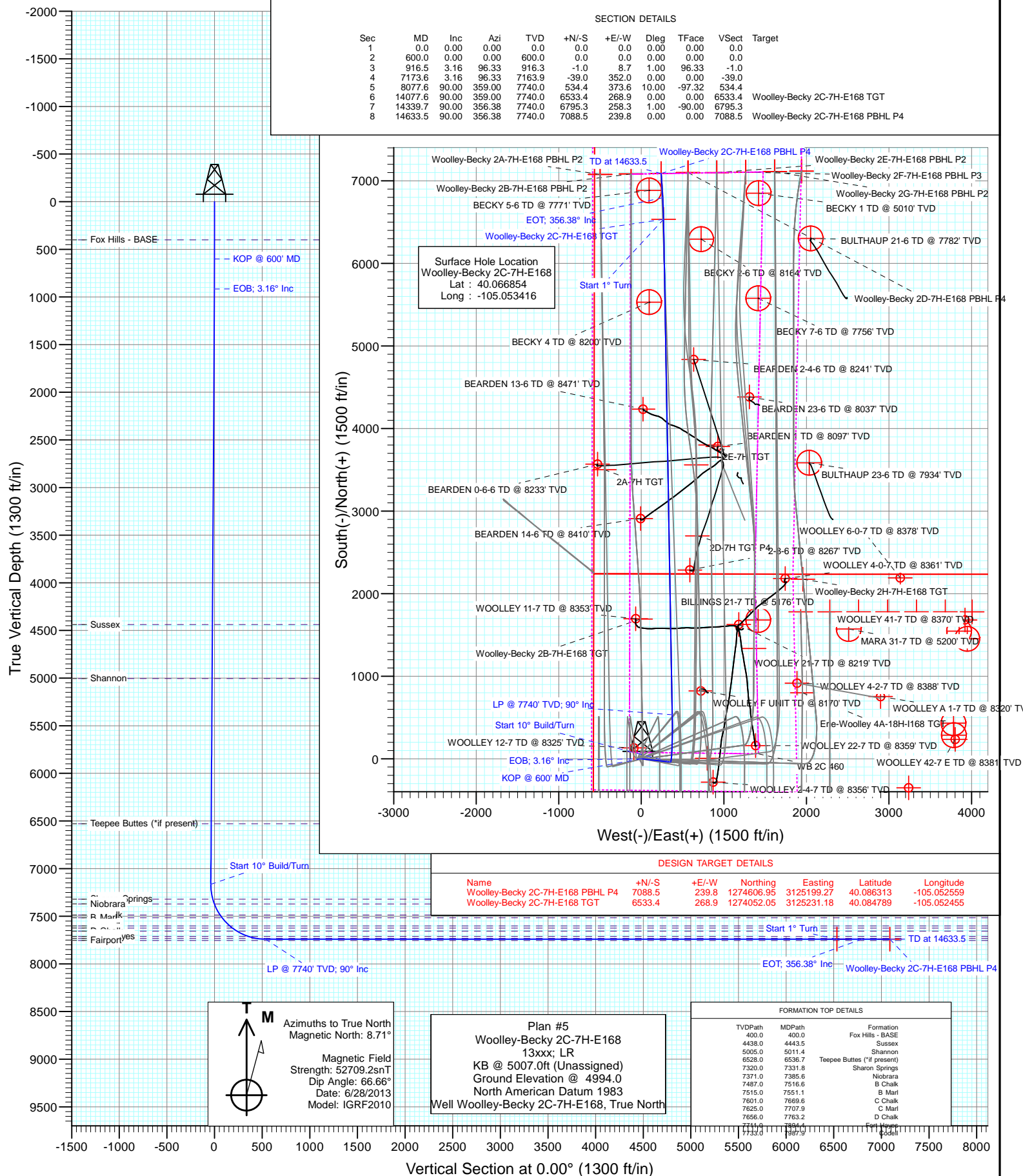




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2C-7H-E168
Wellbore: Hz
Design: Plan #5



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #5		

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 2C-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.33 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,124,995.19 ft	Longitude:	-105.053416
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 #5			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
916.5	3.16	96.33	916.3	-1.0	8.7	1.00	1.00	0.00	96.33	
7,173.6	3.16	96.33	7,163.9	-39.0	352.0	0.00	0.00	0.00	0.00	
8,077.6	90.00	359.00	7,740.0	534.4	373.6	10.00	9.61	-10.77	-97.32	
14,077.6	90.00	359.00	7,740.0	6,533.4	268.9	0.00	0.00	0.00	0.00	Woolley-Becky 2C-7H
14,339.7	90.00	356.38	7,740.0	6,795.3	258.3	1.00	0.00	-1.00	-90.00	
14,633.5	90.00	356.38	7,740.0	7,088.5	239.8	0.00	0.00	0.00	0.00	Woolley-Becky 2C-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #5		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	KOP @ 600' MD
700.0	1.00	96.33	700.0	-0.1	0.9	-0.1	1.00	1.00	
800.0	2.00	96.33	800.0	-0.4	3.5	-0.4	1.00	1.00	
900.0	3.00	96.33	899.9	-0.9	7.8	-0.9	1.00	1.00	
916.5	3.16	96.33	916.3	-1.0	8.7	-1.0	1.00	1.00	EOB; 3.16° Inc
1,000.0	3.16	96.33	999.7	-1.5	13.3	-1.5	0.00	0.00	
1,100.0	3.16	96.33	1,099.6	-2.1	18.8	-2.1	0.00	0.00	
1,200.0	3.16	96.33	1,199.4	-2.7	24.2	-2.7	0.00	0.00	
1,300.0	3.16	96.33	1,299.3	-3.3	29.7	-3.3	0.00	0.00	
1,400.0	3.16	96.33	1,399.1	-3.9	35.2	-3.9	0.00	0.00	
1,500.0	3.16	96.33	1,498.9	-4.5	40.7	-4.5	0.00	0.00	
1,600.0	3.16	96.33	1,598.8	-5.1	46.2	-5.1	0.00	0.00	
1,700.0	3.16	96.33	1,698.6	-5.7	51.7	-5.7	0.00	0.00	
1,800.0	3.16	96.33	1,798.5	-6.3	57.2	-6.3	0.00	0.00	
1,900.0	3.16	96.33	1,898.3	-6.9	62.7	-6.9	0.00	0.00	
2,000.0	3.16	96.33	1,998.2	-7.6	68.1	-7.6	0.00	0.00	
2,100.0	3.16	96.33	2,098.0	-8.2	73.6	-8.2	0.00	0.00	
2,200.0	3.16	96.33	2,197.9	-8.8	79.1	-8.8	0.00	0.00	
2,300.0	3.16	96.33	2,297.7	-9.4	84.6	-9.4	0.00	0.00	
2,400.0	3.16	96.33	2,397.6	-10.0	90.1	-10.0	0.00	0.00	
2,500.0	3.16	96.33	2,497.4	-10.6	95.6	-10.6	0.00	0.00	
2,600.0	3.16	96.33	2,597.3	-11.2	101.1	-11.2	0.00	0.00	
2,700.0	3.16	96.33	2,697.1	-11.8	106.6	-11.8	0.00	0.00	
2,800.0	3.16	96.33	2,797.0	-12.4	112.0	-12.4	0.00	0.00	
2,900.0	3.16	96.33	2,896.8	-13.0	117.5	-13.0	0.00	0.00	
3,000.0	3.16	96.33	2,996.7	-13.6	123.0	-13.6	0.00	0.00	
3,100.0	3.16	96.33	3,096.5	-14.3	128.5	-14.3	0.00	0.00	
3,200.0	3.16	96.33	3,196.4	-14.9	134.0	-14.9	0.00	0.00	
3,300.0	3.16	96.33	3,296.2	-15.5	139.5	-15.5	0.00	0.00	
3,400.0	3.16	96.33	3,396.1	-16.1	145.0	-16.1	0.00	0.00	
3,500.0	3.16	96.33	3,495.9	-16.7	150.4	-16.7	0.00	0.00	
3,600.0	3.16	96.33	3,595.7	-17.3	155.9	-17.3	0.00	0.00	
3,700.0	3.16	96.33	3,695.6	-17.9	161.4	-17.9	0.00	0.00	
3,800.0	3.16	96.33	3,795.4	-18.5	166.9	-18.5	0.00	0.00	
3,900.0	3.16	96.33	3,895.3	-19.1	172.4	-19.1	0.00	0.00	
4,000.0	3.16	96.33	3,995.1	-19.7	177.9	-19.7	0.00	0.00	
4,100.0	3.16	96.33	4,095.0	-20.3	183.4	-20.3	0.00	0.00	
4,200.0	3.16	96.33	4,194.8	-20.9	188.9	-20.9	0.00	0.00	
4,300.0	3.16	96.33	4,294.7	-21.6	194.3	-21.6	0.00	0.00	
4,400.0	3.16	96.33	4,394.5	-22.2	199.8	-22.2	0.00	0.00	
4,443.5	3.16	96.33	4,438.0	-22.4	202.2	-22.4	0.00	0.00	Sussex
4,500.0	3.16	96.33	4,494.4	-22.8	205.3	-22.8	0.00	0.00	
4,600.0	3.16	96.33	4,594.2	-23.4	210.8	-23.4	0.00	0.00	
4,700.0	3.16	96.33	4,694.1	-24.0	216.3	-24.0	0.00	0.00	
4,800.0	3.16	96.33	4,793.9	-24.6	221.8	-24.6	0.00	0.00	
4,900.0	3.16	96.33	4,893.8	-25.2	227.3	-25.2	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #5		

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	3.16	96.33	4,993.6	-25.8	232.8	-25.8	0.00	0.00	
5,011.4	3.16	96.33	5,005.0	-25.9	233.4	-25.9	0.00	0.00	Shannon
5,100.0	3.16	96.33	5,093.5	-26.4	238.2	-26.4	0.00	0.00	
5,200.0	3.16	96.33	5,193.3	-27.0	243.7	-27.0	0.00	0.00	
5,300.0	3.16	96.33	5,293.2	-27.6	249.2	-27.6	0.00	0.00	
5,400.0	3.16	96.33	5,393.0	-28.3	254.7	-28.3	0.00	0.00	
5,500.0	3.16	96.33	5,492.8	-28.9	260.2	-28.9	0.00	0.00	
5,600.0	3.16	96.33	5,592.7	-29.5	265.7	-29.5	0.00	0.00	
5,700.0	3.16	96.33	5,692.5	-30.1	271.2	-30.1	0.00	0.00	
5,800.0	3.16	96.33	5,792.4	-30.7	276.7	-30.7	0.00	0.00	
5,900.0	3.16	96.33	5,892.2	-31.3	282.1	-31.3	0.00	0.00	
6,000.0	3.16	96.33	5,992.1	-31.9	287.6	-31.9	0.00	0.00	
6,100.0	3.16	96.33	6,091.9	-32.5	293.1	-32.5	0.00	0.00	
6,200.0	3.16	96.33	6,191.8	-33.1	298.6	-33.1	0.00	0.00	
6,300.0	3.16	96.33	6,291.6	-33.7	304.1	-33.7	0.00	0.00	
6,400.0	3.16	96.33	6,391.5	-34.3	309.6	-34.3	0.00	0.00	
6,500.0	3.16	96.33	6,491.3	-34.9	315.1	-34.9	0.00	0.00	
6,536.7	3.16	96.33	6,528.0	-35.2	317.1	-35.2	0.00	0.00	Teepee Buttes (*if present)
6,600.0	3.16	96.33	6,591.2	-35.6	320.6	-35.6	0.00	0.00	
6,700.0	3.16	96.33	6,691.0	-36.2	326.0	-36.2	0.00	0.00	
6,800.0	3.16	96.33	6,790.9	-36.8	331.5	-36.8	0.00	0.00	
6,900.0	3.16	96.33	6,890.7	-37.4	337.0	-37.4	0.00	0.00	
7,000.0	3.16	96.33	6,990.6	-38.0	342.5	-38.0	0.00	0.00	
7,100.0	3.16	96.33	7,090.4	-38.6	348.0	-38.6	0.00	0.00	
7,173.6	3.16	96.33	7,163.9	-39.0	352.0	-39.0	0.00	0.00	Start 10° Build/Turn
7,200.0	3.85	53.48	7,190.3	-38.6	353.5	-38.6	10.00	2.61	
7,300.0	12.63	13.17	7,289.2	-25.9	358.7	-25.9	10.00	8.77	
7,331.8	15.73	10.23	7,320.0	-18.3	360.2	-18.3	10.00	9.74	Sharon Springs
7,385.6	21.02	7.21	7,371.0	-1.5	362.7	-1.5	10.00	9.84	Niobrara
7,400.0	22.45	6.63	7,384.4	3.8	363.4	3.8	10.00	9.89	
7,500.0	32.37	3.96	7,473.1	49.6	367.4	49.6	10.00	9.93	
7,516.6	34.03	3.66	7,487.0	58.6	368.0	58.6	10.00	9.95	B Chalk
7,551.1	37.46	3.10	7,515.0	78.8	369.2	78.8	10.00	9.96	B Marl
7,600.0	42.33	2.45	7,552.5	110.1	370.7	110.1	10.00	9.96	
7,669.6	49.28	1.71	7,601.0	159.9	372.5	159.9	10.00	9.97	C Chalk
7,700.0	52.31	1.43	7,620.2	183.4	373.2	183.4	10.00	9.97	
7,707.9	53.10	1.36	7,625.0	189.8	373.3	189.8	10.00	9.98	C Marl
7,763.2	58.61	0.92	7,656.0	235.5	374.2	235.5	10.00	9.98	D Chalk
7,800.0	62.28	0.65	7,674.1	267.5	374.7	267.5	10.00	9.98	
7,894.4	71.71	0.04	7,711.0	354.3	375.2	354.3	10.00	9.98	Fort Hayes
7,900.0	72.27	0.00	7,712.7	359.6	375.2	359.6	10.00	9.98	
7,987.9	81.04	359.50	7,733.0	445.0	374.8	445.0	10.00	9.98	Codell
8,000.0	82.25	359.43	7,734.8	457.0	374.7	457.0	10.00	9.98	
8,077.6	90.00	359.00	7,740.0	534.4	373.6	534.4	10.00	9.98	LP @ 7740' TVD; 90° Inc
8,100.0	90.00	359.00	7,740.0	556.7	373.2	556.7	0.00	0.00	
8,200.0	90.00	359.00	7,740.0	656.7	371.5	656.7	0.00	0.00	
8,300.0	90.00	359.00	7,740.0	756.7	369.7	756.7	0.00	0.00	
8,400.0	90.00	359.00	7,740.0	856.7	368.0	856.7	0.00	0.00	
8,500.0	90.00	359.00	7,740.0	956.7	366.2	956.7	0.00	0.00	
8,600.0	90.00	359.00	7,740.0	1,056.7	364.5	1,056.7	0.00	0.00	
8,700.0	90.00	359.00	7,740.0	1,156.7	362.8	1,156.7	0.00	0.00	
8,800.0	90.00	359.00	7,740.0	1,256.6	361.0	1,256.6	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #5		

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
8,900.0	90.00	359.00	7,740.0	1,356.6	359.3	1,356.6	0.00	0.00	
9,000.0	90.00	359.00	7,740.0	1,456.6	357.5	1,456.6	0.00	0.00	
9,100.0	90.00	359.00	7,740.0	1,556.6	355.8	1,556.6	0.00	0.00	
9,200.0	90.00	359.00	7,740.0	1,656.6	354.0	1,656.6	0.00	0.00	
9,300.0	90.00	359.00	7,740.0	1,756.6	352.3	1,756.6	0.00	0.00	
9,400.0	90.00	359.00	7,740.0	1,856.5	350.5	1,856.5	0.00	0.00	
9,500.0	90.00	359.00	7,740.0	1,956.5	348.8	1,956.5	0.00	0.00	
9,600.0	90.00	359.00	7,740.0	2,056.5	347.1	2,056.5	0.00	0.00	
9,700.0	90.00	359.00	7,740.0	2,156.5	345.3	2,156.5	0.00	0.00	
9,800.0	90.00	359.00	7,740.0	2,256.5	343.6	2,256.5	0.00	0.00	
9,900.0	90.00	359.00	7,740.0	2,356.5	341.8	2,356.5	0.00	0.00	
10,000.0	90.00	359.00	7,740.0	2,456.5	340.1	2,456.5	0.00	0.00	
10,100.0	90.00	359.00	7,740.0	2,556.4	338.3	2,556.4	0.00	0.00	
10,200.0	90.00	359.00	7,740.0	2,656.4	336.6	2,656.4	0.00	0.00	
10,300.0	90.00	359.00	7,740.0	2,756.4	334.8	2,756.4	0.00	0.00	
10,400.0	90.00	359.00	7,740.0	2,856.4	333.1	2,856.4	0.00	0.00	
10,500.0	90.00	359.00	7,740.0	2,956.4	331.3	2,956.4	0.00	0.00	
10,600.0	90.00	359.00	7,740.0	3,056.4	329.6	3,056.4	0.00	0.00	
10,700.0	90.00	359.00	7,740.0	3,156.4	327.9	3,156.4	0.00	0.00	
10,800.0	90.00	359.00	7,740.0	3,256.3	326.1	3,256.3	0.00	0.00	
10,900.0	90.00	359.00	7,740.0	3,356.3	324.4	3,356.3	0.00	0.00	
11,000.0	90.00	359.00	7,740.0	3,456.3	322.6	3,456.3	0.00	0.00	
11,100.0	90.00	359.00	7,740.0	3,556.3	320.9	3,556.3	0.00	0.00	
11,200.0	90.00	359.00	7,740.0	3,656.3	319.1	3,656.3	0.00	0.00	
11,300.0	90.00	359.00	7,740.0	3,756.3	317.4	3,756.3	0.00	0.00	
11,400.0	90.00	359.00	7,740.0	3,856.2	315.6	3,856.2	0.00	0.00	
11,500.0	90.00	359.00	7,740.0	3,956.2	313.9	3,956.2	0.00	0.00	
11,600.0	90.00	359.00	7,740.0	4,056.2	312.1	4,056.2	0.00	0.00	
11,700.0	90.00	359.00	7,740.0	4,156.2	310.4	4,156.2	0.00	0.00	
11,800.0	90.00	359.00	7,740.0	4,256.2	308.7	4,256.2	0.00	0.00	
11,900.0	90.00	359.00	7,740.0	4,356.2	306.9	4,356.2	0.00	0.00	
12,000.0	90.00	359.00	7,740.0	4,456.2	305.2	4,456.2	0.00	0.00	
12,100.0	90.00	359.00	7,740.0	4,556.1	303.4	4,556.1	0.00	0.00	
12,200.0	90.00	359.00	7,740.0	4,656.1	301.7	4,656.1	0.00	0.00	
12,300.0	90.00	359.00	7,740.0	4,756.1	299.9	4,756.1	0.00	0.00	
12,400.0	90.00	359.00	7,740.0	4,856.1	298.2	4,856.1	0.00	0.00	
12,500.0	90.00	359.00	7,740.0	4,956.1	296.4	4,956.1	0.00	0.00	
12,600.0	90.00	359.00	7,740.0	5,056.1	294.7	5,056.1	0.00	0.00	
12,700.0	90.00	359.00	7,740.0	5,156.0	292.9	5,156.0	0.00	0.00	
12,800.0	90.00	359.00	7,740.0	5,256.0	291.2	5,256.0	0.00	0.00	
12,900.0	90.00	359.00	7,740.0	5,356.0	289.5	5,356.0	0.00	0.00	
13,000.0	90.00	359.00	7,740.0	5,456.0	287.7	5,456.0	0.00	0.00	
13,100.0	90.00	359.00	7,740.0	5,556.0	286.0	5,556.0	0.00	0.00	
13,200.0	90.00	359.00	7,740.0	5,656.0	284.2	5,656.0	0.00	0.00	
13,300.0	90.00	359.00	7,740.0	5,756.0	282.5	5,756.0	0.00	0.00	
13,400.0	90.00	359.00	7,740.0	5,855.9	280.7	5,855.9	0.00	0.00	
13,500.0	90.00	359.00	7,740.0	5,955.9	279.0	5,955.9	0.00	0.00	
13,600.0	90.00	359.00	7,740.0	6,055.9	277.2	6,055.9	0.00	0.00	
13,700.0	90.00	359.00	7,740.0	6,155.9	275.5	6,155.9	0.00	0.00	
13,800.0	90.00	359.00	7,740.0	6,255.9	273.8	6,255.9	0.00	0.00	
13,900.0	90.00	359.00	7,740.0	6,355.9	272.0	6,355.9	0.00	0.00	
14,000.0	90.00	359.00	7,740.0	6,455.8	270.3	6,455.8	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #5		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,077.6	90.00	359.00	7,740.0	6,533.4	268.9	6,533.4	0.00	0.00	Start 1° Turn
14,100.0	90.00	358.78	7,740.0	6,555.8	268.5	6,555.8	1.00	0.00	
14,200.0	90.00	357.78	7,740.0	6,655.8	265.5	6,655.8	1.00	0.00	
14,300.0	90.00	356.78	7,740.0	6,755.7	260.7	6,755.7	1.00	0.00	
14,339.7	90.00	356.38	7,740.0	6,795.3	258.3	6,795.3	1.00	0.00	EOT; 356.38° Inc
14,400.0	90.00	356.38	7,740.0	6,855.5	254.5	6,855.5	0.00	0.00	
14,500.0	90.00	356.38	7,740.0	6,955.3	248.2	6,955.3	0.00	0.00	
14,600.0	90.00	356.38	7,740.0	7,055.1	241.9	7,055.1	0.00	0.00	
14,633.5	90.00	356.38	7,740.0	7,088.5	239.8	7,088.5	0.00	0.00	TD at 14633.5

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 2C-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	6,533.4	268.9	1,274,052.05	3,125,231.18	40.084789	-105.052455
Woolley-Becky 2C-7H-E - plan misses target center by 63.0ft at 14632.4ft MD (7740.0 TVD, 7087.4 N, 239.9 E) - Point	0.00	0.00	7,803.0	7,087.4	239.5	1,274,605.85	3,125,199.00	40.086310	-105.052560
Woolley-Becky 2C-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	7,088.5	239.8	1,274,606.95	3,125,199.27	40.086313	-105.052559

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
400.0	400.0	Fox Hills - BASE			
4,443.5	4,438.0	Sussex			
5,011.4	5,005.0	Shannon			
6,536.7	6,528.0	Teepee Buttes (*if present)			
7,331.8	7,320.0	Sharon Springs			
7,385.6	7,371.0	Niobrara			
7,516.6	7,487.0	B Chalk			
7,551.1	7,515.0	B Marl			
7,669.6	7,601.0	C Chalk			
7,707.9	7,625.0	C Marl			
7,763.2	7,656.0	D Chalk			
7,894.4	7,711.0	Fort Hayes			
7,987.9	7,733.0	Codell			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #5		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	KOP @ 600' MD
916.5	916.3	-1.0	8.7	EOB; 3.16° Inc
7,173.6	7,163.9	-39.0	352.0	Start 10° Build/Turn
8,077.6	7,740.0	534.4	373.6	LP @ 7740' TVD; 90° Inc
14,077.6	7,740.0	6,533.4	268.9	Start 1° Turn
14,339.7	7,740.0	6,795.3	258.3	EOT; 356.38° Inc
14,633.5	7,740.0	7,088.5	239.8	TD at 14633.5

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2C-7H-E168

Hz

Plan #5

Anticollision Report

23 June, 2015

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Reference	Plan #5		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	6/23/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,633.5	Plan #5 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S18-T1N-R68W (Erie Woolley)						
Erie-Woolley 4A-18H-I168 - Hz - Plan #2						Out of range
Erie-Woolley 4B-18H-I168 - Hz - Plan #2						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,206.6	7,954.8	423.5	376.2	8.953	CC, ES, SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,104.8	7,789.0	873.3	827.9	19.238	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,300.0	7,789.0	894.9	845.7	18.193	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,701.3	7,902.0	1,013.3	970.8	23.842	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,800.0	7,954.5	1,017.3	974.4	23.676	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,259.7	7,692.2	581.3	534.0	12.302	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN						Out of range
S1-T1N-R69W (Bailey)						
Bailey 8-8-1 - DD - DD	9,838.0	7,952.6	939.1	874.6	14.558	CC, ES
Bailey 8-8-1 - DD - DD	10,000.0	7,955.7	953.0	885.1	14.034	SF
Bailey 8-8-1 - DD - Plan #1	9,813.1	7,916.3	923.8	859.4	14.334	CC, ES
Bailey 8-8-1 - DD - Plan #1	10,000.0	7,916.3	942.5	874.2	13.801	SF
S6-T1N-R68W (Bearden)						
Bearden #1 (Existing Well) - Existing - Existing	10,989.5	7,704.7	844.1	767.1	10.954	CC
Bearden #1 (Existing Well) - Existing - Existing	11,000.0	7,705.0	844.2	766.9	10.919	ES
Bearden #1 (Existing Well) - Existing - Existing	11,100.0	7,707.5	851.3	772.1	10.740	SF
Bearden 13-6 (Existing Well) - DD - DD	11,778.7	7,840.1	284.7	190.7	3.028	CC, ES
Bearden 13-6 (Existing Well) - DD - DD	11,800.0	7,840.1	285.5	191.0	3.021	SF
Bearden 14-6(Existing Well) - DD - DD	10,400.0	7,890.6	346.2	272.1	4.668	SF
Bearden 14-6(Existing Well) - DD - DD	10,453.1	7,891.3	342.1	269.3	4.699	CC, ES
Bearden 24-6 - DD - Plan #1	10,418.5	7,797.8	919.9	847.9	12.766	CC, ES
Bearden 24-6 - DD - Plan #1	10,600.0	7,797.8	937.7	863.0	12.560	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured	Offset Measured	Distance		Separation Factor	Warning
	Depth (ft)	Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,119.6	7,976.0	853.5	774.1	10.743	CC, ES
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,200.0	7,976.9	857.3	777.3	10.712	SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,310.0	7,706.7	607.3	524.8	7.355	CC, ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,400.0	7,709.0	614.0	529.6	7.279	SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,778.7	7,840.1	284.8	190.7	3.028	CC, ES
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,800.0	7,840.1	285.6	191.0	3.021	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,400.0	7,890.6	346.2	272.0	4.668	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,453.0	7,891.3	342.1	269.3	4.699	CC, ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,894.9	7,696.9	998.9	906.3	10.792	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,900.0	7,697.1	998.9	906.2	10.778	ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,000.0	7,701.5	1,004.4	909.7	10.614	SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,373.9	7,850.5	335.6	223.4	2.993	CC, ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,818.3	7,917.1	246.9	176.5	3.506	CC, ES, SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,829.9	7,693.0	450.7	324.6	3.575	CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,078.2	7,697.0	191.8	78.8	1.697	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,438.0	7,688.0	158.4	22.2	1.163	Level 2, CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS						Out of range
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS	1,309.8	1,297.0	985.5	980.9	214.234	CC
Thomas 7-12 (Existing) - Existing - NO SURVEYS	2,500.0	2,485.4	987.6	978.6	109.639	ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	6,200.0	6,179.8	1,021.8	999.0	44.949	SF
THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,206.6	7,954.8	423.5	376.2	8.953	CC, ES, SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	600.0	688.0	159.9	157.7	71.853	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	7,700.0	7,708.2	467.0	439.9	17.203	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,144.6	7,770.2	819.9	773.8	17.819	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,400.0	7,776.9	858.7	808.1	16.964	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,701.3	7,902.0	1,013.3	970.8	23.842	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,800.0	7,954.5	1,017.3	974.4	23.676	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,259.7	7,692.2	581.3	534.0	12.302	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,360.5	7,773.2	348.0	313.8	10.182	CC, ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,400.0	7,772.6	350.2	315.0	9.953	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	200.0	200.0	14.8	14.2	22.725	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	14,633.9	14,681.2	740.1	486.8	2.922	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	300.0	300.0	7.6	6.6	7.543	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	14,633.9	14,422.5	437.0	223.8	2.050	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	500.0	500.0	7.6	5.9	4.445	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	14,633.9	14,440.1	403.7	197.7	1.960	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	400.0	400.0	15.1	13.8	11.188	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	14,633.9	14,672.1	674.4	420.8	2.659	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	300.0	300.0	22.7	21.7	22.632	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	14,633.9	14,253.1	1,049.0	801.9	4.245	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	203.3	203.3	29.9	29.3	45.077	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	300.0	299.7	30.2	29.2	30.123	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	900.0	894.7	58.5	55.4	18.988	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	200.0	200.0	37.5	36.9	57.457	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	1,000.0	991.3	79.5	76.1	23.265	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	200.0	200.0	515.5	514.9	789.790	CC
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	600.0	599.3	515.7	513.6	246.537	ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	8,100.0	7,613.3	929.3	898.9	30.584	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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	300.0	300.0	57.4	56.4	57.272	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	7,500.0	7,732.3	541.9	515.3	20.371	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	685.1	685.9	45.6	43.3	19.337	CC
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	700.0	700.8	45.6	43.2	18.916	ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	7,758.6	7,782.5	154.5	126.2	5.461	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	722.9	723.7	36.3	33.8	14.602	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	7,533.9	7,806.4	113.7	86.8	4.232	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	600.0	600.0	27.4	25.4	13.386	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	1,900.0	1,901.2	62.3	55.3	8.929	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	721.0	721.5	7.8	5.3	3.106	CC, ES, SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	485.9	486.0	2.5	0.8	1.487	Level 3, CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
8,300.0	7,740.0	7,901.1	7,740.7	20.9	26.3	-83.10	1,652.4	-69.7	999.0	956.3	42.70	23.395		
8,400.0	7,740.0	7,906.2	7,745.8	22.2	26.3	-83.78	1,652.7	-69.7	909.6	866.3	43.22	21.045		
8,500.0	7,740.0	7,911.5	7,751.1	23.5	26.3	-84.48	1,653.0	-69.7	822.5	778.7	43.80	18.779		
8,600.0	7,740.0	7,916.9	7,756.5	24.9	26.3	-85.21	1,653.3	-69.7	738.8	694.3	44.44	16.623		
8,700.0	7,740.0	7,930.0	7,769.5	26.4	26.3	-86.97	1,654.2	-69.6	659.5	614.4	45.14	14.611		
8,800.0	7,740.0	7,930.0	7,769.5	27.8	26.3	-86.97	1,654.2	-69.6	586.5	540.7	45.81	12.802		
8,900.0	7,740.0	7,934.5	7,774.1	29.3	26.3	-87.58	1,654.5	-69.6	522.4	476.1	46.38	11.265		
9,000.0	7,740.0	7,940.9	7,780.4	30.9	26.3	-88.43	1,654.9	-69.6	471.0	424.3	46.72	10.082		
9,100.0	7,740.0	7,947.5	7,787.0	32.4	26.3	-89.32	1,655.3	-69.5	436.7	389.8	46.86	9.317		
9,200.0	7,740.0	7,954.3	7,793.8	34.0	26.3	-90.24	1,655.8	-69.5	423.6	376.3	47.26	8.963		
9,206.6	7,740.0	7,954.8	7,794.3	34.1	26.3	-90.30	1,655.8	-69.5	423.5	376.2	47.30	8.953 CC, ES, SF		
9,300.0	7,740.0	7,961.4	7,800.8	35.6	26.3	-91.20	1,656.3	-69.5	433.6	385.5	48.11	9.012		
9,400.0	7,740.0	7,968.7	7,808.2	37.2	26.3	-92.19	1,656.8	-69.5	465.4	416.5	48.85	9.525		
9,500.0	7,740.0	7,976.3	7,815.8	38.8	26.3	-93.21	1,657.3	-69.4	514.8	465.7	49.06	10.493		
9,600.0	7,740.0	7,984.2	7,823.7	40.4	26.4	-94.28	1,657.9	-69.4	577.3	528.5	48.83	11.824		
9,700.0	7,740.0	7,992.5	7,831.9	42.1	26.4	-95.38	1,658.5	-69.3	649.2	600.8	48.39	13.417		
9,800.0	7,740.0	8,001.0	7,840.4	43.7	26.4	-96.52	1,659.2	-69.3	727.7	679.8	47.91	15.189		
9,900.0	7,740.0	8,009.9	7,849.3	45.4	26.4	-97.71	1,659.9	-69.2	810.8	763.4	47.47	17.080		
10,000.0	7,740.0	8,019.2	7,858.5	47.1	26.4	-98.94	1,660.6	-69.2	897.4	850.3	47.11	19.049		
10,100.0	7,740.0	8,028.9	7,868.2	48.7	26.4	-100.21	1,661.4	-69.1	986.4	939.5	46.82	21.067		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8512-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,600.0	7,740.0	7,789.0	7,789.0	24.9	13.6	90.00	1,576.6	1,228.9	1,008.7	975.4	33.32	30.275	
8,700.0	7,740.0	7,789.0	7,789.0	26.4	13.6	90.00	1,576.6	1,228.9	962.6	927.1	35.44	27.157	
8,800.0	7,740.0	7,789.0	7,789.0	27.8	13.6	90.00	1,576.6	1,228.9	925.0	887.2	37.82	24.455	
8,900.0	7,740.0	7,789.0	7,789.0	29.3	13.6	90.00	1,576.6	1,228.9	897.0	856.7	40.35	22.230	
9,000.0	7,740.0	7,789.0	7,789.0	30.9	13.6	90.00	1,576.6	1,228.9	879.6	836.7	42.89	20.510	
9,100.0	7,740.0	7,789.0	7,789.0	32.4	13.6	90.00	1,576.6	1,228.9	873.3	828.0	45.28	19.285	
9,104.8	7,740.0	7,789.0	7,789.0	32.5	13.6	90.00	1,576.6	1,228.9	873.3	827.9	45.39	19.238 CC, ES	
9,200.0	7,740.0	7,789.0	7,789.0	34.0	13.6	90.00	1,576.6	1,228.9	878.5	831.1	47.41	18.528	
9,300.0	7,740.0	7,789.0	7,789.0	35.6	13.6	90.00	1,576.6	1,228.9	894.9	845.7	49.19	18.193 SF	
9,400.0	7,740.0	7,789.0	7,789.0	37.2	13.6	90.00	1,576.6	1,228.9	921.9	871.3	50.56	18.232	
9,500.0	7,740.0	7,789.0	7,789.0	38.8	13.6	90.00	1,576.6	1,228.9	958.6	907.0	51.55	18.594	
9,600.0	7,740.0	7,789.0	7,789.0	40.4	13.6	90.00	1,576.6	1,228.9	1,003.9	951.7	52.20	19.233	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 71-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,400.0	7,384.4	7,675.7	7,453.1	14.4	28.8	76.43	154.6	1,388.3	1,036.1	994.4	41.65	24.878		
7,500.0	7,473.1	7,759.0	7,536.4	14.6	28.8	82.01	154.4	1,387.2	1,025.2	983.3	41.86	24.493		
7,600.0	7,552.5	7,835.0	7,612.4	14.9	28.9	86.64	154.3	1,386.5	1,016.7	974.6	42.13	24.136		
7,700.0	7,620.2	7,901.3	7,678.7	15.3	28.9	90.42	154.4	1,386.0	1,013.3	970.8	42.49	23.845		
7,701.3	7,621.0	7,902.0	7,679.5	15.3	28.9	90.46	154.4	1,386.0	1,013.3	970.8	42.50	23.842 CC, ES		
7,800.0	7,674.1	7,954.5	7,731.9	15.9	29.0	92.95	154.6	1,385.7	1,017.3	974.4	42.97	23.676 SF		
7,900.0	7,712.7	7,992.9	7,770.3	16.7	29.0	93.83	154.8	1,385.5	1,030.9	987.4	43.51	23.694		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 41-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
3,200.0	3,196.4	3,769.1	3,523.4	6.1	22.6	-31.45	382.6	1,001.7	993.3	969.1	24.15	41.130		
3,300.0	3,296.2	3,855.0	3,601.0	6.3	23.2	-29.75	346.5	993.9	961.7	936.5	25.21	38.155		
3,400.0	3,396.1	3,938.9	3,677.4	6.5	23.8	-28.09	312.6	985.9	931.6	905.3	26.26	35.475		
3,500.0	3,495.9	4,018.5	3,749.9	6.7	24.4	-26.42	280.6	979.1	903.3	875.9	27.34	33.039		
3,600.0	3,595.7	4,109.1	3,832.3	6.9	25.1	-24.35	243.5	972.6	876.9	848.4	28.52	30.752		
3,700.0	3,695.6	4,184.3	3,900.4	7.1	25.7	-22.49	211.9	967.7	852.2	822.5	29.66	28.730		
3,800.0	3,795.4	4,265.6	3,973.8	7.3	26.3	-20.32	177.2	964.5	830.9	800.0	30.87	26.920		
3,900.0	3,895.3	4,353.9	4,053.7	7.4	27.0	-17.87	139.7	961.0	811.4	779.3	32.10	25.277		
4,000.0	3,995.1	4,452.8	4,143.0	7.6	27.7	-15.00	97.5	957.3	794.0	760.5	33.43	23.747		
4,100.0	4,095.0	4,557.8	4,235.8	7.8	28.6	-11.55	48.7	952.0	776.8	741.9	34.87	22.280		
4,200.0	4,194.8	4,645.6	4,313.1	8.0	29.4	-8.52	7.3	946.7	761.3	725.1	36.12	21.075		
4,300.0	4,294.7	4,723.1	4,382.1	8.2	30.0	-5.87	-27.9	942.5	749.0	711.9	37.18	20.149		
4,400.0	4,394.5	4,809.3	4,460.3	8.4	30.6	-3.10	-64.0	938.9	740.4	702.3	38.14	19.411		
4,500.0	4,494.4	4,902.7	4,546.5	8.6	31.2	-0.34	-99.4	935.3	734.0	695.0	39.02	18.809		
4,600.0	4,594.2	5,010.8	4,648.0	8.8	31.9	2.60	-136.4	930.4	728.5	688.6	39.87	18.271		
4,700.0	4,694.1	5,102.3	4,734.8	9.0	32.4	4.93	-165.3	925.9	723.7	683.1	40.52	17.859		
4,800.0	4,793.9	5,200.6	4,829.0	9.2	32.9	7.19	-192.9	921.8	720.2	679.1	41.09	17.526		
4,900.0	4,893.8	5,301.8	4,927.1	9.4	33.3	9.22	-217.3	918.0	717.2	675.6	41.58	17.248		
5,000.0	4,993.6	5,402.7	5,026.0	9.6	33.7	10.87	-236.9	915.0	714.5	672.5	41.99	17.016		
5,100.0	5,093.5	5,506.4	5,128.2	9.8	34.0	12.34	-254.1	912.3	711.7	669.3	42.37	16.799		
5,200.0	5,193.3	5,616.7	5,237.5	10.0	34.3	13.67	-269.0	909.2	708.2	665.5	42.69	16.589		
5,300.0	5,293.2	5,723.9	5,344.1	10.2	34.5	14.66	-279.3	906.1	703.4	660.4	42.97	16.369		
5,400.0	5,393.0	5,825.4	5,445.4	10.4	34.6	15.35	-285.9	903.4	698.0	654.8	43.21	16.154		
5,500.0	5,492.8	5,928.4	5,548.2	10.6	34.7	15.83	-289.8	901.8	692.6	649.2	43.44	15.946		
5,600.0	5,592.7	6,036.2	5,656.1	10.8	34.8	16.15	-291.4	899.8	686.2	642.6	43.65	15.723		
5,700.0	5,692.5	6,136.1	5,755.9	11.0	34.8	16.33	-291.3	898.0	679.2	635.3	43.86	15.484		
5,800.0	5,792.4	6,235.3	5,855.1	11.2	34.9	16.52	-291.3	896.3	672.3	628.2	44.09	15.249		
5,900.0	5,892.2	6,334.6	5,954.4	11.4	35.0	16.72	-291.3	894.6	665.4	621.1	44.31	15.018		
6,000.0	5,992.1	6,433.8	6,053.5	11.6	35.0	16.92	-291.5	892.9	658.6	614.1	44.53	14.792		
6,100.0	6,091.9	6,532.2	6,151.9	11.8	35.1	17.12	-291.6	891.4	652.0	607.3	44.74	14.573		
6,200.0	6,191.8	6,629.7	6,249.5	12.0	35.1	17.27	-291.3	890.4	645.7	600.7	44.95	14.364		
6,300.0	6,291.6	6,728.5	6,348.3	12.2	35.2	17.39	-290.7	889.8	639.6	594.5	45.17	14.160		
6,400.0	6,391.5	6,828.1	6,447.8	12.4	35.2	17.53	-290.3	889.2	633.7	588.3	45.39	13.960		
6,500.0	6,491.3	6,928.1	6,547.9	12.6	35.3	17.70	-290.2	888.5	627.7	582.1	45.62	13.761		
6,600.0	6,591.2	7,028.3	6,648.1	12.8	35.4	17.89	-290.3	887.7	621.7	575.9	45.84	13.563		
6,700.0	6,691.0	7,129.4	6,749.2	13.0	35.4	18.11	-290.5	886.6	615.6	569.5	46.06	13.364		
6,800.0	6,790.9	7,230.2	6,849.9	13.2	35.5	18.35	-290.7	885.2	609.2	562.9	46.28	13.163		
6,900.0	6,890.7	7,330.5	6,950.2	13.4	35.6	18.60	-291.0	883.8	602.8	556.3	46.51	12.962		
7,000.0	6,990.6	7,431.5	7,051.2	13.6	35.6	18.86	-291.3	882.2	596.2	549.5	46.73	12.760		
7,100.0	7,090.4	7,532.8	7,152.5	13.8	35.7	19.12	-291.4	880.4	589.4	542.5	46.95	12.556		
7,200.0	7,190.3	7,632.8	7,252.5	14.0	35.8	22.35	-291.4	878.4	582.8	535.6	47.16	12.357		
7,259.7	7,249.5	7,692.2	7,311.8	14.1	35.8	96.66	-291.4	877.3	581.3	534.0	47.25	12.302	CC, ES, SF	
7,300.0	7,289.2	7,732.0	7,351.7	14.2	35.8	103.86	-291.3	876.5	582.0	534.7	47.26	12.314		
7,400.0	7,384.4	7,828.3	7,448.0	14.4	35.9	112.13	-290.9	874.7	590.3	543.1	47.19	12.510		
7,500.0	7,473.1	7,916.9	7,536.5	14.6	36.0	116.49	-290.4	873.0	609.3	562.4	46.93	12.983		
7,600.0	7,552.5	7,994.3	7,613.9	14.9	36.0	118.89	-289.7	871.9	641.1	594.6	46.49	13.789		
7,700.0	7,620.2	8,060.0	7,679.6	15.3	36.0	119.39	-289.1	871.3	686.6	640.7	45.91	14.954		
7,800.0	7,674.1	8,114.9	7,734.5	15.9	36.1	117.65	-288.5	870.9	745.3	700.1	45.23	16.478		
7,900.0	7,712.7	8,153.9	7,773.5	16.7	36.1	112.53	-288.1	870.7	815.6	771.1	44.51	18.322		
8,000.0	7,734.8	8,176.7	7,796.2	17.5	36.1	102.75	-287.9	870.7	894.9	851.1	43.82	20.421		
8,100.0	7,740.0	8,182.8	7,802.4	18.6	36.1	91.24	-287.8	870.6	980.2	937.0	43.20	22.689		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S1-T1N-R69W (Bailey) - Bailey 8-8-1 - DD - DD													Offset Site Error: 0.0 ft	
Survey Program: 811-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		
9,400.0	7,740.0	7,944.0	7,719.5	37.2	28.0	-89.42	2,277.9	-596.1	1,036.2	984.8	51.35	20.180		
9,500.0	7,740.0	7,945.9	7,721.5	38.8	28.0	-89.54	2,278.0	-596.1	998.1	943.7	54.38	18.352		
9,600.0	7,740.0	7,947.9	7,723.5	40.4	28.0	-89.66	2,278.0	-596.1	968.8	911.2	57.54	16.836		
9,700.0	7,740.0	7,949.9	7,725.4	42.1	28.0	-89.78	2,278.0	-596.1	949.2	888.5	60.65	15.651		
9,800.0	7,740.0	7,951.8	7,727.4	43.7	28.0	-89.90	2,278.1	-596.1	939.9	876.4	63.52	14.798		
9,838.0	7,740.0	7,952.6	7,728.1	44.4	28.0	-89.95	2,278.1	-596.1	939.1	874.6	64.51	14.558	CC, ES	
9,900.0	7,740.0	7,953.8	7,729.3	45.4	28.0	-90.02	2,278.1	-596.1	941.1	875.2	65.97	14.265		
10,000.0	7,740.0	7,955.7	7,731.3	47.1	28.0	-90.14	2,278.2	-596.1	953.0	885.1	67.91	14.034	SF	
10,100.0	7,740.0	7,957.7	7,733.3	48.7	28.0	-90.26	2,278.2	-596.1	975.0	905.7	69.26	14.077		
10,200.0	7,740.0	7,959.7	7,735.2	50.4	28.0	-90.38	2,278.2	-596.1	1,006.4	936.4	70.05	14.366		
10,300.0	7,740.0	7,961.6	7,737.2	52.1	28.0	-90.50	2,278.3	-596.1	1,046.6	976.2	70.35	14.876		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S1-T1N-R69W (Bailey) - Bailey 8-8-1 - DD - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-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)			
9,400.0	7,740.0	7,916.3	7,729.0	37.2	28.4	-90.00	2,253.5	-580.4	1,012.0	960.3	51.75	19.555	
9,500.0	7,740.0	7,916.3	7,729.0	38.8	28.4	-90.00	2,253.5	-580.4	975.5	920.6	54.90	17.769	
9,600.0	7,740.0	7,916.3	7,729.0	40.4	28.4	-90.00	2,253.5	-580.4	948.1	890.0	58.13	16.310	
9,700.0	7,740.0	7,916.3	7,729.0	42.1	28.4	-90.00	2,253.5	-580.4	930.7	869.5	61.27	15.191	
9,800.0	7,740.0	7,916.3	7,729.0	43.7	28.4	-90.00	2,253.5	-580.4	923.9	859.8	64.11	14.412	
9,813.1	7,740.0	7,916.3	7,729.0	44.0	28.4	-90.00	2,253.5	-580.4	923.8	859.4	64.45	14.334	CC, ES
9,900.0	7,740.0	7,916.3	7,729.0	45.4	28.4	-90.00	2,253.5	-580.4	927.9	861.4	66.49	13.956	
10,000.0	7,740.0	7,916.3	7,729.0	47.1	28.4	-90.00	2,253.5	-580.4	942.5	874.2	68.30	13.801	SF
10,100.0	7,740.0	7,916.3	7,729.0	48.7	28.4	-90.00	2,253.5	-580.4	967.3	897.8	69.50	13.918	
10,200.0	7,740.0	7,916.3	7,729.0	50.4	28.4	-90.00	2,253.5	-580.4	1,001.6	931.4	70.15	14.278	
10,300.0	7,740.0	7,916.3	7,729.0	52.1	28.4	-90.00	2,253.5	-580.4	1,044.3	974.0	70.30	14.853	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden #1 (Existing Well) - Existing - Existing													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		
10,400.0	7,740.0	7,690.7	7,688.2	53.8	13.7	88.59	3,460.3	1,166.7	1,029.5	974.5	55.04	18.704		
10,500.0	7,740.0	7,692.9	7,690.4	55.5	13.7	88.74	3,460.3	1,166.7	975.8	916.7	59.00	16.538		
10,600.0	7,740.0	7,695.2	7,692.7	57.1	13.7	88.89	3,460.4	1,166.7	929.6	866.5	63.12	14.729		
10,700.0	7,740.0	7,697.5	7,694.9	58.8	13.7	89.05	3,460.4	1,166.7	892.4	825.2	67.22	13.275		
10,800.0	7,740.0	7,699.8	7,697.3	60.5	13.7	89.21	3,460.5	1,166.7	865.1	794.0	71.11	12.166		
10,900.0	7,740.0	7,702.4	7,699.9	62.3	13.7	89.38	3,460.5	1,166.8	848.9	774.3	74.55	11.387		
10,989.5	7,740.0	7,704.7	7,702.2	63.8	13.7	89.54	3,460.6	1,166.8	844.1	767.1	77.06	10.954 CC		
11,000.0	7,740.0	7,705.0	7,702.5	64.0	13.7	89.56	3,460.6	1,166.8	844.2	766.9	77.31	10.919 ES		
11,100.0	7,740.0	7,707.5	7,705.0	65.7	13.7	89.73	3,460.7	1,166.8	851.3	772.1	79.27	10.740 SF		
11,200.0	7,740.0	7,710.1	7,707.6	67.4	13.7	89.90	3,460.7	1,166.8	870.0	789.6	80.36	10.825		
11,300.0	7,740.0	7,712.6	7,710.1	69.1	13.7	90.08	3,460.8	1,166.8	899.4	818.7	80.67	11.149		
11,400.0	7,740.0	7,715.2	7,712.6	70.8	13.7	90.25	3,460.8	1,166.9	938.6	858.3	80.31	11.687		
11,500.0	7,740.0	7,717.7	7,715.1	72.5	13.7	90.42	3,460.9	1,166.9	986.4	906.9	79.46	12.414		
11,600.0	7,740.0	7,720.2	7,717.6	74.2	13.7	90.59	3,460.9	1,166.9	1,041.6	963.4	78.27	13.309		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden 13-6 (Existing Well) - DD - DD													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		
10,800.0	7,740.0	7,841.4	7,723.3	60.5	24.4	-89.66	4,230.0	24.3	1,019.3	970.9	48.44	21.043		
10,900.0	7,740.0	7,841.3	7,723.2	62.3	24.4	-89.63	4,230.0	24.3	923.7	873.8	49.89	18.514		
11,000.0	7,740.0	7,841.2	7,723.0	64.0	24.4	-89.60	4,230.0	24.3	829.2	777.5	51.69	16.040		
11,100.0	7,740.0	7,841.0	7,722.9	65.7	24.4	-89.58	4,230.0	24.3	736.0	682.1	53.96	13.641		
11,200.0	7,740.0	7,840.9	7,722.8	67.4	24.4	-89.55	4,230.0	24.3	645.0	588.1	56.87	11.342		
11,300.0	7,740.0	7,840.8	7,722.6	69.1	24.4	-89.52	4,230.0	24.3	557.0	496.4	60.66	9.183		
11,400.0	7,740.0	7,840.6	7,722.5	70.8	24.4	-89.50	4,230.0	24.3	473.8	408.2	65.65	7.217		
11,500.0	7,740.0	7,840.5	7,722.4	72.5	24.4	-89.47	4,230.0	24.3	398.5	326.2	72.22	5.518		
11,600.0	7,740.0	7,840.4	7,722.2	74.2	24.4	-89.44	4,230.0	24.3	336.2	255.7	80.50	4.176		
11,700.0	7,740.0	7,840.2	7,722.1	76.0	24.4	-89.42	4,230.0	24.3	295.4	206.0	89.40	3.304		
11,778.7	7,740.0	7,840.1	7,722.0	77.3	24.4	-89.39	4,230.0	24.3	284.7	190.7	94.04	3.028 CC, ES		
11,800.0	7,740.0	7,840.1	7,722.0	77.7	24.4	-89.39	4,230.0	24.3	285.5	191.0	94.52	3.021 SF		
11,900.0	7,740.0	7,840.0	7,721.8	79.4	24.4	-89.36	4,230.0	24.3	309.5	217.6	91.87	3.369		
12,000.0	7,740.0	7,839.8	7,721.7	81.1	24.4	-89.33	4,230.0	24.3	360.6	276.3	84.30	4.278		
12,100.0	7,740.0	7,839.7	7,721.6	82.9	24.4	-89.30	4,230.0	24.4	429.3	353.1	76.20	5.634		
12,200.0	7,740.0	7,839.5	7,721.4	84.6	24.4	-89.28	4,230.0	24.4	508.5	439.0	69.42	7.325		
12,300.0	7,740.0	7,839.4	7,721.3	86.3	24.4	-89.25	4,230.0	24.4	594.0	529.8	64.17	9.257		
12,400.0	7,740.0	7,839.3	7,721.1	88.0	24.4	-89.22	4,230.0	24.4	683.4	623.2	60.19	11.355		
12,500.0	7,740.0	7,839.1	7,721.0	89.8	24.4	-89.19	4,230.0	24.4	775.4	718.3	57.17	13.563		
12,600.0	7,740.0	7,839.0	7,720.8	91.5	24.4	-89.16	4,230.0	24.4	869.2	814.3	54.87	15.840		
12,700.0	7,740.0	7,838.8	7,720.7	93.2	24.4	-89.13	4,230.0	24.4	964.3	911.2	53.11	18.157		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden 14-6(Existing Well) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 797-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
9,500.0	7,740.0	7,877.7	7,712.2	38.8	25.8	-87.85	2,903.3	-9.9	1,012.5	963.0	49.50	20.453		
9,600.0	7,740.0	7,879.2	7,713.6	40.4	25.8	-88.09	2,903.3	-9.9	919.0	868.0	51.09	17.987		
9,700.0	7,740.0	7,880.6	7,715.0	42.1	25.8	-88.33	2,903.3	-9.9	827.1	774.1	53.01	15.602		
9,800.0	7,740.0	7,882.1	7,716.5	43.7	25.8	-88.57	2,903.4	-9.9	737.2	681.9	55.34	13.321		
9,900.0	7,740.0	7,883.5	7,717.9	45.4	25.8	-88.81	2,903.4	-9.9	650.3	592.1	58.19	11.175		
10,000.0	7,740.0	7,884.9	7,719.3	47.1	25.8	-89.05	2,903.4	-9.9	567.7	506.1	61.65	9.209		
10,100.0	7,740.0	7,886.3	7,720.8	48.7	25.8	-89.29	2,903.4	-9.9	491.6	425.9	65.70	7.483		
10,200.0	7,740.0	7,887.8	7,722.2	50.4	25.8	-89.52	2,903.4	-9.9	425.5	355.5	70.01	6.078		
10,300.0	7,740.0	7,889.2	7,723.6	52.1	25.8	-89.76	2,903.5	-9.9	374.8	301.3	73.50	5.100		
10,400.0	7,740.0	7,890.6	7,725.0	53.8	25.8	-90.00	2,903.5	-9.9	346.2	272.1	74.17	4.668 SF		
10,453.1	7,740.0	7,891.3	7,725.7	54.7	25.8	-90.12	2,903.5	-9.9	342.1	269.3	72.81	4.699 CC, ES		
10,500.0	7,740.0	7,892.0	7,726.4	55.5	25.8	-90.23	2,903.5	-9.9	345.3	274.7	70.66	4.887		
10,600.0	7,740.0	7,893.4	7,727.8	57.1	25.8	-90.46	2,903.5	-9.9	372.3	307.8	64.51	5.772		
10,700.0	7,740.0	7,894.8	7,729.2	58.8	25.8	-90.70	2,903.5	-9.9	421.9	363.3	58.62	7.198		
10,800.0	7,740.0	7,896.1	7,730.6	60.5	25.8	-90.93	2,903.6	-9.9	487.2	433.1	54.13	9.000		
10,900.0	7,740.0	7,897.5	7,731.9	62.3	25.8	-91.16	2,903.6	-9.9	562.8	511.9	50.89	11.059		
11,000.0	7,740.0	7,898.9	7,733.3	64.0	25.8	-91.39	2,903.6	-9.9	645.1	596.5	48.55	13.287		
11,100.0	7,740.0	7,900.3	7,734.7	65.7	25.9	-91.62	2,903.6	-9.9	731.8	684.9	46.85	15.621		
11,200.0	7,740.0	7,901.6	7,736.1	67.4	25.9	-91.85	2,903.6	-9.9	821.5	775.9	45.61	18.013		
11,300.0	7,740.0	7,903.0	7,737.4	69.1	25.9	-92.08	2,903.7	-9.9	913.4	868.6	44.70	20.432		
11,400.0	7,740.0	7,904.4	7,738.8	70.8	25.9	-92.31	2,903.7	-9.9	1,006.8	962.7	44.05	22.857		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													S6-T1N-R68W (Bearden) - Bearden 24-6 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program:													0-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)							
10,000.0	7,740.0	7,797.8	7,725.0	47.1	19.0	90.00	2,891.0	1,252.6	1,010.7	951.2	59.45	16.999					
10,100.0	7,740.0	7,797.8	7,725.0	48.7	19.0	90.00	2,891.0	1,252.6	973.5	910.6	62.94	15.467					
10,200.0	7,740.0	7,797.8	7,725.0	50.4	19.0	90.00	2,891.0	1,252.6	945.5	879.3	66.26	14.271					
10,300.0	7,740.0	7,797.8	7,725.0	52.1	19.0	90.00	2,891.0	1,252.6	927.5	858.3	69.22	13.400					
10,400.0	7,740.0	7,797.8	7,725.0	53.8	19.0	90.00	2,891.0	1,252.6	920.1	848.5	71.68	12.837					
10,418.5	7,740.0	7,797.8	7,725.0	54.1	19.0	90.00	2,891.0	1,252.6	919.9	847.9	72.06	12.766 CC, ES					
10,500.0	7,740.0	7,797.8	7,725.0	55.5	19.0	90.00	2,891.0	1,252.6	923.5	850.0	73.50	12.565					
10,600.0	7,740.0	7,797.8	7,725.0	57.1	19.0	90.00	2,891.0	1,252.6	937.7	863.0	74.65	12.560 SF					
10,700.0	7,740.0	7,797.8	7,725.0	58.8	19.0	90.00	2,891.0	1,252.6	962.0	886.9	75.16	12.800					
10,800.0	7,740.0	7,797.8	7,725.0	60.5	19.0	90.00	2,891.0	1,252.6	995.9	920.8	75.10	13.261					
10,900.0	7,740.0	7,797.8	7,725.0	62.3	19.0	90.00	2,891.0	1,252.6	1,038.3	963.7	74.59	13.920					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - S													Offset Site Error: 0.0 ft
Survey Program: 46-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,500.0	7,740.0	7,969.0	7,724.7	55.5	31.1	-90.05	3,560.9	-532.9	1,054.7	983.3	71.38	14.775	
10,600.0	7,740.0	7,970.1	7,725.8	57.1	31.1	-90.12	3,560.9	-532.9	999.2	926.0	73.20	13.651	
10,700.0	7,740.0	7,971.2	7,726.9	58.8	31.1	-90.20	3,560.9	-532.9	951.1	876.2	74.88	12.702	
10,800.0	7,740.0	7,972.3	7,728.1	60.5	31.1	-90.27	3,560.9	-532.9	911.4	835.0	76.34	11.939	
10,900.0	7,740.0	7,973.5	7,729.2	62.3	31.1	-90.35	3,560.9	-532.8	881.3	803.8	77.54	11.366	
11,000.0	7,740.0	7,974.6	7,730.4	64.0	31.1	-90.43	3,561.0	-532.8	861.9	783.4	78.50	10.979	
11,100.0	7,740.0	7,975.8	7,731.5	65.7	31.1	-90.50	3,561.0	-532.8	853.7	774.4	79.30	10.766	
11,119.6	7,740.0	7,976.0	7,731.7	66.0	31.1	-90.52	3,561.0	-532.8	853.5	774.1	79.45	10.743 CC, ES	
11,200.0	7,740.0	7,976.9	7,732.7	67.4	31.1	-90.58	3,561.0	-532.8	857.3	777.3	80.03	10.712 SF	
11,300.0	7,740.0	7,978.1	7,733.8	69.1	31.1	-90.66	3,561.0	-532.8	872.4	791.7	80.66	10.815	
11,400.0	7,740.0	7,979.3	7,735.0	70.8	31.1	-90.74	3,561.0	-532.8	898.4	817.3	81.06	11.083	
11,500.0	7,740.0	7,980.5	7,736.2	72.5	31.1	-90.82	3,561.0	-532.8	934.4	853.3	81.13	11.517	
11,600.0	7,740.0	7,981.7	7,737.4	74.2	31.1	-90.90	3,561.0	-532.8	979.4	898.6	80.85	12.114	
11,700.0	7,740.0	7,982.9	7,738.6	76.0	31.1	-90.98	3,561.1	-532.8	1,032.2	951.9	80.25	12.862	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SUR													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		
10,500.0	7,740.0	7,688.1	7,685.6	55.5	13.7	87.79	3,776.4	924.3	1,012.2	967.2	45.04	22.472		
10,600.0	7,740.0	7,690.2	7,687.7	57.1	13.7	87.99	3,776.4	924.3	934.1	885.6	48.51	19.255		
10,700.0	7,740.0	7,692.3	7,689.8	58.8	13.7	88.19	3,776.5	924.3	860.6	808.1	52.58	16.368		
10,800.0	7,740.0	7,694.5	7,692.0	60.5	13.7	88.39	3,776.5	924.3	793.0	735.7	57.26	13.848		
10,900.0	7,740.0	7,696.7	7,694.2	62.3	13.7	88.61	3,776.6	924.4	732.7	670.2	62.49	11.725		
11,000.0	7,740.0	7,699.0	7,696.5	64.0	13.7	88.82	3,776.6	924.4	681.8	613.7	68.07	10.016		
11,100.0	7,740.0	7,701.5	7,698.9	65.7	13.7	89.05	3,776.7	924.4	642.6	569.0	73.62	8.728		
11,200.0	7,740.0	7,704.0	7,701.5	67.4	13.7	89.29	3,776.8	924.4	617.2	538.6	78.57	7.855		
11,300.0	7,740.0	7,706.5	7,704.0	69.1	13.7	89.53	3,776.8	924.4	607.4	525.1	82.29	7.381		
11,310.0	7,740.0	7,706.7	7,704.2	69.3	13.7	89.55	3,776.8	924.4	607.3	524.8	82.57	7.355 CC, ES		
11,400.0	7,740.0	7,709.0	7,706.5	70.8	13.7	89.76	3,776.9	924.5	614.0	529.6	84.34	7.279 SF		
11,500.0	7,740.0	7,711.5	7,709.0	72.5	13.7	90.00	3,776.9	924.5	636.4	551.7	84.67	7.516		
11,600.0	7,740.0	7,713.9	7,711.4	74.2	13.7	90.23	3,777.0	924.5	673.0	589.4	83.58	8.052		
11,700.0	7,740.0	7,716.4	7,713.9	76.0	13.7	90.46	3,777.0	924.5	721.7	640.2	81.55	8.850		
11,800.0	7,740.0	7,718.8	7,716.3	77.7	13.7	90.69	3,777.1	924.5	780.3	701.3	79.03	9.873		
11,900.0	7,740.0	7,721.3	7,718.7	79.4	13.7	90.92	3,777.2	924.5	846.6	770.3	76.36	11.088		
12,000.0	7,740.0	7,723.7	7,721.2	81.1	13.7	91.15	3,777.2	924.5	919.1	845.4	73.74	12.465		
12,100.0	7,740.0	7,726.1	7,723.6	82.9	13.7	91.37	3,777.3	924.6	996.3	925.0	71.28	13.978		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - S													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		
10,800.0	7,740.0	7,841.4	7,723.3	60.5	24.4	-89.66	4,229.9	24.3	1,019.3	970.8	48.44	21.042		
10,900.0	7,740.0	7,841.3	7,723.2	62.3	24.4	-89.63	4,229.9	24.3	923.7	873.8	49.90	18.512		
11,000.0	7,740.0	7,841.2	7,723.0	64.0	24.4	-89.60	4,229.9	24.3	829.1	777.4	51.70	16.039		
11,100.0	7,740.0	7,841.0	7,722.9	65.7	24.4	-89.58	4,229.9	24.3	736.0	682.0	53.96	13.639		
11,200.0	7,740.0	7,840.9	7,722.8	67.4	24.4	-89.55	4,229.9	24.3	645.0	588.1	56.87	11.341		
11,300.0	7,740.0	7,840.8	7,722.6	69.1	24.4	-89.52	4,229.9	24.3	557.0	496.3	60.66	9.182		
11,400.0	7,740.0	7,840.6	7,722.5	70.8	24.4	-89.50	4,229.9	24.3	473.8	408.2	65.66	7.217		
11,500.0	7,740.0	7,840.5	7,722.4	72.5	24.4	-89.47	4,229.9	24.3	398.4	326.2	72.22	5.517		
11,600.0	7,740.0	7,840.4	7,722.2	74.2	24.4	-89.44	4,229.9	24.3	336.2	255.7	80.50	4.176		
11,700.0	7,740.0	7,840.2	7,722.1	76.0	24.4	-89.42	4,229.9	24.3	295.4	206.0	89.41	3.304		
11,778.7	7,740.0	7,840.1	7,722.0	77.3	24.4	-89.39	4,229.9	24.3	284.8	190.7	94.04	3.028 CC, ES		
11,800.0	7,740.0	7,840.1	7,722.0	77.7	24.4	-89.39	4,229.9	24.3	285.6	191.0	94.52	3.021 SF		
11,900.0	7,740.0	7,840.0	7,721.8	79.4	24.4	-89.36	4,229.9	24.3	309.5	217.7	91.87	3.369		
12,000.0	7,740.0	7,839.8	7,721.7	81.1	24.4	-89.33	4,229.9	24.3	360.6	276.4	84.29	4.278		
12,100.0	7,740.0	7,839.7	7,721.6	82.9	24.4	-89.30	4,229.9	24.3	429.3	353.1	76.20	5.635		
12,200.0	7,740.0	7,839.5	7,721.4	84.6	24.4	-89.28	4,229.9	24.3	508.5	439.1	69.42	7.326		
12,300.0	7,740.0	7,839.4	7,721.3	86.3	24.4	-89.25	4,229.9	24.3	594.0	529.8	64.17	9.257		
12,400.0	7,740.0	7,839.3	7,721.1	88.0	24.4	-89.22	4,229.9	24.3	683.5	623.3	60.19	11.356		
12,500.0	7,740.0	7,839.1	7,721.0	89.8	24.4	-89.19	4,229.9	24.3	775.5	718.3	57.17	13.564		
12,600.0	7,740.0	7,839.0	7,720.8	91.5	24.4	-89.16	4,229.9	24.3	869.3	814.4	54.87	15.841		
12,700.0	7,740.0	7,838.8	7,720.7	93.2	24.4	-89.13	4,229.9	24.3	964.3	911.2	53.11	18.158		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - S													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	
9,500.0	7,740.0	7,877.7	7,712.2	38.8	25.8	-87.85	2,903.3	-9.9	1,012.5	963.0	49.50	20.452	
9,600.0	7,740.0	7,879.2	7,713.6	40.4	25.8	-88.09	2,903.3	-9.9	919.0	867.9	51.09	17.986	
9,700.0	7,740.0	7,880.6	7,715.0	42.1	25.8	-88.33	2,903.3	-9.9	827.0	774.0	53.01	15.601	
9,800.0	7,740.0	7,882.1	7,716.5	43.7	25.8	-88.57	2,903.3	-9.9	737.2	681.8	55.34	13.320	
9,900.0	7,740.0	7,883.5	7,717.9	45.4	25.8	-88.81	2,903.3	-9.9	650.2	592.1	58.19	11.174	
10,000.0	7,740.0	7,884.9	7,719.3	47.1	25.8	-89.05	2,903.4	-9.9	567.7	506.0	61.65	9.208	
10,100.0	7,740.0	7,886.3	7,720.8	48.7	25.8	-89.29	2,903.4	-9.9	491.6	425.9	65.70	7.482	
10,200.0	7,740.0	7,887.8	7,722.2	50.4	25.8	-89.52	2,903.4	-9.9	425.5	355.5	70.01	6.078	
10,300.0	7,740.0	7,889.2	7,723.6	52.1	25.8	-89.76	2,903.4	-9.9	374.8	301.3	73.50	5.099	
10,400.0	7,740.0	7,890.6	7,725.0	53.8	25.8	-90.00	2,903.4	-9.9	346.2	272.0	74.17	4.668 SF	
10,453.0	7,740.0	7,891.3	7,725.7	54.7	25.8	-90.12	2,903.4	-9.9	342.1	269.3	72.81	4.699 CC, ES	
10,500.0	7,740.0	7,892.0	7,726.4	55.5	25.8	-90.23	2,903.5	-9.9	345.3	274.7	70.65	4.887	
10,600.0	7,740.0	7,893.4	7,727.8	57.1	25.8	-90.46	2,903.5	-9.9	372.3	307.8	64.51	5.772	
10,700.0	7,740.0	7,894.8	7,729.2	58.8	25.8	-90.70	2,903.5	-9.9	421.9	363.3	58.61	7.198	
10,800.0	7,740.0	7,896.1	7,730.6	60.5	25.8	-90.93	2,903.5	-9.9	487.2	433.1	54.13	9.001	
10,900.0	7,740.0	7,897.5	7,731.9	62.3	25.8	-91.16	2,903.5	-9.9	562.8	512.0	50.89	11.060	
11,000.0	7,740.0	7,898.9	7,733.3	64.0	25.8	-91.39	2,903.5	-9.9	645.1	596.6	48.55	13.289	
11,100.0	7,740.0	7,900.3	7,734.7	65.7	25.9	-91.62	2,903.6	-9.9	731.8	685.0	46.84	15.622	
11,200.0	7,740.0	7,901.6	7,736.1	67.4	25.9	-91.85	2,903.6	-9.9	821.5	775.9	45.61	18.014	
11,300.0	7,740.0	7,903.0	7,737.4	69.1	25.9	-92.08	2,903.6	-9.9	913.4	868.7	44.70	20.433	
11,400.0	7,740.0	7,904.4	7,738.8	70.8	25.9	-92.31	2,903.6	-9.9	1,006.8	962.7	44.04	22.859	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - G		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 Axis	Separation Factor							
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)										
11,500.0	7,740.0	7,678.6	7,676.3	72.5	13.7	88.52	4,367.7	1,305.6	1,074.0	995.2	78.75	13.638						
11,600.0	7,740.0	7,683.4	7,681.0	74.2	13.7	88.80	4,367.9	1,305.6	1,041.4	958.6	82.87	12.567						
11,700.0	7,740.0	7,688.1	7,685.7	76.0	13.7	89.06	4,368.2	1,305.6	1,017.7	931.0	86.67	11.742						
11,800.0	7,740.0	7,692.6	7,690.3	77.7	13.7	89.33	4,368.4	1,305.7	1,003.4	913.4	89.99	11.150						
11,894.9	7,740.0	7,696.9	7,694.5	79.3	13.7	89.57	4,368.5	1,305.7	998.9	906.3	92.56	10.792 CC						
11,900.0	7,740.0	7,697.1	7,694.8	79.4	13.7	89.59	4,368.5	1,305.7	998.9	906.2	92.67	10.778 ES						
12,000.0	7,740.0	7,701.5	7,699.1	81.1	13.7	89.84	4,368.7	1,305.7	1,004.4	909.7	94.62	10.614 SF						
12,100.0	7,740.0	7,705.8	7,703.4	82.9	13.7	90.08	4,368.9	1,305.8	1,019.7	923.9	95.81	10.643						
12,200.0	7,740.0	7,710.1	7,707.7	84.6	13.7	90.33	4,369.1	1,305.8	1,044.3	948.1	96.25	10.850						
12,300.0	7,740.0	7,714.3	7,712.0	86.3	13.7	90.57	4,369.3	1,305.8	1,077.7	981.7	96.05	11.220						

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - P													Offset Site Error: 0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,400.0	7,740.0	7,850.5	7,724.0	70.8	25.6	90.00	4,835.9	634.2	1,030.1	986.8	43.34	23.769	
11,500.0	7,740.0	7,850.5	7,724.0	72.5	25.6	90.00	4,835.9	634.2	936.1	890.3	45.81	20.434	
11,600.0	7,740.0	7,850.5	7,724.0	74.2	25.6	90.00	4,835.9	634.2	843.6	794.6	48.99	17.219	
11,700.0	7,740.0	7,850.5	7,724.0	76.0	25.6	90.00	4,835.9	634.2	752.9	699.8	53.09	14.180	
11,800.0	7,740.0	7,850.5	7,724.0	77.7	25.6	90.00	4,835.9	634.2	664.8	606.4	58.43	11.378	
11,900.0	7,740.0	7,850.5	7,724.0	79.4	25.6	90.00	4,835.9	634.2	580.7	515.3	65.38	8.882	
12,000.0	7,740.0	7,850.5	7,724.0	81.1	25.6	90.00	4,835.9	634.2	502.4	428.1	74.32	6.760	
12,100.0	7,740.0	7,850.5	7,724.0	82.9	25.6	90.00	4,835.9	634.2	433.2	347.8	85.39	5.073	
12,200.0	7,740.0	7,850.5	7,724.0	84.6	25.6	90.00	4,835.9	634.2	378.0	280.3	97.72	3.868	
12,300.0	7,740.0	7,850.5	7,724.0	86.3	25.6	90.00	4,835.9	634.2	343.6	235.4	108.27	3.174	
12,373.9	7,740.0	7,850.5	7,724.0	87.6	25.6	90.00	4,835.9	634.2	335.6	223.4	112.13	2.993 CC, ES, SF	
12,400.0	7,740.0	7,850.5	7,724.0	88.0	25.6	90.00	4,835.9	634.2	336.6	224.2	112.39	2.995	
12,500.0	7,740.0	7,850.5	7,724.0	89.8	25.6	90.00	4,835.9	634.2	358.5	250.1	108.35	3.308	
12,600.0	7,740.0	7,850.5	7,724.0	91.5	25.6	90.00	4,835.9	634.2	404.6	305.1	99.51	4.066	
12,700.0	7,740.0	7,850.5	7,724.0	93.2	25.6	90.00	4,835.9	634.2	467.9	378.0	89.94	5.202	
12,800.0	7,740.0	7,850.5	7,724.0	95.0	25.6	90.00	4,835.9	634.2	542.4	460.7	81.63	6.644	
12,900.0	7,740.0	7,850.5	7,724.0	96.7	25.6	90.00	4,835.9	634.2	624.0	549.0	74.96	8.324	
13,000.0	7,740.0	7,850.5	7,724.0	98.4	25.6	90.00	4,835.9	634.2	710.3	640.6	69.74	10.185	
13,100.0	7,740.0	7,850.5	7,724.0	100.2	25.6	90.00	4,835.9	634.2	799.9	734.2	65.66	12.183	
13,200.0	7,740.0	7,850.5	7,724.0	101.9	25.6	90.00	4,835.9	634.2	891.6	829.2	62.43	14.282	
13,300.0	7,740.0	7,850.5	7,724.0	103.6	25.6	90.00	4,835.9	634.2	985.0	925.1	59.85	16.457	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design		S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - S										Offset Site Error:		0.0 ft	
Survey Program:		76-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)					
8,900.0	7,740.0	7,907.8	7,715.4	29.3	27.9	88.00	2,279.0	590.2	950.8	921.7	29.10	32.673			
9,000.0	7,740.0	7,908.8	7,716.4	30.9	27.9	88.23	2,279.0	590.2	854.7	825.4	29.26	29.206			
9,100.0	7,740.0	7,909.8	7,717.4	32.4	27.9	88.46	2,279.0	590.2	759.5	729.9	29.62	25.640			
9,200.0	7,740.0	7,910.8	7,718.4	34.0	27.9	88.69	2,279.0	590.2	665.7	635.4	30.34	21.941			
9,300.0	7,740.0	7,911.8	7,719.4	35.6	27.9	88.93	2,279.0	590.2	574.1	542.3	31.72	18.097			
9,400.0	7,740.0	7,912.8	7,720.4	37.2	27.9	89.16	2,279.0	590.2	485.7	451.4	34.29	14.166			
9,500.0	7,740.0	7,913.8	7,721.4	38.8	27.9	89.40	2,279.0	590.2	402.8	363.9	38.90	10.354			
9,600.0	7,740.0	7,914.8	7,722.4	40.4	27.9	89.64	2,279.0	590.2	329.6	282.9	46.71	7.056			
9,700.0	7,740.0	7,915.9	7,723.5	42.1	27.9	89.88	2,279.1	590.2	273.8	215.8	58.02	4.720			
9,800.0	7,740.0	7,916.9	7,724.5	43.7	27.9	90.12	2,279.1	590.2	247.6	178.6	69.07	3.585			
9,818.3	7,740.0	7,917.1	7,724.7	44.0	27.9	90.16	2,279.1	590.2	246.9	176.5	70.44	3.506 CC, ES, SF			
9,900.0	7,740.0	7,917.9	7,725.6	45.4	27.9	90.36	2,279.1	590.1	260.1	187.4	72.75	3.575			
10,000.0	7,740.0	7,919.0	7,726.6	47.1	27.9	90.60	2,279.1	590.1	306.6	237.4	69.17	4.433			
10,100.0	7,740.0	7,920.0	7,727.7	48.7	27.9	90.85	2,279.1	590.1	374.6	311.0	63.61	5.889			
10,200.0	7,740.0	7,921.1	7,728.7	50.4	27.9	91.09	2,279.1	590.1	454.6	395.9	58.73	7.741			
10,300.0	7,740.0	7,922.2	7,729.8	52.1	27.9	91.34	2,279.1	590.1	541.3	486.4	54.97	9.848			
10,400.0	7,740.0	7,923.2	7,730.9	53.8	27.9	91.59	2,279.1	590.1	631.9	579.8	52.14	12.120			
10,500.0	7,740.0	7,924.3	7,731.9	55.5	27.9	91.84	2,279.1	590.1	725.0	675.0	50.01	14.499			
10,600.0	7,740.0	7,925.4	7,733.0	57.1	27.9	92.09	2,279.2	590.1	819.8	771.4	48.37	16.947			
10,700.0	7,740.0	7,926.5	7,734.1	58.8	27.9	92.35	2,279.2	590.1	915.6	868.5	47.10	19.440			
10,800.0	7,740.0	7,927.6	7,735.2	60.5	27.9	92.60	2,279.2	590.1	1,012.3	966.2	46.10	21.959			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SUR													Offset Site Error: 0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
12,900.0	7,740.0	7,693.0	7,693.0	96.7	13.4	90.00	6,293.6	723.9	1,033.4	979.1	54.32	19.025	
13,000.0	7,740.0	7,693.0	7,693.0	98.4	13.4	90.00	6,293.6	723.9	944.4	885.8	58.60	16.117	
13,100.0	7,740.0	7,693.0	7,693.0	100.2	13.4	90.00	6,293.6	723.9	857.8	794.1	63.77	13.451	
13,200.0	7,740.0	7,693.0	7,693.0	101.9	13.4	90.00	6,293.6	723.9	774.5	704.5	70.04	11.058	
13,300.0	7,740.0	7,693.0	7,693.0	103.6	13.4	90.00	6,293.6	723.9	695.7	618.1	77.59	8.965	
13,400.0	7,740.0	7,693.0	7,693.0	105.4	13.4	90.00	6,293.6	723.9	622.9	536.3	86.55	7.196	
13,500.0	7,740.0	7,693.0	7,693.0	107.1	13.4	90.00	6,293.6	723.9	558.5	461.7	96.82	5.769	
13,600.0	7,740.0	7,693.0	7,693.0	108.9	13.4	90.00	6,293.6	723.9	506.0	398.2	107.75	4.696	
13,700.0	7,740.0	7,693.0	7,693.0	110.6	13.4	90.00	6,293.6	723.9	469.1	351.2	117.85	3.980	
13,800.0	7,740.0	7,693.0	7,693.0	112.3	13.4	90.00	6,293.6	723.9	451.7	326.8	124.89	3.617	
13,829.9	7,740.0	7,693.0	7,693.0	112.9	13.4	90.00	6,293.6	723.9	450.7	324.6	126.08	3.575 CC, ES, SF	
13,900.0	7,740.0	7,693.0	7,693.0	114.1	13.4	90.00	6,293.6	723.9	456.1	329.1	127.01	3.591	
14,000.0	7,740.0	7,693.0	7,693.0	115.8	13.4	90.00	6,293.6	723.9	481.7	357.5	124.22	3.878	
14,100.0	7,740.0	7,693.0	7,693.0	117.6	13.4	90.00	6,293.6	723.9	525.5	407.3	118.15	4.448	
14,200.0	7,740.0	7,693.0	7,693.0	119.3	13.4	90.00	6,293.6	723.9	584.2	473.4	110.83	5.271	
14,300.0	7,740.0	7,693.0	7,693.0	121.0	13.4	90.00	6,293.6	723.9	654.2	550.5	103.68	6.310	
14,400.0	7,740.0	7,693.0	7,693.0	122.8	13.4	90.00	6,293.6	723.9	732.1	634.7	97.33	7.522	
14,500.0	7,740.0	7,693.0	7,693.0	124.5	13.4	90.00	6,293.6	723.9	814.9	723.0	91.82	8.874	
14,600.0	7,740.0	7,693.0	7,693.0	126.2	13.4	90.00	6,293.6	723.9	901.2	814.0	87.11	10.345	
14,633.9	7,740.0	7,693.0	7,693.0	126.8	13.4	90.00	6,293.6	723.9	931.0	845.4	85.68	10.866	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO												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	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)				
12,100.0	7,740.0	7,697.0	7,697.0	82.9	13.4	-90.00	5,530.8	94.6	996.8	953.6	43.23	23.061		
12,200.0	7,740.0	7,697.0	7,697.0	84.6	13.4	-90.00	5,530.8	94.6	898.9	854.1	44.84	20.047		
12,300.0	7,740.0	7,697.0	7,697.0	86.3	13.4	-90.00	5,530.8	94.6	801.5	754.6	46.88	17.098		
12,400.0	7,740.0	7,697.0	7,697.0	88.0	13.4	-90.00	5,530.8	94.6	704.8	655.3	49.51	14.234		
12,500.0	7,740.0	7,697.0	7,697.0	89.8	13.4	-90.00	5,530.8	94.6	609.2	556.1	53.04	11.486		
12,600.0	7,740.0	7,697.0	7,697.0	91.5	13.4	-90.00	5,530.8	94.6	515.2	457.3	57.90	8.899		
12,700.0	7,740.0	7,697.0	7,697.0	93.2	13.4	-90.00	5,530.8	94.6	424.1	359.2	64.85	6.538		
12,800.0	7,740.0	7,697.0	7,697.0	95.0	13.4	-90.00	5,530.8	94.6	337.9	262.8	75.10	4.500		
12,900.0	7,740.0	7,697.0	7,697.0	96.7	13.4	-90.00	5,530.8	94.6	261.8	171.9	89.95	2.911		
13,000.0	7,740.0	7,697.0	7,697.0	98.4	13.4	-90.00	5,530.8	94.6	207.1	99.9	107.20	1.932		
13,078.2	7,740.0	7,697.0	7,697.0	99.8	13.4	-90.00	5,530.8	94.6	191.8	78.8	113.00	1.697 CC, ES, SF		
13,100.0	7,740.0	7,697.0	7,697.0	100.2	13.4	-90.00	5,530.8	94.6	193.0	81.0	112.03	1.723		
13,200.0	7,740.0	7,697.0	7,697.0	101.9	13.4	-90.00	5,530.8	94.6	227.2	130.7	96.56	2.353		
13,300.0	7,740.0	7,697.0	7,697.0	103.6	13.4	-90.00	5,530.8	94.6	293.2	215.0	78.22	3.749		
13,400.0	7,740.0	7,697.0	7,697.0	105.4	13.4	-90.00	5,530.8	94.6	374.6	309.5	65.15	5.750		
13,500.0	7,740.0	7,697.0	7,697.0	107.1	13.4	-90.00	5,530.8	94.6	463.4	406.8	56.61	8.185		
13,600.0	7,740.0	7,697.0	7,697.0	108.9	13.4	-90.00	5,530.8	94.6	555.9	504.9	50.99	10.902		
13,700.0	7,740.0	7,697.0	7,697.0	110.6	13.4	-90.00	5,530.8	94.6	650.7	603.5	47.21	13.785		
13,800.0	7,740.0	7,697.0	7,697.0	112.3	13.4	-90.00	5,530.8	94.6	746.9	702.3	44.59	16.750		
13,900.0	7,740.0	7,697.0	7,697.0	114.1	13.4	-90.00	5,530.8	94.6	843.9	801.1	42.74	19.743		
14,000.0	7,740.0	7,697.0	7,697.0	115.8	13.4	-90.00	5,530.8	94.6	941.5	900.1	41.42	22.730		
14,100.0	7,740.0	7,697.0	7,697.0	117.6	13.4	-90.00	5,530.8	94.6	1,039.6	999.2	40.46	25.693		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - N													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	
13,400.0	7,740.0	7,688.0	7,688.0	105.4	13.4	-90.00	6,883.4	94.0	1,044.3	999.0	45.31	23.046	
13,500.0	7,740.0	7,688.0	7,688.0	107.1	13.4	-90.00	6,883.4	94.0	945.7	898.8	46.91	20.162	
13,600.0	7,740.0	7,688.0	7,688.0	108.9	13.4	-90.00	6,883.4	94.0	847.5	798.6	48.90	17.331	
13,700.0	7,740.0	7,688.0	7,688.0	110.6	13.4	-90.00	6,883.4	94.0	749.8	698.3	51.47	14.568	
13,800.0	7,740.0	7,688.0	7,688.0	112.3	13.4	-90.00	6,883.4	94.0	652.8	597.9	54.87	11.897	
13,900.0	7,740.0	7,688.0	7,688.0	114.1	13.4	-90.00	6,883.4	94.0	556.8	497.2	59.52	9.354	
14,000.0	7,740.0	7,688.0	7,688.0	115.8	13.4	-90.00	6,883.4	94.0	462.5	396.3	66.15	6.991	
14,100.0	7,740.0	7,688.0	7,688.0	117.6	13.4	-90.00	6,883.4	94.0	371.1	295.1	76.03	4.882	
14,200.0	7,740.0	7,688.0	7,688.0	119.3	13.4	-90.00	6,883.4	94.0	285.0	194.0	90.97	3.133	
14,300.0	7,740.0	7,688.0	7,688.0	121.0	13.4	-90.00	6,883.4	94.0	210.0	96.9	113.13	1.856	
14,400.0	7,740.0	7,688.0	7,688.0	122.8	13.4	-90.00	6,883.4	94.0	162.9	27.8	135.10	1.206 Level 2	
14,438.0	7,740.0	7,688.0	7,688.0	123.4	13.4	-90.00	6,883.4	94.0	158.4	22.2	136.26	1.163 Level 2, CC, ES, SF	
14,500.0	7,740.0	7,688.0	7,688.0	124.5	13.4	-90.00	6,883.4	94.0	170.1	45.3	124.83	1.363 Level 3	
14,600.0	7,740.0	7,688.0	7,688.0	126.2	13.4	-90.00	6,883.4	94.0	226.6	132.0	94.58	2.396	
14,633.9	7,740.0	7,688.0	7,688.0	126.8	13.4	-90.00	6,883.4	94.0	252.0	166.0	85.96	2.931	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS											Offset Site Error: 0.0 ft		
Survey Program: 7894-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	-175.44	-982.8	-78.4	986.0				
100.0	100.0	88.0	88.0	0.2	0.2	-175.44	-982.8	-78.4	985.9	985.6	0.31	3,225.864	
200.0	200.0	188.0	188.0	0.3	0.3	-175.44	-982.8	-78.4	985.9	985.3	0.65	1,505.929	
300.0	300.0	288.0	288.0	0.5	0.5	-175.44	-982.8	-78.4	985.9	984.9	1.00	982.232	
400.0	400.0	388.0	388.0	0.7	0.7	-175.44	-982.8	-78.4	985.9	984.6	1.35	728.790	
500.0	500.0	488.0	488.0	0.8	0.9	-175.44	-982.8	-78.4	985.9	984.2	1.70	579.312	
600.0	600.0	588.0	588.0	1.0	1.0	-175.44	-982.8	-78.4	985.9	983.9	2.05	480.716	
700.0	700.0	688.0	688.0	1.2	1.2	88.28	-982.8	-78.4	985.9	983.5	2.40	410.724	
800.0	800.0	788.0	788.0	1.4	1.4	88.43	-982.8	-78.4	985.8	983.1	2.75	358.215	
900.0	899.9	887.9	887.9	1.6	1.5	88.69	-982.8	-78.4	985.7	982.6	3.11	317.086	
1,000.0	999.7	987.7	987.7	1.7	1.7	89.01	-982.8	-78.4	985.6	982.1	3.47	284.101	
1,100.0	1,099.6	1,087.6	1,087.6	1.9	1.9	89.33	-982.8	-78.4	985.5	981.7	3.83	257.157	
1,200.0	1,199.4	1,187.4	1,187.4	2.1	2.1	89.65	-982.8	-78.4	985.5	981.3	4.20	234.778	
1,300.0	1,299.3	1,287.3	1,287.3	2.3	2.2	89.97	-982.8	-78.4	985.5	980.9	4.56	215.918	
1,309.8	1,309.0	1,297.0	1,297.0	2.3	2.3	90.00	-982.8	-78.4	985.5	980.9	4.60	214.234 CC	
1,400.0	1,399.1	1,387.1	1,387.1	2.5	2.4	90.29	-982.8	-78.4	985.5	980.5	4.93	199.824	
1,500.0	1,498.9	1,486.9	1,486.9	2.7	2.6	90.61	-982.8	-78.4	985.5	980.2	5.30	185.938	
1,600.0	1,598.8	1,586.8	1,586.8	2.9	2.8	90.93	-982.8	-78.4	985.6	979.9	5.67	173.842	
1,700.0	1,698.6	1,686.6	1,686.6	3.1	2.9	91.25	-982.8	-78.4	985.7	979.6	6.04	163.216	
1,800.0	1,798.5	1,786.5	1,786.5	3.3	3.1	91.57	-982.8	-78.4	985.8	979.4	6.41	153.809	
1,900.0	1,898.3	1,886.3	1,886.3	3.5	3.3	91.89	-982.8	-78.4	986.0	979.2	6.78	145.427	
2,000.0	1,998.2	1,986.2	1,986.2	3.7	3.5	92.21	-982.8	-78.4	986.2	979.0	7.15	137.912	
2,100.0	2,098.0	2,086.0	2,086.0	3.9	3.6	92.53	-982.8	-78.4	986.4	978.9	7.52	131.138	
2,200.0	2,197.9	2,185.9	2,185.9	4.1	3.8	92.85	-982.8	-78.4	986.7	978.8	7.89	125.002	
2,300.0	2,297.7	2,285.7	2,285.7	4.3	4.0	93.17	-982.8	-78.4	987.0	978.7	8.26	119.418	
2,400.0	2,397.6	2,385.6	2,385.6	4.5	4.2	93.49	-982.8	-78.4	987.3	978.7	8.64	114.317	
2,500.0	2,497.4	2,485.4	2,485.4	4.7	4.3	93.81	-982.8	-78.4	987.6	978.6	9.01	109.639 ES	
2,600.0	2,597.3	2,585.3	2,585.3	4.9	4.5	94.13	-982.8	-78.4	988.0	978.6	9.38	105.334	
2,700.0	2,697.1	2,685.1	2,685.1	5.1	4.7	94.45	-982.8	-78.4	988.4	978.7	9.75	101.359	
2,800.0	2,797.0	2,785.0	2,785.0	5.3	4.9	94.77	-982.8	-78.4	988.9	978.8	10.12	97.679	
2,900.0	2,896.8	2,884.8	2,884.8	5.5	5.0	95.08	-982.8	-78.4	989.4	978.9	10.50	94.263	
3,000.0	2,996.7	2,984.7	2,984.7	5.7	5.2	95.40	-982.8	-78.4	989.9	979.0	10.87	91.083	
3,100.0	3,096.5	3,084.5	3,084.5	5.9	5.4	95.72	-982.8	-78.4	990.4	979.2	11.24	88.117	
3,200.0	3,196.4	3,184.4	3,184.4	6.1	5.6	96.04	-982.8	-78.4	991.0	979.4	11.61	85.343	
3,300.0	3,296.2	3,284.2	3,284.2	6.3	5.7	96.35	-982.8	-78.4	991.6	979.6	11.98	82.744	
3,400.0	3,396.1	3,384.1	3,384.1	6.5	5.9	96.67	-982.8	-78.4	992.2	979.8	12.36	80.304	
3,500.0	3,495.9	3,483.9	3,483.9	6.7	6.1	96.99	-982.8	-78.4	992.8	980.1	12.73	78.009	
3,600.0	3,595.7	3,583.7	3,583.7	6.9	6.3	97.30	-982.8	-78.4	993.5	980.4	13.10	75.847	
3,700.0	3,695.6	3,683.6	3,683.6	7.1	6.4	97.62	-982.8	-78.4	994.2	980.8	13.47	73.807	
3,800.0	3,795.4	3,783.4	3,783.4	7.3	6.6	97.93	-982.8	-78.4	995.0	981.2	13.84	71.879	
3,900.0	3,895.3	3,883.3	3,883.3	7.4	6.8	98.24	-982.8	-78.4	995.8	981.6	14.21	70.055	
4,000.0	3,995.1	3,983.1	3,983.1	7.6	7.0	98.56	-982.8	-78.4	996.6	982.0	14.59	68.326	
4,100.0	4,095.0	4,083.0	4,083.0	7.8	7.1	98.87	-982.8	-78.4	997.4	982.5	14.96	66.685	
4,200.0	4,194.8	4,182.8	4,182.8	8.0	7.3	99.18	-982.8	-78.4	998.3	983.0	15.33	65.126	
4,300.0	4,294.7	4,282.7	4,282.7	8.2	7.5	99.50	-982.8	-78.4	999.2	983.5	15.70	63.642	
4,400.0	4,394.5	4,382.5	4,382.5	8.4	7.6	99.81	-982.8	-78.4	1,000.1	984.0	16.07	62.230	
4,500.0	4,494.4	4,482.4	4,482.4	8.6	7.8	100.12	-982.8	-78.4	1,001.1	984.6	16.44	60.884	
4,600.0	4,594.2	4,582.2	4,582.2	8.8	8.0	100.43	-982.8	-78.4	1,002.1	985.2	16.81	59.599	
4,700.0	4,694.1	4,682.1	4,682.1	9.0	8.2	100.74	-982.8	-78.4	1,003.1	985.9	17.18	58.372	
4,800.0	4,793.9	4,781.9	4,781.9	9.2	8.3	101.05	-982.8	-78.4	1,004.1	986.6	17.55	57.198	
4,900.0	4,893.8	4,881.8	4,881.8	9.4	8.5	101.36	-982.8	-78.4	1,005.2	987.3	17.93	56.076	
5,000.0	4,993.6	4,981.6	4,981.6	9.6	8.7	101.66	-982.8	-78.4	1,006.3	988.0	18.30	55.000	

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7894-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	5,093.5	5,081.5	5,081.5	9.8	8.9	101.97	-982.8	-78.4	1,007.4	988.8	18.67	53.970		
5,200.0	5,193.3	5,181.3	5,181.3	10.0	9.0	102.28	-982.8	-78.4	1,008.6	989.5	19.04	52.981		
5,300.0	5,293.2	5,281.2	5,281.2	10.2	9.2	102.58	-982.8	-78.4	1,009.8	990.4	19.41	52.032		
5,400.0	5,393.0	5,381.0	5,381.0	10.4	9.4	102.89	-982.8	-78.4	1,011.0	991.2	19.78	51.120		
5,500.0	5,492.8	5,480.8	5,480.8	10.6	9.6	103.19	-982.8	-78.4	1,012.2	992.1	20.15	50.243		
5,600.0	5,592.7	5,580.7	5,580.7	10.8	9.7	103.50	-982.8	-78.4	1,013.5	993.0	20.52	49.400		
5,700.0	5,692.5	5,680.5	5,680.5	11.0	9.9	103.80	-982.8	-78.4	1,014.8	993.9	20.89	48.589		
5,800.0	5,792.4	5,780.4	5,780.4	11.2	10.1	104.10	-982.8	-78.4	1,016.2	994.9	21.26	47.807		
5,900.0	5,892.2	5,880.2	5,880.2	11.4	10.3	104.40	-982.8	-78.4	1,017.5	995.9	21.62	47.053		
6,000.0	5,992.1	5,980.1	5,980.1	11.6	10.4	104.70	-982.8	-78.4	1,018.9	996.9	21.99	46.327		
6,100.0	6,091.9	6,079.9	6,079.9	11.8	10.6	105.00	-982.8	-78.4	1,020.3	998.0	22.36	45.626		
6,200.0	6,191.8	6,179.8	6,179.8	12.0	10.8	105.30	-982.8	-78.4	1,021.8	999.0	22.73	44.949 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - S													Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,300.0	7,740.0	7,901.1	7,740.7	20.9	26.3	-83.10	1,652.4	-69.7	999.0	956.3	42.70	23.395		
8,400.0	7,740.0	7,906.2	7,745.8	22.2	26.3	-83.78	1,652.7	-69.7	909.6	866.3	43.22	21.045		
8,500.0	7,740.0	7,911.5	7,751.1	23.5	26.3	-84.48	1,653.0	-69.7	822.5	778.7	43.80	18.779		
8,600.0	7,740.0	7,916.9	7,756.5	24.9	26.3	-85.21	1,653.3	-69.7	738.8	694.3	44.44	16.623		
8,700.0	7,740.0	7,930.0	7,769.5	26.4	26.3	-86.97	1,654.2	-69.6	659.5	614.4	45.14	14.611		
8,800.0	7,740.0	7,930.0	7,769.5	27.8	26.3	-86.97	1,654.2	-69.6	586.5	540.7	45.81	12.802		
8,900.0	7,740.0	7,934.5	7,774.1	29.3	26.3	-87.58	1,654.5	-69.6	522.4	476.1	46.38	11.265		
9,000.0	7,740.0	7,940.9	7,780.4	30.9	26.3	-88.43	1,654.9	-69.6	471.0	424.3	46.72	10.082		
9,100.0	7,740.0	7,947.5	7,787.0	32.4	26.3	-89.32	1,655.3	-69.5	436.7	389.8	46.86	9.317		
9,200.0	7,740.0	7,954.3	7,793.8	34.0	26.3	-90.24	1,655.8	-69.5	423.6	376.3	47.26	8.963		
9,206.6	7,740.0	7,954.8	7,794.3	34.1	26.3	-90.30	1,655.8	-69.5	423.5	376.2	47.30	8.953 CC, ES, SF		
9,300.0	7,740.0	7,961.4	7,800.8	35.6	26.3	-91.20	1,656.3	-69.5	433.6	385.5	48.11	9.012		
9,400.0	7,740.0	7,968.7	7,808.2	37.2	26.3	-92.19	1,656.8	-69.5	465.4	416.5	48.85	9.525		
9,500.0	7,740.0	7,976.3	7,815.8	38.8	26.3	-93.21	1,657.3	-69.4	514.8	465.7	49.06	10.493		
9,600.0	7,740.0	7,984.2	7,823.7	40.4	26.4	-94.28	1,657.9	-69.4	577.3	528.5	48.83	11.824		
9,700.0	7,740.0	7,992.5	7,831.9	42.1	26.4	-95.38	1,658.5	-69.3	649.2	600.8	48.39	13.417		
9,800.0	7,740.0	8,001.0	7,840.4	43.7	26.4	-96.52	1,659.2	-69.3	727.7	679.8	47.91	15.189		
9,900.0	7,740.0	8,009.9	7,849.3	45.4	26.4	-97.71	1,659.9	-69.2	810.9	763.4	47.47	17.080		
10,000.0	7,740.0	8,019.2	7,858.5	47.1	26.4	-98.94	1,660.6	-69.2	897.4	850.3	47.11	19.049		
10,100.0	7,740.0	8,028.9	7,868.2	48.7	26.4	-100.21	1,661.4	-69.1	986.4	939.5	46.82	21.067		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	88.0	88.0	0.0	0.2	-34.67	131.5	-91.0	159.9					
100.0	100.0	188.0	188.0	0.2	0.3	-34.67	131.5	-91.0	159.9	159.4	0.48	333.029		
200.0	200.0	288.0	288.0	0.3	0.5	-34.67	131.5	-91.0	159.9	159.1	0.83	192.840		
300.0	300.0	388.0	388.0	0.5	0.7	-34.67	131.5	-91.0	159.9	158.7	1.18	135.712		
400.0	400.0	488.0	488.0	0.7	0.9	-34.67	131.5	-91.0	159.9	158.4	1.53	104.696		
500.0	500.0	588.0	588.0	0.8	1.0	-34.67	131.5	-91.0	159.9	158.0	1.88	85.220		
600.0	600.0	688.0	688.0	1.0	1.2	-34.67	131.5	-91.0	159.9	157.7	2.23	71.853 CC, ES		
700.0	700.0	788.0	788.0	1.2	1.4	-131.23	131.5	-91.0	160.5	157.9	2.57	62.329		
800.0	800.0	888.0	888.0	1.4	1.5	-131.91	131.5	-91.0	162.2	159.3	2.93	55.455		
900.0	899.9	987.9	987.9	1.6	1.7	-133.01	131.5	-91.0	165.2	161.9	3.28	50.383		
1,000.0	999.7	1,087.7	1,087.7	1.7	1.9	-134.37	131.5	-91.0	169.0	165.3	3.63	46.512		
1,100.0	1,099.6	1,187.6	1,187.6	1.9	2.1	-135.68	131.5	-91.0	172.9	168.9	3.99	43.348		
1,200.0	1,199.4	1,287.4	1,287.4	2.1	2.2	-136.93	131.5	-91.0	176.9	172.5	4.34	40.719		
1,300.0	1,299.3	1,387.3	1,387.3	2.3	2.4	-138.12	131.5	-91.0	180.9	176.2	4.70	38.504		
1,400.0	1,399.1	1,487.1	1,487.1	2.5	2.6	-139.26	131.5	-91.0	185.1	180.0	5.05	36.617		
1,500.0	1,498.9	1,586.9	1,586.9	2.7	2.8	-140.35	131.5	-91.0	189.3	183.9	5.41	34.993		
1,600.0	1,598.8	1,686.8	1,686.8	2.9	2.9	-141.39	131.5	-91.0	193.6	187.8	5.76	33.582		
1,700.0	1,698.6	1,786.6	1,786.6	3.1	3.1	-142.39	131.5	-91.0	197.9	191.8	6.12	32.347		
1,800.0	1,798.5	1,886.5	1,886.5	3.3	3.3	-143.34	131.5	-91.0	202.4	195.9	6.47	31.258		
1,900.0	1,898.3	1,986.3	1,986.3	3.5	3.5	-144.26	131.5	-91.0	206.8	200.0	6.83	30.291		
2,000.0	1,998.2	2,086.2	2,086.2	3.7	3.6	-145.13	131.5	-91.0	211.3	204.1	7.18	29.428		
2,100.0	2,098.0	2,186.0	2,186.0	3.9	3.8	-145.97	131.5	-91.0	215.9	208.3	7.53	28.654		
2,200.0	2,197.9	2,285.9	2,285.9	4.1	4.0	-146.77	131.5	-91.0	220.5	212.6	7.89	27.956		
2,300.0	2,297.7	2,385.7	2,385.7	4.3	4.2	-147.54	131.5	-91.0	225.1	216.9	8.24	27.324		
2,400.0	2,397.6	2,485.6	2,485.6	4.5	4.3	-148.28	131.5	-91.0	229.8	221.2	8.59	26.749		
2,500.0	2,497.4	2,585.4	2,585.4	4.7	4.5	-148.99	131.5	-91.0	234.5	225.6	8.94	26.224		
2,600.0	2,597.3	2,685.3	2,685.3	4.9	4.7	-149.67	131.5	-91.0	239.3	230.0	9.29	25.744		
2,700.0	2,697.1	2,785.1	2,785.1	5.1	4.9	-150.32	131.5	-91.0	244.0	234.4	9.64	25.303		
2,800.0	2,797.0	2,885.0	2,885.0	5.3	5.0	-150.95	131.5	-91.0	248.9	238.9	10.00	24.896		
2,900.0	2,896.8	2,984.8	2,984.8	5.5	5.2	-151.56	131.5	-91.0	253.7	243.3	10.35	24.520		
3,000.0	2,996.7	3,084.7	3,084.7	5.7	5.4	-152.14	131.5	-91.0	258.6	247.9	10.70	24.172		
3,100.0	3,096.5	3,184.5	3,184.5	5.9	5.6	-152.70	131.5	-91.0	263.5	252.4	11.05	23.849		
3,200.0	3,196.4	3,284.4	3,284.4	6.1	5.7	-153.24	131.5	-91.0	268.4	257.0	11.40	23.548		
3,300.0	3,296.2	3,384.2	3,384.2	6.3	5.9	-153.76	131.5	-91.0	273.3	261.6	11.75	23.267		
3,400.0	3,396.1	3,484.1	3,484.1	6.5	6.1	-154.26	131.5	-91.0	278.3	266.2	12.10	23.005		
3,500.0	3,495.9	3,583.9	3,583.9	6.7	6.3	-154.75	131.5	-91.0	283.3	270.8	12.45	22.759		
3,600.0	3,595.7	3,683.7	3,683.7	6.9	6.4	-155.22	131.5	-91.0	288.3	275.5	12.80	22.529		
3,700.0	3,695.6	3,783.6	3,783.6	7.1	6.6	-155.67	131.5	-91.0	293.3	280.2	13.15	22.312		
3,800.0	3,795.4	3,883.4	3,883.4	7.3	6.8	-156.11	131.5	-91.0	298.3	284.8	13.49	22.108		
3,900.0	3,895.3	3,983.3	3,983.3	7.4	7.0	-156.53	131.5	-91.0	303.4	289.6	13.84	21.916		
4,000.0	3,995.1	4,083.1	4,083.1	7.6	7.1	-156.94	131.5	-91.0	308.5	294.3	14.19	21.734		
4,100.0	4,095.0	4,183.0	4,183.0	7.8	7.3	-157.33	131.5	-91.0	313.6	299.0	14.54	21.563		
4,200.0	4,194.8	4,282.8	4,282.8	8.0	7.5	-157.71	131.5	-91.0	318.7	303.8	14.89	21.400		
4,300.0	4,294.7	4,382.7	4,382.7	8.2	7.6	-158.08	131.5	-91.0	323.8	308.5	15.24	21.246		
4,400.0	4,394.5	4,482.5	4,482.5	8.4	7.8	-158.44	131.5	-91.0	328.9	313.3	15.59	21.100		
4,500.0	4,494.4	4,582.4	4,582.4	8.6	8.0	-158.79	131.5	-91.0	334.0	318.1	15.94	20.961		
4,600.0	4,594.2	4,682.2	4,682.2	8.8	8.2	-159.13	131.5	-91.0	339.2	322.9	16.29	20.828		
4,700.0	4,694.1	4,782.1	4,782.1	9.0	8.3	-159.46	131.5	-91.0	344.4	327.7	16.63	20.702		
4,800.0	4,793.9	4,881.9	4,881.9	9.2	8.5	-159.77	131.5	-91.0	349.5	332.6	16.98	20.582		
4,900.0	4,893.8	4,981.8	4,981.8	9.4	8.7	-160.08	131.5	-91.0	354.7	337.4	17.33	20.468		
5,000.0	4,993.6	5,081.6	5,081.6	9.6	8.9	-160.38	131.5	-91.0	359.9	342.2	17.68	20.358		
5,100.0	5,093.5	5,181.5	5,181.5	9.8	9.0	-160.67	131.5	-91.0	365.1	347.1	18.03	20.254		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N											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	
5,200.0	5,193.3	5,281.3	5,281.3	10.0	9.2	-160.95	131.5	-91.0	370.3	352.0	18.38	20.153	
5,300.0	5,293.2	5,381.2	5,381.2	10.2	9.4	-161.23	131.5	-91.0	375.6	356.8	18.72	20.057	
5,400.0	5,393.0	5,481.0	5,481.0	10.4	9.6	-161.50	131.5	-91.0	380.8	361.7	19.07	19.965	
5,500.0	5,492.8	5,580.8	5,580.8	10.6	9.7	-161.76	131.5	-91.0	386.0	366.6	19.42	19.877	
5,600.0	5,592.7	5,680.7	5,680.7	10.8	9.9	-162.01	131.5	-91.0	391.3	371.5	19.77	19.792	
5,700.0	5,692.5	5,780.5	5,780.5	11.0	10.1	-162.26	131.5	-91.0	396.5	376.4	20.12	19.711	
5,800.0	5,792.4	5,880.4	5,880.4	11.2	10.3	-162.50	131.5	-91.0	401.8	381.3	20.47	19.633	
5,900.0	5,892.2	5,980.2	5,980.2	11.4	10.4	-162.73	131.5	-91.0	407.1	386.3	20.81	19.557	
6,000.0	5,992.1	6,080.1	6,080.1	11.6	10.6	-162.96	131.5	-91.0	412.4	391.2	21.16	19.485	
6,100.0	6,091.9	6,179.9	6,179.9	11.8	10.8	-163.18	131.5	-91.0	417.6	396.1	21.51	19.415	
6,200.0	6,191.8	6,279.8	6,279.8	12.0	11.0	-163.40	131.5	-91.0	422.9	401.1	21.86	19.348	
6,300.0	6,291.6	6,379.6	6,379.6	12.2	11.1	-163.61	131.5	-91.0	428.2	406.0	22.21	19.283	
6,400.0	6,391.5	6,479.5	6,479.5	12.4	11.3	-163.81	131.5	-91.0	433.5	411.0	22.56	19.220	
6,500.0	6,491.3	6,579.3	6,579.3	12.6	11.5	-164.01	131.5	-91.0	438.8	415.9	22.90	19.160	
6,600.0	6,591.2	6,679.2	6,679.2	12.8	11.7	-164.21	131.5	-91.0	444.1	420.9	23.25	19.101	
6,700.0	6,691.0	6,779.0	6,779.0	13.0	11.8	-164.40	131.5	-91.0	449.5	425.9	23.60	19.045	
6,800.0	6,790.9	6,878.9	6,878.9	13.2	12.0	-164.59	131.5	-91.0	454.8	430.8	23.95	18.990	
6,900.0	6,890.7	6,978.7	6,978.7	13.4	12.2	-164.77	131.5	-91.0	460.1	435.8	24.30	18.937	
7,000.0	6,990.6	7,078.6	7,078.6	13.6	12.4	-164.95	131.5	-91.0	465.4	440.8	24.64	18.886	
7,100.0	7,090.4	7,178.4	7,178.4	13.8	12.5	-165.12	131.5	-91.0	470.8	445.8	24.99	18.836	
7,200.0	7,190.3	7,278.3	7,278.3	14.0	12.7	-122.47	131.5	-91.0	475.9	450.5	25.34	18.778	
7,300.0	7,289.2	7,377.2	7,377.2	14.2	12.9	-84.02	131.5	-91.0	476.4	450.7	25.71	18.533	
7,400.0	7,384.4	7,472.4	7,472.4	14.4	13.0	-81.60	131.5	-91.0	472.0	445.9	26.07	18.101	
7,500.0	7,473.1	7,561.1	7,561.1	14.6	13.2	-84.78	131.5	-91.0	465.7	439.2	26.44	17.611	
7,600.0	7,552.5	7,640.5	7,640.5	14.9	13.3	-89.84	131.5	-91.0	462.2	435.4	26.80	17.243	
7,602.9	7,554.6	7,642.6	7,642.6	14.9	13.3	-90.00	131.5	-91.0	462.2	435.4	26.82	17.235	
7,700.0	7,620.2	7,708.2	7,708.2	15.3	13.5	-94.80	131.5	-91.0	467.0	439.9	27.15	17.203 SF	
7,800.0	7,674.1	7,762.1	7,762.1	15.9	13.5	-98.06	131.5	-91.0	485.1	457.6	27.46	17.667	
7,900.0	7,712.7	7,800.7	7,800.7	16.7	13.6	-98.48	131.5	-91.0	518.9	491.2	27.71	18.724	
8,000.0	7,734.8	7,822.8	7,822.8	17.5	13.7	-95.27	131.5	-91.0	568.1	540.2	27.92	20.347	
8,100.0	7,740.0	7,828.0	7,828.0	18.6	13.7	-90.00	131.5	-91.0	629.5	601.4	28.08	22.417	
8,200.0	7,740.0	7,828.0	7,828.0	19.7	13.7	-90.00	131.5	-91.0	699.8	671.6	28.23	24.793	
8,300.0	7,740.0	7,828.0	7,828.0	20.9	13.7	-90.00	131.5	-91.0	776.6	748.2	28.37	27.376	
8,400.0	7,740.0	7,828.0	7,828.0	22.2	13.7	-90.00	131.5	-91.0	858.2	829.7	28.51	30.102	
8,500.0	7,740.0	7,828.0	7,828.0	23.5	13.7	-90.00	131.5	-91.0	943.4	914.7	28.65	32.923	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - G										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	
8,600.0	7,740.0	7,756.0	7,753.1	24.9	13.6	87.49	1,615.1	1,174.1	984.2	951.5	32.69	30.102	
8,700.0	7,740.0	7,758.6	7,755.8	26.4	13.6	87.68	1,615.2	1,174.1	932.6	897.8	34.76	26.832	
8,800.0	7,740.0	7,761.2	7,758.4	27.8	13.6	87.86	1,615.3	1,174.2	889.3	852.2	37.13	23.949	
8,900.0	7,740.0	7,763.8	7,761.0	29.3	13.6	88.04	1,615.3	1,174.3	855.5	815.8	39.72	21.538	
9,000.0	7,740.0	7,766.5	7,763.6	30.9	13.6	88.23	1,615.4	1,174.3	832.5	790.1	42.38	19.643	
9,100.0	7,740.0	7,769.1	7,766.2	32.4	13.6	88.41	1,615.5	1,174.4	821.1	776.1	44.94	18.269	
9,144.6	7,740.0	7,770.2	7,767.4	33.1	13.6	88.49	1,615.5	1,174.4	819.9	773.8	46.01	17.819	CC, ES
9,200.0	7,740.0	7,771.7	7,768.9	34.0	13.6	88.59	1,615.5	1,174.5	821.7	774.5	47.24	17.395	
9,300.0	7,740.0	7,774.3	7,771.5	35.6	13.6	88.78	1,615.6	1,174.5	834.4	785.3	49.15	16.977	
9,400.0	7,740.0	7,776.9	7,774.1	37.2	13.6	88.96	1,615.7	1,174.6	858.7	808.1	50.62	16.964	SF
9,500.0	7,740.0	7,779.6	7,776.7	38.8	13.6	89.14	1,615.7	1,174.7	893.5	841.9	51.65	17.301	
9,600.0	7,740.0	7,782.2	7,779.3	40.4	13.6	89.33	1,615.8	1,174.7	937.8	885.5	52.28	17.937	
9,700.0	7,740.0	7,784.8	7,782.0	42.1	13.6	89.51	1,615.9	1,174.8	990.2	937.6	52.60	18.824	
9,800.0	7,740.0	7,787.4	7,784.6	43.7	13.6	89.69	1,615.9	1,174.9	1,049.5	996.8	52.69	19.919	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - S		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					
7,400.0	7,384.4	7,675.7	7,453.1	14.4	28.8	76.43	154.6	1,388.3	1,036.1	994.4	41.65	24.878					
7,500.0	7,473.1	7,759.0	7,536.4	14.6	28.8	82.01	154.4	1,387.2	1,025.2	983.3	41.86	24.493					
7,600.0	7,552.5	7,835.0	7,612.4	14.9	28.9	86.64	154.3	1,386.5	1,016.7	974.6	42.13	24.136					
7,700.0	7,620.2	7,901.3	7,678.7	15.3	28.9	90.42	154.4	1,386.0	1,013.3	970.8	42.49	23.845					
7,701.3	7,621.0	7,902.0	7,679.5	15.3	28.9	90.46	154.4	1,386.0	1,013.3	970.8	42.50	23.842 CC, ES					
7,800.0	7,674.1	7,954.5	7,731.9	15.9	29.0	92.95	154.6	1,385.7	1,017.3	974.4	42.97	23.676 SF					
7,900.0	7,712.7	7,992.9	7,770.3	16.7	29.0	93.83	154.8	1,385.5	1,030.9	987.4	43.51	23.694					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - S												Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
3,200.0	3,196.4	3,769.1	3,523.4	6.1	22.6	-31.45	382.6	1,001.7	993.3	969.1	24.15	41.129	
3,300.0	3,296.2	3,855.0	3,601.0	6.3	23.2	-29.75	346.4	993.9	961.7	936.5	25.21	38.154	
3,400.0	3,396.1	3,938.9	3,677.4	6.5	23.8	-28.09	312.6	985.9	931.6	905.3	26.26	35.474	
3,500.0	3,495.9	4,018.5	3,749.9	6.7	24.4	-26.42	280.5	979.1	903.3	875.9	27.34	33.039	
3,600.0	3,595.7	4,109.1	3,832.3	6.9	25.1	-24.35	243.4	972.6	876.9	848.4	28.52	30.752	
3,700.0	3,695.6	4,184.3	3,900.4	7.1	25.7	-22.49	211.9	967.7	852.2	822.5	29.66	28.730	
3,800.0	3,795.4	4,265.6	3,973.8	7.3	26.3	-20.32	177.2	964.5	830.9	800.0	30.87	26.920	
3,900.0	3,895.3	4,353.9	4,053.7	7.4	27.0	-17.87	139.6	961.0	811.4	779.3	32.10	25.277	
4,000.0	3,995.1	4,452.8	4,143.0	7.6	27.7	-15.00	97.5	957.3	794.0	760.5	33.43	23.747	
4,100.0	4,095.0	4,557.8	4,235.8	7.8	28.6	-11.55	48.7	952.0	776.8	741.9	34.87	22.280	
4,200.0	4,194.8	4,645.6	4,313.1	8.0	29.4	-8.52	7.3	946.7	761.3	725.1	36.12	21.075	
4,300.0	4,294.7	4,723.1	4,382.1	8.2	30.0	-5.87	-27.9	942.5	749.0	711.9	37.18	20.149	
4,400.0	4,394.5	4,809.3	4,460.3	8.4	30.6	-3.10	-64.0	938.9	740.4	702.3	38.14	19.411	
4,500.0	4,494.4	4,902.7	4,546.5	8.6	31.2	-0.34	-99.4	935.3	734.0	695.0	39.02	18.809	
4,600.0	4,594.2	5,010.8	4,648.0	8.8	31.9	2.60	-136.4	930.4	728.5	688.6	39.87	18.271	
4,700.0	4,694.1	5,102.3	4,734.8	9.0	32.4	4.93	-165.3	925.9	723.7	683.1	40.52	17.859	
4,800.0	4,793.9	5,200.6	4,829.0	9.2	32.9	7.19	-192.9	921.8	720.2	679.1	41.09	17.526	
4,900.0	4,893.8	5,301.8	4,927.1	9.4	33.3	9.22	-217.3	918.0	717.2	675.6	41.58	17.248	
5,000.0	4,993.6	5,402.7	5,025.9	9.6	33.7	10.87	-237.0	915.0	714.5	672.5	41.99	17.016	
5,100.0	5,093.5	5,506.4	5,128.2	9.8	34.0	12.34	-254.1	912.3	711.7	669.3	42.37	16.799	
5,200.0	5,193.3	5,616.7	5,237.5	10.0	34.3	13.67	-269.0	909.2	708.2	665.5	42.69	16.589	
5,300.0	5,293.2	5,723.9	5,344.1	10.2	34.5	14.66	-279.3	906.1	703.4	660.4	42.97	16.370	
5,400.0	5,393.0	5,825.4	5,445.4	10.4	34.6	15.35	-285.9	903.4	698.0	654.8	43.21	16.154	
5,500.0	5,492.8	5,928.4	5,548.2	10.6	34.7	15.83	-289.8	901.8	692.6	649.2	43.44	15.946	
5,600.0	5,592.7	6,036.2	5,656.1	10.8	34.8	16.15	-291.4	899.8	686.2	642.6	43.65	15.723	
5,700.0	5,692.5	6,136.1	5,755.9	11.0	34.8	16.33	-291.3	898.0	679.2	635.3	43.86	15.484	
5,800.0	5,792.4	6,235.3	5,855.1	11.2	34.9	16.52	-291.3	896.3	672.3	628.2	44.09	15.249	
5,900.0	5,892.2	6,334.6	5,954.4	11.4	35.0	16.72	-291.3	894.6	665.4	621.1	44.31	15.018	
6,000.0	5,992.1	6,433.8	6,053.5	11.6	35.0	16.92	-291.5	892.9	658.7	614.1	44.53	14.792	
6,100.0	6,091.9	6,532.2	6,151.9	11.8	35.1	17.12	-291.6	891.4	652.0	607.3	44.74	14.573	
6,200.0	6,191.8	6,629.7	6,249.5	12.0	35.1	17.27	-291.3	890.4	645.7	600.7	44.95	14.364	
6,300.0	6,291.6	6,728.5	6,348.3	12.2	35.2	17.39	-290.7	889.8	639.6	594.5	45.17	14.160	
6,400.0	6,391.5	6,828.1	6,447.8	12.4	35.2	17.53	-290.3	889.2	633.7	588.3	45.39	13.960	
6,500.0	6,491.3	6,928.1	6,547.9	12.6	35.3	17.70	-290.3	888.5	627.7	582.1	45.62	13.761	
6,600.0	6,591.2	7,028.3	6,648.1	12.8	35.4	17.89	-290.3	887.7	621.7	575.9	45.84	13.563	
6,700.0	6,691.0	7,129.4	6,749.2	13.0	35.4	18.11	-290.5	886.6	615.6	569.5	46.06	13.364	
6,800.0	6,790.9	7,230.2	6,849.9	13.2	35.5	18.35	-290.7	885.2	609.2	562.9	46.28	13.163	
6,900.0	6,890.7	7,330.5	6,950.2	13.4	35.6	18.60	-291.0	883.8	602.8	556.3	46.51	12.962	
7,000.0	6,990.6	7,431.5	7,051.2	13.6	35.6	18.86	-291.3	882.2	596.2	549.5	46.73	12.760	
7,100.0	7,090.4	7,532.8	7,152.5	13.8	35.7	19.12	-291.4	880.4	589.4	542.5	46.95	12.556	
7,200.0	7,190.3	7,632.8	7,252.5	14.0	35.8	22.35	-291.4	878.4	582.8	535.6	47.16	12.357	
7,259.7	7,249.5	7,692.2	7,311.8	14.1	35.8	96.66	-291.4	877.3	581.3	534.0	47.25	12.302 CC, ES, SF	
7,300.0	7,289.2	7,732.0	7,351.7	14.2	35.8	103.86	-291.3	876.5	582.0	534.7	47.26	12.314	
7,400.0	7,384.4	7,828.3	7,448.0	14.4	35.9	112.13	-290.9	874.7	590.3	543.1	47.19	12.510	
7,500.0	7,473.1	7,916.9	7,536.5	14.6	36.0	116.49	-290.4	873.0	609.3	562.4	46.93	12.983	
7,600.0	7,552.5	7,994.3	7,613.9	14.9	36.0	118.89	-289.7	871.9	641.1	594.6	46.49	13.789	
7,700.0	7,620.2	8,060.0	7,679.6	15.3	36.0	119.39	-289.1	871.3	686.6	640.7	45.91	14.954	
7,800.0	7,674.1	8,114.9	7,734.5	15.9	36.1	117.65	-288.5	870.9	745.3	700.1	45.23	16.478	
7,900.0	7,712.7	8,153.9	7,773.5	16.7	36.1	112.53	-288.1	870.7	815.6	771.1	44.51	18.322	
8,000.0	7,734.8	8,176.7	7,796.2	17.5	36.1	102.75	-287.9	870.7	894.9	851.1	43.82	20.421	
8,100.0	7,740.0	8,182.8	7,802.4	18.6	36.1	91.24	-287.8	870.6	980.2	937.0	43.20	22.689	

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WEL													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,900.0	4,893.8	4,941.5	4,940.8	9.4	8.7	-64.81	840.3	759.3	1,016.0	998.0	17.96	56.557		
5,000.0	4,993.6	5,041.1	5,040.3	9.6	8.9	-65.15	840.0	758.0	1,012.7	994.3	18.34	55.222		
5,100.0	5,093.5	5,137.2	5,136.5	9.8	9.0	-65.49	840.2	756.5	1,009.8	991.0	18.71	53.975		
5,200.0	5,193.3	5,238.7	5,237.9	10.0	9.2	-65.89	840.7	754.6	1,006.9	987.9	19.09	52.754		
5,300.0	5,293.2	5,336.5	5,335.8	10.2	9.4	-66.29	841.0	752.5	1,004.0	984.5	19.46	51.589		
5,400.0	5,393.0	5,431.0	5,430.2	10.4	9.6	-66.63	841.7	751.4	1,001.8	981.9	19.83	50.523		
5,500.0	5,492.8	5,534.1	5,533.3	10.6	9.7	-67.00	842.1	750.3	999.4	979.2	20.21	49.454		
5,600.0	5,592.7	5,633.3	5,632.5	10.8	9.9	-67.37	842.6	749.1	997.1	976.5	20.58	48.440		
5,700.0	5,692.5	5,736.5	5,735.7	11.0	10.1	-67.78	843.2	747.2	994.6	973.7	20.97	47.438		
5,800.0	5,792.4	5,837.8	5,837.0	11.2	10.3	-68.20	843.6	745.0	991.9	970.6	21.35	46.463		
5,900.0	5,892.2	5,935.6	5,934.7	11.4	10.4	-68.61	844.1	743.0	989.3	967.6	21.72	45.541		
6,000.0	5,992.1	6,038.1	6,037.2	11.6	10.6	-69.03	844.6	741.0	986.9	964.8	22.11	44.642		
6,100.0	6,091.9	6,143.5	6,142.6	11.8	10.8	-69.48	844.6	738.5	983.8	961.3	22.49	43.735		
6,200.0	6,191.8	6,242.4	6,241.4	12.0	11.0	-69.90	844.5	736.0	980.6	957.7	22.87	42.873		
6,300.0	6,291.6	6,339.6	6,338.6	12.2	11.2	-70.31	844.4	733.8	977.7	954.4	23.25	42.054		
6,400.0	6,391.5	6,434.2	6,433.2	12.4	11.3	-70.70	844.5	732.0	975.1	951.5	23.62	41.286		
6,500.0	6,491.3	6,528.6	6,527.6	12.6	11.5	-71.11	845.4	730.1	973.3	949.3	23.99	40.572		
6,600.0	6,591.2	6,629.5	6,628.4	12.8	11.7	-71.51	846.2	728.7	971.6	947.3	24.37	39.872		
6,700.0	6,691.0	6,730.4	6,729.3	13.0	11.9	-71.92	846.9	727.4	970.0	945.2	24.75	39.192		
6,800.0	6,790.9	6,834.3	6,833.2	13.2	12.0	-72.32	847.2	726.1	968.0	942.9	25.13	38.515		
6,900.0	6,890.7	6,935.5	6,934.5	13.4	12.2	-72.74	847.4	724.2	965.8	940.2	25.52	37.850		
7,000.0	6,990.6	7,035.2	7,034.1	13.6	12.4	-73.18	847.8	721.9	963.6	937.7	25.90	37.212		
7,100.0	7,090.4	7,139.8	7,138.6	13.8	12.6	-73.60	847.6	720.2	961.2	935.0	26.28	36.575		
7,200.0	7,190.3	7,246.9	7,245.8	14.0	12.8	-31.23	847.1	717.4	957.8	931.1	26.67	35.911		
7,300.0	7,289.2	7,380.7	7,379.4	14.2	13.0	9.29	844.5	712.5	941.1	914.0	27.03	34.820		
7,400.0	7,384.4	7,500.0	7,498.4	14.4	13.2	17.82	836.0	710.0	904.7	877.4	27.26	33.181		
7,500.0	7,473.1	7,560.5	7,558.6	14.6	13.3	23.88	830.6	711.2	854.7	827.2	27.42	31.164		
7,600.0	7,552.5	7,614.9	7,612.9	14.9	13.4	30.64	827.4	713.0	795.1	767.6	27.50	28.915		
7,700.0	7,620.2	7,671.6	7,669.5	15.3	13.5	39.94	825.2	714.7	727.0	699.5	27.50	26.435		
7,800.0	7,674.1	7,718.7	7,716.6	15.9	13.6	52.49	824.1	715.5	652.7	625.3	27.46	23.773		
7,900.0	7,712.7	7,753.4	7,751.3	16.7	13.6	67.56	823.5	716.1	575.8	548.3	27.43	20.993		
8,000.0	7,734.8	7,772.9	7,770.7	17.5	13.7	81.61	823.2	716.5	501.0	473.4	27.59	18.159		
8,100.0	7,740.0	7,776.6	7,774.4	18.6	13.7	89.41	823.2	716.6	434.6	406.4	28.28	15.369		
8,200.0	7,740.0	7,775.3	7,773.1	19.7	13.7	89.20	823.2	716.6	383.2	353.3	29.91	12.812		
8,300.0	7,740.0	7,774.0	7,771.8	20.9	13.7	88.98	823.2	716.6	353.2	320.7	32.47	10.876		
8,360.5	7,740.0	7,773.2	7,771.0	21.7	13.7	88.85	823.2	716.5	348.0	313.8	34.18	10.182 CC, ES		
8,400.0	7,740.0	7,772.6	7,770.5	22.2	13.7	88.76	823.2	716.5	350.2	315.0	35.19	9.953 SF		
8,500.0	7,740.0	7,771.3	7,769.1	23.5	13.7	88.54	823.3	716.5	374.9	337.8	37.08	10.110		
8,600.0	7,740.0	7,769.9	7,767.7	24.9	13.7	88.31	823.3	716.5	422.4	384.5	37.95	11.132		
8,700.0	7,740.0	7,768.5	7,766.3	26.4	13.6	88.08	823.3	716.4	486.2	448.0	38.14	12.748		
8,800.0	7,740.0	7,767.0	7,764.9	27.8	13.6	87.84	823.3	716.4	560.6	522.6	38.01	14.748		
8,900.0	7,740.0	7,765.5	7,763.4	29.3	13.6	87.60	823.3	716.4	642.0	604.2	37.78	16.991		
9,000.0	7,740.0	7,764.0	7,761.9	30.9	13.6	87.35	823.4	716.4	728.0	690.5	37.54	19.392		
9,100.0	7,740.0	7,762.5	7,760.4	32.4	13.6	87.10	823.4	716.3	817.3	779.9	37.33	21.895		
9,200.0	7,740.0	7,760.9	7,758.8	34.0	13.6	86.84	823.4	716.3	908.7	871.6	37.14	24.465		
9,300.0	7,740.0	7,759.3	7,757.2	35.6	13.6	86.58	823.4	716.3	1,001.8	964.8	37.00	27.079		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-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	-89.97	0.0	-14.8	14.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.97	0.0	-14.8	14.8	14.5	0.30	48.845	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-14.8	14.8	14.2	0.65	22.725		
300.0	300.0	299.8	299.8	0.5	0.5	-91.57	-0.4	-15.6	15.6	14.6	1.00	15.569		
400.0	400.0	399.5	399.4	0.7	0.7	-95.53	-1.7	-17.8	17.9	16.6	1.35	13.277		
500.0	500.0	499.1	498.9	0.8	0.9	-100.22	-3.9	-21.6	22.0	20.3	1.70	12.925		
600.0	600.0	598.5	598.1	1.0	1.1	-104.46	-6.9	-26.8	27.8	25.7	2.05	13.563		
700.0	700.0	698.4	697.8	1.2	1.3	157.94	-9.6	-32.8	35.0	32.6	2.40	14.624		
800.0	800.0	798.1	797.3	1.4	1.5	159.53	-11.0	-38.7	43.5	40.8	2.74	15.854		
900.0	899.9	897.5	896.6	1.6	1.7	161.26	-12.3	-44.5	53.6	50.6	3.09	17.339		
1,000.0	999.7	996.9	995.8	1.7	1.9	162.76	-13.6	-50.3	64.9	61.4	3.44	18.845		
1,100.0	1,099.6	1,096.2	1,095.0	1.9	2.1	163.83	-15.0	-56.2	76.2	72.4	3.79	20.088		
1,200.0	1,199.4	1,195.6	1,194.1	2.1	2.3	164.62	-16.3	-62.0	87.5	83.4	4.14	21.127		
1,300.0	1,299.3	1,294.9	1,293.3	2.3	2.5	165.23	-17.7	-67.9	98.8	94.3	4.49	22.007		
1,400.0	1,399.1	1,394.3	1,392.5	2.5	2.7	165.72	-19.0	-73.7	110.2	105.3	4.84	22.762		
1,500.0	1,498.9	1,493.6	1,491.7	2.7	2.9	166.11	-20.3	-79.5	121.5	116.3	5.19	23.417		
1,600.0	1,598.8	1,593.0	1,590.8	2.9	3.1	166.44	-21.7	-85.4	132.9	127.3	5.54	23.990		
1,700.0	1,698.6	1,692.3	1,690.0	3.1	3.3	166.71	-23.0	-91.2	144.2	138.3	5.89	24.496		
1,800.0	1,798.5	1,791.7	1,789.2	3.3	3.5	166.95	-24.4	-97.1	155.6	149.3	6.24	24.945		
1,900.0	1,898.3	1,891.0	1,888.3	3.5	3.7	167.15	-25.7	-102.9	166.9	160.3	6.59	25.348		
2,000.0	1,998.2	1,990.4	1,987.5	3.7	3.9	167.33	-27.0	-108.7	178.3	171.3	6.93	25.710		
2,100.0	2,098.0	2,089.7	2,086.7	3.9	4.1	167.48	-28.4	-114.6	189.6	182.4	7.28	26.038		
2,200.0	2,197.9	2,189.1	2,185.8	4.1	4.3	167.62	-29.7	-120.4	201.0	193.4	7.63	26.336		
2,300.0	2,297.7	2,288.5	2,285.0	4.3	4.5	167.75	-31.0	-126.3	212.4	204.4	7.98	26.608		
2,400.0	2,397.6	2,387.8	2,384.2	4.5	4.7	167.86	-32.4	-132.1	223.7	215.4	8.33	26.857		
2,500.0	2,497.4	2,487.2	2,483.4	4.7	4.9	167.96	-33.7	-137.9	235.1	226.4	8.68	27.087		
2,600.0	2,597.3	2,586.5	2,582.5	4.9	5.1	168.05	-35.1	-143.8	246.4	237.4	9.03	27.298		
2,700.0	2,697.1	2,685.9	2,681.7	5.1	5.3	168.13	-36.4	-149.6	257.8	248.4	9.38	27.494		
2,800.0	2,797.0	2,785.2	2,780.9	5.3	5.5	168.21	-37.7	-155.5	269.2	259.5	9.73	27.677		
2,900.0	2,896.8	2,884.6	2,880.0	5.5	5.7	168.28	-39.1	-161.3	280.5	270.5	10.07	27.846		
3,000.0	2,996.7	2,983.9	2,979.2	5.7	5.9	168.34	-40.4	-167.1	291.9	281.5	10.42	28.004		
3,100.0	3,096.5	3,083.3	3,078.4	5.9	6.1	168.40	-41.8	-173.0	303.3	292.5	10.77	28.152		
3,200.0	3,196.4	3,182.6	3,177.6	6.1	6.3	168.46	-43.1	-178.8	314.6	303.5	11.12	28.291		
3,300.0	3,296.2	3,282.0	3,276.7	6.3	6.5	168.51	-44.4	-184.7	326.0	314.5	11.47	28.421		
3,400.0	3,396.1	3,381.3	3,375.9	6.5	6.7	168.56	-45.8	-190.5	337.4	325.6	11.82	28.544		
3,500.0	3,495.9	3,480.7	3,475.1	6.7	6.9	168.60	-47.1	-196.3	348.7	336.6	12.17	28.659		
3,600.0	3,595.7	3,580.0	3,574.2	6.9	7.1	168.64	-48.5	-202.2	360.1	347.6	12.52	28.769		
3,700.0	3,695.6	3,679.4	3,673.4	7.1	7.3	168.68	-49.8	-208.0	371.5	358.6	12.87	28.872		
3,800.0	3,795.4	3,778.7	3,772.6	7.3	7.5	168.72	-51.1	-213.9	382.9	369.6	13.22	28.970		
3,900.0	3,895.3	3,878.1	3,871.7	7.4	7.7	168.76	-52.5	-219.7	394.2	380.7	13.56	29.063		
4,000.0	3,995.1	3,977.4	3,970.9	7.6	7.9	168.79	-53.8	-225.5	405.6	391.7	13.91	29.151		
4,100.0	4,095.0	4,076.8	4,070.1	7.8	8.1	168.82	-55.2	-231.4	417.0	402.7	14.26	29.235		
4,200.0	4,194.8	4,176.1	4,169.3	8.0	8.3	168.85	-56.5	-237.2	428.3	413.7	14.61	29.315		
4,300.0	4,294.7	4,275.5	4,268.4	8.2	8.5	168.88	-57.8	-243.1	439.7	424.7	14.96	29.391		
4,400.0	4,394.5	4,374.8	4,367.6	8.4	8.7	168.90	-59.2	-248.9	451.1	435.8	15.31	29.464		
4,500.0	4,494.4	4,474.2	4,466.8	8.6	8.9	168.93	-60.5	-254.7	462.4	446.8	15.66	29.533		
4,600.0	4,594.2	4,573.5	4,565.9	8.8	9.1	168.95	-61.9	-260.6	473.8	457.8	16.01	29.599		
4,700.0	4,694.1	4,672.9	4,665.1	9.0	9.3	168.98	-63.2	-266.4	485.2	468.8	16.36	29.663		
4,800.0	4,793.9	4,772.2	4,764.3	9.2	9.5	169.00	-64.5	-272.3	496.5	479.8	16.70	29.724		
4,900.0	4,893.8	4,871.6	4,863.5	9.4	9.7	169.02	-65.9	-278.1	507.9	490.9	17.05	29.782		
5,000.0	4,993.6	4,970.9	4,962.6	9.6	9.9	169.04	-67.2	-283.9	519.3	501.9	17.40	29.839		
5,100.0	5,093.5	5,070.3	5,061.8	9.8	10.1	169.06	-68.5	-289.8	530.6	512.9	17.75	29.893		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-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		
5,200.0	5,193.3	5,169.6	5,161.0	10.0	10.4	169.08	-69.9	-295.6	542.0	523.9	18.10	29.944		
5,300.0	5,293.2	5,269.0	5,260.1	10.2	10.6	169.09	-71.2	-301.5	553.4	534.9	18.45	29.994		
5,400.0	5,393.0	5,368.3	5,359.3	10.4	10.8	169.11	-72.6	-307.3	564.8	546.0	18.80	30.042		
5,500.0	5,492.8	5,467.7	5,458.5	10.6	11.0	169.13	-73.9	-313.1	576.1	557.0	19.15	30.089		
5,600.0	5,592.7	5,567.0	5,557.6	10.8	11.2	169.14	-75.2	-319.0	587.5	568.0	19.50	30.133		
5,700.0	5,692.5	5,666.4	5,656.8	11.0	11.4	169.16	-76.6	-324.8	598.9	579.0	19.85	30.176		
5,800.0	5,792.4	5,765.8	5,756.0	11.2	11.6	169.17	-77.9	-330.7	610.2	590.0	20.19	30.218		
5,900.0	5,892.2	5,865.1	5,855.2	11.4	11.8	169.19	-79.3	-336.5	621.6	601.1	20.54	30.258		
6,000.0	5,992.1	5,964.5	5,954.3	11.6	12.0	169.20	-80.6	-342.3	633.0	612.1	20.89	30.297		
6,100.0	6,091.9	6,063.8	6,053.5	11.8	12.2	169.21	-81.9	-348.2	644.3	623.1	21.24	30.335		
6,200.0	6,191.8	6,163.2	6,152.7	12.0	12.4	169.22	-83.3	-354.0	655.7	634.1	21.59	30.371		
6,300.0	6,291.6	6,262.5	6,251.8	12.2	12.6	169.24	-84.6	-359.9	667.1	645.1	21.94	30.406		
6,400.0	6,391.5	6,361.9	6,351.0	12.4	12.8	169.25	-86.0	-365.7	678.5	656.2	22.29	30.440		
6,500.0	6,491.3	6,461.2	6,450.2	12.6	13.0	169.26	-87.3	-371.5	689.8	667.2	22.64	30.473		
6,600.0	6,591.2	6,560.6	6,549.4	12.8	13.2	169.27	-88.6	-377.4	701.2	678.2	22.99	30.505		
6,700.0	6,691.0	6,659.9	6,648.5	13.0	13.4	169.28	-90.0	-383.2	712.6	689.2	23.33	30.536		
6,800.0	6,790.9	6,759.3	6,747.7	13.2	13.6	169.29	-91.3	-389.1	723.9	700.2	23.68	30.567		
6,900.0	6,890.7	6,858.6	6,846.9	13.4	13.8	169.30	-92.7	-394.9	735.3	711.3	24.03	30.596		
7,000.0	6,990.6	6,958.0	6,946.0	13.6	14.0	169.31	-94.0	-400.7	746.7	722.3	24.38	30.624		
7,100.0	7,090.4	7,057.3	7,045.2	13.8	14.2	169.32	-95.3	-406.6	758.0	733.3	24.73	30.652		
7,200.0	7,190.3	7,156.7	7,144.4	14.0	14.4	-147.63	-96.7	-412.4	769.4	744.4	25.08	30.683		
7,300.0	7,289.2	7,265.9	7,253.1	14.2	14.6	-106.96	-90.6	-418.8	781.0	755.6	25.41	30.732		
7,400.0	7,384.4	7,378.7	7,362.1	14.4	14.8	-100.01	-63.0	-425.2	791.7	766.0	25.74	30.761		
7,500.0	7,473.1	7,492.7	7,464.6	14.6	15.0	-96.87	-13.9	-431.3	801.3	775.1	26.13	30.661		
7,600.0	7,552.5	7,607.3	7,555.9	14.9	15.2	-94.87	54.9	-436.6	809.3	782.6	26.71	30.296		
7,700.0	7,620.2	7,722.0	7,631.7	15.3	15.7	-93.36	140.6	-441.1	815.5	787.9	27.60	29.545		
7,800.0	7,674.1	7,836.0	7,688.7	15.9	16.3	-92.13	239.0	-444.5	819.8	790.9	28.88	28.387		
7,900.0	7,712.7	7,948.6	7,724.9	16.7	17.0	-91.11	345.4	-446.6	822.0	791.4	30.56	26.898		
8,000.0	7,734.8	8,059.4	7,739.6	17.5	18.0	-90.28	455.0	-447.5	822.2	789.6	32.60	25.219		
8,100.0	7,740.0	8,161.1	7,740.0	18.6	19.0	-90.00	556.7	-447.5	820.7	785.9	34.84	23.558		
8,200.0	7,740.0	8,261.1	7,740.0	19.7	20.1	-90.00	656.7	-447.5	819.0	781.7	37.24	21.989		
8,300.0	7,740.0	8,361.1	7,740.0	20.9	21.3	-90.00	756.7	-447.5	817.2	777.4	39.81	20.526		
8,400.0	7,740.0	8,461.1	7,740.0	22.2	22.6	-90.00	856.7	-447.5	815.5	773.0	42.52	19.179		
8,500.0	7,740.0	8,561.0	7,740.0	23.5	23.9	-90.00	956.7	-447.5	813.7	768.4	45.33	17.949		
8,600.0	7,740.0	8,661.0	7,740.0	24.9	25.3	-90.00	1,056.7	-447.5	812.0	763.7	48.24	16.832		
8,700.0	7,740.0	8,761.0	7,740.0	26.4	26.7	-90.00	1,156.7	-447.5	810.2	759.0	51.22	15.818		
8,800.0	7,740.0	8,861.0	7,740.0	27.8	28.2	-90.00	1,256.6	-447.5	808.5	754.2	54.27	14.899		
8,900.0	7,740.0	8,961.0	7,740.0	29.3	29.7	-90.00	1,356.6	-447.5	806.7	749.4	57.36	14.064		
9,000.0	7,740.0	9,061.0	7,740.0	30.9	31.2	-90.00	1,456.6	-447.5	805.0	744.5	60.51	13.304		
9,100.0	7,740.0	9,160.9	7,740.0	32.4	32.8	-90.00	1,556.6	-447.5	803.3	739.6	63.69	12.613		
9,200.0	7,740.0	9,260.9	7,740.0	34.0	34.3	-90.00	1,656.6	-447.5	801.5	734.6	66.90	11.981		
9,300.0	7,740.0	9,360.9	7,740.0	35.6	35.9	-90.00	1,756.6	-447.5	799.8	729.6	70.14	11.402		
9,400.0	7,740.0	9,460.9	7,740.0	37.2	37.5	-90.00	1,856.5	-447.5	798.0	724.6	73.41	10.871		
9,500.0	7,740.0	9,560.9	7,740.0	38.8	39.1	-90.00	1,956.5	-447.5	796.3	719.6	76.70	10.382		
9,600.0	7,740.0	9,660.9	7,740.0	40.4	40.7	-90.00	2,056.5	-447.5	794.5	714.5	80.00	9.931		
9,700.0	7,740.0	9,760.9	7,740.0	42.1	42.4	-90.00	2,156.5	-447.5	792.8	709.5	83.32	9.514		
9,800.0	7,740.0	9,860.8	7,740.0	43.7	44.0	-90.00	2,256.5	-447.5	791.0	704.4	86.66	9.128		
9,900.0	7,740.0	9,960.8	7,740.0	45.4	45.7	-90.00	2,356.5	-447.5	789.3	699.3	90.01	8.769		
10,000.0	7,740.0	10,060.8	7,740.0	47.1	47.3	-90.00	2,456.5	-447.5	787.6	694.2	93.37	8.434		
10,100.0	7,740.0	10,160.8	7,740.0	48.7	49.0	-90.00	2,556.4	-447.5	785.8	689.1	96.75	8.122		
10,200.0	7,740.0	10,260.8	7,740.0	50.4	50.7	-90.00	2,656.4	-447.5	784.1	683.9	100.13	7.831		
10,300.0	7,740.0	10,360.8	7,740.0	52.1	52.3	-90.00	2,756.4	-447.5	782.3	678.8	103.52	7.557		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-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		
10,400.0	7,740.0	10,460.7	7,740.0	53.8	54.0	-90.00	2,856.4	-447.5	780.6	673.7	106.92	7.301		
10,500.0	7,740.0	10,560.7	7,740.0	55.5	55.7	-90.00	2,956.4	-447.5	778.8	668.5	110.32	7.060		
10,600.0	7,740.0	10,660.7	7,740.0	57.1	57.4	-90.00	3,056.4	-447.5	777.1	663.3	113.73	6.833		
10,700.0	7,740.0	10,760.7	7,740.0	58.8	59.1	-90.00	3,156.4	-447.5	775.3	658.2	117.15	6.618		
10,800.0	7,740.0	10,860.7	7,740.0	60.5	60.8	-90.00	3,256.3	-447.5	773.6	653.0	120.57	6.416		
10,900.0	7,740.0	10,960.7	7,740.0	62.3	62.5	-90.00	3,356.3	-447.5	771.8	647.8	124.00	6.225		
11,000.0	7,740.0	11,060.7	7,740.0	64.0	64.2	-90.00	3,456.3	-447.5	770.1	642.7	127.43	6.043		
11,100.0	7,740.0	11,164.0	7,740.0	65.7	65.8	-90.00	3,549.6	-447.7	768.6	637.8	130.76	5.878		
11,200.0	7,740.0	11,249.2	7,740.0	67.4	67.4	-90.00	3,644.8	-449.0	768.2	634.1	134.12	5.728		
11,300.0	7,740.0	11,349.2	7,740.0	69.1	69.1	-90.00	3,744.8	-450.5	768.0	630.4	137.56	5.583		
11,400.0	7,740.0	11,449.2	7,740.0	70.8	70.8	-90.00	3,844.8	-452.0	767.7	626.7	141.01	5.445		
11,500.0	7,740.0	11,549.2	7,740.0	72.5	72.5	-90.00	3,944.8	-453.5	767.5	623.0	144.46	5.313		
11,600.0	7,740.0	11,649.2	7,740.0	74.2	74.3	-90.00	4,044.8	-455.0	767.2	619.3	147.91	5.187		
11,700.0	7,740.0	11,749.2	7,740.0	76.0	76.0	-90.00	4,144.7	-456.5	767.0	615.6	151.36	5.067		
11,800.0	7,740.0	11,849.2	7,740.0	77.7	77.7	-90.00	4,244.7	-458.0	766.7	611.9	154.82	4.952		
11,900.0	7,740.0	11,949.2	7,740.0	79.4	79.4	-90.00	4,344.7	-459.5	766.5	608.2	158.28	4.842		
12,000.0	7,740.0	12,049.2	7,740.0	81.1	81.1	-90.00	4,444.7	-461.0	766.2	604.5	161.74	4.737		
12,100.0	7,740.0	12,149.2	7,740.0	82.9	82.9	-90.00	4,544.7	-462.5	766.0	600.8	165.20	4.636		
12,200.0	7,740.0	12,249.2	7,740.0	84.6	84.6	-90.00	4,644.7	-463.9	765.7	597.0	168.67	4.540		
12,300.0	7,740.0	12,349.2	7,740.0	86.3	86.3	-90.00	4,744.7	-465.4	765.5	593.3	172.13	4.447		
12,400.0	7,740.0	12,449.2	7,740.0	88.0	88.1	-90.00	4,844.7	-466.9	765.2	589.6	175.60	4.358		
12,500.0	7,740.0	12,549.2	7,740.0	89.8	89.8	-90.00	4,944.6	-468.4	765.0	585.9	179.07	4.272		
12,600.0	7,740.0	12,649.2	7,740.0	91.5	91.5	-90.00	5,044.6	-469.9	764.7	582.2	182.54	4.189		
12,700.0	7,740.0	12,749.2	7,740.0	93.2	93.2	-90.00	5,144.6	-471.4	764.4	578.4	186.02	4.110		
12,800.0	7,740.0	12,849.2	7,740.0	95.0	95.0	-90.00	5,244.6	-472.9	764.2	574.7	189.49	4.033		
12,900.0	7,740.0	12,949.2	7,740.0	96.7	96.7	-90.00	5,344.6	-474.4	763.9	571.0	192.97	3.959		
13,000.0	7,740.0	13,049.2	7,740.0	98.4	98.4	-90.00	5,444.6	-475.9	763.7	567.3	196.44	3.888		
13,100.0	7,740.0	13,149.2	7,740.0	100.2	100.2	-90.00	5,544.6	-477.4	763.4	563.5	199.92	3.819		
13,200.0	7,740.0	13,249.2	7,740.0	101.9	101.9	-90.00	5,644.6	-478.9	763.2	559.8	203.40	3.752		
13,300.0	7,740.0	13,349.2	7,740.0	103.6	103.7	-90.00	5,744.6	-480.4	762.9	556.1	206.88	3.688		
13,400.0	7,740.0	13,449.2	7,740.0	105.4	105.4	-90.00	5,844.5	-481.9	762.7	552.3	210.36	3.626		
13,500.0	7,740.0	13,549.1	7,740.0	107.1	107.1	-90.00	5,944.5	-483.4	762.4	548.6	213.84	3.565		
13,600.0	7,740.0	13,649.1	7,740.0	108.9	108.9	-90.00	6,044.5	-484.9	762.2	544.9	217.32	3.507		
13,700.0	7,740.0	13,749.1	7,740.0	110.6	110.6	-90.00	6,144.5	-486.4	761.9	541.1	220.81	3.451		
13,800.0	7,740.0	13,849.1	7,740.0	112.3	112.3	-90.00	6,244.5	-487.9	761.7	537.4	224.29	3.396		
13,900.0	7,740.0	13,949.1	7,740.0	114.1	114.1	-90.00	6,344.5	-489.3	761.4	533.7	227.78	3.343		
14,000.0	7,740.0	14,049.1	7,740.0	115.8	115.8	-90.00	6,444.5	-490.8	761.2	529.9	231.26	3.291		
14,100.0	7,740.0	14,149.1	7,740.0	117.6	117.6	-90.00	6,544.5	-492.3	760.9	526.1	234.75	3.241		
14,200.0	7,740.0	14,249.1	7,740.0	119.3	119.3	-90.00	6,644.4	-493.8	759.4	521.1	238.24	3.187		
14,300.0	7,740.0	14,349.1	7,740.0	121.0	121.0	-90.00	6,744.4	-495.3	756.1	514.4	241.72	3.128		
14,400.0	7,740.0	14,449.0	7,740.0	122.8	122.8	-90.00	6,844.3	-496.8	751.4	506.2	245.21	3.064		
14,500.0	7,740.0	14,548.9	7,740.0	124.5	124.5	-90.00	6,944.1	-498.3	746.6	497.9	248.69	3.002		
14,600.0	7,740.0	14,648.7	7,740.0	126.2	126.3	-90.00	7,044.0	-499.8	741.8	489.6	252.18	2.941		
14,633.9	7,740.0	14,681.2	7,740.0	126.8	126.8	-90.00	7,076.5	-500.3	740.1	486.8	253.34	2.922 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-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	-89.94	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-7.6	7.6	7.3	0.30	24.883	7.543 CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-7.6	7.6	6.9	0.65	11.577		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-7.6	7.6	6.6	1.00	7.543		
400.0	400.0	399.9	399.9	0.7	0.7	-94.64	-0.7	-8.1	8.1	6.8	1.35	6.028		
500.0	500.0	499.7	499.7	0.8	0.9	-105.19	-2.7	-9.8	10.2	8.5	1.70	5.970		
600.0	600.0	599.5	599.3	1.0	1.0	-115.43	-6.0	-12.6	14.0	11.9	2.05	6.807		
700.0	700.0	699.6	699.4	1.2	1.2	143.43	-9.5	-15.3	18.7	16.3	2.40	7.778		
800.0	800.0	799.9	799.6	1.4	1.4	143.56	-12.0	-16.5	23.1	20.3	2.75	8.392		
900.0	899.9	900.1	899.9	1.6	1.6	146.23	-13.4	-16.4	27.3	24.2	3.11	8.775		
1,000.0	999.7	1,000.0	999.7	1.7	1.7	149.45	-14.5	-15.8	31.9	28.4	3.46	9.217		
1,100.0	1,099.6	1,099.9	1,099.6	1.9	1.9	151.88	-15.7	-15.3	36.6	32.8	3.81	9.603		
1,200.0	1,199.4	1,199.8	1,199.5	2.1	2.1	153.74	-16.8	-14.7	41.4	37.2	4.17	9.937		
1,300.0	1,299.3	1,299.7	1,299.3	2.3	2.3	155.22	-17.9	-14.1	46.2	41.7	4.52	10.227		
1,400.0	1,399.1	1,399.5	1,399.2	2.5	2.4	156.42	-19.0	-13.6	51.1	46.2	4.87	10.481		
1,500.0	1,498.9	1,499.4	1,499.1	2.7	2.6	157.41	-20.2	-13.0	55.9	50.7	5.23	10.704		
1,600.0	1,598.8	1,599.3	1,598.9	2.9	2.8	158.24	-21.3	-12.4	60.8	55.2	5.58	10.902		
1,700.0	1,698.6	1,699.2	1,698.8	3.1	3.0	158.95	-22.4	-11.9	65.7	59.8	5.93	11.079		
1,800.0	1,798.5	1,799.0	1,798.7	3.3	3.1	159.56	-23.5	-11.3	70.6	64.3	6.28	11.238		
1,900.0	1,898.3	1,898.9	1,898.6	3.5	3.3	160.09	-24.6	-10.7	75.5	68.9	6.63	11.381		
2,000.0	1,998.2	1,998.8	1,998.4	3.7	3.5	160.56	-25.8	-10.2	80.4	73.4	6.99	11.510		
2,100.0	2,098.0	2,098.7	2,098.3	3.9	3.7	160.97	-26.9	-9.6	85.3	78.0	7.34	11.628		
2,200.0	2,197.9	2,198.6	2,198.2	4.1	3.8	161.34	-28.0	-9.0	90.2	82.5	7.69	11.735		
2,300.0	2,297.7	2,298.4	2,298.0	4.3	4.0	161.67	-29.1	-8.5	95.2	87.1	8.04	11.834		
2,400.0	2,397.6	2,398.3	2,397.9	4.5	4.2	161.97	-30.3	-7.9	100.1	91.7	8.39	11.925		
2,500.0	2,497.4	2,498.2	2,497.8	4.7	4.4	162.23	-31.4	-7.3	105.0	96.3	8.74	12.009		
2,600.0	2,597.3	2,598.1	2,597.6	4.9	4.5	162.48	-32.5	-6.8	109.9	100.8	9.10	12.086		
2,700.0	2,697.1	2,697.9	2,697.5	5.1	4.7	162.70	-33.6	-6.2	114.9	105.4	9.45	12.159		
2,800.0	2,797.0	2,797.8	2,797.4	5.3	4.9	162.91	-34.7	-5.7	119.8	110.0	9.80	12.226		
2,900.0	2,896.8	2,897.7	2,897.3	5.5	5.1	163.10	-35.9	-5.1	124.7	114.6	10.15	12.288		
3,000.0	2,996.7	2,997.6	2,997.1	5.7	5.3	163.27	-37.0	-4.5	129.7	119.2	10.50	12.347		
3,100.0	3,096.5	3,097.5	3,097.0	5.9	5.4	163.44	-38.1	-4.0	134.6	123.7	10.85	12.402		
3,200.0	3,196.4	3,197.3	3,196.9	6.1	5.6	163.59	-39.2	-3.4	139.5	128.3	11.20	12.453		
3,300.0	3,296.2	3,297.2	3,296.7	6.3	5.8	163.73	-40.4	-2.8	144.5	132.9	11.56	12.502		
3,400.0	3,396.1	3,397.1	3,396.6	6.5	6.0	163.86	-41.5	-2.3	149.4	137.5	11.91	12.548		
3,500.0	3,495.9	3,497.0	3,496.5	6.7	6.1	163.98	-42.6	-1.7	154.3	142.1	12.26	12.591		
3,600.0	3,595.7	3,596.8	3,596.3	6.9	6.3	164.10	-43.7	-1.1	159.3	146.7	12.61	12.632		
3,700.0	3,695.6	3,696.7	3,696.2	7.1	6.5	164.20	-44.9	-0.6	164.2	151.3	12.96	12.670		
3,800.0	3,795.4	3,796.6	3,796.1	7.3	6.7	164.31	-46.0	0.0	169.2	155.8	13.31	12.707		
3,900.0	3,895.3	3,896.5	3,895.9	7.4	6.8	164.40	-47.1	0.6	174.1	160.4	13.66	12.742		
4,000.0	3,995.1	3,996.3	3,995.8	7.6	7.0	164.49	-48.2	1.1	179.0	165.0	14.01	12.775		
4,100.0	4,095.0	4,096.2	4,095.7	7.8	7.2	164.58	-49.3	1.7	184.0	169.6	14.37	12.807		
4,200.0	4,194.8	4,196.1	4,195.6	8.0	7.4	164.66	-50.5	2.3	188.9	174.2	14.72	12.837		
4,300.0	4,294.7	4,296.0	4,295.4	8.2	7.5	164.74	-51.6	2.8	193.9	178.8	15.07	12.865		
4,400.0	4,394.5	4,395.9	4,395.3	8.4	7.7	164.81	-52.7	3.4	198.8	183.4	15.42	12.893		
4,500.0	4,494.4	4,495.7	4,495.2	8.6	7.9	164.88	-53.8	4.0	203.7	188.0	15.77	12.919		
4,600.0	4,594.2	4,595.6	4,595.0	8.8	8.1	164.95	-55.0	4.5	208.7	192.6	16.12	12.944		
4,700.0	4,694.1	4,695.5	4,694.9	9.0	8.2	165.01	-56.1	5.1	213.6	197.2	16.47	12.968		
4,800.0	4,793.9	4,795.4	4,794.8	9.2	8.4	165.07	-57.2	5.7	218.6	201.7	16.82	12.991		
4,900.0	4,893.8	4,895.2	4,894.6	9.4	8.6	165.13	-58.3	6.2	223.5	206.3	17.18	13.013		
5,000.0	4,993.6	4,995.1	4,994.5	9.6	8.8	165.19	-59.5	6.8	228.5	210.9	17.53	13.035		
5,100.0	5,093.5	5,095.0	5,094.4	9.8	8.9	165.24	-60.6	7.4	233.4	215.5	17.88	13.055		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-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		
5,200.0	5,193.3	5,194.9	5,194.3	10.0	9.1	165.29	-61.7	7.9	238.3	220.1	18.23	13.075		
5,300.0	5,293.2	5,294.8	5,294.1	10.2	9.3	165.34	-62.8	8.5	243.3	224.7	18.58	13.094		
5,400.0	5,393.0	5,394.6	5,394.0	10.4	9.5	165.39	-63.9	9.1	248.2	229.3	18.93	13.112		
5,500.0	5,492.8	5,494.5	5,493.9	10.6	9.6	165.43	-65.1	9.6	253.2	233.9	19.28	13.130		
5,600.0	5,592.7	5,594.4	5,593.7	10.8	9.8	165.47	-66.2	10.2	258.1	238.5	19.63	13.146		
5,700.0	5,692.5	5,694.3	5,693.6	11.0	10.0	165.52	-67.3	10.8	263.1	243.1	19.99	13.163		
5,800.0	5,792.4	5,794.1	5,793.5	11.2	10.2	165.56	-68.4	11.3	268.0	247.7	20.34	13.179		
5,900.0	5,892.2	5,894.0	5,893.3	11.4	10.3	165.59	-69.6	11.9	273.0	252.3	20.69	13.194		
6,000.0	5,992.1	5,993.9	5,993.2	11.6	10.5	165.63	-70.7	12.4	277.9	256.9	21.04	13.209		
6,100.0	6,091.9	6,093.8	6,093.1	11.8	10.7	165.67	-71.8	13.0	282.8	261.5	21.39	13.223		
6,200.0	6,191.8	6,193.7	6,192.9	12.0	10.9	165.70	-72.9	13.6	287.8	266.1	21.74	13.237		
6,300.0	6,291.6	6,293.5	6,292.8	12.2	11.0	165.74	-74.1	14.1	292.7	270.6	22.09	13.250		
6,400.0	6,391.5	6,393.4	6,392.7	12.4	11.2	165.77	-75.2	14.7	297.7	275.2	22.44	13.263		
6,500.0	6,491.3	6,493.3	6,492.6	12.6	11.4	165.80	-76.3	15.3	302.6	279.8	22.80	13.276		
6,600.0	6,591.2	6,593.2	6,592.4	12.8	11.6	165.83	-77.4	15.8	307.6	284.4	23.15	13.288		
6,700.0	6,691.0	6,693.0	6,692.3	13.0	11.7	165.86	-78.5	16.4	312.5	289.0	23.50	13.300		
6,800.0	6,790.9	6,792.9	6,792.2	13.2	11.9	165.89	-79.7	17.0	317.5	293.6	23.85	13.312		
6,900.0	6,890.7	6,892.8	6,892.0	13.4	12.1	165.92	-80.8	17.5	322.4	298.2	24.20	13.323		
7,000.0	6,990.6	6,992.7	6,991.9	13.6	12.3	166.82	-76.9	18.0	326.8	302.3	24.54	13.321		
7,100.0	7,090.4	7,092.5	7,091.7	13.8	12.4	170.69	-55.7	18.2	330.3	305.5	24.81	13.313		
7,200.0	7,190.3	7,190.8	7,180.9	14.0	12.5	-140.48	-21.8	18.1	335.9	310.9	25.05	13.408		
7,300.0	7,289.2	7,275.8	7,254.1	14.2	12.7	-93.87	21.4	17.7	346.0	320.7	25.28	13.684		
7,400.0	7,384.4	7,356.9	7,317.1	14.4	12.9	-81.66	72.2	17.2	359.2	333.7	25.50	14.088		
7,500.0	7,473.1	7,434.9	7,370.5	14.6	13.2	-74.09	129.0	16.5	374.2	348.4	25.72	14.548		
7,600.0	7,552.5	7,510.5	7,414.4	14.9	13.6	-68.49	190.5	15.7	389.4	363.4	25.98	14.987		
7,700.0	7,620.2	7,584.3	7,449.0	15.3	14.1	-64.21	255.5	14.7	403.7	377.4	26.34	15.328		
7,800.0	7,674.1	7,650.0	7,472.6	15.9	14.6	-61.11	316.8	13.8	416.3	389.6	26.70	15.591		
7,900.0	7,712.7	7,728.1	7,491.3	16.7	15.3	-58.65	392.5	12.6	426.1	398.6	27.54	15.474		
8,000.0	7,734.8	7,800.0	7,499.3	17.5	16.0	-57.13	464.0	11.4	433.0	404.5	28.48	15.205		
8,100.0	7,740.0	7,886.4	7,500.0	18.6	17.0	-56.56	550.4	9.8	435.5	405.5	29.99	14.523		
8,200.0	7,740.0	7,986.4	7,500.0	19.7	18.2	-56.56	650.4	8.1	435.5	403.5	32.01	13.604		
8,300.0	7,740.0	8,086.4	7,500.0	20.9	19.5	-56.56	750.4	6.4	435.5	401.4	34.17	12.746		
8,400.0	7,740.0	8,186.4	7,500.0	22.2	20.9	-56.56	850.4	4.6	435.5	399.1	36.44	11.953		
8,500.0	7,740.0	8,286.4	7,500.0	23.5	22.3	-56.56	950.3	2.9	435.5	396.7	38.79	11.227		
8,600.0	7,740.0	8,386.4	7,500.0	24.9	23.8	-56.56	1,050.3	1.1	435.5	394.3	41.22	10.566		
8,700.0	7,740.0	8,486.4	7,500.0	26.4	25.3	-56.56	1,150.3	-0.6	435.5	391.8	43.71	9.963		
8,800.0	7,740.0	8,586.4	7,500.0	27.8	26.8	-56.56	1,250.3	-2.4	435.5	389.3	46.26	9.415		
8,900.0	7,740.0	8,686.4	7,500.0	29.3	28.4	-56.56	1,350.3	-4.1	435.5	386.7	48.85	8.916		
9,000.0	7,740.0	8,786.4	7,500.0	30.9	29.9	-56.56	1,450.3	-5.9	435.5	384.1	51.47	8.461		
9,100.0	7,740.0	8,886.4	7,500.0	32.4	31.5	-56.56	1,550.3	-7.6	435.5	381.4	54.13	8.046		
9,200.0	7,740.0	8,986.4	7,500.0	34.0	33.2	-56.56	1,650.2	-9.4	435.5	378.7	56.81	7.666		
9,300.0	7,740.0	9,086.4	7,500.0	35.6	34.8	-56.56	1,750.2	-11.1	435.5	376.0	59.52	7.317		
9,340.9	7,740.0	9,127.3	7,500.0	36.2	35.4	-56.56	1,791.1	-11.8	435.5	374.9	60.64	7.183		
9,400.0	7,740.0	9,182.9	7,500.0	37.2	36.4	-56.58	1,846.7	-13.0	435.8	373.6	62.16	7.011		
9,500.0	7,740.0	9,277.0	7,500.0	38.8	37.9	-56.70	1,940.6	-16.4	437.3	372.5	64.79	6.749		
9,600.0	7,740.0	9,370.9	7,500.0	40.4	39.5	-56.93	2,034.4	-21.2	440.1	372.6	67.50	6.520		
9,700.0	7,740.0	9,467.1	7,500.0	42.1	41.1	-57.27	2,130.4	-27.6	444.3	373.9	70.39	6.312		
9,800.0	7,740.0	9,566.9	7,500.0	43.7	42.7	-57.63	2,230.0	-34.6	448.7	375.2	73.46	6.108		
9,900.0	7,740.0	9,666.8	7,500.0	45.4	44.4	-57.98	2,329.7	-41.6	453.1	376.6	76.55	5.919		
10,000.0	7,740.0	9,766.7	7,500.0	47.1	46.1	-58.33	2,429.3	-48.5	457.6	377.9	79.67	5.743		
10,100.0	7,740.0	9,866.5	7,500.0	48.7	47.8	-58.67	2,528.9	-55.5	462.0	379.2	82.81	5.579		
10,200.0	7,740.0	9,966.4	7,500.0	50.4	49.5	-59.00	2,628.5	-62.5	466.5	380.5	85.97	5.426		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-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)			
10,300.0	7,740.0	10,066.2	7,500.0	52.1	51.2	-59.33	2,728.1	-69.4	471.0	381.8	89.15	5.283	
10,400.0	7,740.0	10,166.1	7,500.0	53.8	52.9	-59.65	2,827.8	-76.4	475.5	383.1	92.36	5.149	
10,500.0	7,740.0	10,266.0	7,500.0	55.5	54.6	-59.97	2,927.4	-83.4	480.0	384.5	95.57	5.023	
10,600.0	7,740.0	10,365.8	7,500.0	57.1	56.3	-60.28	3,027.0	-90.3	484.6	385.8	98.81	4.904	
10,700.0	7,740.0	10,465.7	7,500.0	58.8	58.0	-60.58	3,126.6	-97.3	489.1	387.1	102.06	4.792	
10,800.0	7,740.0	10,565.6	7,500.0	60.5	59.7	-60.88	3,226.2	-104.3	493.7	388.4	105.33	4.687	
10,900.0	7,740.0	10,668.5	7,500.0	62.3	61.5	-61.17	3,329.0	-111.3	498.2	389.4	108.72	4.582	
11,000.0	7,740.0	10,776.7	7,500.0	64.0	63.3	-61.39	3,437.0	-117.1	501.3	389.1	112.23	4.467	
11,100.0	7,740.0	10,885.1	7,500.0	65.7	65.2	-61.49	3,545.3	-120.8	502.8	387.2	115.61	4.349	
11,200.0	7,740.0	10,993.4	7,500.0	67.4	67.1	-61.48	3,653.6	-122.5	502.6	383.8	118.85	4.229	
11,300.0	7,740.0	11,095.7	7,500.0	69.1	68.8	-61.39	3,755.9	-122.6	501.2	379.4	121.84	4.114	
11,400.0	7,740.0	11,195.7	7,500.0	70.8	70.5	-61.30	3,855.9	-122.7	499.7	375.0	124.77	4.005	
11,500.0	7,740.0	11,295.7	7,500.0	72.5	72.3	-61.20	3,955.9	-122.8	498.3	370.6	127.69	3.902	
11,600.0	7,740.0	11,395.7	7,500.0	74.2	74.0	-61.11	4,055.9	-122.9	496.8	366.2	130.61	3.804	
11,700.0	7,740.0	11,495.6	7,500.0	76.0	75.7	-61.02	4,155.8	-123.0	495.4	361.8	133.53	3.710	
11,800.0	7,740.0	11,595.6	7,500.0	77.7	77.4	-60.92	4,255.8	-123.0	493.9	357.5	136.44	3.620	
11,900.0	7,740.0	11,695.6	7,500.0	79.4	79.2	-60.83	4,355.8	-123.1	492.5	353.1	139.35	3.534	
12,000.0	7,740.0	11,795.6	7,500.0	81.1	80.9	-60.74	4,455.8	-123.2	491.0	348.8	142.25	3.452	
12,100.0	7,740.0	11,895.6	7,500.0	82.9	82.6	-60.64	4,555.8	-123.3	489.6	344.4	145.15	3.373	
12,200.0	7,740.0	11,995.6	7,500.0	84.6	84.4	-60.54	4,655.8	-123.4	488.1	340.1	148.05	3.297	
12,300.0	7,740.0	12,095.6	7,500.0	86.3	86.1	-60.45	4,755.8	-123.4	486.7	335.7	150.93	3.224	
12,400.0	7,740.0	12,195.5	7,500.0	88.0	87.8	-60.35	4,855.7	-123.5	485.2	331.4	153.82	3.155	
12,500.0	7,740.0	12,295.5	7,500.0	89.8	89.6	-60.25	4,955.7	-123.6	483.8	327.1	156.69	3.087	
12,600.0	7,740.0	12,395.5	7,500.0	91.5	91.3	-60.16	5,055.7	-123.7	482.3	322.8	159.57	3.023	
12,700.0	7,740.0	12,495.5	7,500.0	93.2	93.0	-60.06	5,155.7	-123.8	480.9	318.5	162.43	2.961	
12,800.0	7,740.0	12,595.5	7,500.0	95.0	94.8	-59.96	5,255.7	-123.9	479.4	314.2	165.29	2.901	
12,900.0	7,740.0	12,695.5	7,500.0	96.7	96.5	-59.86	5,355.7	-123.9	478.0	309.9	168.14	2.843	
13,000.0	7,740.0	12,795.5	7,500.0	98.4	98.3	-59.76	5,455.7	-124.0	476.6	305.6	170.99	2.787	
13,100.0	7,740.0	12,895.4	7,500.0	100.2	100.0	-59.66	5,555.6	-124.1	475.1	301.3	173.83	2.733	
13,200.0	7,740.0	12,995.4	7,500.0	101.9	101.7	-59.56	5,655.6	-124.2	473.7	297.0	176.66	2.681	
13,300.0	7,740.0	13,095.4	7,500.0	103.6	103.5	-59.45	5,755.6	-124.3	472.3	292.8	179.49	2.631	
13,400.0	7,740.0	13,195.4	7,500.0	105.4	105.2	-59.35	5,855.6	-124.3	470.8	288.5	182.31	2.583	
13,500.0	7,740.0	13,295.4	7,500.0	107.1	107.0	-59.25	5,955.6	-124.4	469.4	284.3	185.12	2.536	
13,600.0	7,740.0	13,395.4	7,500.0	108.9	108.7	-59.14	6,055.6	-124.5	468.0	280.1	187.93	2.490	
13,700.0	7,740.0	13,495.4	7,500.0	110.6	110.4	-59.04	6,155.6	-124.6	466.5	275.8	190.72	2.446	
13,800.0	7,740.0	13,595.4	7,500.0	112.3	112.2	-58.93	6,255.6	-124.7	465.1	271.6	193.51	2.404	
13,900.0	7,740.0	13,695.3	7,500.0	114.1	113.9	-58.83	6,355.5	-124.8	463.7	267.4	196.29	2.362	
14,000.0	7,740.0	13,795.3	7,500.0	115.8	115.7	-58.72	6,455.5	-124.8	462.3	263.2	199.07	2.322	
14,100.0	7,740.0	13,895.3	7,500.0	117.6	117.4	-58.61	6,555.5	-124.9	460.8	259.0	201.83	2.283	
14,200.0	7,740.0	13,995.3	7,500.0	119.3	119.1	-58.40	6,655.5	-125.0	458.3	253.9	204.41	2.242	
14,300.0	7,740.0	14,095.2	7,500.0	121.0	120.9	-58.07	6,755.4	-125.1	454.4	247.6	206.73	2.198	
14,400.0	7,740.0	14,195.0	7,500.0	122.8	122.6	-57.65	6,855.2	-125.2	449.2	240.4	208.80	2.151	
14,500.0	7,740.0	14,294.8	7,500.0	124.5	124.4	-57.22	6,955.0	-125.2	443.9	233.1	210.79	2.106	
14,600.0	7,740.0	14,394.6	7,500.0	126.2	126.1	-56.78	7,054.8	-125.3	438.7	226.0	212.72	2.062	
14,633.9	7,740.0	14,422.5	7,500.0	126.8	126.6	-56.66	7,082.7	-125.4	437.0	223.8	213.21	2.050 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	7.6	7.6						
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	7.6	7.6	7.3	0.30	24.883			
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	7.6	7.6	6.9	0.65	11.577			
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	7.6	7.6	6.6	1.00	7.543			
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	7.6	7.6	6.2	1.35	5.594			
500.0	500.0	500.0	500.0	0.8	0.8	90.00	0.0	7.6	7.6	5.9	1.70	4.445 CC, ES			
600.0	600.0	599.9	599.9	1.0	1.0	90.63	-0.1	8.4	8.4	6.4	2.05	4.112			
700.0	700.0	699.7	699.6	1.2	1.2	-4.77	-0.4	11.0	10.2	7.8	2.40	4.239			
800.0	800.0	799.5	799.3	1.4	1.4	-4.14	-0.8	15.3	11.9	9.1	2.74	4.333			
900.0	899.9	899.2	898.9	1.6	1.6	-3.69	-1.5	21.4	13.6	10.5	3.09	4.407			
1,000.0	999.7	999.0	998.3	1.7	1.8	-3.24	-2.3	29.1	16.0	12.5	3.44	4.642			
1,100.0	1,099.6	1,098.7	1,097.7	1.9	2.0	-2.70	-3.3	38.4	19.8	16.0	3.79	5.227			
1,200.0	1,199.4	1,198.7	1,197.1	2.1	2.2	-2.32	-4.3	47.9	23.8	19.7	4.14	5.762			
1,300.0	1,299.3	1,298.6	1,296.6	2.3	2.4	-2.05	-5.4	57.4	27.9	23.4	4.48	6.215			
1,400.0	1,399.1	1,398.5	1,396.1	2.5	2.7	-1.84	-6.4	66.9	31.9	27.1	4.83	6.602			
1,500.0	1,498.9	1,498.4	1,495.5	2.7	2.9	-1.68	-7.4	76.4	36.0	30.8	5.18	6.937			
1,600.0	1,598.8	1,598.3	1,595.0	2.9	3.1	-1.56	-8.4	85.9	40.0	34.5	5.53	7.230			
1,700.0	1,698.6	1,698.2	1,694.4	3.1	3.4	-1.45	-9.5	95.4	44.0	38.2	5.88	7.488			
1,800.0	1,798.5	1,798.2	1,793.9	3.3	3.6	-1.37	-10.5	104.9	48.1	41.9	6.23	7.717			
1,900.0	1,898.3	1,898.1	1,893.4	3.5	3.8	-1.30	-11.5	114.3	52.1	45.5	6.58	7.922			
2,000.0	1,998.2	1,998.0	1,992.8	3.7	4.1	-1.23	-12.5	123.8	56.2	49.2	6.93	8.107			
2,100.0	2,098.0	2,097.9	2,092.3	3.9	4.3	-1.18	-13.5	133.3	60.2	52.9	7.28	8.273			
2,200.0	2,197.9	2,197.8	2,191.7	4.1	4.5	-1.13	-14.6	142.8	64.3	56.6	7.63	8.425			
2,300.0	2,297.7	2,297.8	2,291.2	4.3	4.8	-1.09	-15.6	152.3	68.3	60.3	7.98	8.563			
2,400.0	2,397.6	2,397.7	2,390.7	4.5	5.0	-1.05	-16.6	161.8	72.3	64.0	8.33	8.689			
2,500.0	2,497.4	2,497.6	2,490.1	4.7	5.3	-1.02	-17.6	171.3	76.4	67.7	8.67	8.806			
2,600.0	2,597.3	2,597.5	2,589.6	4.9	5.5	-0.99	-18.7	180.8	80.4	71.4	9.02	8.913			
2,700.0	2,697.1	2,697.4	2,689.0	5.1	5.7	-0.97	-19.7	190.3	84.5	75.1	9.37	9.013			
2,800.0	2,797.0	2,797.3	2,788.5	5.3	6.0	-0.94	-20.7	199.8	88.5	78.8	9.72	9.105			
2,900.0	2,896.8	2,897.3	2,888.0	5.5	6.2	-0.92	-21.7	209.3	92.6	82.5	10.07	9.191			
3,000.0	2,996.7	2,997.2	2,987.4	5.7	6.4	-0.90	-22.7	218.7	96.6	86.2	10.42	9.271			
3,100.0	3,096.5	3,097.1	3,086.9	5.9	6.7	-0.88	-23.8	228.2	100.6	89.9	10.77	9.346			
3,200.0	3,196.4	3,197.0	3,186.4	6.1	6.9	-0.86	-24.8	237.7	104.7	93.6	11.12	9.416			
3,300.0	3,296.2	3,296.9	3,285.8	6.3	7.2	-0.85	-25.8	247.2	108.7	97.3	11.47	9.482			
3,400.0	3,396.1	3,396.9	3,385.3	6.5	7.4	-0.83	-26.8	256.7	112.8	101.0	11.82	9.544			
3,500.0	3,495.9	3,496.8	3,484.7	6.7	7.6	-0.82	-27.8	266.2	116.8	104.7	12.17	9.603			
3,600.0	3,595.7	3,596.7	3,584.2	6.9	7.9	-0.81	-28.9	275.7	120.9	108.4	12.52	9.658			
3,700.0	3,695.6	3,696.6	3,683.7	7.1	8.1	-0.79	-29.9	285.2	124.9	112.0	12.86	9.710			
3,800.0	3,795.4	3,796.5	3,783.1	7.3	8.4	-0.78	-30.9	294.7	129.0	115.7	13.21	9.759			
3,900.0	3,895.3	3,896.4	3,882.6	7.4	8.6	-0.77	-31.9	304.2	133.0	119.4	13.56	9.806			
4,000.0	3,995.1	3,996.4	3,982.0	7.6	8.8	-0.76	-33.0	313.7	137.0	123.1	13.91	9.851			
4,100.0	4,095.0	4,096.3	4,081.5	7.8	9.1	-0.75	-34.0	323.1	141.1	126.8	14.26	9.893			
4,200.0	4,194.8	4,196.2	4,181.0	8.0	9.3	-0.74	-35.0	332.6	145.1	130.5	14.61	9.934			
4,300.0	4,294.7	4,296.1	4,280.4	8.2	9.6	-0.74	-36.0	342.1	149.2	134.2	14.96	9.972			
4,400.0	4,394.5	4,396.0	4,379.9	8.4	9.8	-0.73	-37.0	351.6	153.2	137.9	15.31	10.009			
4,500.0	4,494.4	4,496.0	4,479.3	8.6	10.1	-0.72	-38.1	361.1	157.3	141.6	15.66	10.044			
4,600.0	4,594.2	4,595.9	4,578.8	8.8	10.3	-0.71	-39.1	370.6	161.3	145.3	16.01	10.078			
4,700.0	4,694.1	4,695.8	4,678.3	9.0	10.5	-0.71	-40.1	380.1	165.3	149.0	16.36	10.110			
4,800.0	4,793.9	4,795.7	4,777.7	9.2	10.8	-0.70	-41.1	389.6	169.4	152.7	16.70	10.141			
4,900.0	4,893.8	4,895.6	4,877.2	9.4	11.0	-0.69	-42.2	399.1	173.4	156.4	17.05	10.170			
5,000.0	4,993.6	4,995.5	4,976.7	9.6	11.3	-0.69	-43.2	408.6	177.5	160.1	17.40	10.198			
5,100.0	5,093.5	5,095.5	5,076.1	9.8	11.5	-0.68	-44.2	418.1	181.5	163.8	17.75	10.226			

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,193.3	5,195.4	5,175.6	10.0	11.7	-0.68	-45.2	427.6	185.6	167.5	18.10	10.252	
5,300.0	5,293.2	5,295.3	5,275.0	10.2	12.0	-0.67	-46.2	437.0	189.6	171.2	18.45	10.277	
5,400.0	5,393.0	5,395.2	5,374.5	10.4	12.2	-0.67	-47.3	446.5	193.7	174.9	18.80	10.301	
5,500.0	5,492.8	5,495.1	5,474.0	10.6	12.5	-0.66	-48.3	456.0	197.7	178.5	19.15	10.325	
5,600.0	5,592.7	5,595.1	5,573.4	10.8	12.7	-0.66	-49.3	465.5	201.7	182.2	19.50	10.347	
5,700.0	5,692.5	5,695.0	5,672.9	11.0	12.9	-0.65	-50.3	475.0	205.8	185.9	19.85	10.369	
5,800.0	5,792.4	5,794.9	5,772.3	11.2	13.2	-0.65	-51.4	484.5	209.8	189.6	20.20	10.390	
5,900.0	5,892.2	5,894.8	5,871.8	11.4	13.4	-0.64	-52.4	494.0	213.9	193.3	20.54	10.410	
6,000.0	5,992.1	5,994.7	5,971.3	11.6	13.7	-0.64	-53.4	503.5	217.9	197.0	20.89	10.430	
6,100.0	6,091.9	6,094.6	6,070.7	11.8	13.9	-0.64	-54.4	513.0	222.0	200.7	21.24	10.449	
6,200.0	6,191.8	6,194.6	6,170.2	12.0	14.2	-0.63	-55.4	522.5	226.0	204.4	21.59	10.467	
6,300.0	6,291.6	6,294.5	6,269.7	12.2	14.4	-0.63	-56.5	532.0	230.0	208.1	21.94	10.485	
6,400.0	6,391.5	6,394.4	6,369.1	12.4	14.6	-0.63	-57.5	541.4	234.1	211.8	22.29	10.502	
6,500.0	6,491.3	6,494.3	6,468.6	12.6	14.9	-0.62	-58.5	550.9	238.1	215.5	22.64	10.519	
6,600.0	6,591.2	6,594.2	6,568.0	12.8	15.1	-0.62	-59.5	560.4	242.2	219.2	22.99	10.535	
6,700.0	6,691.0	6,694.2	6,667.5	13.0	15.4	-0.62	-60.5	569.9	246.2	222.9	23.34	10.551	
6,800.0	6,790.9	6,794.1	6,767.0	13.2	15.6	-0.61	-61.6	579.4	250.3	226.6	23.69	10.566	
6,900.0	6,890.7	6,894.0	6,866.4	13.4	15.8	-0.61	-62.6	588.9	254.3	230.3	24.04	10.581	
7,000.0	6,990.6	6,995.6	6,967.5	13.6	16.1	-0.97	-62.0	598.6	258.2	233.8	24.39	10.587	
7,100.0	7,090.4	7,096.7	7,066.8	13.8	16.3	-4.57	-46.5	608.2	261.4	236.7	24.76	10.559	
7,200.0	7,190.3	7,189.8	7,154.6	14.0	16.5	31.62	-17.0	616.9	266.7	241.6	25.14	10.611	
7,300.0	7,289.2	7,276.8	7,231.3	14.2	16.7	64.46	23.2	624.7	276.6	251.2	25.39	10.894	
7,400.0	7,384.4	7,360.2	7,298.3	14.4	17.0	64.32	72.2	631.6	289.9	264.5	25.38	11.421	
7,500.0	7,473.1	7,440.5	7,355.5	14.6	17.3	61.24	128.2	637.6	305.0	279.8	25.16	12.119	
7,600.0	7,552.5	7,518.6	7,403.1	14.9	17.6	57.95	189.8	642.8	320.5	295.5	24.91	12.864	
7,700.0	7,620.2	7,600.0	7,443.4	15.3	18.1	54.94	260.3	647.4	335.2	310.3	24.88	13.474	
7,800.0	7,674.1	7,669.8	7,469.7	15.9	18.5	52.77	324.8	650.6	348.2	323.1	25.13	13.854	
7,900.0	7,712.7	7,750.0	7,490.0	16.7	19.2	51.01	402.3	653.3	358.9	333.0	25.94	13.837	
8,000.0	7,734.8	7,817.1	7,498.6	17.5	19.7	49.99	468.8	654.9	366.6	339.3	27.38	13.392	
8,100.0	7,740.0	7,902.2	7,500.0	18.6	20.5	49.66	553.8	655.9	370.8	341.6	29.19	12.702	
8,200.0	7,740.0	8,002.1	7,500.0	19.7	21.6	49.93	653.7	656.9	372.9	341.9	31.09	11.994	
8,300.0	7,740.0	8,102.1	7,500.0	20.9	22.7	50.21	753.7	658.0	375.1	342.0	33.13	11.322	
8,400.0	7,740.0	8,202.0	7,500.0	22.2	23.9	50.48	853.7	659.0	377.2	342.0	35.28	10.693	
8,500.0	7,740.0	8,302.0	7,500.0	23.5	25.1	50.75	953.6	660.1	379.4	341.9	37.53	10.110	
8,600.0	7,740.0	8,402.0	7,500.0	24.9	26.5	51.01	1,053.6	661.1	381.6	341.7	39.86	9.572	
8,700.0	7,740.0	8,501.9	7,500.0	26.4	27.8	51.28	1,153.5	662.2	383.7	341.5	42.27	9.078	
8,800.0	7,740.0	8,601.9	7,500.0	27.8	29.2	51.54	1,253.5	663.2	385.9	341.2	44.75	8.625	
8,900.0	7,740.0	8,701.8	7,500.0	29.3	30.7	51.79	1,353.4	664.3	388.1	340.8	47.28	8.209	
9,000.0	7,740.0	8,801.8	7,500.0	30.9	32.2	52.04	1,453.4	665.3	390.3	340.4	49.87	7.827	
9,100.0	7,740.0	8,901.8	7,500.0	32.4	33.7	52.30	1,553.3	666.4	392.5	340.0	52.50	7.476	
9,200.0	7,740.0	9,001.7	7,500.0	34.0	35.2	52.54	1,653.3	667.4	394.7	339.6	55.18	7.154	
9,300.0	7,740.0	9,101.7	7,500.0	35.6	36.7	52.79	1,753.3	668.4	397.0	339.1	57.89	6.857	
9,400.0	7,740.0	9,201.7	7,500.0	37.2	38.3	53.03	1,853.2	669.5	399.2	338.5	60.64	6.583	
9,500.0	7,740.0	9,301.6	7,500.0	38.8	39.9	53.27	1,953.2	670.5	401.4	338.0	63.42	6.329	
9,600.0	7,740.0	9,401.6	7,500.0	40.4	41.5	53.51	2,053.1	671.6	403.7	337.4	66.24	6.094	
9,700.0	7,740.0	9,501.5	7,500.0	42.1	43.1	53.74	2,153.1	672.6	405.9	336.8	69.08	5.876	
9,800.0	7,740.0	9,601.5	7,500.0	43.7	44.7	53.97	2,253.0	673.7	408.2	336.2	71.94	5.673	
9,900.0	7,740.0	9,701.5	7,500.0	45.4	46.3	54.20	2,353.0	674.7	410.4	335.6	74.83	5.484	
10,000.0	7,740.0	9,801.4	7,500.0	47.1	48.0	54.43	2,452.9	675.8	412.7	334.9	77.75	5.308	
10,100.0	7,740.0	9,901.4	7,500.0	48.7	49.6	54.65	2,552.9	676.8	415.0	334.3	80.68	5.143	
10,200.0	7,740.0	10,001.3	7,500.0	50.4	51.2	54.88	2,652.9	677.9	417.2	333.6	83.64	4.989	
10,300.0	7,740.0	10,104.7	7,500.0	52.1	53.0	55.08	2,756.2	678.7	419.3	332.8	86.52	4.846	

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,740.0	10,211.1	7,500.0	53.8	54.7	55.15	2,862.6	677.8	420.0	330.8	89.22	4.708		
10,500.0	7,740.0	10,317.5	7,500.0	55.5	56.5	55.07	2,968.9	674.9	419.2	327.5	91.76	4.569		
10,600.0	7,740.0	10,423.8	7,500.0	57.1	58.2	54.84	3,075.1	670.0	416.9	322.8	94.11	4.430		
10,700.0	7,740.0	10,529.9	7,500.0	58.8	60.0	54.44	3,181.1	663.2	413.1	316.8	96.26	4.291		
10,800.0	7,740.0	10,635.9	7,500.0	60.5	61.7	53.87	3,286.6	654.4	407.8	309.6	98.18	4.154		
10,900.0	7,740.0	10,741.5	7,500.0	62.3	63.5	53.13	3,391.8	643.7	401.1	301.2	99.83	4.017		
11,000.0	7,740.0	10,846.8	7,500.0	64.0	65.2	52.18	3,496.3	631.2	392.9	291.8	101.17	3.884		
11,100.0	7,740.0	10,949.4	7,500.0	65.7	66.9	51.06	3,597.9	617.2	383.6	281.3	102.29	3.750		
11,200.0	7,740.0	11,048.7	7,500.0	67.4	68.5	49.89	3,696.2	603.4	374.2	270.8	103.40	3.619		
11,300.0	7,740.0	11,147.9	7,500.0	69.1	70.2	48.66	3,794.5	589.6	364.9	260.6	104.31	3.498		
11,400.0	7,740.0	11,247.2	7,500.0	70.8	71.8	47.37	3,892.8	575.8	355.8	250.8	104.98	3.389		
11,500.0	7,740.0	11,342.8	7,500.0	72.5	73.5	46.14	3,987.5	563.1	347.4	241.6	105.80	3.284		
11,600.0	7,740.0	11,438.2	7,500.0	74.2	75.1	45.03	4,082.3	552.0	340.3	233.6	106.69	3.190		
11,700.0	7,740.0	11,533.9	7,500.0	76.0	76.7	44.08	4,177.5	542.4	334.5	226.8	107.69	3.106		
11,800.0	7,740.0	11,629.8	7,500.0	77.7	78.3	43.29	4,273.1	534.5	330.0	221.1	108.87	3.031		
11,900.0	7,740.0	11,725.9	7,500.0	79.4	80.0	42.69	4,369.0	528.1	326.6	216.3	110.30	2.961		
12,000.0	7,740.0	11,822.2	7,500.0	81.1	81.6	42.29	4,465.2	523.3	324.5	212.4	112.02	2.896		
12,100.0	7,740.0	11,918.5	7,500.0	82.9	83.3	42.09	4,561.4	520.2	323.4	209.3	114.11	2.834		
12,141.5	7,740.0	11,958.5	7,500.0	83.6	83.9	42.07	4,601.4	519.3	323.3	208.2	115.09	2.809		
12,200.0	7,740.0	12,014.9	7,500.0	84.6	84.9	42.11	4,657.8	518.6	323.5	206.9	116.59	2.775		
12,300.0	7,740.0	12,111.2	7,500.0	86.3	86.6	42.34	4,754.1	518.7	324.7	205.2	119.51	2.717		
12,400.0	7,740.0	12,208.8	7,500.0	88.0	88.3	42.77	4,851.7	520.3	327.0	204.2	122.81	2.663		
12,500.0	7,740.0	12,308.7	7,500.0	89.8	90.0	43.24	4,951.6	522.3	329.6	203.4	126.19	2.612		
12,600.0	7,740.0	12,408.7	7,500.0	91.5	91.7	43.71	5,051.5	524.2	332.1	202.6	129.58	2.563		
12,700.0	7,740.0	12,508.6	7,500.0	93.2	93.5	44.17	5,151.4	526.2	334.7	201.7	132.99	2.517		
12,800.0	7,740.0	12,608.5	7,500.0	95.0	95.2	44.62	5,251.4	528.2	337.3	200.9	136.42	2.473		
12,900.0	7,740.0	12,708.5	7,500.0	96.7	96.9	45.07	5,351.3	530.1	339.9	200.1	139.87	2.430		
13,000.0	7,740.0	12,808.4	7,500.0	98.4	98.6	45.51	5,451.2	532.1	342.6	199.2	143.34	2.390		
13,100.0	7,740.0	12,908.3	7,500.0	100.2	100.4	45.94	5,551.1	534.1	345.2	198.4	146.81	2.352		
13,200.0	7,740.0	13,008.3	7,500.0	101.9	102.1	46.36	5,651.0	536.1	347.9	197.6	150.31	2.315		
13,300.0	7,740.0	13,108.2	7,500.0	103.6	103.9	46.78	5,750.9	538.0	350.6	196.8	153.82	2.279		
13,400.0	7,740.0	13,208.1	7,500.0	105.4	105.6	47.20	5,850.8	540.0	353.3	196.0	157.34	2.246		
13,500.0	7,740.0	13,308.1	7,500.0	107.1	107.3	47.60	5,950.7	542.0	356.1	195.2	160.87	2.213		
13,600.0	7,740.0	13,408.0	7,500.0	108.9	109.1	48.00	6,050.6	543.9	358.8	194.4	164.41	2.182		
13,700.0	7,740.0	13,507.9	7,500.0	110.6	110.8	48.40	6,150.6	545.9	361.6	193.6	167.97	2.153		
13,800.0	7,740.0	13,607.8	7,500.0	112.3	112.5	48.78	6,250.5	547.9	364.4	192.9	171.53	2.124		
13,900.0	7,740.0	13,707.8	7,500.0	114.1	114.3	49.17	6,350.4	549.9	367.2	192.1	175.11	2.097		
14,000.0	7,740.0	13,807.7	7,500.0	115.8	116.0	49.54	6,450.3	551.8	370.0	191.3	178.69	2.071		
14,100.0	7,740.0	13,907.6	7,500.0	117.6	117.8	49.91	6,550.2	553.8	372.9	190.6	182.30	2.045		
14,200.0	7,740.0	14,007.5	7,500.0	119.3	119.5	50.38	6,650.1	555.8	376.7	190.5	186.21	2.023		
14,300.0	7,740.0	14,107.3	7,500.0	121.0	121.2	50.99	6,749.8	557.7	381.9	191.4	190.53	2.004		
14,400.0	7,740.0	14,207.0	7,500.0	122.8	123.0	51.73	6,849.5	559.7	388.3	193.1	195.17	1.989		
14,500.0	7,740.0	14,306.6	7,500.0	124.5	124.7	52.47	6,949.1	561.7	394.8	195.0	199.80	1.976		
14,600.0	7,740.0	14,406.3	7,500.0	126.2	126.4	53.19	7,048.7	563.6	401.4	197.0	204.39	1.964		
14,633.9	7,740.0	14,440.1	7,500.0	126.8	127.0	53.43	7,082.5	564.3	403.7	197.7	205.94	1.960 SF		

Cathedral Energy Services

Anticollision Report

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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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.97	0.0	15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	89.97	0.0	15.1	15.1	14.8	0.30	49.767		
200.0	200.0	200.0	200.0	0.3	0.3	89.97	0.0	15.1	15.1	14.5	0.65	23.153		
300.0	300.0	300.0	300.0	0.5	0.5	89.97	0.0	15.1	15.1	14.1	1.00	15.086		
400.0	400.0	400.0	400.0	0.7	0.7	89.97	0.0	15.1	15.1	13.8	1.35	11.188 CC, ES		
500.0	500.0	499.7	499.7	0.8	0.8	90.18	-0.1	16.0	16.0	14.3	1.70	9.405		
600.0	600.0	599.4	599.4	1.0	1.0	90.70	-0.2	18.6	18.6	16.5	2.05	9.079		
700.0	700.0	699.0	698.8	1.2	1.2	-5.22	-0.5	22.9	22.1	19.7	2.39	9.213		
800.0	800.0	798.5	798.2	1.4	1.4	-5.09	-0.9	28.9	25.5	22.8	2.74	9.314		
900.0	899.9	898.0	897.3	1.6	1.6	-5.14	-1.5	36.7	29.0	25.9	3.09	9.393		
1,000.0	999.7	997.4	996.3	1.7	1.8	-5.21	-2.1	46.2	33.1	29.6	3.43	9.632		
1,100.0	1,099.6	1,096.6	1,094.9	1.9	2.1	-5.15	-2.9	57.3	38.8	35.1	3.78	10.282		
1,200.0	1,199.4	1,196.3	1,193.9	2.1	2.3	-5.04	-3.7	69.4	45.5	41.4	4.13	11.034		
1,300.0	1,299.3	1,296.1	1,292.9	2.3	2.6	-4.97	-4.5	81.6	52.2	47.8	4.48	11.668		
1,400.0	1,399.1	1,395.9	1,391.9	2.5	2.8	-4.91	-5.3	93.7	58.9	54.1	4.83	12.211		
1,500.0	1,498.9	1,495.6	1,491.0	2.7	3.1	-4.86	-6.2	105.8	65.6	60.5	5.18	12.681		
1,600.0	1,598.8	1,595.4	1,590.0	2.9	3.4	-4.82	-7.0	118.0	72.3	66.8	5.52	13.091		
1,700.0	1,698.6	1,695.2	1,689.0	3.1	3.6	-4.79	-7.8	130.1	79.0	73.1	5.87	13.453		
1,800.0	1,798.5	1,795.0	1,788.1	3.3	3.9	-4.76	-8.6	142.2	85.7	79.5	6.22	13.774		
1,900.0	1,898.3	1,894.8	1,887.1	3.5	4.2	-4.74	-9.5	154.3	92.4	85.8	6.57	14.060		
2,000.0	1,998.2	1,994.5	1,986.1	3.7	4.4	-4.72	-10.3	166.5	99.1	92.2	6.92	14.318		
2,100.0	2,098.0	2,094.3	2,085.2	3.9	4.7	-4.70	-11.1	178.6	105.8	98.5	7.27	14.552		
2,200.0	2,197.9	2,194.1	2,184.2	4.1	5.0	-4.69	-11.9	190.7	112.5	104.9	7.62	14.763		
2,300.0	2,297.7	2,293.9	2,283.2	4.3	5.2	-4.68	-12.7	202.9	119.2	111.2	7.97	14.957		
2,400.0	2,397.6	2,393.6	2,382.2	4.5	5.5	-4.66	-13.6	215.0	125.9	117.6	8.32	15.134		
2,500.0	2,497.4	2,493.4	2,481.3	4.7	5.8	-4.65	-14.4	227.1	132.6	123.9	8.67	15.297		
2,600.0	2,597.3	2,593.2	2,580.3	4.9	6.1	-4.64	-15.2	239.2	139.3	130.3	9.02	15.447		
2,700.0	2,697.1	2,693.0	2,679.3	5.1	6.3	-4.63	-16.0	251.4	146.0	136.6	9.37	15.586		
2,800.0	2,797.0	2,792.7	2,778.4	5.3	6.6	-4.63	-16.9	263.5	152.7	143.0	9.71	15.715		
2,900.0	2,896.8	2,892.5	2,877.4	5.5	6.9	-4.62	-17.7	275.6	159.4	149.3	10.06	15.835		
3,000.0	2,996.7	2,992.3	2,976.4	5.7	7.2	-4.61	-18.5	287.8	166.1	155.6	10.41	15.947		
3,100.0	3,096.5	3,092.1	3,075.5	5.9	7.4	-4.60	-19.3	299.9	172.8	162.0	10.76	16.052		
3,200.0	3,196.4	3,191.8	3,174.5	6.1	7.7	-4.60	-20.2	312.0	179.4	168.3	11.11	16.150		
3,300.0	3,296.2	3,291.6	3,273.5	6.3	8.0	-4.59	-21.0	324.2	186.1	174.7	11.46	16.242		
3,400.0	3,396.1	3,391.4	3,372.6	6.5	8.2	-4.59	-21.8	336.3	192.8	181.0	11.81	16.329		
3,500.0	3,495.9	3,491.2	3,471.6	6.7	8.5	-4.58	-22.6	348.4	199.5	187.4	12.16	16.411		
3,600.0	3,595.7	3,590.9	3,570.6	6.9	8.8	-4.58	-23.5	360.5	206.2	193.7	12.51	16.488		
3,700.0	3,695.6	3,690.7	3,669.7	7.1	9.1	-4.57	-24.3	372.7	212.9	200.1	12.86	16.561		
3,800.0	3,795.4	3,790.5	3,768.7	7.3	9.3	-4.57	-25.1	384.8	219.6	206.4	13.21	16.630		
3,900.0	3,895.3	3,890.3	3,867.7	7.4	9.6	-4.57	-25.9	396.9	226.3	212.8	13.56	16.696		
4,000.0	3,995.1	3,990.0	3,966.8	7.6	9.9	-4.56	-26.8	409.1	233.0	219.1	13.90	16.758		
4,100.0	4,095.0	4,089.8	4,065.8	7.8	10.2	-4.56	-27.6	421.2	239.7	225.5	14.25	16.817		
4,200.0	4,194.8	4,189.6	4,164.8	8.0	10.4	-4.56	-28.4	433.3	246.4	231.8	14.60	16.874		
4,300.0	4,294.7	4,289.4	4,263.9	8.2	10.7	-4.55	-29.2	445.4	253.1	238.1	14.95	16.927		
4,400.0	4,394.5	4,389.1	4,362.9	8.4	11.0	-4.55	-30.1	457.6	259.8	244.5	15.30	16.979		
4,500.0	4,494.4	4,488.9	4,461.9	8.6	11.3	-4.55	-30.9	469.7	266.5	250.8	15.65	17.028		
4,600.0	4,594.2	4,588.7	4,561.0	8.8	11.5	-4.55	-31.7	481.8	273.2	257.2	16.00	17.075		
4,700.0	4,694.1	4,688.5	4,660.0	9.0	11.8	-4.54	-32.5	494.0	279.9	263.5	16.35	17.120		
4,800.0	4,793.9	4,788.2	4,759.0	9.2	12.1	-4.54	-33.4	506.1	286.6	269.9	16.70	17.163		
4,900.0	4,893.8	4,888.0	4,858.1	9.4	12.4	-4.54	-34.2	518.2	293.3	276.2	17.05	17.204		
5,000.0	4,993.6	4,987.8	4,957.1	9.6	12.6	-4.54	-35.0	530.4	300.0	282.6	17.40	17.244		
5,100.0	5,093.5	5,087.6	5,056.1	9.8	12.9	-4.54	-35.8	542.5	306.7	288.9	17.75	17.282		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,193.3	5,187.3	5,155.1	10.0	13.2	-4.53	-36.6	554.6	313.4	295.3	18.09	17.318		
5,300.0	5,293.2	5,287.1	5,254.2	10.2	13.5	-4.53	-37.5	566.7	320.1	301.6	18.44	17.353		
5,400.0	5,393.0	5,386.9	5,353.2	10.4	13.7	-4.53	-38.3	578.9	326.8	308.0	18.79	17.387		
5,500.0	5,492.8	5,486.7	5,452.2	10.6	14.0	-4.53	-39.1	591.0	333.4	314.3	19.14	17.420		
5,600.0	5,592.7	5,586.4	5,551.3	10.8	14.3	-4.53	-39.9	603.1	340.1	320.7	19.49	17.451		
5,700.0	5,692.5	5,686.2	5,650.3	11.0	14.6	-4.53	-40.8	615.3	346.8	327.0	19.84	17.482		
5,800.0	5,792.4	5,786.0	5,749.3	11.2	14.8	-4.52	-41.6	627.4	353.5	333.3	20.19	17.511		
5,900.0	5,892.2	5,885.8	5,848.4	11.4	15.1	-4.52	-42.4	639.5	360.2	339.7	20.54	17.539		
6,000.0	5,992.1	5,985.5	5,947.4	11.6	15.4	-4.52	-43.2	651.6	366.9	346.0	20.89	17.567		
6,100.0	6,091.9	6,085.3	6,046.4	11.8	15.7	-4.52	-44.1	663.8	373.6	352.4	21.24	17.593		
6,200.0	6,191.8	6,185.1	6,145.5	12.0	15.9	-4.52	-44.9	675.9	380.3	358.7	21.59	17.619		
6,300.0	6,291.6	6,284.9	6,244.5	12.2	16.2	-4.52	-45.7	688.0	387.0	365.1	21.93	17.644		
6,400.0	6,391.5	6,384.7	6,343.5	12.4	16.5	-4.52	-46.5	700.2	393.7	371.4	22.28	17.668		
6,500.0	6,491.3	6,484.4	6,442.6	12.6	16.8	-4.52	-47.4	712.3	400.4	377.8	22.63	17.691		
6,600.0	6,591.2	6,584.2	6,541.6	12.8	17.0	-4.51	-48.2	724.4	407.1	384.1	22.98	17.714		
6,700.0	6,691.0	6,684.0	6,640.6	13.0	17.3	-4.51	-49.0	736.6	413.8	390.5	23.33	17.736		
6,800.0	6,790.9	6,783.8	6,739.7	13.2	17.6	-4.51	-49.8	748.7	420.5	396.8	23.68	17.757		
6,900.0	6,890.7	6,883.5	6,838.7	13.4	17.9	-4.51	-50.7	760.8	427.2	403.2	24.03	17.778		
7,000.0	6,990.6	6,983.3	6,937.7	13.6	18.1	-4.51	-51.5	772.9	433.9	409.5	24.38	17.798		
7,100.0	7,090.4	7,083.1	7,036.8	13.8	18.4	-4.51	-52.3	785.1	440.6	415.8	24.73	17.817		
7,200.0	7,190.3	7,182.8	7,135.8	14.0	18.7	38.17	-53.1	797.2	447.3	422.2	25.08	17.839		
7,300.0	7,289.2	7,285.2	7,237.2	14.2	19.0	78.65	-49.5	809.6	454.5	429.1	25.42	17.883		
7,400.0	7,384.4	7,390.5	7,339.4	14.4	19.2	85.36	-27.6	821.9	461.8	436.0	25.81	17.890		
7,500.0	7,473.1	7,497.7	7,437.5	14.6	19.5	88.05	13.5	833.6	468.9	442.5	26.33	17.806		
7,600.0	7,552.5	7,606.6	7,527.6	14.9	19.8	89.44	73.4	844.1	475.4	448.3	27.04	17.578		
7,700.0	7,620.2	7,716.9	7,605.9	15.3	20.2	90.18	150.4	853.0	481.1	453.1	28.01	17.178		
7,800.0	7,674.1	7,828.4	7,668.6	15.9	20.7	90.51	242.1	859.8	485.9	456.6	29.26	16.605		
7,900.0	7,712.7	7,940.4	7,712.7	16.7	21.4	90.52	344.8	864.4	489.4	458.6	30.81	15.886		
8,000.0	7,734.8	8,052.5	7,736.2	17.5	22.2	90.29	454.2	866.3	491.6	459.0	32.63	15.067		
8,100.0	7,740.0	8,159.5	7,740.0	18.6	23.0	90.00	561.0	865.8	492.6	457.8	34.75	14.174		
8,200.0	7,740.0	8,259.5	7,740.0	19.7	24.0	90.00	661.0	864.9	493.5	456.3	37.16	13.280		
8,300.0	7,740.0	8,359.5	7,740.0	20.9	25.0	90.00	761.0	864.1	494.3	454.6	39.73	12.443		
8,400.0	7,740.0	8,459.5	7,740.0	22.2	26.1	90.00	861.0	863.2	495.2	452.8	42.43	11.671		
8,500.0	7,740.0	8,559.5	7,740.0	23.5	27.2	90.00	961.0	862.3	496.1	450.8	45.24	10.965		
8,600.0	7,740.0	8,659.5	7,740.0	24.9	28.4	90.00	1,061.0	861.4	497.0	448.8	48.15	10.322		
8,700.0	7,740.0	8,759.5	7,740.0	26.4	29.7	90.00	1,161.0	860.6	497.8	446.7	51.13	9.737		
8,800.0	7,740.0	8,859.5	7,740.0	27.8	31.0	90.00	1,261.0	859.7	498.7	444.5	54.17	9.206		
8,900.0	7,740.0	8,959.5	7,740.0	29.3	32.4	90.00	1,361.0	858.8	499.6	442.3	57.27	8.723		
9,000.0	7,740.0	9,059.5	7,740.0	30.9	33.8	90.00	1,461.0	857.9	500.4	440.0	60.41	8.284		
9,100.0	7,740.0	9,159.5	7,740.0	32.4	35.2	90.00	1,561.0	857.1	501.3	437.7	63.59	7.883		
9,200.0	7,740.0	9,259.5	7,740.0	34.0	36.7	90.00	1,661.0	856.2	502.2	435.4	66.80	7.517		
9,300.0	7,740.0	9,359.5	7,740.0	35.6	38.1	90.00	1,761.0	855.3	503.1	433.0	70.05	7.182		
9,400.0	7,740.0	9,459.5	7,740.0	37.2	39.7	90.00	1,860.9	854.5	503.9	430.6	73.31	6.874		
9,500.0	7,740.0	9,559.5	7,740.0	38.8	41.2	90.00	1,960.9	853.6	504.8	428.2	76.60	6.590		
9,600.0	7,740.0	9,659.5	7,740.0	40.4	42.7	90.00	2,060.9	852.7	505.7	425.8	79.91	6.328		
9,700.0	7,740.0	9,759.5	7,740.0	42.1	44.3	90.00	2,160.9	851.8	506.6	423.3	83.23	6.086		
9,800.0	7,740.0	9,859.5	7,740.0	43.7	45.8	90.00	2,260.9	851.0	507.4	420.9	86.57	5.862		
9,900.0	7,740.0	9,959.5	7,740.0	45.4	47.4	90.00	2,360.9	850.1	508.3	418.4	89.92	5.653		
10,000.0	7,740.0	10,059.5	7,740.0	47.1	49.0	90.00	2,460.9	849.2	509.2	415.9	93.28	5.459		
10,100.0	7,740.0	10,159.4	7,740.0	48.7	50.6	90.00	2,560.9	848.3	510.0	413.4	96.65	5.277		
10,200.0	7,740.0	10,259.4	7,740.0	50.4	52.3	90.00	2,660.9	847.5	510.9	410.9	100.03	5.107		
10,300.0	7,740.0	10,359.4	7,740.0	52.1	53.9	90.00	2,760.9	846.6	511.8	408.4	103.42	4.948		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,740.0	10,459.4	7,740.0	53.8	55.5	90.00	2,860.9	845.7	512.7	405.8	106.82	4.799	
10,500.0	7,740.0	10,559.4	7,740.0	55.5	57.1	90.00	2,960.9	844.9	513.5	403.3	110.23	4.659	
10,600.0	7,740.0	10,659.4	7,740.0	57.1	58.8	90.00	3,060.9	844.0	514.4	400.8	113.64	4.527	
10,700.0	7,740.0	10,759.4	7,740.0	58.8	60.4	90.00	3,160.8	843.1	515.3	398.2	117.06	4.402	
10,800.0	7,740.0	10,859.4	7,740.0	60.5	62.1	90.00	3,260.8	842.2	516.2	395.7	120.48	4.284	
10,900.0	7,740.0	10,959.4	7,740.0	62.3	63.8	90.00	3,360.8	841.4	517.0	393.1	123.90	4.173	
11,000.0	7,740.0	11,059.4	7,740.0	64.0	65.4	90.00	3,460.8	840.5	517.9	390.6	127.34	4.067	
11,100.0	7,740.0	11,159.4	7,740.0	65.7	67.1	90.00	3,560.8	839.6	518.8	388.0	130.77	3.967	
11,200.0	7,740.0	11,259.4	7,740.0	67.4	68.8	90.00	3,660.8	838.8	519.6	385.4	134.21	3.872	
11,300.0	7,740.0	11,359.4	7,740.0	69.1	70.5	90.00	3,760.8	837.9	520.5	382.9	137.65	3.781	
11,400.0	7,740.0	11,454.3	7,740.0	70.8	72.1	90.00	3,855.7	837.3	521.7	380.5	141.20	3.695	
11,500.0	7,740.0	11,545.9	7,740.0	72.5	73.6	90.00	3,947.3	838.1	524.3	379.5	144.80	3.621	
11,600.0	7,740.0	11,642.0	7,740.0	74.2	75.3	90.00	4,043.4	840.3	528.3	380.0	148.30	3.563	
11,700.0	7,740.0	11,741.9	7,740.0	76.0	77.0	90.00	4,143.3	842.8	532.5	380.8	151.75	3.509	
11,800.0	7,740.0	11,841.8	7,740.0	77.7	78.7	90.00	4,243.1	845.2	536.7	381.5	155.21	3.458	
11,900.0	7,740.0	11,941.7	7,740.0	79.4	80.4	90.00	4,343.0	847.6	540.9	382.2	158.67	3.409	
12,000.0	7,740.0	12,041.6	7,740.0	81.1	82.1	90.00	4,442.9	850.0	545.0	382.9	162.12	3.362	
12,100.0	7,740.0	12,141.6	7,740.0	82.9	83.8	90.00	4,542.8	852.5	549.2	383.6	165.59	3.317	
12,200.0	7,740.0	12,241.5	7,740.0	84.6	85.5	90.00	4,642.7	854.9	553.4	384.3	169.05	3.274	
12,300.0	7,740.0	12,341.4	7,740.0	86.3	87.2	90.00	4,742.6	857.3	557.6	385.1	172.51	3.232	
12,400.0	7,740.0	12,441.3	7,740.0	88.0	88.9	90.00	4,842.4	859.8	561.7	385.8	175.98	3.192	
12,500.0	7,740.0	12,541.2	7,740.0	89.8	90.6	90.00	4,942.3	862.2	565.9	386.5	179.45	3.154	
12,600.0	7,740.0	12,641.1	7,740.0	91.5	92.4	90.00	5,042.2	864.6	570.1	387.2	182.92	3.117	
12,700.0	7,740.0	12,741.0	7,740.0	93.2	94.1	90.00	5,142.1	867.0	574.3	387.9	186.39	3.081	
12,800.0	7,740.0	12,841.0	7,740.0	95.0	95.8	90.00	5,242.0	869.5	578.4	388.6	189.86	3.047	
12,900.0	7,740.0	12,940.9	7,740.0	96.7	97.5	90.00	5,341.8	871.9	582.6	389.3	193.33	3.014	
13,000.0	7,740.0	13,040.8	7,740.0	98.4	99.2	90.00	5,441.7	874.3	586.8	390.0	196.81	2.982	
13,100.0	7,740.0	13,140.7	7,740.0	100.2	101.0	90.00	5,541.6	876.8	591.0	390.7	200.28	2.951	
13,200.0	7,740.0	13,240.6	7,740.0	101.9	102.7	90.00	5,641.5	879.2	595.1	391.4	203.76	2.921	
13,300.0	7,740.0	13,340.5	7,740.0	103.6	104.4	90.00	5,741.4	881.6	599.3	392.1	207.23	2.892	
13,400.0	7,740.0	13,440.4	7,740.0	105.4	106.1	90.00	5,841.3	884.1	603.5	392.8	210.71	2.864	
13,500.0	7,740.0	13,540.3	7,740.0	107.1	107.9	90.00	5,941.1	886.5	607.7	393.5	214.19	2.837	
13,600.0	7,740.0	13,640.3	7,740.0	108.9	109.6	90.00	6,041.0	888.9	611.9	394.2	217.67	2.811	
13,700.0	7,740.0	13,740.2	7,740.0	110.6	111.3	90.00	6,140.9	891.3	616.0	394.9	221.15	2.786	
13,800.0	7,740.0	13,840.1	7,740.0	112.3	113.1	90.00	6,240.8	893.8	620.2	395.6	224.63	2.761	
13,900.0	7,740.0	13,940.0	7,740.0	114.1	114.8	90.00	6,340.7	896.2	624.4	396.3	228.12	2.737	
14,000.0	7,740.0	14,039.9	7,740.0	115.8	116.5	90.00	6,440.6	898.6	628.6	397.0	231.60	2.714	
14,100.0	7,740.0	14,139.8	7,740.0	117.6	118.2	90.00	6,540.4	901.1	632.8	397.7	235.08	2.692	
14,200.0	7,740.0	14,239.7	7,740.0	119.3	120.0	90.00	6,640.3	903.5	638.2	399.6	238.57	2.675	
14,300.0	7,740.0	14,339.4	7,740.0	121.0	121.7	90.00	6,740.0	905.9	645.4	403.3	242.05	2.666	
14,400.0	7,740.0	14,439.0	7,740.0	122.8	123.4	90.00	6,839.6	908.3	654.0	408.5	245.52	2.664	
14,500.0	7,740.0	14,538.7	7,740.0	124.5	125.2	90.00	6,939.2	910.8	662.7	413.7	249.00	2.662	
14,600.0	7,740.0	14,638.3	7,740.0	126.2	126.9	90.00	7,038.8	913.2	671.5	419.0	252.48	2.660	
14,633.9	7,740.0	14,672.1	7,740.0	126.8	127.5	90.00	7,072.5	914.0	674.4	420.8	253.66	2.659 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-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	90.90	-0.4	22.7	22.7						
100.0	100.0	100.0	100.0	0.2	0.2	90.90	-0.4	22.7	22.7	22.4	0.30	74.659			
200.0	200.0	200.0	200.0	0.3	0.3	90.90	-0.4	22.7	22.7	22.0	0.65	34.734			
300.0	300.0	300.0	300.0	0.5	0.5	90.90	-0.4	22.7	22.7	21.7	1.00	22.632 CC, ES			
400.0	400.0	399.6	399.6	0.7	0.7	90.58	-0.2	23.5	23.5	22.2	1.35	17.431			
500.0	500.0	499.1	499.1	0.8	0.9	89.76	0.1	26.1	26.1	24.4	1.70	15.380			
600.0	600.0	598.6	598.4	1.0	1.0	88.71	0.7	30.4	30.4	28.4	2.05	14.876			
700.0	700.0	697.9	697.5	1.2	1.2	-8.89	1.5	36.4	35.6	33.2	2.39	14.887			
800.0	800.0	797.1	796.4	1.4	1.4	-10.42	2.5	44.0	40.8	38.1	2.74	14.907			
900.0	899.9	896.2	895.1	1.6	1.7	-12.12	3.8	53.4	46.1	43.0	3.08	14.940			
1,000.0	999.7	995.1	993.4	1.7	1.9	-13.78	5.3	64.4	52.0	48.5	3.43	15.159			
1,100.0	1,099.6	1,093.9	1,091.3	1.9	2.2	-15.08	7.0	77.1	59.6	55.8	3.77	15.800			
1,200.0	1,199.4	1,192.3	1,188.7	2.1	2.5	-16.04	8.9	91.4	69.0	64.9	4.12	16.758			
1,300.0	1,299.3	1,290.4	1,285.5	2.3	2.8	-16.70	11.1	107.3	80.1	75.6	4.46	17.959			
1,400.0	1,399.1	1,388.1	1,381.6	2.5	3.1	-17.14	13.4	124.8	92.9	88.1	4.80	19.348			
1,500.0	1,498.9	1,486.1	1,477.7	2.7	3.5	-17.43	16.0	143.8	107.2	102.1	5.14	20.841			
1,600.0	1,598.8	1,585.0	1,574.6	2.9	3.8	-17.64	18.6	163.2	121.9	116.4	5.50	22.174			
1,700.0	1,698.6	1,684.0	1,671.6	3.1	4.2	-17.81	21.3	182.7	136.5	130.7	5.85	23.346			
1,800.0	1,798.5	1,782.9	1,768.5	3.3	4.6	-17.94	23.9	202.2	151.1	144.9	6.20	24.385			
1,900.0	1,898.3	1,881.8	1,865.5	3.5	4.9	-18.05	26.5	221.7	165.8	159.2	6.55	25.312			
2,000.0	1,998.2	1,980.7	1,962.4	3.7	5.3	-18.14	29.2	241.1	180.4	173.5	6.90	26.145			
2,100.0	2,098.0	2,079.6	2,059.4	3.9	5.7	-18.22	31.8	260.6	195.1	187.8	7.25	26.896			
2,200.0	2,197.9	2,178.6	2,156.3	4.1	6.1	-18.29	34.4	280.1	209.7	202.1	7.60	27.578			
2,300.0	2,297.7	2,277.5	2,253.3	4.3	6.5	-18.35	37.1	299.6	224.4	216.4	7.96	28.199			
2,400.0	2,397.6	2,376.4	2,350.2	4.5	6.9	-18.40	39.7	319.0	239.0	230.7	8.31	28.768			
2,500.0	2,497.4	2,475.3	2,447.2	4.7	7.2	-18.45	42.3	338.5	253.7	245.0	8.66	29.290			
2,600.0	2,597.3	2,574.2	2,544.1	4.9	7.6	-18.49	45.0	358.0	268.3	259.3	9.01	29.771			
2,700.0	2,697.1	2,673.2	2,641.1	5.1	8.0	-18.52	47.6	377.5	283.0	273.6	9.36	30.216			
2,800.0	2,797.0	2,772.1	2,738.0	5.3	8.4	-18.56	50.2	396.9	297.6	287.9	9.72	30.628			
2,900.0	2,896.8	2,871.0	2,835.0	5.5	8.8	-18.59	52.9	416.4	312.3	302.2	10.07	31.012			
3,000.0	2,996.7	2,969.9	2,931.9	5.7	9.2	-18.61	55.5	435.9	326.9	316.5	10.42	31.370			
3,100.0	3,096.5	3,068.9	3,028.9	5.9	9.5	-18.64	58.1	455.4	341.5	330.8	10.77	31.704			
3,200.0	3,196.4	3,167.8	3,125.8	6.1	9.9	-18.66	60.8	474.8	356.2	345.1	11.13	32.017			
3,300.0	3,296.2	3,266.7	3,222.8	6.3	10.3	-18.68	63.4	494.3	370.8	359.4	11.48	32.310			
3,400.0	3,396.1	3,365.6	3,319.7	6.5	10.7	-18.70	66.0	513.8	385.5	373.7	11.83	32.586			
3,500.0	3,495.9	3,464.5	3,416.7	6.7	11.1	-18.72	68.7	533.3	400.1	388.0	12.18	32.847			
3,600.0	3,595.7	3,563.5	3,513.6	6.9	11.5	-18.74	71.3	552.7	414.8	402.3	12.53	33.092			
3,700.0	3,695.6	3,662.4	3,610.6	7.1	11.9	-18.75	73.9	572.2	429.4	416.5	12.89	33.324			
3,800.0	3,795.4	3,761.3	3,707.5	7.3	12.3	-18.77	76.6	591.7	444.1	430.8	13.24	33.544			
3,900.0	3,895.3	3,860.2	3,804.5	7.4	12.6	-18.78	79.2	611.2	458.7	445.1	13.59	33.752			
4,000.0	3,995.1	3,959.1	3,901.4	7.6	13.0	-18.79	81.8	630.6	473.4	459.4	13.94	33.949			
4,100.0	4,095.0	4,058.1	3,998.4	7.8	13.4	-18.80	84.5	650.1	488.0	473.7	14.30	34.137			
4,200.0	4,194.8	4,157.0	4,095.3	8.0	13.8	-18.82	87.1	669.6	502.7	488.0	14.65	34.316			
4,300.0	4,294.7	4,255.9	4,192.3	8.2	14.2	-18.83	89.7	689.1	517.3	502.3	15.00	34.487			
4,400.0	4,394.5	4,354.8	4,289.2	8.4	14.6	-18.84	92.4	708.5	532.0	516.6	15.35	34.649			
4,500.0	4,494.4	4,453.8	4,386.2	8.6	15.0	-18.85	95.0	728.0	546.6	530.9	15.71	34.804			
4,600.0	4,594.2	4,552.7	4,483.1	8.8	15.4	-18.86	97.6	747.5	561.3	545.2	16.06	34.953			
4,700.0	4,694.1	4,651.6	4,580.1	9.0	15.7	-18.86	100.3	767.0	575.9	559.5	16.41	35.095			
4,800.0	4,793.9	4,750.5	4,677.0	9.2	16.1	-18.87	102.9	786.4	590.6	573.8	16.76	35.231			
4,900.0	4,893.8	4,849.4	4,774.0	9.4	16.5	-18.88	105.5	805.9	605.2	588.1	17.11	35.361			
5,000.0	4,993.6	4,948.4	4,870.9	9.6	16.9	-18.89	108.2	825.4	619.9	602.4	17.47	35.486			
5,100.0	5,093.5	5,047.3	4,967.9	9.8	17.3	-18.89	110.8	844.9	634.5	616.7	17.82	35.607			

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-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		
5,200.0	5,193.3	5,146.2	5,064.8	10.0	17.7	-18.90	113.4	864.3	649.1	631.0	18.17	35.722		
5,300.0	5,293.2	5,245.1	5,161.8	10.2	18.1	-18.91	116.1	883.8	663.8	645.3	18.52	35.833		
5,400.0	5,393.0	5,344.0	5,258.7	10.4	18.5	-18.91	118.7	903.3	678.4	659.6	18.88	35.940		
5,500.0	5,492.8	5,443.0	5,355.7	10.6	18.9	-18.92	121.3	922.8	693.1	673.9	19.23	36.043		
5,600.0	5,592.7	5,541.9	5,452.6	10.8	19.2	-18.93	124.0	942.2	707.7	688.2	19.58	36.143		
5,700.0	5,692.5	5,640.8	5,549.6	11.0	19.6	-18.93	126.6	961.7	722.4	702.5	19.93	36.238		
5,800.0	5,792.4	5,739.7	5,646.5	11.2	20.0	-18.94	129.2	981.2	737.0	716.7	20.29	36.331		
5,900.0	5,892.2	5,838.7	5,743.5	11.4	20.4	-18.94	131.8	1,000.7	751.7	731.0	20.64	36.420		
6,000.0	5,992.1	5,937.6	5,840.4	11.6	20.8	-18.95	134.5	1,020.1	766.3	745.3	20.99	36.506		
6,100.0	6,091.9	6,036.5	5,937.4	11.8	21.2	-18.95	137.1	1,039.6	781.0	759.6	21.34	36.590		
6,200.0	6,191.8	6,135.4	6,034.3	12.0	21.6	-18.95	139.7	1,059.1	795.6	773.9	21.70	36.671		
6,300.0	6,291.6	6,234.3	6,131.3	12.2	22.0	-18.96	142.4	1,078.6	810.3	788.2	22.05	36.749		
6,400.0	6,391.5	6,333.3	6,228.2	12.4	22.4	-18.96	145.0	1,098.0	824.9	802.5	22.40	36.824		
6,500.0	6,491.3	6,432.2	6,325.2	12.6	22.8	-18.97	147.6	1,117.5	839.6	816.8	22.75	36.898		
6,600.0	6,591.2	6,531.1	6,422.1	12.8	23.1	-18.97	150.3	1,137.0	854.2	831.1	23.11	36.969		
6,700.0	6,691.0	6,630.0	6,519.1	13.0	23.5	-18.97	152.9	1,156.5	868.9	845.4	23.46	37.038		
6,800.0	6,790.9	6,728.9	6,616.0	13.2	23.9	-18.98	155.5	1,175.9	883.5	859.7	23.81	37.105		
6,900.0	6,890.7	6,827.9	6,713.0	13.4	24.3	-18.98	158.2	1,195.4	898.2	874.0	24.16	37.170		
7,000.0	6,990.6	6,926.8	6,809.9	13.6	24.7	-18.99	160.8	1,214.9	912.8	888.3	24.52	37.233		
7,100.0	7,090.4	7,025.7	6,906.9	13.8	25.1	-18.99	163.4	1,234.4	927.5	902.6	24.87	37.294		
7,200.0	7,190.3	7,110.9	6,990.3	14.0	25.4	23.35	166.9	1,251.1	942.4	917.2	25.17	37.446		
7,300.0	7,289.2	7,182.7	7,059.8	14.2	25.7	61.96	177.9	1,265.2	957.0	931.7	25.32	37.791		
7,400.0	7,384.4	7,250.0	7,123.2	14.4	26.0	67.13	196.2	1,278.1	970.5	945.1	25.41	38.198		
7,500.0	7,473.1	7,326.7	7,192.4	14.6	26.4	68.81	226.1	1,292.2	982.4	956.8	25.59	38.398		
7,600.0	7,552.5	7,400.0	7,254.2	14.9	26.8	69.66	263.2	1,304.9	992.5	966.6	25.93	38.279		
7,700.0	7,620.2	7,473.3	7,310.9	15.3	27.2	70.37	308.1	1,316.7	1,000.7	974.1	26.61	37.614		
7,800.0	7,674.1	7,550.0	7,363.7	15.9	27.6	71.20	362.6	1,327.8	1,006.9	979.2	27.71	36.331		
7,900.0	7,712.7	7,625.6	7,408.2	16.7	28.1	72.18	422.8	1,337.2	1,011.1	981.8	29.31	34.495		
8,000.0	7,734.8	7,705.0	7,446.2	17.5	28.6	73.41	492.0	1,345.5	1,013.3	982.0	31.35	32.324		
8,100.0	7,740.0	7,787.4	7,475.4	18.6	29.3	74.87	568.7	1,352.0	1,014.0	980.2	33.74	30.054		
8,200.0	7,740.0	7,875.9	7,494.3	19.7	29.9	75.99	654.9	1,356.5	1,015.2	978.9	36.28	27.984		
8,300.0	7,740.0	7,969.3	7,500.0	20.9	30.7	76.35	748.1	1,358.5	1,017.5	978.6	38.87	26.177		
8,400.0	7,740.0	8,069.3	7,500.0	22.2	31.6	76.39	848.1	1,359.4	1,020.0	978.5	41.52	24.569		
8,500.0	7,740.0	8,169.3	7,500.0	23.5	32.6	76.42	948.0	1,360.2	1,022.6	978.3	44.27	23.101		
8,600.0	7,740.0	8,269.2	7,500.0	24.9	33.6	76.46	1,048.0	1,361.1	1,025.1	978.0	47.10	21.764		
8,700.0	7,740.0	8,369.2	7,500.0	26.4	34.7	76.49	1,147.9	1,362.0	1,027.7	977.7	50.01	20.549		
8,800.0	7,740.0	8,469.2	7,500.0	27.8	35.8	76.52	1,247.9	1,362.8	1,030.2	977.2	52.98	19.444		
8,900.0	7,740.0	8,569.1	7,500.0	29.3	37.0	76.56	1,347.9	1,363.7	1,032.8	976.8	56.00	18.441		
9,000.0	7,740.0	8,669.1	7,500.0	30.9	38.2	76.59	1,447.8	1,364.6	1,035.3	976.2	59.07	17.526		
9,100.0	7,740.0	8,769.1	7,500.0	32.4	39.5	76.63	1,547.8	1,365.5	1,037.9	975.7	62.18	16.692		
9,200.0	7,740.0	8,869.0	7,500.0	34.0	40.8	76.66	1,647.7	1,366.3	1,040.4	975.1	65.31	15.929		
9,300.0	7,740.0	8,969.0	7,500.0	35.6	42.1	76.69	1,747.7	1,367.2	1,042.9	974.5	68.48	15.230		
9,400.0	7,740.0	9,069.0	7,500.0	37.2	43.5	76.72	1,847.7	1,368.1	1,045.5	973.8	71.67	14.588		
9,500.0	7,740.0	9,168.9	7,500.0	38.8	44.9	76.76	1,947.6	1,368.9	1,048.0	973.2	74.88	13.997		
9,600.0	7,740.0	9,268.9	7,500.0	40.4	46.3	76.79	2,047.6	1,369.8	1,050.6	972.5	78.11	13.451		
9,700.0	7,740.0	9,368.9	7,500.0	42.1	47.7	76.82	2,147.6	1,370.7	1,053.1	971.8	81.35	12.945		
9,800.0	7,740.0	9,468.8	7,500.0	43.7	49.2	76.86	2,247.5	1,371.6	1,055.7	971.1	84.61	12.477		
9,900.0	7,740.0	9,571.2	7,500.0	45.4	50.7	76.89	2,349.9	1,372.4	1,058.2	970.4	87.87	12.044		
10,000.0	7,740.0	9,693.2	7,500.0	47.1	52.5	76.91	2,471.8	1,371.9	1,059.5	968.6	90.93	11.651		
10,100.0	7,740.0	9,815.1	7,500.0	48.7	54.3	76.90	2,593.8	1,368.8	1,058.7	964.8	93.97	11.267		
10,200.0	7,740.0	9,937.0	7,500.0	50.4	56.1	76.85	2,715.5	1,363.1	1,055.9	958.9	96.96	10.889		
10,300.0	7,740.0	10,058.6	7,500.0	52.1	58.0	76.77	2,836.8	1,354.8	1,050.9	951.0	99.91	10.519		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,740.0	10,180.0	7,500.0	53.8	59.8	76.67	2,957.7	1,344.0	1,043.9	941.1	102.80	10.155		
10,500.0	7,740.0	10,284.5	7,500.0	55.5	61.3	76.55	3,061.7	1,333.1	1,035.5	929.5	105.97	9.772		
10,600.0	7,740.0	10,384.1	7,500.0	57.1	62.9	76.44	3,160.8	1,322.7	1,027.0	917.8	109.23	9.402		
10,700.0	7,740.0	10,483.7	7,500.0	58.8	64.4	76.32	3,259.8	1,312.3	1,018.6	906.1	112.50	9.054		
10,800.0	7,740.0	10,583.4	7,500.0	60.5	65.9	76.20	3,358.9	1,301.9	1,010.1	894.3	115.76	8.726		
10,900.0	7,740.0	10,683.0	7,500.0	62.3	67.5	76.09	3,458.0	1,291.5	1,001.6	882.6	119.03	8.415		
11,000.0	7,740.0	10,782.6	7,500.0	64.0	69.0	75.96	3,557.0	1,281.1	993.2	870.9	122.29	8.121		
11,100.0	7,740.0	10,882.2	7,500.0	65.7	70.6	75.84	3,656.1	1,270.7	984.7	859.2	125.56	7.843		
11,200.0	7,740.0	10,981.8	7,500.0	67.4	72.2	75.72	3,755.2	1,260.3	976.3	847.5	128.82	7.579		
11,300.0	7,740.0	11,081.5	7,500.0	69.1	73.8	75.59	3,854.3	1,249.8	967.8	835.7	132.08	7.328		
11,400.0	7,740.0	11,181.1	7,500.0	70.8	75.4	75.46	3,953.3	1,239.4	959.4	824.0	135.34	7.089		
11,500.0	7,740.0	11,280.7	7,500.0	72.5	77.0	75.33	4,052.4	1,229.0	950.9	812.4	138.60	6.861		
11,600.0	7,740.0	11,380.3	7,500.0	74.2	78.6	75.19	4,151.5	1,218.6	942.5	800.7	141.85	6.645		
11,700.0	7,740.0	11,479.9	7,500.0	76.0	80.2	75.06	4,250.6	1,208.2	934.1	789.0	145.10	6.438		
11,800.0	7,740.0	11,579.6	7,500.0	77.7	81.8	74.92	4,349.6	1,197.8	925.7	777.3	148.34	6.240		
11,900.0	7,740.0	11,679.2	7,500.0	79.4	83.4	74.78	4,448.7	1,187.4	917.3	765.7	151.58	6.051		
12,000.0	7,740.0	11,778.8	7,500.0	81.1	85.1	74.63	4,547.8	1,176.9	908.8	754.0	154.82	5.870		
12,100.0	7,740.0	11,869.1	7,500.0	82.9	86.5	74.51	4,637.6	1,167.8	900.8	742.5	158.31	5.690		
12,200.0	7,740.0	11,955.8	7,500.0	84.6	88.0	74.40	4,724.0	1,160.4	894.2	732.3	161.89	5.523		
12,300.0	7,740.0	12,042.6	7,500.0	86.3	89.4	74.32	4,810.6	1,154.2	889.0	723.5	165.46	5.373		
12,400.0	7,740.0	12,129.6	7,500.0	88.0	90.9	74.26	4,897.4	1,149.3	885.3	716.2	169.02	5.238		
12,500.0	7,740.0	12,216.6	7,500.0	89.8	92.3	74.23	4,984.4	1,145.7	883.0	710.4	172.56	5.117		
12,600.0	7,740.0	12,300.0	7,500.0	91.5	93.8	74.21	5,067.7	1,143.5	882.2	706.1	176.14	5.009		
12,604.6	7,740.0	12,307.7	7,500.0	91.6	93.9	74.21	5,075.5	1,143.4	882.2	706.0	176.25	5.006		
12,700.0	7,740.0	12,390.8	7,500.0	93.2	95.3	74.22	5,158.6	1,142.6	882.9	703.3	179.60	4.916		
12,800.0	7,740.0	12,477.9	7,500.0	95.0	96.8	74.26	5,245.6	1,143.0	885.0	701.9	183.09	4.834		
12,900.0	7,740.0	12,564.8	7,500.0	96.7	98.3	74.32	5,332.6	1,144.7	888.6	702.0	186.57	4.763		
13,000.0	7,740.0	12,651.7	7,500.0	98.4	99.8	74.39	5,419.4	1,147.7	893.6	703.6	190.04	4.702		
13,100.0	7,740.0	12,738.4	7,500.0	100.2	101.3	74.49	5,505.9	1,152.1	900.1	706.7	193.48	4.652		
13,200.0	7,740.0	12,826.8	7,500.0	101.9	102.8	74.62	5,594.2	1,157.8	908.1	711.2	196.91	4.612		
13,300.0	7,740.0	12,926.4	7,500.0	103.6	104.5	74.76	5,693.6	1,164.9	916.6	716.2	200.39	4.574		
13,400.0	7,740.0	13,026.1	7,500.0	105.4	106.2	74.91	5,792.9	1,171.9	925.1	721.2	203.87	4.537		
13,500.0	7,740.0	13,125.7	7,500.0	107.1	108.0	75.05	5,892.3	1,178.9	933.6	726.2	207.36	4.502		
13,600.0	7,740.0	13,225.3	7,500.0	108.9	109.7	75.19	5,991.7	1,185.9	942.1	731.2	210.84	4.468		
13,700.0	7,740.0	13,324.9	7,500.0	110.6	111.4	75.32	6,091.0	1,193.0	950.6	736.2	214.33	4.435		
13,800.0	7,740.0	13,424.5	7,500.0	112.3	113.1	75.45	6,190.4	1,200.0	959.1	741.3	217.82	4.403		
13,900.0	7,740.0	13,524.1	7,500.0	114.1	114.9	75.58	6,289.7	1,207.0	967.6	746.3	221.31	4.372		
14,000.0	7,740.0	13,623.7	7,500.0	115.8	116.6	75.71	6,389.1	1,214.1	976.1	751.3	224.80	4.342		
14,100.0	7,740.0	13,723.3	7,500.0	117.6	118.3	75.84	6,488.5	1,221.1	984.7	756.4	228.30	4.313		
14,200.0	7,740.0	13,822.8	7,500.0	119.3	120.1	75.95	6,587.7	1,228.1	994.4	762.6	231.81	4.290		
14,300.0	7,740.0	13,922.1	7,500.0	121.0	121.8	76.09	6,686.8	1,235.1	1,005.9	770.5	235.33	4.274		
14,400.0	7,740.0	14,021.3	7,500.0	122.8	123.5	76.26	6,785.6	1,242.1	1,018.7	779.8	238.87	4.265		
14,500.0	7,740.0	14,120.4	7,500.0	124.5	125.2	76.43	6,884.5	1,249.1	1,031.7	789.3	242.40	4.256		
14,600.0	7,740.0	14,219.5	7,500.0	126.2	127.0	76.60	6,983.4	1,256.1	1,044.6	798.7	245.94	4.248		
14,633.9	7,740.0	14,253.1	7,500.0	126.8	127.5	76.66	7,016.9	1,258.4	1,049.0	801.9	247.14	4.245 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-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	90.69	-0.4	29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	90.69	-0.4	29.9	29.9	29.6	0.30	98.619	
200.0	200.0	200.0	200.0	0.3	0.3	90.69	-0.4	29.9	29.9	29.3	0.65	45.881	
203.3	203.3	203.3	203.3	0.3	0.3	90.69	-0.4	29.9	29.9	29.3	0.66	45.077 CC	
300.0	300.0	299.7	299.7	0.5	0.5	90.76	-0.4	30.2	30.2	29.2	1.00	30.123 ES	
400.0	400.0	399.2	399.2	0.7	0.7	91.25	-0.7	31.9	31.9	30.5	1.35	23.626	
500.0	500.0	498.6	498.5	0.8	0.9	92.11	-1.3	35.3	35.3	33.6	1.70	20.811	
600.0	600.0	597.8	597.6	1.0	1.0	93.11	-2.2	40.3	40.5	38.4	2.04	19.803	
700.0	700.0	696.8	696.4	1.2	1.2	-2.26	-3.4	47.1	46.5	44.1	2.39	19.453	
800.0	800.0	795.8	795.0	1.4	1.5	-1.40	-4.9	55.5	52.5	49.8	2.74	19.191	
900.0	899.9	894.7	893.3	1.6	1.7	-0.61	-6.7	65.6	58.5	55.4	3.08	18.988 SF	
1,000.0	999.7	993.4	991.3	1.7	2.0	0.12	-8.7	77.4	65.1	61.6	3.42	19.004	
1,100.0	1,099.6	1,091.9	1,088.8	1.9	2.2	0.79	-11.1	90.7	73.3	69.6	3.77	19.474	
1,200.0	1,199.4	1,190.0	1,185.8	2.1	2.5	1.37	-13.7	105.7	83.3	79.2	4.11	20.292	
1,300.0	1,299.3	1,287.8	1,282.1	2.3	2.9	1.86	-16.6	122.3	95.0	90.6	4.45	21.376	
1,400.0	1,399.1	1,385.2	1,377.8	2.5	3.2	2.26	-19.8	140.3	108.4	103.6	4.78	22.669	
1,500.0	1,498.9	1,482.1	1,472.6	2.7	3.6	2.59	-23.3	159.9	123.5	118.4	5.12	24.130	
1,600.0	1,598.8	1,578.4	1,566.6	2.9	4.0	2.85	-27.0	180.9	140.3	134.8	5.45	25.728	
1,700.0	1,698.6	1,674.2	1,659.6	3.1	4.4	3.07	-30.9	203.4	158.7	152.9	5.78	27.438	
1,800.0	1,798.5	1,770.1	1,752.3	3.3	4.9	3.23	-35.1	227.3	178.7	172.5	6.11	29.219	
1,900.0	1,898.3	1,868.2	1,847.1	3.5	5.3	3.03	-38.4	252.5	199.1	192.6	6.46	30.816	
2,000.0	1,998.2	1,966.3	1,941.8	3.7	5.8	2.42	-39.9	277.7	219.4	212.6	6.81	32.238	
2,100.0	2,098.0	2,067.8	2,040.0	3.9	6.3	1.64	-40.4	303.4	239.1	232.0	7.17	33.352	
2,200.0	2,197.9	2,169.6	2,139.0	4.1	6.7	1.02	-40.8	327.4	257.2	249.6	7.53	34.141	
2,300.0	2,297.7	2,268.0	2,234.8	4.3	7.1	0.51	-41.3	350.0	274.7	266.8	7.88	34.862	
2,400.0	2,397.6	2,366.5	2,330.6	4.5	7.6	0.07	-41.7	372.7	292.2	283.9	8.22	35.525	
2,500.0	2,497.4	2,464.9	2,426.4	4.7	8.0	-0.33	-42.1	395.4	309.7	301.1	8.57	36.136	
2,600.0	2,597.3	2,563.3	2,522.2	4.9	8.4	-0.69	-42.5	418.0	327.2	318.3	8.92	36.701	
2,700.0	2,697.1	2,661.8	2,617.9	5.1	8.9	-1.00	-42.9	440.7	344.8	335.5	9.26	37.225	
2,800.0	2,797.0	2,760.2	2,713.7	5.3	9.3	-1.29	-43.3	463.3	362.3	352.7	9.61	37.711	
2,900.0	2,896.8	2,858.6	2,809.5	5.5	9.7	-1.55	-43.7	486.0	379.9	370.0	9.95	38.165	
3,000.0	2,996.7	2,957.0	2,905.3	5.7	10.2	-1.79	-44.1	508.7	397.5	387.2	10.30	38.589	
3,100.0	3,096.5	3,055.5	3,001.1	5.9	10.6	-2.01	-44.5	531.3	415.1	404.4	10.65	38.985	
3,200.0	3,196.4	3,153.9	3,096.9	6.1	11.0	-2.21	-44.9	554.0	432.6	421.7	10.99	39.358	
3,300.0	3,296.2	3,252.3	3,192.7	6.3	11.5	-2.39	-45.4	576.6	450.2	438.9	11.34	39.707	
3,400.0	3,396.1	3,350.8	3,288.5	6.5	11.9	-2.56	-45.8	599.3	467.8	456.1	11.69	40.037	
3,500.0	3,495.9	3,449.2	3,384.2	6.7	12.4	-2.72	-46.2	621.9	485.4	473.4	12.03	40.347	
3,600.0	3,595.7	3,547.6	3,480.0	6.9	12.8	-2.87	-46.6	644.6	503.0	490.7	12.38	40.641	
3,700.0	3,695.6	3,646.1	3,575.8	7.1	13.2	-3.00	-47.0	667.3	520.6	507.9	12.72	40.918	
3,800.0	3,795.4	3,744.5	3,671.6	7.3	13.7	-3.13	-47.4	689.9	538.2	525.2	13.07	41.182	
3,900.0	3,895.3	3,842.9	3,767.4	7.4	14.1	-3.25	-47.8	712.6	555.9	542.4	13.42	41.431	
4,000.0	3,995.1	3,941.4	3,863.2	7.6	14.5	-3.36	-48.2	735.2	573.5	559.7	13.76	41.669	
4,100.0	4,095.0	4,039.8	3,959.0	7.8	15.0	-3.47	-48.6	757.9	591.1	577.0	14.11	41.894	
4,200.0	4,194.8	4,138.2	4,054.7	8.0	15.4	-3.57	-49.0	780.6	608.7	594.2	14.46	42.109	
4,300.0	4,294.7	4,236.6	4,150.5	8.2	15.9	-3.66	-49.5	803.2	626.3	611.5	14.80	42.314	
4,400.0	4,394.5	4,335.1	4,246.3	8.4	16.3	-3.75	-49.9	825.9	643.9	628.8	15.15	42.510	
4,500.0	4,494.4	4,433.5	4,342.1	8.6	16.7	-3.84	-50.3	848.5	661.6	646.1	15.49	42.697	
4,600.0	4,594.2	4,531.9	4,437.9	8.8	17.2	-3.92	-50.7	871.2	679.2	663.3	15.84	42.876	
4,700.0	4,694.1	4,630.4	4,533.7	9.0	17.6	-3.99	-51.1	893.8	696.8	680.6	16.19	43.048	
4,800.0	4,793.9	4,728.8	4,629.5	9.2	18.1	-4.06	-51.5	916.5	714.4	697.9	16.53	43.212	
4,900.0	4,893.8	4,827.2	4,725.3	9.4	18.5	-4.13	-51.9	939.2	732.0	715.2	16.88	43.369	
5,000.0	4,993.6	4,925.7	4,821.0	9.6	18.9	-4.20	-52.3	961.8	749.7	732.5	17.23	43.521	

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-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	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)				
5,100.0	5,093.5	5,024.1	4,916.8	9.8	19.4	-4.26	-52.7	984.5	767.3	749.7	17.57	43.666		
5,200.0	5,193.3	5,122.5	5,012.6	10.0	19.8	-4.32	-53.1	1,007.1	784.9	767.0	17.92	43.806		
5,300.0	5,293.2	5,221.0	5,108.4	10.2	20.3	-4.38	-53.5	1,029.8	802.6	784.3	18.26	43.940		
5,400.0	5,393.0	5,319.4	5,204.2	10.4	20.7	-4.43	-54.0	1,052.5	820.2	801.6	18.61	44.070		
5,500.0	5,492.8	5,417.8	5,300.0	10.6	21.1	-4.48	-54.4	1,075.1	837.8	818.9	18.96	44.195		
5,600.0	5,592.7	5,516.2	5,395.8	10.8	21.6	-4.53	-54.8	1,097.8	855.5	836.1	19.30	44.315		
5,700.0	5,692.5	5,614.7	5,491.5	11.0	22.0	-4.58	-55.2	1,120.4	873.1	853.4	19.65	44.431		
5,800.0	5,792.4	5,713.1	5,587.3	11.2	22.5	-4.63	-55.6	1,143.1	890.7	870.7	20.00	44.543		
5,900.0	5,892.2	5,811.5	5,683.1	11.4	22.9	-4.67	-56.0	1,165.7	908.3	888.0	20.34	44.652		
6,000.0	5,992.1	5,910.0	5,778.9	11.6	23.3	-4.72	-56.4	1,188.4	926.0	905.3	20.69	44.756		
6,100.0	6,091.9	6,008.4	5,874.7	11.8	23.8	-4.76	-56.8	1,211.1	943.6	922.6	21.04	44.858		
6,200.0	6,191.8	6,106.8	5,970.5	12.0	24.2	-4.80	-57.2	1,233.7	961.2	939.9	21.38	44.956		
6,300.0	6,291.6	6,205.3	6,066.3	12.2	24.7	-4.83	-57.6	1,256.4	978.9	957.2	21.73	45.051		
6,400.0	6,391.5	6,303.7	6,162.0	12.4	25.1	-4.87	-58.1	1,279.0	996.5	974.4	22.07	45.143		
6,500.0	6,491.3	6,402.1	6,257.8	12.6	25.5	-4.91	-58.5	1,301.7	1,014.2	991.7	22.42	45.232		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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)				
0.0	0.0	0.0	0.0	0.0	0.0	90.54	-0.4	37.5	37.5					
100.0	100.0	100.0	100.0	0.2	0.2	90.54	-0.4	37.5	37.5	37.2	0.30	123.500		
200.0	200.0	200.0	200.0	0.3	0.3	90.54	-0.4	37.5	37.5	36.9	0.65	57.457 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	90.57	-0.4	38.4	38.4	37.4	1.00	38.350		
400.0	400.0	398.6	398.6	0.7	0.7	90.65	-0.5	40.9	41.0	39.6	1.35	30.393		
500.0	500.0	497.8	497.6	0.8	0.9	90.75	-0.6	45.2	45.3	43.6	1.69	26.728		
600.0	600.0	596.8	596.4	1.0	1.1	90.87	-0.8	51.2	51.4	49.3	2.04	25.163		
700.0	700.0	695.6	695.0	1.2	1.3	-5.41	-1.0	58.9	58.3	55.9	2.39	24.419		
800.0	800.0	794.3	793.2	1.4	1.5	-5.49	-1.3	68.3	65.2	62.4	2.73	23.864		
900.0	899.9	892.9	891.2	1.6	1.8	-5.67	-1.7	79.3	72.1	69.0	3.07	23.432		
1,000.0	999.7	991.3	988.8	1.7	2.0	-5.87	-2.0	92.0	79.5	76.1	3.42	23.265 SF		
1,100.0	1,099.6	1,089.4	1,085.9	1.9	2.3	-6.02	-2.5	106.4	88.7	84.9	3.76	23.584		
1,200.0	1,199.4	1,187.2	1,182.3	2.1	2.6	-6.11	-3.0	122.3	99.5	95.4	4.10	24.274		
1,300.0	1,299.3	1,284.6	1,278.2	2.3	3.0	-6.15	-3.5	139.8	112.1	107.6	4.44	25.248		
1,400.0	1,399.1	1,381.6	1,373.2	2.5	3.3	-6.17	-4.1	158.9	126.3	121.5	4.78	26.447		
1,500.0	1,498.9	1,478.1	1,467.5	2.7	3.7	-6.16	-4.8	179.4	142.2	137.1	5.11	27.825		
1,600.0	1,598.8	1,574.0	1,560.9	2.9	4.1	-6.14	-5.4	201.4	159.8	154.3	5.44	29.350		
1,700.0	1,698.6	1,669.3	1,653.3	3.1	4.6	-6.11	-6.2	224.8	179.0	173.2	5.77	30.996		
1,800.0	1,798.5	1,764.0	1,744.7	3.3	5.0	-6.07	-6.9	249.5	199.8	193.7	6.10	32.745		
1,900.0	1,898.3	1,858.0	1,835.0	3.5	5.5	-6.03	-7.7	275.6	222.2	215.8	6.43	34.580		
2,000.0	1,998.2	1,951.3	1,924.1	3.7	6.0	-5.98	-8.6	302.9	246.2	239.5	6.75	36.490		
2,100.0	2,098.0	2,043.8	2,012.1	3.9	6.6	-5.94	-9.5	331.5	271.8	264.7	7.07	38.465		
2,200.0	2,197.9	2,139.6	2,103.0	4.1	7.1	-5.89	-10.4	361.9	298.3	290.9	7.40	40.289		
2,300.0	2,297.7	2,236.0	2,194.4	4.3	7.7	-5.86	-11.4	392.6	324.9	317.1	7.75	41.937		
2,400.0	2,397.6	2,332.4	2,285.8	4.5	8.3	-5.83	-12.3	423.3	351.5	343.4	8.09	43.446		
2,500.0	2,497.4	2,428.8	2,377.2	4.7	8.8	-5.80	-13.3	453.9	378.0	369.6	8.43	44.833		
2,600.0	2,597.3	2,525.2	2,468.5	4.9	9.4	-5.78	-14.2	484.6	404.6	395.8	8.77	46.112		
2,700.0	2,697.1	2,621.6	2,559.9	5.1	10.0	-5.76	-15.2	515.3	431.1	422.0	9.12	47.295		
2,800.0	2,797.0	2,718.0	2,651.3	5.3	10.6	-5.74	-16.1	545.9	457.7	448.2	9.46	48.394		
2,900.0	2,896.8	2,814.5	2,742.7	5.5	11.1	-5.73	-17.1	576.6	484.3	474.5	9.80	49.415		
3,000.0	2,996.7	2,910.9	2,834.1	5.7	11.7	-5.71	-18.0	607.3	510.8	500.7	10.14	50.368		
3,100.0	3,096.5	3,007.3	2,925.5	5.9	12.3	-5.70	-19.0	637.9	537.4	526.9	10.48	51.260		
3,200.0	3,196.4	3,103.7	3,016.9	6.1	12.9	-5.69	-19.9	668.6	563.9	553.1	10.83	52.095		
3,300.0	3,296.2	3,200.1	3,108.3	6.3	13.5	-5.68	-20.9	699.3	590.5	579.3	11.17	52.879		
3,400.0	3,396.1	3,296.5	3,199.7	6.5	14.0	-5.67	-21.8	729.9	617.1	605.6	11.51	53.616		
3,500.0	3,495.9	3,392.9	3,291.1	6.7	14.6	-5.66	-22.8	760.6	643.6	631.8	11.85	54.312		
3,600.0	3,595.7	3,489.3	3,382.5	6.9	15.2	-5.65	-23.7	791.3	670.2	658.0	12.19	54.968		
3,700.0	3,695.6	3,585.7	3,473.9	7.1	15.8	-5.64	-24.7	821.9	696.8	684.2	12.53	55.589		
3,800.0	3,795.4	3,682.1	3,565.3	7.3	16.4	-5.64	-25.7	852.6	723.3	710.4	12.88	56.177		
3,900.0	3,895.3	3,778.5	3,656.7	7.4	17.0	-5.63	-26.6	883.3	749.9	736.7	13.22	56.734		
4,000.0	3,995.1	3,874.9	3,748.1	7.6	17.5	-5.62	-27.6	913.9	776.4	762.9	13.56	57.264		
4,100.0	4,095.0	3,971.4	3,839.5	7.8	18.1	-5.62	-28.5	944.6	803.0	789.1	13.90	57.767		
4,200.0	4,194.8	4,067.8	3,930.9	8.0	18.7	-5.61	-29.5	975.3	829.6	815.3	14.24	58.247		
4,300.0	4,294.7	4,164.2	4,022.3	8.2	19.3	-5.61	-30.4	1,005.9	856.1	841.5	14.58	58.704		
4,400.0	4,394.5	4,260.6	4,113.7	8.4	19.9	-5.60	-31.4	1,036.6	882.7	867.8	14.93	59.140		
4,500.0	4,494.4	4,357.0	4,205.1	8.6	20.5	-5.60	-32.3	1,067.3	909.2	894.0	15.27	59.557		
4,600.0	4,594.2	4,453.4	4,296.5	8.8	21.0	-5.60	-33.3	1,097.9	935.8	920.2	15.61	59.955		
4,700.0	4,694.1	4,549.8	4,387.9	9.0	21.6	-5.59	-34.2	1,128.6	962.4	946.4	15.95	60.337		
4,800.0	4,793.9	4,646.2	4,479.3	9.2	22.2	-5.59	-35.2	1,159.3	988.9	972.6	16.29	60.702		
4,900.0	4,893.8	4,742.6	4,570.7	9.4	22.8	-5.58	-36.1	1,189.9	1,015.5	998.9	16.63	61.053		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.4	-515.5	515.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.4	-515.5	515.5	515.2	0.30	1,697.594		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.4	-515.5	515.5	514.9	0.65	789.790 CC		
200.4	200.4	200.4	200.4	0.3	0.3	-89.96	0.4	-515.5	515.5	514.9	0.65	788.191		
300.0	300.0	300.0	300.0	0.5	0.5	-89.86	1.3	-515.5	515.5	514.5	1.00	514.143		
400.0	400.0	399.9	399.9	0.7	0.7	-89.57	3.9	-515.5	515.6	514.2	1.36	379.958		
500.0	500.0	499.7	499.6	0.8	0.9	-89.09	8.2	-515.5	515.6	513.9	1.72	299.977		
600.0	600.0	599.3	599.0	1.0	1.1	-88.41	14.3	-515.5	515.7	513.6	2.09	246.537 ES		
700.0	700.0	698.9	698.3	1.2	1.3	176.09	21.7	-515.5	516.9	514.4	2.47	209.038		
800.0	800.0	798.6	797.7	1.4	1.5	176.93	29.2	-515.5	519.9	517.0	2.86	181.986		
900.0	899.9	898.2	897.0	1.6	1.7	177.78	36.7	-515.5	524.7	521.5	3.24	161.832		
1,000.0	999.7	997.7	996.3	1.7	1.9	178.61	44.2	-515.5	530.8	527.2	3.63	146.267		
1,100.0	1,099.6	1,097.2	1,095.5	1.9	2.1	179.42	51.8	-515.5	537.0	533.0	4.02	133.711		
1,200.0	1,199.4	1,196.7	1,194.7	2.1	2.3	-179.78	59.3	-515.5	543.3	538.9	4.40	123.376		
1,300.0	1,299.3	1,296.3	1,294.0	2.3	2.6	-179.00	66.8	-515.5	549.8	545.0	4.79	114.730		
1,400.0	1,399.1	1,395.8	1,393.2	2.5	2.8	-178.25	74.3	-515.5	556.3	551.1	5.18	107.397		
1,500.0	1,498.9	1,495.3	1,492.4	2.7	3.0	-177.50	81.8	-515.5	562.9	557.4	5.57	101.103		
1,600.0	1,598.8	1,594.8	1,591.7	2.9	3.2	-176.78	89.3	-515.5	569.7	563.7	5.96	95.646		
1,700.0	1,698.6	1,694.3	1,690.9	3.1	3.4	-176.07	96.8	-515.5	576.5	570.1	6.34	90.872		
1,800.0	1,798.5	1,793.8	1,790.1	3.3	3.6	-175.38	104.3	-515.5	583.4	576.6	6.73	86.662		
1,900.0	1,898.3	1,893.4	1,889.4	3.5	3.8	-174.71	111.8	-515.5	590.3	583.2	7.12	82.925		
2,000.0	1,998.2	1,992.9	1,988.6	3.7	4.1	-174.05	119.3	-515.5	597.4	589.9	7.51	79.586		
2,100.0	2,098.0	2,092.4	2,087.8	3.9	4.3	-173.41	126.8	-515.5	604.5	596.6	7.89	76.587		
2,200.0	2,197.9	2,191.9	2,187.1	4.1	4.5	-172.78	134.3	-515.5	611.7	603.4	8.28	73.879		
2,300.0	2,297.7	2,291.4	2,286.3	4.3	4.7	-172.17	141.8	-515.5	619.0	610.3	8.67	71.422		
2,400.0	2,397.6	2,390.9	2,385.5	4.5	4.9	-171.57	149.3	-515.5	626.4	617.3	9.05	69.185		
2,500.0	2,497.4	2,490.5	2,484.8	4.7	5.1	-170.98	156.9	-515.5	633.8	624.3	9.44	67.140		
2,600.0	2,597.3	2,590.0	2,584.0	4.9	5.4	-170.41	164.4	-515.5	641.2	631.4	9.83	65.263		
2,700.0	2,697.1	2,689.5	2,683.2	5.1	5.6	-169.85	171.9	-515.5	648.8	638.6	10.21	63.536		
2,800.0	2,797.0	2,789.0	2,782.5	5.3	5.8	-169.31	179.4	-515.5	656.4	645.8	10.60	61.942		
2,900.0	2,896.8	2,888.5	2,881.7	5.5	6.0	-168.77	186.9	-515.5	664.0	653.1	10.98	60.466		
3,000.0	2,996.7	2,988.0	2,980.9	5.7	6.2	-168.25	194.4	-515.5	671.8	660.4	11.37	59.096		
3,100.0	3,096.5	3,087.6	3,080.2	5.9	6.5	-167.74	201.9	-515.5	679.5	667.8	11.75	57.821		
3,200.0	3,196.4	3,187.1	3,179.4	6.1	6.7	-167.24	209.4	-515.5	687.4	675.2	12.14	56.632		
3,300.0	3,296.2	3,286.6	3,278.6	6.3	6.9	-166.76	216.9	-515.5	695.2	682.7	12.52	55.522		
3,400.0	3,396.1	3,386.1	3,377.9	6.5	7.1	-166.28	224.4	-515.5	703.2	690.2	12.91	54.482		
3,500.0	3,495.9	3,485.6	3,477.1	6.7	7.3	-165.82	231.9	-515.5	711.1	697.8	13.29	53.507		
3,600.0	3,595.7	3,585.1	3,576.3	6.9	7.5	-165.36	239.4	-515.5	719.1	705.5	13.67	52.590		
3,700.0	3,695.6	3,684.7	3,675.6	7.1	7.8	-164.92	246.9	-515.5	727.2	713.1	14.06	51.728		
3,800.0	3,795.4	3,784.2	3,774.8	7.3	8.0	-164.48	254.4	-515.5	735.3	720.9	14.44	50.914		
3,900.0	3,895.3	3,883.7	3,874.0	7.4	8.2	-164.06	262.0	-515.5	743.4	728.6	14.83	50.147		
4,000.0	3,995.1	3,983.2	3,973.3	7.6	8.4	-163.64	269.5	-515.5	751.6	736.4	15.21	49.421		
4,100.0	4,095.0	4,082.7	4,072.5	7.8	8.6	-163.23	277.0	-515.5	759.8	744.3	15.59	48.733		
4,200.0	4,194.8	4,182.3	4,171.7	8.0	8.8	-162.83	284.5	-515.5	768.1	752.1	15.97	48.082		
4,300.0	4,294.7	4,281.8	4,271.0	8.2	9.1	-162.44	292.0	-515.5	776.4	760.0	16.36	47.464		
4,400.0	4,394.5	4,381.3	4,370.2	8.4	9.3	-162.06	299.5	-515.5	784.7	768.0	16.74	46.876		
4,500.0	4,494.4	4,480.8	4,469.4	8.6	9.5	-161.69	307.0	-515.5	793.1	776.0	17.12	46.317		
4,600.0	4,594.2	4,580.3	4,568.7	8.8	9.7	-161.32	314.5	-515.5	801.5	784.0	17.51	45.785		
4,700.0	4,694.1	4,679.8	4,667.9	9.0	9.9	-160.96	322.0	-515.5	809.9	792.0	17.89	45.278		
4,800.0	4,793.9	4,779.4	4,767.1	9.2	10.1	-160.61	329.5	-515.5	818.4	800.1	18.27	44.794		
4,900.0	4,893.8	4,878.9	4,866.4	9.4	10.4	-160.27	337.0	-515.5	826.9	808.2	18.65	44.331		
5,000.0	4,993.6	4,978.4	4,965.6	9.6	10.6	-159.93	344.5	-515.5	835.4	816.4	19.03	43.889		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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	
5,100.0	5,093.5	5,077.9	5,064.8	9.8	10.8	-159.60	352.0	-515.5	843.9	824.5	19.42	43.466	
5,200.0	5,193.3	5,177.4	5,164.1	10.0	11.0	-159.28	359.5	-515.5	852.5	832.7	19.80	43.061	
5,300.0	5,293.2	5,276.9	5,263.3	10.2	11.2	-158.96	367.1	-515.5	861.1	840.9	20.18	42.673	
5,400.0	5,393.0	5,376.5	5,362.5	10.4	11.4	-158.65	374.6	-515.5	869.7	849.2	20.56	42.301	
5,500.0	5,492.8	5,476.0	5,461.8	10.6	11.7	-158.35	382.1	-515.5	878.4	857.5	20.94	41.944	
5,600.0	5,592.7	5,575.5	5,561.0	10.8	11.9	-158.05	389.6	-515.5	887.1	865.7	21.32	41.600	
5,700.0	5,692.5	5,675.0	5,660.2	11.0	12.1	-157.75	397.1	-515.5	895.8	874.1	21.70	41.271	
5,800.0	5,792.4	5,774.5	5,759.5	11.2	12.3	-157.47	404.6	-515.5	904.5	882.4	22.09	40.953	
5,900.0	5,892.2	5,874.0	5,858.7	11.4	12.5	-157.19	412.1	-515.5	913.2	890.8	22.47	40.648	
6,000.0	5,992.1	5,973.6	5,957.9	11.6	12.8	-156.91	419.6	-515.5	922.0	899.2	22.85	40.354	
6,100.0	6,091.9	6,073.1	6,057.2	11.8	13.0	-156.64	427.1	-515.5	930.8	907.6	23.23	40.071	
6,200.0	6,191.8	6,172.6	6,156.4	12.0	13.2	-156.37	434.6	-515.5	939.6	916.0	23.61	39.797	
6,300.0	6,291.6	6,272.1	6,255.6	12.2	13.4	-156.11	442.1	-515.5	948.4	924.4	23.99	39.534	
6,400.0	6,391.5	6,371.6	6,354.9	12.4	13.6	-155.85	449.6	-515.5	957.3	932.9	24.37	39.279	
6,500.0	6,491.3	6,471.1	6,454.1	12.6	13.8	-155.60	457.1	-515.5	966.1	941.4	24.75	39.034	
6,600.0	6,591.2	6,570.7	6,553.3	12.8	14.1	-155.35	464.6	-515.5	975.0	949.9	25.13	38.796	
6,700.0	6,691.0	6,670.2	6,652.6	13.0	14.3	-155.11	472.2	-515.5	983.9	958.4	25.51	38.567	
6,800.0	6,790.9	6,769.7	6,751.8	13.2	14.5	-154.87	479.7	-515.5	992.8	966.9	25.89	38.345	
6,900.0	6,890.7	6,869.2	6,851.0	13.4	14.7	-154.64	487.2	-515.5	1,001.8	975.5	26.27	38.130	
7,000.0	6,990.6	6,968.7	6,950.3	13.6	14.9	-154.41	494.7	-515.5	1,010.7	984.1	26.65	37.922	
7,100.0	7,090.4	7,068.2	7,049.5	13.8	15.1	-154.18	502.2	-515.5	1,019.7	992.7	27.03	37.720	
7,200.0	7,190.3	7,165.4	7,146.6	14.0	15.3	-153.95	509.7	-515.5	1,028.7	996.7	27.41	37.518	
7,300.0	7,289.2	7,194.8	7,174.6	14.2	15.5	-153.72	517.2	-515.5	1,037.7	1,000.0	27.79	37.316	
7,400.0	7,384.4	7,314.0	7,174.4	14.4	15.7	-153.49	524.7	-515.5	1,046.7	1,008.0	28.17	37.114	
7,500.0	7,473.1	7,383.2	7,170.4	14.6	15.9	-153.26	532.2	-515.5	1,055.7	1,016.0	28.55	36.912	
7,600.0	7,552.5	7,443.6	7,168.9	14.9	16.1	-153.03	539.7	-515.5	1,064.7	1,024.0	28.93	36.710	
7,700.0	7,620.2	7,500.1	7,167.0	15.3	16.4	-152.35	547.2	-515.5	1,073.7	1,032.0	29.31	36.508	
7,746.0	7,646.8	7,579.4	7,165.9	15.6	16.7	-151.00	554.7	-515.5	1,082.7	1,040.0	29.69	36.306	
7,800.0	7,674.1	7,554.7	7,164.8	15.9	17.0	-149.28	562.2	-515.5	1,091.7	1,048.0	30.07	36.104	
7,900.0	7,712.7	7,608.1	7,161.8	16.7	17.5	-147.73	574.6	-515.5	1,104.7	1,061.0	30.85	35.602	
8,000.0	7,734.8	7,660.9	7,158.9	17.5	18.0	-146.87	587.1	-515.5	1,118.0	1,074.0	31.63	35.099	
8,100.0	7,740.0	7,613.3	7,155.8	18.6	19.0	-143.33	607.4	-515.5	1,129.3	1,089.0	32.41	34.596	
8,200.0	7,740.0	7,571.1	7,153.7	19.7	20.0	-140.37	629.9	-515.5	1,142.6	1,102.0	33.19	34.093	
8,300.0	7,740.0	7,535.4	7,149.1	20.9	21.0	-137.64	654.6	-515.5	1,158.1	1,117.0	34.14	33.589	
8,400.0	7,740.0	7,500.0	7,146.5	22.2	22.0	-135.88	681.5	-515.5	1,175.7	1,134.0	35.17	33.084	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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	0.4	-57.4	57.4				
100.0	100.0	100.0	100.0	0.2	0.2	-89.62	0.4	-57.4	57.4	57.1	0.30	188.933	
200.0	200.0	200.0	200.0	0.3	0.3	-89.62	0.4	-57.4	57.4	56.7	0.65	87.899	
300.0	300.0	300.0	300.0	0.5	0.5	-89.62	0.4	-57.4	57.4	56.4	1.00	57.272 CC, ES	
400.0	400.0	399.3	399.3	0.7	0.7	-88.97	1.0	-57.9	57.9	56.6	1.35	42.918	
500.0	500.0	498.6	498.6	0.8	0.9	-87.10	3.0	-59.6	59.7	58.0	1.70	35.109	
600.0	600.0	597.8	597.7	1.0	1.0	-84.22	6.3	-62.3	62.7	60.7	2.05	30.558	
700.0	700.0	696.7	696.4	1.2	1.2	-177.02	10.9	-66.2	68.1	65.7	2.41	28.278	
800.0	800.0	796.3	795.7	1.4	1.4	-173.69	16.2	-70.7	76.1	73.3	2.76	27.544	
900.0	899.9	895.7	894.9	1.6	1.6	-171.18	21.5	-75.1	86.0	82.9	3.12	27.600	
1,000.0	999.7	995.1	994.0	1.7	1.8	-169.32	26.8	-79.6	97.2	93.8	3.47	28.004	
1,100.0	1,099.6	1,094.4	1,093.1	1.9	2.0	-167.85	32.1	-84.0	108.5	104.7	3.83	28.361	
1,200.0	1,199.4	1,193.7	1,192.2	2.1	2.3	-166.66	37.5	-88.5	119.9	115.7	4.18	28.671	
1,300.0	1,299.3	1,294.0	1,292.2	2.3	2.5	-165.37	43.3	-92.4	130.9	126.4	4.54	28.819	
1,400.0	1,399.1	1,394.4	1,392.3	2.5	2.7	-163.62	50.4	-95.1	141.3	136.4	4.91	28.780	
1,500.0	1,498.9	1,494.3	1,491.9	2.7	2.9	-161.57	58.6	-96.6	151.2	146.0	5.28	28.646	
1,600.0	1,598.8	1,593.7	1,590.9	2.9	3.1	-159.69	66.9	-97.9	161.2	155.6	5.65	28.547	
1,700.0	1,698.6	1,693.0	1,689.9	3.1	3.3	-158.04	75.1	-99.1	171.4	165.3	6.02	28.481	
1,800.0	1,798.5	1,792.4	1,788.9	3.3	3.5	-156.56	83.4	-100.4	181.6	175.2	6.39	28.440	
1,900.0	1,898.3	1,891.8	1,888.0	3.5	3.8	-155.25	91.7	-101.7	192.0	185.2	6.76	28.417	
2,000.0	1,998.2	1,991.2	1,987.0	3.7	4.0	-154.07	100.0	-103.0	202.4	195.3	7.13	28.407	
2,100.0	2,098.0	2,090.5	2,086.0	3.9	4.2	-153.00	108.3	-104.3	213.0	205.5	7.50	28.407	
2,200.0	2,197.9	2,189.9	2,185.0	4.1	4.4	-152.04	116.6	-105.5	223.6	215.7	7.87	28.414	
2,300.0	2,297.7	2,289.3	2,284.0	4.3	4.6	-151.16	124.9	-106.8	234.2	226.0	8.24	28.426	
2,400.0	2,397.6	2,388.6	2,383.0	4.5	4.9	-150.36	133.1	-108.1	244.9	236.3	8.61	28.442	
2,500.0	2,497.4	2,488.0	2,482.0	4.7	5.1	-149.63	141.4	-109.4	255.7	246.7	8.98	28.460	
2,600.0	2,597.3	2,587.4	2,581.1	4.9	5.3	-148.96	149.7	-110.7	266.4	257.1	9.35	28.481	
2,700.0	2,697.1	2,686.7	2,680.1	5.1	5.5	-148.34	158.0	-112.0	277.3	267.5	9.73	28.503	
2,800.0	2,797.0	2,786.1	2,779.1	5.3	5.8	-147.76	166.3	-113.2	288.1	278.0	10.10	28.526	
2,900.0	2,896.8	2,885.5	2,878.1	5.5	6.0	-147.23	174.6	-114.5	299.0	288.5	10.47	28.549	
3,000.0	2,996.7	2,984.9	2,977.1	5.7	6.2	-146.73	182.8	-115.8	309.9	299.0	10.85	28.573	
3,100.0	3,096.5	3,084.2	3,076.1	5.9	6.4	-146.27	191.1	-117.1	320.8	309.6	11.22	28.597	
3,200.0	3,196.4	3,183.6	3,175.2	6.1	6.7	-145.84	199.4	-118.4	331.7	320.1	11.59	28.621	
3,300.0	3,296.2	3,283.0	3,274.2	6.3	6.9	-145.44	207.7	-119.7	342.7	330.7	11.96	28.644	
3,400.0	3,396.1	3,382.3	3,373.2	6.5	7.1	-145.06	216.0	-120.9	353.7	341.3	12.34	28.667	
3,500.0	3,495.9	3,481.7	3,472.2	6.7	7.3	-144.70	224.3	-122.2	364.6	351.9	12.71	28.690	
3,600.0	3,595.7	3,581.1	3,571.2	6.9	7.6	-144.37	232.6	-123.5	375.6	362.6	13.08	28.712	
3,700.0	3,695.6	3,680.4	3,670.2	7.1	7.8	-144.05	240.8	-124.8	386.7	373.2	13.46	28.734	
3,800.0	3,795.4	3,779.8	3,769.3	7.3	8.0	-143.75	249.1	-126.1	397.7	383.8	13.83	28.755	
3,900.0	3,895.3	3,879.2	3,868.3	7.4	8.2	-143.47	257.4	-127.3	408.7	394.5	14.20	28.776	
4,000.0	3,995.1	3,978.6	3,967.3	7.6	8.5	-143.20	265.7	-128.6	419.8	405.2	14.58	28.796	
4,100.0	4,095.0	4,077.9	4,066.3	7.8	8.7	-142.95	274.0	-129.9	430.8	415.9	14.95	28.816	
4,200.0	4,194.8	4,177.3	4,165.3	8.0	8.9	-142.71	282.3	-131.2	441.9	426.5	15.32	28.835	
4,300.0	4,294.7	4,276.7	4,264.3	8.2	9.1	-142.48	290.5	-132.5	452.9	437.2	15.70	28.854	
4,400.0	4,394.5	4,376.0	4,363.3	8.4	9.4	-142.26	298.8	-133.8	464.0	447.9	16.07	28.872	
4,500.0	4,494.4	4,475.4	4,462.4	8.6	9.6	-142.05	307.1	-135.0	475.1	458.6	16.44	28.890	
4,600.0	4,594.2	4,574.8	4,561.4	8.8	9.8	-141.85	315.4	-136.3	486.2	469.3	16.82	28.907	
4,700.0	4,694.1	4,674.1	4,660.4	9.0	10.0	-141.66	323.7	-137.6	497.2	480.1	17.19	28.924	
4,800.0	4,793.9	4,773.5	4,759.4	9.2	10.3	-141.48	332.0	-138.9	508.3	490.8	17.57	28.940	
4,900.0	4,893.8	4,872.9	4,858.4	9.4	10.5	-141.31	340.3	-140.2	519.4	501.5	17.94	28.956	
5,000.0	4,993.6	4,972.3	4,957.4	9.6	10.7	-141.14	348.5	-141.4	530.5	512.2	18.31	28.971	
5,100.0	5,093.5	5,071.6	5,056.5	9.8	10.9	-140.98	356.8	-142.7	541.7	523.0	18.69	28.986	

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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		
5,200.0	5,193.3	5,171.0	5,155.5	10.0	11.2	-140.83	365.1	-144.0	552.8	533.7	19.06	29.001		
5,300.0	5,293.2	5,270.4	5,254.5	10.2	11.4	-140.68	373.4	-145.3	563.9	544.5	19.43	29.015		
5,400.0	5,393.0	5,369.7	5,353.5	10.4	11.6	-140.54	381.7	-146.6	575.0	555.2	19.81	29.028		
5,500.0	5,492.8	5,469.1	5,452.5	10.6	11.9	-140.40	390.0	-147.9	586.1	565.9	20.18	29.042		
5,600.0	5,592.7	5,568.5	5,551.5	10.8	12.1	-140.27	398.2	-149.1	597.3	576.7	20.56	29.055		
5,700.0	5,692.5	5,667.8	5,650.6	11.0	12.3	-140.14	406.5	-150.4	608.4	587.5	20.93	29.068		
5,800.0	5,792.4	5,767.2	5,749.6	11.2	12.5	-140.02	414.8	-151.7	619.5	598.2	21.30	29.080		
5,900.0	5,892.2	5,866.6	5,848.6	11.4	12.8	-139.90	423.1	-153.0	630.7	609.0	21.68	29.092		
6,000.0	5,992.1	5,966.0	5,947.6	11.6	13.0	-139.79	431.4	-154.3	641.8	619.7	22.05	29.104		
6,100.0	6,091.9	6,065.3	6,046.6	11.8	13.2	-139.68	439.7	-155.6	652.9	630.5	22.43	29.115		
6,200.0	6,191.8	6,164.7	6,145.6	12.0	13.4	-139.57	448.0	-156.8	664.1	641.3	22.80	29.126		
6,300.0	6,291.6	6,264.1	6,244.6	12.2	13.7	-139.47	456.2	-158.1	675.2	652.0	23.17	29.137		
6,400.0	6,391.5	6,363.4	6,343.7	12.4	13.9	-139.37	464.5	-159.4	686.4	662.8	23.55	29.148		
6,500.0	6,491.3	6,462.8	6,442.7	12.6	14.1	-139.28	472.8	-160.7	697.5	673.6	23.92	29.158		
6,600.0	6,591.2	6,562.2	6,541.7	12.8	14.3	-139.18	481.1	-162.0	708.7	684.4	24.30	29.168		
6,700.0	6,691.0	6,661.5	6,640.7	13.0	14.6	-139.09	489.4	-163.2	719.8	695.1	24.67	29.178		
6,800.0	6,790.9	6,760.9	6,739.7	13.2	14.8	-139.01	497.7	-164.5	731.0	705.9	25.04	29.188		
6,900.0	6,890.7	6,860.3	6,838.7	13.4	15.0	-138.92	505.9	-165.8	742.1	716.7	25.42	29.197		
7,000.0	6,990.6	6,962.3	6,945.1	13.6	13.7	-166.14	158.2	-173.8	722.4	700.4	21.96	32.893		
7,100.0	7,090.4	7,765.2	7,493.9	13.8	13.7	-179.75	21.7	-174.3	662.7	640.0	22.73	29.158		
7,200.0	7,190.3	7,797.5	7,497.7	14.0	13.8	-141.74	-10.4	-174.3	611.5	587.4	24.05	25.425		
7,300.0	7,289.2	7,791.4	7,497.1	14.2	13.7	-105.31	-4.3	-174.3	572.5	547.3	25.26	22.668		
7,400.0	7,384.4	7,766.2	7,494.1	14.4	13.7	-98.87	20.7	-174.3	549.0	522.9	26.14	20.999		
7,494.2	7,468.2	7,734.4	7,488.6	14.6	13.6	-94.10	52.0	-174.2	541.9	515.3	26.59	20.380		
7,500.0	7,473.1	7,732.3	7,488.2	14.6	13.6	-93.79	54.1	-174.2	541.9	515.3	26.60	20.371 SF		
7,600.0	7,552.5	7,693.7	7,479.1	14.9	13.6	-88.04	91.7	-174.1	550.1	523.4	26.65	20.637		
7,700.0	7,620.2	7,650.0	7,465.8	15.3	13.6	-81.34	133.2	-173.9	570.7	544.2	26.47	21.562		
7,800.0	7,674.1	7,609.1	7,450.6	15.9	13.7	-74.65	171.2	-173.7	600.0	573.8	26.24	22.866		
7,900.0	7,712.7	7,564.7	7,431.0	16.7	13.7	-67.87	211.0	-173.5	634.4	608.3	26.11	24.300		
8,000.0	7,734.8	7,519.5	7,407.9	17.5	13.9	-61.65	249.9	-173.2	670.7	644.6	26.14	25.656		
8,100.0	7,740.0	7,473.8	7,381.6	18.6	14.0	-56.94	287.2	-172.8	706.6	680.3	26.35	26.814		
8,200.0	7,740.0	7,431.7	7,354.8	19.7	14.1	-54.98	319.6	-172.5	747.0	720.4	26.59	28.089		
8,300.0	7,740.0	7,400.0	7,333.0	20.9	14.2	-53.45	342.7	-172.2	794.2	767.4	26.83	29.600		
8,400.0	7,740.0	7,350.0	7,296.2	22.2	14.4	-51.00	376.5	-171.7	847.8	820.9	26.93	31.483		
8,500.0	7,740.0	7,332.4	7,282.6	23.5	14.5	-50.13	387.7	-171.6	906.8	879.6	27.16	33.383		
8,600.0	7,740.0	7,300.0	7,256.7	24.9	14.6	-48.53	407.1	-171.2	970.9	943.6	27.28	35.587		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.54	0.4	-47.6	47.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.54	0.4	-47.6	47.6	47.3	0.30	156.678		
200.0	200.0	200.0	200.0	0.3	0.3	-89.54	0.4	-47.6	47.6	46.9	0.65	72.893		
300.0	300.0	300.0	300.0	0.5	0.5	-89.54	0.4	-47.6	47.6	46.6	1.00	47.495		
400.0	400.0	400.0	400.0	0.7	0.7	-89.54	0.4	-47.6	47.6	46.2	1.35	35.222		
500.0	500.0	500.3	500.3	0.8	0.9	-88.58	1.2	-47.2	47.2	45.5	1.70	27.755		
600.0	600.0	600.6	600.6	1.0	1.0	-85.60	3.5	-46.0	46.2	44.1	2.05	22.488		
685.1	685.1	685.9	685.8	1.2	1.2	-177.67	6.8	-44.5	45.6	43.3	2.36	19.337 CC		
700.0	700.0	700.8	700.7	1.2	1.2	-176.77	7.5	-44.1	45.6	43.2	2.41	18.916 ES		
800.0	800.0	800.8	800.5	1.4	1.4	-169.75	13.0	-41.4	46.9	44.1	2.78	16.850		
900.0	899.9	900.6	900.0	1.6	1.6	-161.79	20.0	-38.0	50.4	47.2	3.16	15.915		
1,000.0	999.7	1,000.2	999.2	1.7	1.8	-154.63	27.8	-34.2	55.8	52.2	3.55	15.706		
1,100.0	1,099.6	1,099.9	1,098.5	1.9	2.0	-148.82	35.6	-30.4	62.0	58.0	3.94	15.713		
1,200.0	1,199.4	1,199.5	1,197.7	2.1	2.3	-144.10	43.4	-26.7	68.7	64.3	4.34	15.834		
1,300.0	1,299.3	1,299.1	1,297.0	2.3	2.5	-140.24	51.2	-22.9	75.7	71.0	4.73	16.014		
1,400.0	1,399.1	1,398.8	1,396.2	2.5	2.7	-137.05	58.9	-19.1	83.1	78.0	5.12	16.220		
1,500.0	1,498.9	1,498.4	1,495.5	2.7	2.9	-134.38	66.7	-15.3	90.7	85.2	5.52	16.436		
1,600.0	1,598.8	1,598.0	1,594.8	2.9	3.2	-132.13	74.5	-11.5	98.4	92.5	5.91	16.651		
1,700.0	1,698.6	1,697.7	1,694.0	3.1	3.4	-130.20	82.3	-7.7	106.3	100.0	6.30	16.860		
1,800.0	1,798.5	1,797.3	1,793.3	3.3	3.6	-128.55	90.0	-3.9	114.2	107.6	6.70	17.060		
1,900.0	1,898.3	1,896.9	1,892.5	3.5	3.8	-127.11	97.8	-0.2	122.3	115.2	7.09	17.249		
2,000.0	1,998.2	1,996.6	1,991.8	3.7	4.1	-125.85	105.6	3.6	130.4	122.9	7.48	17.427		
2,100.0	2,098.0	2,096.2	2,091.0	3.9	4.3	-124.74	113.4	7.4	138.6	130.7	7.88	17.595		
2,200.0	2,197.9	2,195.8	2,190.3	4.1	4.5	-123.75	121.2	11.2	146.8	138.5	8.27	17.752		
2,300.0	2,297.7	2,295.4	2,289.5	4.3	4.7	-122.86	128.9	15.0	155.1	146.4	8.66	17.900		
2,400.0	2,397.6	2,395.1	2,388.8	4.5	5.0	-122.07	136.7	18.8	163.4	154.3	9.06	18.038		
2,500.0	2,497.4	2,494.7	2,488.1	4.7	5.2	-121.35	144.5	22.6	171.7	162.2	9.45	18.168		
2,600.0	2,597.3	2,594.3	2,587.3	4.9	5.4	-120.70	152.3	26.3	180.0	170.2	9.84	18.290		
2,700.0	2,697.1	2,694.0	2,686.6	5.1	5.7	-120.11	160.1	30.1	188.4	178.2	10.24	18.404		
2,800.0	2,797.0	2,793.6	2,785.8	5.3	5.9	-119.57	167.8	33.9	196.8	186.2	10.63	18.512		
2,900.0	2,896.8	2,893.2	2,885.1	5.5	6.1	-119.07	175.6	37.7	205.2	194.2	11.02	18.614		
3,000.0	2,996.7	2,992.9	2,984.3	5.7	6.3	-118.61	183.4	41.5	213.6	202.2	11.42	18.710		
3,100.0	3,096.5	3,092.5	3,083.6	5.9	6.6	-118.19	191.2	45.3	222.0	210.2	11.81	18.800		
3,200.0	3,196.4	3,192.1	3,182.8	6.1	6.8	-117.79	199.0	49.1	230.5	218.3	12.20	18.886		
3,300.0	3,296.2	3,291.8	3,282.1	6.3	7.0	-117.43	206.7	52.8	238.9	226.3	12.60	18.967		
3,400.0	3,396.1	3,391.4	3,381.3	6.5	7.3	-117.09	214.5	56.6	247.4	234.4	12.99	19.044		
3,500.0	3,495.9	3,491.0	3,480.6	6.7	7.5	-116.77	222.3	60.4	255.8	242.5	13.38	19.117		
3,600.0	3,595.7	3,590.7	3,579.9	6.9	7.7	-116.47	230.1	64.2	264.3	250.5	13.78	19.186		
3,700.0	3,695.6	3,690.3	3,679.1	7.1	7.9	-116.19	237.9	68.0	272.8	258.6	14.17	19.252		
3,800.0	3,795.4	3,789.9	3,778.4	7.3	8.2	-115.93	245.6	71.8	281.3	266.7	14.56	19.315		
3,900.0	3,895.3	3,889.5	3,877.6	7.4	8.4	-115.68	253.4	75.6	289.8	274.8	14.96	19.374		
4,000.0	3,995.1	3,989.2	3,976.9	7.6	8.6	-115.45	261.2	79.3	298.3	282.9	15.35	19.432		
4,100.0	4,095.0	4,088.8	4,076.1	7.8	8.9	-115.23	269.0	83.1	306.8	291.0	15.74	19.486		
4,200.0	4,194.8	4,188.4	4,175.4	8.0	9.1	-115.02	276.8	86.9	315.3	299.1	16.14	19.538		
4,300.0	4,294.7	4,288.1	4,274.6	8.2	9.3	-114.82	284.5	90.7	323.8	307.3	16.53	19.588		
4,400.0	4,394.5	4,387.7	4,373.9	8.4	9.6	-114.64	292.3	94.5	332.3	315.4	16.92	19.636		
4,500.0	4,494.4	4,487.3	4,473.2	8.6	9.8	-114.46	300.1	98.3	340.8	323.5	17.32	19.682		
4,600.0	4,594.2	4,587.0	4,572.4	8.8	10.0	-114.29	307.9	102.1	349.3	331.6	17.71	19.726		
4,700.0	4,694.1	4,686.6	4,671.7	9.0	10.2	-114.13	315.6	105.8	357.9	339.7	18.10	19.768		
4,800.0	4,793.9	4,786.2	4,770.9	9.2	10.5	-113.98	323.4	109.6	366.4	347.9	18.50	19.808		
4,900.0	4,893.8	4,885.9	4,870.2	9.4	10.7	-113.83	331.2	113.4	374.9	356.0	18.89	19.847		
5,000.0	4,993.6	4,985.5	4,969.4	9.6	10.9	-113.69	339.0	117.2	383.4	364.1	19.28	19.885		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,093.5	5,085.1	5,068.7	9.8	11.2	-113.56	346.8	121.0	392.0	372.3	19.68	19.921		
5,200.0	5,193.3	5,184.8	5,167.9	10.0	11.4	-113.43	354.5	124.8	400.5	380.4	20.07	19.956		
5,300.0	5,293.2	5,284.4	5,267.2	10.2	11.6	-113.31	362.3	128.6	409.0	388.6	20.46	19.989		
5,400.0	5,393.0	5,384.0	5,366.4	10.4	11.9	-113.19	370.1	132.3	417.6	396.7	20.86	20.022		
5,500.0	5,492.8	5,483.6	5,465.7	10.6	12.1	-113.07	377.9	136.1	426.1	404.9	21.25	20.053		
5,600.0	5,592.7	5,583.3	5,565.0	10.8	12.3	-112.97	385.7	139.9	434.6	413.0	21.64	20.083		
5,700.0	5,692.5	5,682.9	5,664.2	11.0	12.5	-112.86	393.4	143.7	443.2	421.2	22.04	20.112		
5,800.0	5,792.4	5,782.5	5,763.5	11.2	12.8	-112.76	401.2	147.5	451.7	429.3	22.43	20.140		
5,900.0	5,892.2	5,882.2	5,862.7	11.4	13.0	-112.66	409.0	151.3	460.3	437.5	22.82	20.168		
6,000.0	5,992.1	5,981.8	5,962.0	11.6	13.2	-112.57	416.8	155.1	468.8	445.6	23.22	20.194		
6,100.0	6,091.9	6,081.4	6,061.2	11.8	13.5	-112.48	424.6	158.8	477.4	453.8	23.61	20.220		
6,200.0	6,191.8	6,181.1	6,160.5	12.0	13.7	-112.39	432.3	162.6	485.9	461.9	24.00	20.245		
6,300.0	6,291.6	6,280.7	6,259.7	12.2	13.9	-112.31	440.1	166.4	494.5	470.1	24.40	20.269		
6,400.0	6,391.5	6,380.3	6,359.0	12.4	14.2	-112.23	447.9	170.2	503.0	478.2	24.79	20.292		
6,500.0	6,491.3	6,480.0	6,458.3	12.6	14.4	-112.15	455.7	174.0	511.6	486.4	25.18	20.314		
6,600.0	6,591.2	6,579.6	6,557.5	12.8	14.6	-112.08	463.5	177.8	520.1	494.6	25.58	20.336		
6,700.0	6,691.0	6,679.2	6,656.8	13.0	14.8	-112.00	471.2	181.6	528.7	502.7	25.97	20.358		
6,800.0	6,790.9	6,778.9	6,756.0	13.2	15.1	-111.93	479.0	185.3	537.2	510.9	26.36	20.379		
6,900.0	6,890.7	6,878.5	6,855.3	13.4	15.3	-111.86	486.8	189.1	545.8	519.0	26.76	20.399		
7,000.0	6,990.6	6,978.1	6,954.5	13.6	15.5	-111.80	494.6	192.9	554.3	527.2	27.15	20.418		
7,100.0	7,090.4	7,077.8	7,053.8	13.8	15.8	-111.73	502.4	196.7	562.9	535.4	27.54	20.437		
7,200.0	7,190.3	7,178.1	7,159.5	14.0	15.1	-78.79	312.5	217.5	556.1	533.9	22.20	25.051		
7,300.0	7,289.2	7,127.9	7,116.7	14.2	14.7	-92.11	98.2	222.0	465.7	447.4	18.33	25.401		
7,400.0	7,384.4	7,924.0	7,715.6	14.4	14.7	-108.73	101.9	221.9	373.3	354.0	19.25	19.393		
7,500.0	7,473.1	7,892.5	7,705.7	14.6	14.7	-112.87	131.8	221.6	286.6	265.5	21.11	13.578		
7,600.0	7,552.5	7,852.6	7,690.8	14.9	14.7	-109.71	168.8	221.0	212.2	188.1	24.09	8.806		
7,700.0	7,620.2	7,809.0	7,671.7	15.3	14.8	-100.37	208.0	220.3	163.2	135.7	27.55	5.925		
7,758.6	7,653.6	7,782.5	7,658.6	15.7	14.8	-92.18	231.0	219.8	154.5	126.2	28.29	5.461 SF		
7,800.0	7,674.1	7,763.5	7,648.6	15.9	14.9	-85.43	247.2	219.4	158.7	130.9	27.76	5.716		
7,900.0	7,712.7	7,716.9	7,621.7	16.7	15.0	-67.79	285.3	218.4	195.9	170.7	25.26	7.758		
8,000.0	7,734.8	7,669.5	7,591.4	17.5	15.1	-52.03	321.6	217.2	252.3	228.5	23.83	10.590		
8,100.0	7,740.0	7,621.9	7,558.1	18.6	15.3	-41.47	355.5	215.9	313.6	290.0	23.60	13.289		
8,200.0	7,740.0	7,579.6	7,526.1	19.7	15.4	-37.05	383.2	214.7	381.0	357.1	23.87	15.960		
8,300.0	7,740.0	7,550.0	7,502.6	20.9	15.5	-34.32	401.1	213.8	455.1	430.7	24.47	18.601		
8,400.0	7,740.0	7,513.3	7,472.2	22.2	15.6	-31.31	421.6	212.7	534.0	509.2	24.82	21.513		
8,500.0	7,740.0	7,500.0	7,460.8	23.5	15.6	-30.31	428.6	212.2	616.9	591.4	25.53	24.164		
8,600.0	7,740.0	7,464.9	7,430.1	24.9	15.7	-27.90	445.6	211.1	702.1	676.3	25.77	27.246		
8,700.0	7,740.0	7,450.0	7,416.9	26.4	15.8	-26.98	452.3	210.5	789.8	763.5	26.25	30.087		
8,800.0	7,740.0	7,428.3	7,397.2	27.8	15.8	-25.71	461.4	209.8	879.1	852.5	26.57	33.085		
8,900.0	7,740.0	7,400.0	7,371.0	29.3	15.9	-24.21	472.1	208.8	970.2	943.4	26.78	36.228		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.42	0.4	-37.5	37.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.42	0.4	-37.5	37.5	37.2	0.30	123.501		
200.0	200.0	200.0	200.0	0.3	0.3	-89.42	0.4	-37.5	37.5	36.9	0.65	57.458		
300.0	300.0	300.0	300.0	0.5	0.5	-89.42	0.4	-37.5	37.5	36.5	1.00	37.438		
400.0	400.0	400.0	400.0	0.7	0.7	-89.42	0.4	-37.5	37.5	36.2	1.35	27.764		
500.0	500.0	500.0	500.0	0.8	0.8	-89.42	0.4	-37.5	37.5	35.8	1.70	22.063		
600.0	600.0	600.4	600.4	1.0	1.0	-88.36	1.1	-36.9	37.0	34.9	2.05	18.031		
700.0	700.0	700.8	700.7	1.2	1.2	178.72	3.1	-35.3	36.3	33.9	2.40	15.108		
722.9	722.9	723.7	723.6	1.2	1.2	179.84	3.8	-34.7	36.3	33.8	2.48	14.602 CC, ES		
800.0	800.0	801.0	800.9	1.4	1.4	-175.51	6.5	-32.5	36.6	33.9	2.76	13.274		
900.0	899.9	901.2	900.8	1.6	1.6	-167.96	11.2	-28.6	38.3	35.2	3.12	12.274		
1,000.0	999.7	1,001.1	1,000.5	1.7	1.8	-159.34	17.3	-23.6	41.4	37.8	3.51	11.791		
1,100.0	1,099.6	1,100.9	1,099.8	1.9	2.0	-149.86	24.7	-17.5	45.1	41.1	3.91	11.521		
1,200.0	1,199.4	1,200.4	1,198.7	2.1	2.2	-140.03	33.4	-10.3	50.0	45.6	4.33	11.532		
1,300.0	1,299.3	1,299.9	1,297.4	2.3	2.5	-131.27	42.8	-2.6	56.3	51.5	4.75	11.842		
1,400.0	1,399.1	1,399.4	1,396.1	2.5	2.7	-124.40	52.1	5.1	63.7	58.5	5.17	12.313		
1,500.0	1,498.9	1,498.8	1,494.9	2.7	3.0	-119.01	61.5	12.8	71.8	66.2	5.58	12.854		
1,600.0	1,598.8	1,598.3	1,593.6	2.9	3.2	-114.74	70.9	20.6	80.4	74.4	5.99	13.415		
1,700.0	1,698.6	1,697.8	1,692.3	3.1	3.5	-111.31	80.3	28.3	89.3	82.9	6.40	13.966		
1,800.0	1,798.5	1,797.2	1,791.0	3.3	3.8	-108.51	89.6	36.0	98.6	91.8	6.80	14.495		
1,900.0	1,898.3	1,896.7	1,889.8	3.5	4.0	-106.19	99.0	43.7	108.0	100.8	7.20	14.995		
2,000.0	1,998.2	1,996.2	1,988.5	3.7	4.3	-104.25	108.4	51.5	117.5	109.9	7.60	15.464		
2,100.0	2,098.0	2,095.6	2,087.2	3.9	4.6	-102.60	117.8	59.2	127.2	119.2	8.00	15.902		
2,200.0	2,197.9	2,195.1	2,185.9	4.1	4.8	-101.18	127.1	66.9	137.0	128.6	8.40	16.310		
2,300.0	2,297.7	2,294.6	2,284.7	4.3	5.1	-99.95	136.5	74.6	146.8	138.0	8.80	16.690		
2,400.0	2,397.6	2,394.1	2,383.4	4.5	5.4	-98.88	145.9	82.3	156.7	147.5	9.19	17.045		
2,500.0	2,497.4	2,493.5	2,482.1	4.7	5.6	-97.93	155.3	90.1	166.6	157.1	9.59	17.375		
2,600.0	2,597.3	2,593.0	2,580.8	4.9	5.9	-97.10	164.6	97.8	176.6	166.6	9.99	17.683		
2,700.0	2,697.1	2,692.5	2,679.6	5.1	6.2	-96.35	174.0	105.5	186.6	176.3	10.39	17.972		
2,800.0	2,797.0	2,791.9	2,778.3	5.3	6.5	-95.67	183.4	113.2	196.7	185.9	10.78	18.242		
2,900.0	2,896.8	2,891.4	2,877.0	5.5	6.7	-95.07	192.7	120.9	206.8	195.6	11.18	18.495		
3,000.0	2,996.7	2,990.9	2,975.7	5.7	7.0	-94.52	202.1	128.7	216.9	205.3	11.58	18.732		
3,100.0	3,096.5	3,090.3	3,074.5	5.9	7.3	-94.01	211.5	136.4	227.0	215.0	11.97	18.956		
3,200.0	3,196.4	3,189.8	3,173.2	6.1	7.5	-93.56	220.9	144.1	237.1	224.7	12.37	19.166		
3,300.0	3,296.2	3,289.3	3,271.9	6.3	7.8	-93.13	230.2	151.8	247.2	234.5	12.77	19.365		
3,400.0	3,396.1	3,388.7	3,370.6	6.5	8.1	-92.75	239.6	159.5	257.4	244.2	13.16	19.552		
3,500.0	3,495.9	3,488.2	3,469.4	6.7	8.4	-92.39	249.0	167.3	267.5	254.0	13.56	19.730		
3,600.0	3,595.7	3,587.7	3,568.1	6.9	8.6	-92.06	258.4	175.0	277.7	263.7	13.96	19.898		
3,700.0	3,695.6	3,687.2	3,666.8	7.1	8.9	-91.75	267.7	182.7	287.9	273.5	14.35	20.057		
3,800.0	3,795.4	3,786.6	3,765.5	7.3	9.2	-91.46	277.1	190.4	298.1	283.3	14.75	20.208		
3,900.0	3,895.3	3,886.1	3,864.3	7.4	9.4	-91.19	286.5	198.2	308.3	293.1	15.15	20.352		
4,000.0	3,995.1	3,985.6	3,963.0	7.6	9.7	-90.94	295.9	205.9	318.5	302.9	15.54	20.489		
4,100.0	4,095.0	4,085.0	4,061.7	7.8	10.0	-90.70	305.2	213.6	328.7	312.7	15.94	20.620		
4,200.0	4,194.8	4,184.5	4,160.4	8.0	10.3	-90.48	314.6	221.3	338.9	322.5	16.34	20.744		
4,300.0	4,294.7	4,284.0	4,259.2	8.2	10.5	-90.27	324.0	229.0	349.1	332.4	16.73	20.863		
4,400.0	4,394.5	4,383.4	4,357.9	8.4	10.8	-90.08	333.4	236.8	359.3	342.2	17.13	20.977		
4,500.0	4,494.4	4,482.9	4,456.6	8.6	11.1	-89.89	342.7	244.5	369.5	352.0	17.53	21.085		
4,600.0	4,594.2	4,582.4	4,555.3	8.8	11.4	-89.71	352.1	252.2	379.8	361.8	17.92	21.189		
4,700.0	4,694.1	4,681.8	4,654.1	9.0	11.6	-89.55	361.5	259.9	390.0	371.7	18.32	21.289		
4,800.0	4,793.9	4,781.3	4,752.8	9.2	11.9	-89.39	370.9	267.6	400.2	381.5	18.72	21.385		
4,900.0	4,893.8	4,880.8	4,851.5	9.4	12.2	-89.24	380.2	275.4	410.5	391.4	19.11	21.477		
5,000.0	4,993.6	4,980.3	4,950.2	9.6	12.4	-89.09	389.6	283.1	420.7	401.2	19.51	21.565		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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	5,093.5	5,079.7	5,049.0	9.8	12.7	-88.96	399.0	290.8	430.9	411.0	19.91	21.650		
5,200.0	5,193.3	5,179.2	5,147.7	10.0	13.0	-88.83	408.4	298.5	441.2	420.9	20.30	21.732		
5,300.0	5,293.2	5,278.7	5,246.4	10.2	13.3	-88.70	417.7	306.2	451.4	430.7	20.70	21.810		
5,400.0	5,393.0	5,378.1	5,345.1	10.4	13.5	-88.59	427.1	314.0	461.7	440.6	21.09	21.886		
5,500.0	5,492.8	5,477.6	5,443.9	10.6	13.8	-88.47	436.5	321.7	471.9	450.4	21.49	21.959		
5,600.0	5,592.7	5,577.1	5,542.6	10.8	14.1	-88.36	445.9	329.4	482.2	460.3	21.89	22.030		
5,700.0	5,692.5	5,676.5	5,641.3	11.0	14.4	-88.26	455.2	337.1	492.4	470.2	22.28	22.098		
5,800.0	5,792.4	5,776.0	5,740.0	11.2	14.6	-88.16	464.6	344.9	502.7	480.0	22.68	22.163		
5,900.0	5,892.2	5,875.5	5,838.8	11.4	14.9	-88.06	474.0	352.6	512.9	489.9	23.08	22.227		
6,000.0	5,992.1	5,974.9	5,937.5	11.6	15.2	-87.97	483.3	360.3	523.2	499.7	23.47	22.288		
6,100.0	6,091.9	6,074.4	6,036.2	11.8	15.5	-87.88	492.7	368.0	533.5	509.6	23.87	22.348		
6,200.0	6,191.8	6,173.9	6,134.9	12.0	15.7	-87.80	502.1	375.7	543.7	519.5	24.27	22.405		
6,300.0	6,291.6	6,273.3	6,233.7	12.2	16.0	-87.72	511.5	383.5	554.0	529.3	24.66	22.461		
6,400.0	6,391.5	6,372.8	6,332.4	12.4	16.3	-87.64	520.8	391.2	564.3	539.2	25.06	22.515		
6,500.0	6,491.3	6,472.3	6,431.1	12.6	16.6	-87.56	530.2	398.9	574.5	549.1	25.46	22.568		
6,600.0	6,591.2	6,571.8	6,529.8	12.8	16.8	-87.49	539.6	406.6	584.8	558.9	25.85	22.618		
6,700.0	6,691.0	6,671.2	6,628.6	13.0	17.1	-87.42	549.0	414.3	595.0	568.8	26.25	22.668		
6,800.0	6,790.9	6,770.7	6,727.3	13.2	17.4	-87.35	558.3	422.1	605.3	578.7	26.65	22.716		
6,900.0	6,890.7	6,870.2	6,826.0	13.4	17.6	-87.28	567.7	429.8	615.6	588.5	27.04	22.762		
7,000.0	6,990.6	6,970.3	6,925.0	13.6	17.9	-87.21	577.0	437.5	625.9	598.4	27.43	22.808		
7,100.0	7,090.4	7,070.1	7,024.8	13.8	18.2	-87.14	586.3	445.2	636.2	608.3	27.82	22.854		
7,200.0	7,190.3	7,170.0	7,124.7	14.0	18.5	-87.07	595.6	452.9	646.5	618.2	28.21	22.900		
7,300.0	7,289.2	7,268.9	7,223.6	14.2	18.8	-87.00	604.9	460.6	656.8	628.1	28.60	22.946		
7,400.0	7,388.1	7,367.8	7,322.5	14.4	19.1	-86.93	614.2	468.3	667.1	638.0	28.99	22.992		
7,500.0	7,487.0	7,466.7	7,421.4	14.6	19.4	-86.86	623.5	476.0	677.4	647.9	29.38	23.038		
7,533.9	7,501.2	7,480.6	7,435.1	14.7	19.5	-86.83	628.0	478.2	681.7	651.2	29.50	23.055		
7,600.0	7,552.5	7,531.9	7,486.4	14.9	19.7	-86.76	637.3	485.9	692.0	661.1	29.89	23.101		
7,700.0	7,620.2	7,599.6	7,554.1	15.1	20.0	-86.69	646.6	493.6	702.3	671.0	30.28	23.147		
7,800.0	7,674.1	7,653.5	7,608.0	15.3	20.3	-86.62	655.9	501.3	712.6	680.9	30.67	23.193		
7,900.0	7,712.7	7,692.1	7,646.6	15.5	20.6	-86.55	665.2	509.0	722.9	690.8	31.06	23.239		
8,000.0	7,734.8	7,714.2	7,668.7	15.7	20.8	-86.48	674.5	516.7	733.2	700.7	31.45	23.285		
8,100.0	7,740.0	7,719.4	7,673.9	15.9	21.0	-86.41	683.8	524.4	743.5	710.6	31.84	23.331		
8,200.0	7,740.0	7,719.4	7,673.9	16.1	21.2	-86.34	693.1	532.1	753.8	720.5	32.23	23.377		
8,300.0	7,740.0	7,719.4	7,673.9	16.3	21.4	-86.27	702.4	539.8	764.1	730.4	32.62	23.423		
8,400.0	7,740.0	7,719.4	7,673.9	16.5	21.6	-86.20	711.7	547.5	774.4	740.3	33.01	23.469		
8,500.0	7,740.0	7,719.4	7,673.9	16.7	21.8	-86.13	721.0	555.2	784.7	750.2	33.40	23.515		
8,600.0	7,740.0	7,719.4	7,673.9	16.9	22.0	-86.06	730.3	562.9	795.0	760.1	33.79	23.561		
8,700.0	7,740.0	7,719.4	7,673.9	17.1	22.2	-85.99	739.6	570.6	805.3	770.0	34.18	23.607		
8,800.0	7,740.0	7,719.4	7,673.9	17.3	22.4	-85.92	748.9	578.3	815.6	780.0	34.57	23.653		
8,900.0	7,740.0	7,719.4	7,673.9	17.5	22.6	-85.85	758.2	586.0	825.9	790.0	34.96	23.699		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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	-89.97	0.0	-27.4	27.4				
100.0	100.0	100.0	100.0	0.2	0.2	-89.97	0.0	-27.4	27.4	27.1	0.30	90.317	
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-27.4	27.4	26.8	0.65	42.019	
300.0	300.0	300.0	300.0	0.5	0.5	-89.97	0.0	-27.4	27.4	26.4	1.00	27.378	
400.0	400.0	400.0	400.0	0.7	0.7	-89.97	0.0	-27.4	27.4	26.1	1.35	20.304	
500.0	500.0	500.0	500.0	0.8	0.8	-89.97	0.0	-27.4	27.4	25.7	1.70	16.135	
600.0	600.0	600.0	600.0	1.0	1.0	-89.97	0.0	-27.4	27.4	25.4	2.05	13.386 CC, ES	
700.0	700.0	700.0	700.0	1.2	1.2	173.89	0.0	-27.4	28.3	25.9	2.40	11.799	
800.0	800.0	800.0	800.0	1.4	1.4	174.40	0.0	-27.4	30.9	28.2	2.75	11.248	
900.0	899.9	899.9	899.9	1.6	1.5	175.09	0.0	-27.4	35.2	32.1	3.10	11.383	
1,000.0	999.7	999.7	999.7	1.7	1.7	175.75	0.0	-27.4	40.7	37.3	3.44	11.821	
1,100.0	1,099.6	1,100.2	1,100.1	1.9	1.9	176.99	0.6	-26.7	45.6	41.8	3.79	12.012	
1,200.0	1,199.4	1,200.7	1,200.6	2.1	2.1	179.40	2.2	-24.7	49.2	45.1	4.15	11.869	
1,300.0	1,299.3	1,301.2	1,301.1	2.3	2.3	-177.10	5.0	-21.3	51.7	47.2	4.50	11.495	
1,400.0	1,399.1	1,401.7	1,401.4	2.5	2.4	-172.46	8.9	-16.5	53.3	48.4	4.86	10.974	
1,500.0	1,498.9	1,502.1	1,501.4	2.7	2.6	-166.56	13.8	-10.3	54.3	49.1	5.23	10.385	
1,600.0	1,598.8	1,602.3	1,601.2	2.9	2.8	-159.31	19.9	-2.8	55.1	49.5	5.62	9.803	
1,700.0	1,698.6	1,702.2	1,700.5	3.1	3.1	-150.69	27.0	6.0	56.3	50.2	6.04	9.311	
1,800.0	1,798.5	1,801.9	1,799.3	3.3	3.3	-140.93	35.3	16.1	58.4	51.9	6.50	8.993	
1,900.0	1,898.3	1,901.2	1,897.5	3.5	3.6	-130.55	44.5	27.6	62.3	55.3	6.98	8.929 SF	
2,000.0	1,998.2	2,000.4	1,995.5	3.7	3.8	-120.83	54.4	39.7	68.2	60.7	7.44	9.158	
2,100.0	2,098.0	2,099.7	2,093.5	3.9	4.1	-112.82	64.2	51.9	75.7	67.8	7.89	9.593	
2,200.0	2,197.9	2,198.9	2,191.4	4.1	4.4	-106.35	74.1	64.1	84.4	76.1	8.32	10.150	
2,300.0	2,297.7	2,298.1	2,289.4	4.3	4.7	-101.14	83.9	76.3	94.0	85.3	8.73	10.769	
2,400.0	2,397.6	2,397.3	2,387.3	4.5	5.0	-96.92	93.8	88.4	104.3	95.1	9.14	11.414	
2,500.0	2,497.4	2,496.5	2,485.3	4.7	5.3	-93.46	103.6	100.6	115.0	105.4	9.53	12.060	
2,600.0	2,597.3	2,595.7	2,583.3	4.9	5.6	-90.60	113.5	112.8	126.0	116.1	9.93	12.695	
2,700.0	2,697.1	2,694.9	2,681.2	5.1	5.9	-88.20	123.3	125.0	137.3	127.0	10.32	13.311	
2,800.0	2,797.0	2,794.1	2,779.2	5.3	6.2	-86.17	133.2	137.2	148.8	138.1	10.71	13.902	
2,900.0	2,896.8	2,893.3	2,877.2	5.5	6.5	-84.43	143.0	149.3	160.5	149.4	11.09	14.468	
3,000.0	2,996.7	2,992.5	2,975.1	5.7	6.8	-82.93	152.9	161.5	172.3	160.8	11.48	15.008	
3,100.0	3,096.5	3,091.7	3,073.1	5.9	7.1	-81.62	162.8	173.7	184.2	172.3	11.87	15.522	
3,200.0	3,196.4	3,190.9	3,171.1	6.1	7.4	-80.47	172.6	185.9	196.1	183.9	12.25	16.011	
3,300.0	3,296.2	3,290.1	3,269.0	6.3	7.8	-79.45	182.5	198.0	208.2	195.6	12.64	16.475	
3,400.0	3,396.1	3,389.4	3,367.0	6.5	8.1	-78.55	192.3	210.2	220.3	207.3	13.02	16.917	
3,500.0	3,495.9	3,488.6	3,464.9	6.7	8.4	-77.73	202.2	222.4	232.4	219.0	13.41	17.337	
3,600.0	3,595.7	3,587.8	3,562.9	6.9	8.7	-77.00	212.0	234.6	244.6	230.8	13.79	17.736	
3,700.0	3,695.6	3,687.0	3,660.9	7.1	9.0	-76.34	221.9	246.7	256.9	242.7	14.18	18.116	
3,800.0	3,795.4	3,786.2	3,758.8	7.3	9.3	-75.74	231.7	258.9	269.1	254.6	14.56	18.478	
3,900.0	3,895.3	3,885.4	3,856.8	7.4	9.6	-75.19	241.6	271.1	281.4	266.5	14.95	18.823	
4,000.0	3,995.1	3,984.6	3,954.8	7.6	10.0	-74.69	251.4	283.3	293.7	278.4	15.34	19.152	
4,100.0	4,095.0	4,083.8	4,052.7	7.8	10.3	-74.22	261.3	295.5	306.0	290.3	15.72	19.466	
4,200.0	4,194.8	4,183.0	4,150.7	8.0	10.6	-73.80	271.1	307.6	318.4	302.3	16.11	19.767	
4,300.0	4,294.7	4,282.2	4,248.6	8.2	10.9	-73.40	281.0	319.8	330.8	314.3	16.49	20.054	
4,400.0	4,394.5	4,381.4	4,346.6	8.4	11.2	-73.04	290.9	332.0	343.1	326.3	16.88	20.328	
4,500.0	4,494.4	4,480.6	4,444.6	8.6	11.6	-72.70	300.7	344.2	355.5	338.3	17.27	20.592	
4,600.0	4,594.2	4,579.9	4,542.5	8.8	11.9	-72.38	310.6	356.3	367.9	350.3	17.65	20.844	
4,700.0	4,694.1	4,679.1	4,640.5	9.0	12.2	-72.08	320.4	368.5	380.3	362.3	18.04	21.086	
4,800.0	4,793.9	4,778.3	4,738.5	9.2	12.5	-71.80	330.3	380.7	392.8	374.3	18.42	21.318	
4,900.0	4,893.8	4,877.5	4,836.4	9.4	12.8	-71.54	340.1	392.9	405.2	386.4	18.81	21.541	
5,000.0	4,993.6	4,976.7	4,934.4	9.6	13.2	-71.29	350.0	405.1	417.6	398.4	19.20	21.755	
5,100.0	5,093.5	5,075.9	5,032.4	9.8	13.5	-71.06	359.8	417.2	430.1	410.5	19.58	21.962	

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3										Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	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)			
5,200.0	5,193.3	5,175.1	5,130.3	10.0	13.8	-70.84	369.7	429.4	442.5	422.6	19.97	22.160	
5,300.0	5,293.2	5,274.3	5,228.3	10.2	14.1	-70.64	379.5	441.6	455.0	434.6	20.36	22.352	
5,400.0	5,393.0	5,373.5	5,326.2	10.4	14.5	-70.44	389.4	453.8	467.4	446.7	20.74	22.536	
5,500.0	5,492.8	5,472.7	5,424.2	10.6	14.8	-70.26	399.2	465.9	479.9	458.8	21.13	22.714	
5,600.0	5,592.7	5,571.9	5,522.2	10.8	15.1	-70.08	409.1	478.1	492.4	470.9	21.51	22.886	
5,700.0	5,692.5	5,671.1	5,620.1	11.0	15.4	-69.91	419.0	490.3	504.9	483.0	21.90	23.051	
5,800.0	5,792.4	5,770.3	5,718.1	11.2	15.7	-69.75	428.8	502.5	517.3	495.1	22.29	23.212	
5,900.0	5,892.2	5,869.6	5,816.1	11.4	16.1	-69.60	438.7	514.7	529.8	507.2	22.67	23.367	
6,000.0	5,992.1	5,968.8	5,914.0	11.6	16.4	-69.46	448.5	526.8	542.3	519.3	23.06	23.516	
6,100.0	6,091.9	6,068.0	6,012.0	11.8	16.7	-69.32	458.4	539.0	554.8	531.4	23.45	23.661	
6,200.0	6,191.8	6,167.2	6,110.0	12.0	17.0	-69.19	468.2	551.2	567.3	543.5	23.83	23.802	
6,300.0	6,291.6	6,266.4	6,207.9	12.2	17.4	-69.06	478.1	563.4	579.8	555.6	24.22	23.938	
6,400.0	6,391.5	6,365.6	6,305.9	12.4	17.7	-68.94	487.9	575.5	592.3	567.7	24.61	24.069	
6,500.0	6,491.3	6,464.8	6,403.8	12.6	18.0	-68.82	497.8	587.7	604.8	579.8	24.99	24.197	
6,600.0	6,591.2	6,564.0	6,501.8	12.8	18.3	-68.71	507.6	599.9	617.3	591.9	25.38	24.321	
6,700.0	6,691.0	6,663.2	6,599.8	13.0	18.7	-68.61	517.5	612.1	629.8	604.0	25.77	24.441	
6,800.0	6,790.9	6,762.4	6,697.7	13.2	19.0	-68.50	527.3	624.2	642.3	616.2	26.16	24.558	
6,900.0	6,890.7	6,861.6	6,795.7	13.4	19.3	-68.40	537.2	636.4	654.8	628.3	26.54	24.672	
7,000.0	6,990.6	6,960.8	6,893.7	13.6	19.6	-68.31	547.1	648.6	667.4	640.4	26.93	24.782	
7,100.0	7,090.4	7,060.1	6,991.6	13.8	19.9	-68.22	556.9	660.8	679.9	652.6	27.32	24.889	
7,200.0	7,190.3	7,159.3	7,089.6	14.0	20.3	-25.46	566.8	673.0	691.9	664.2	27.70	24.981	
7,300.0	7,289.2	8,144.0	7,740.0	14.2	20.4	86.16	4.8	797.7	630.0	608.7	21.28	29.609	
7,400.0	7,384.4	8,046.5	7,732.0	14.4	20.2	89.65	101.5	789.9	558.8	536.2	22.65	24.672	
7,500.0	7,473.1	7,981.2	7,717.6	14.6	20.1	91.34	164.9	783.5	496.2	472.1	24.16	20.540	
7,600.0	7,552.5	7,924.2	7,699.3	14.9	20.1	90.84	218.5	777.4	445.7	420.1	25.60	17.410	
7,700.0	7,620.2	7,870.1	7,677.0	15.3	20.2	88.21	267.3	771.0	410.6	383.6	26.96	15.231	
7,800.0	7,674.1	7,817.5	7,651.0	15.9	20.2	83.62	312.6	764.5	393.1	364.8	28.32	13.879	
7,848.4	7,694.8	7,792.3	7,637.2	16.3	20.3	80.79	333.3	761.2	391.1	362.0	29.06	13.459	
7,900.0	7,712.7	7,765.6	7,621.5	16.7	20.3	77.41	354.6	757.7	393.2	363.4	29.85	13.174	
8,000.0	7,734.8	7,714.3	7,588.6	17.5	20.4	70.12	393.4	750.6	408.3	376.7	31.58	12.929	
8,100.0	7,740.0	7,663.5	7,552.8	18.6	20.4	63.03	428.7	743.5	434.2	400.8	33.42	12.991	
8,200.0	7,740.0	7,619.0	7,519.0	19.7	20.5	58.59	456.8	737.0	471.7	436.6	35.10	13.436	
8,300.0	7,740.0	7,582.1	7,489.3	20.9	20.6	54.92	478.1	731.7	521.0	484.6	36.44	14.300	
8,400.0	7,740.0	7,550.0	7,462.4	22.2	20.6	51.78	495.0	726.9	580.3	542.9	37.39	15.522	
8,500.0	7,740.0	7,525.0	7,440.8	23.5	20.6	49.41	507.0	723.3	647.4	609.3	38.09	16.995	
8,600.0	7,740.0	7,500.0	7,418.7	24.9	20.7	47.09	518.2	719.6	720.6	682.1	38.52	18.709	
8,700.0	7,740.0	7,483.5	7,403.9	26.4	20.7	45.61	525.0	717.2	798.5	759.6	38.90	20.529	
8,800.0	7,740.0	7,466.9	7,388.8	27.8	20.7	44.15	531.4	714.7	880.0	840.9	39.13	22.491	
8,900.0	7,740.0	7,450.0	7,373.2	29.3	20.7	42.71	537.4	712.3	964.5	925.2	39.27	24.562	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-17.4	17.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-17.4	17.4	17.0	0.30	57.139		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-17.4	17.4	16.7	0.65	26.584		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-17.4	17.4	16.4	1.00	17.321		
400.0	400.0	400.3	400.3	0.7	0.7	-88.71	0.4	-16.6	16.6	15.2	1.35	12.252		
500.0	500.0	500.5	500.4	0.8	0.9	-84.21	1.4	-14.1	14.2	12.5	1.70	8.360		
600.0	600.0	600.6	600.4	1.0	1.0	-72.47	3.2	-10.1	10.6	8.6	2.06	5.178		
700.0	700.0	700.5	700.2	1.2	1.2	-139.55	5.7	-4.6	7.9	5.5	2.43	3.256		
721.0	721.0	721.5	721.1	1.2	1.3	-131.04	6.3	-3.2	7.8	5.3	2.52	3.106	CC, ES, SF	
800.0	800.0	800.3	799.7	1.4	1.4	-101.56	8.8	2.6	9.3	6.5	2.82	3.292		
900.0	899.9	900.0	898.9	1.6	1.7	-81.49	12.7	11.4	14.1	10.9	3.18	4.420		
1,000.0	999.7	999.6	997.8	1.7	1.9	-71.96	17.3	21.7	20.6	17.1	3.55	5.807		
1,100.0	1,099.6	1,098.9	1,096.3	1.9	2.2	-65.08	22.5	33.5	28.9	24.9	3.91	7.372		
1,200.0	1,199.4	1,197.8	1,194.2	2.1	2.5	-59.97	28.4	46.9	38.8	34.5	4.27	9.081		
1,300.0	1,299.3	1,296.4	1,291.4	2.3	2.8	-56.09	35.0	61.7	50.5	45.8	4.63	10.901		
1,400.0	1,399.1	1,394.6	1,387.9	2.5	3.1	-53.06	42.2	78.0	63.8	58.9	4.98	12.812		
1,500.0	1,498.9	1,492.4	1,483.8	2.7	3.5	-50.65	50.0	95.7	78.9	73.6	5.33	14.794		
1,600.0	1,598.8	1,591.1	1,580.4	2.9	3.9	-48.85	58.2	114.2	94.8	89.1	5.69	16.638		
1,700.0	1,698.6	1,689.8	1,677.0	3.1	4.2	-47.57	66.4	132.7	110.6	104.6	6.06	18.268		
1,800.0	1,798.5	1,788.5	1,773.6	3.3	4.6	-46.61	74.6	151.3	126.6	120.2	6.42	19.717		
1,900.0	1,898.3	1,887.2	1,870.2	3.5	5.0	-45.86	82.8	169.8	142.6	135.8	6.78	21.013		
2,000.0	1,998.2	1,985.9	1,966.8	3.7	5.4	-45.26	91.0	188.3	158.5	151.4	7.15	22.177		
2,100.0	2,098.0	2,084.6	2,063.4	3.9	5.8	-44.78	99.2	206.8	174.5	167.0	7.51	23.228		
2,200.0	2,197.9	2,183.3	2,160.0	4.1	6.2	-44.37	107.3	225.4	190.5	182.7	7.88	24.183		
2,300.0	2,297.7	2,282.0	2,256.6	4.3	6.6	-44.03	115.5	243.9	206.6	198.3	8.25	25.052		
2,400.0	2,397.6	2,380.7	2,353.2	4.5	7.0	-43.74	123.7	262.4	222.6	214.0	8.61	25.848		
2,500.0	2,497.4	2,479.4	2,449.8	4.7	7.3	-43.49	131.9	280.9	238.6	229.6	8.98	26.580		
2,600.0	2,597.3	2,578.1	2,546.4	4.9	7.7	-43.27	140.1	299.4	254.6	245.3	9.34	27.253		
2,700.0	2,697.1	2,676.8	2,643.0	5.1	8.1	-43.07	148.3	318.0	270.7	261.0	9.71	27.876		
2,800.0	2,797.0	2,775.5	2,739.6	5.3	8.5	-42.90	156.5	336.5	286.7	276.6	10.08	28.454		
2,900.0	2,896.8	2,874.2	2,836.2	5.5	8.9	-42.74	164.7	355.0	302.7	292.3	10.44	28.991		
3,000.0	2,996.7	2,972.9	2,932.8	5.7	9.3	-42.60	172.9	373.5	318.8	308.0	10.81	29.492		
3,100.0	3,096.5	3,071.6	3,029.4	5.9	9.7	-42.48	181.1	392.1	334.8	323.7	11.18	29.959		
3,200.0	3,196.4	3,170.3	3,126.0	6.1	10.1	-42.36	189.3	410.6	350.9	339.3	11.54	30.397		
3,300.0	3,296.2	3,269.0	3,222.6	6.3	10.5	-42.26	197.4	429.1	366.9	355.0	11.91	30.808		
3,400.0	3,396.1	3,367.7	3,319.2	6.5	10.9	-42.16	205.6	447.6	383.0	370.7	12.28	31.195		
3,500.0	3,495.9	3,466.4	3,415.8	6.7	11.3	-42.07	213.8	466.1	399.0	386.4	12.64	31.559		
3,600.0	3,595.7	3,565.1	3,512.4	6.9	11.7	-41.99	222.0	484.7	415.1	402.1	13.01	31.902		
3,700.0	3,695.6	3,663.8	3,609.0	7.1	12.1	-41.92	230.2	503.2	431.1	417.7	13.38	32.226		
3,800.0	3,795.4	3,762.5	3,705.6	7.3	12.5	-41.85	238.4	521.7	447.2	433.4	13.74	32.533		
3,900.0	3,895.3	3,861.2	3,802.2	7.4	12.9	-41.78	246.6	540.2	463.2	449.1	14.11	32.825		
4,000.0	3,995.1	3,959.9	3,898.8	7.6	13.3	-41.72	254.8	558.8	479.3	464.8	14.48	33.101		
4,100.0	4,095.0	4,058.6	3,995.4	7.8	13.7	-41.67	263.0	577.3	495.3	480.5	14.85	33.364		
4,200.0	4,194.8	4,157.3	4,092.0	8.0	14.1	-41.61	271.2	595.8	511.4	496.2	15.21	33.614		
4,300.0	4,294.7	4,256.0	4,188.6	8.2	14.5	-41.56	279.4	614.3	527.4	511.8	15.58	33.852		
4,400.0	4,394.5	4,354.7	4,285.2	8.4	14.9	-41.52	287.5	632.8	543.5	527.5	15.95	34.079		
4,500.0	4,494.4	4,453.4	4,381.8	8.6	15.3	-41.47	295.7	651.4	559.5	543.2	16.31	34.296		
4,600.0	4,594.2	4,552.1	4,478.4	8.8	15.7	-41.43	303.9	669.9	575.6	558.9	16.68	34.503		
4,700.0	4,694.1	4,650.8	4,575.0	9.0	16.1	-41.39	312.1	688.4	591.6	574.6	17.05	34.702		
4,800.0	4,793.9	4,749.5	4,671.7	9.2	16.4	-41.35	320.3	706.9	607.7	590.3	17.42	34.892		
4,900.0	4,893.8	4,848.2	4,768.3	9.4	16.8	-41.32	328.5	725.5	623.7	606.0	17.78	35.074		
5,000.0	4,993.6	4,946.9	4,864.9	9.6	17.2	-41.28	336.7	744.0	639.8	621.6	18.15	35.249		

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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		
5,100.0	5,093.5	5,045.6	4,961.5	9.8	17.6	-41.25	344.9	762.5	655.8	637.3	18.52	35.416		
5,200.0	5,193.3	5,144.4	5,058.1	10.0	18.0	-41.22	353.1	781.0	671.9	653.0	18.89	35.578		
5,300.0	5,293.2	5,243.1	5,154.7	10.2	18.4	-41.19	361.3	799.5	688.0	668.7	19.25	35.733		
5,400.0	5,393.0	5,341.8	5,251.3	10.4	18.8	-41.16	369.5	818.1	704.0	684.4	19.62	35.882		
5,500.0	5,492.8	5,440.5	5,347.9	10.6	19.2	-41.14	377.6	836.6	720.1	700.1	19.99	36.026		
5,600.0	5,592.7	5,539.2	5,444.5	10.8	19.6	-41.11	385.8	855.1	736.1	715.8	20.35	36.165		
5,700.0	5,692.5	5,637.9	5,541.1	11.0	20.0	-41.09	394.0	873.6	752.2	731.5	20.72	36.298		
5,800.0	5,792.4	5,736.6	5,637.7	11.2	20.4	-41.06	402.2	892.2	768.2	747.1	21.09	36.427		
5,900.0	5,892.2	5,835.3	5,734.3	11.4	20.8	-41.04	410.4	910.7	784.3	762.8	21.46	36.552		
6,000.0	5,992.1	5,934.0	5,830.9	11.6	21.2	-41.02	418.6	929.2	800.3	778.5	21.82	36.672		
6,100.0	6,091.9	6,032.7	5,927.5	11.8	21.6	-41.00	426.8	947.7	816.4	794.2	22.19	36.789		
6,200.0	6,191.8	6,131.4	6,024.1	12.0	22.0	-40.98	435.0	966.2	832.5	809.9	22.56	36.902		
6,300.0	6,291.6	6,230.1	6,120.7	12.2	22.4	-40.96	443.2	984.8	848.5	825.6	22.93	37.011		
6,400.0	6,391.5	6,328.8	6,217.3	12.4	22.8	-40.94	451.4	1,003.3	864.6	841.3	23.29	37.116		
6,500.0	6,491.3	6,427.5	6,313.9	12.6	23.2	-40.93	459.5	1,021.8	880.6	857.0	23.66	37.218		
6,600.0	6,591.2	6,526.2	6,410.5	12.8	23.6	-40.91	467.7	1,040.3	896.7	872.6	24.03	37.318		
6,700.0	6,691.0	6,624.9	6,507.1	13.0	24.0	-40.89	475.9	1,058.9	912.7	888.3	24.40	37.414		
6,800.0	6,790.9	6,723.6	6,603.7	13.2	24.4	-40.88	484.1	1,077.4	928.8	904.0	24.76	37.507		
6,900.0	6,890.7	6,822.3	6,700.3	13.4	24.8	-40.86	492.3	1,095.9	944.8	919.7	25.13	37.598		
7,000.0	6,990.6	6,921.0	6,796.9	13.6	25.2	-40.85	500.5	1,114.4	960.9	935.4	25.50	37.686		
7,100.0	7,090.4	7,100.0	6,972.3	13.8	25.9	-40.53	509.3	1,148.0	976.9	950.8	26.09	37.438		
7,200.0	7,190.3	7,829.8	7,484.6	14.0	26.3	30.23	70.8	1,246.3	946.4	921.5	24.92	37.979		
7,300.0	7,289.2	7,859.7	7,490.6	14.2	26.4	75.64	41.5	1,247.4	913.8	888.2	25.63	35.657		
7,400.0	7,384.4	7,836.7	7,486.1	14.4	26.3	82.75	64.1	1,246.6	891.1	864.9	26.18	34.039		
7,500.0	7,473.1	7,800.2	7,477.1	14.6	26.3	84.04	99.4	1,244.8	878.8	852.2	26.60	33.044		
7,573.7	7,532.6	7,769.6	7,467.8	14.8	26.3	83.35	128.4	1,243.1	876.2	849.3	26.91	32.563		
7,600.0	7,552.5	7,758.3	7,464.0	14.9	26.3	82.88	139.1	1,242.3	876.5	849.5	27.01	32.453		
7,700.0	7,620.2	7,713.7	7,447.0	15.3	26.3	80.28	180.2	1,239.1	883.0	855.5	27.58	32.020		
7,800.0	7,674.1	7,667.6	7,426.2	15.9	26.3	76.77	221.1	1,235.1	896.6	868.2	28.46	31.504		
7,900.0	7,712.7	7,620.7	7,401.8	16.7	26.3	72.71	260.9	1,230.4	915.3	885.6	29.74	30.777		
8,000.0	7,734.8	7,573.1	7,373.9	17.5	26.3	68.45	299.0	1,225.0	937.2	905.8	31.40	29.845		
8,100.0	7,740.0	7,525.4	7,342.8	18.6	26.3	64.74	334.7	1,219.1	960.5	927.1	33.35	28.798		
8,200.0	7,740.0	7,482.5	7,312.4	19.7	26.3	62.93	364.5	1,213.3	988.3	952.9	35.43	27.895		
8,300.0	7,740.0	7,450.0	7,288.1	20.9	26.3	61.50	385.4	1,208.6	1,022.6	985.1	37.56	27.227		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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			
0.0	0.0	0.0	0.0	0.0	0.0	-89.84	0.0	-7.6	7.6						
100.0	100.0	100.0	100.0	0.2	0.2	-89.84	0.0	-7.6	7.6	7.3	0.30	24.883			
200.0	200.0	200.0	200.0	0.3	0.3	-89.84	0.0	-7.6	7.6	6.9	0.65	11.577			
247.2	247.2	247.3	247.3	0.4	0.4	-89.34	0.1	-7.4	7.4	6.6	0.82	9.017			
300.0	300.0	300.1	300.1	0.5	0.5	-87.40	0.3	-6.7	6.7	5.7	1.00	6.724			
400.0	400.0	400.2	400.1	0.7	0.7	-74.74	1.2	-4.3	4.4	3.1	1.35	3.259			
485.9	485.9	486.0	485.9	0.8	0.8	-19.05	2.3	-0.8	2.5	0.8	1.67	1.487	Level 3, CC, ES, SF		
500.0	500.0	500.1	500.0	0.8	0.9	-2.84	2.6	-0.1	2.6	0.9	1.72	1.504			
600.0	600.0	599.8	599.5	1.0	1.1	50.96	4.6	5.6	7.3	5.2	2.05	3.539			
700.0	700.0	699.4	698.8	1.2	1.3	-36.96	7.1	13.0	14.2	11.8	2.40	5.912			
800.0	800.0	798.8	797.8	1.4	1.5	-35.97	10.2	22.0	21.5	18.7	2.75	7.818			
900.0	899.9	898.1	896.4	1.6	1.8	-36.85	13.9	32.6	29.1	26.0	3.10	9.379			
1,000.0	999.7	997.2	994.6	1.7	2.0	-37.88	18.1	44.8	37.4	34.0	3.45	10.840			
1,100.0	1,099.6	1,096.0	1,092.4	1.9	2.3	-38.09	22.8	58.5	47.5	43.7	3.81	12.464			
1,200.0	1,199.4	1,194.4	1,189.4	2.1	2.7	-37.85	28.1	73.8	59.2	55.0	4.16	14.216			
1,300.0	1,299.3	1,292.4	1,285.8	2.3	3.0	-37.40	33.8	90.6	72.6	68.1	4.52	16.067			
1,400.0	1,399.1	1,389.9	1,381.4	2.5	3.4	-36.86	40.1	108.9	87.6	82.7	4.87	17.999			
1,500.0	1,498.9	1,486.9	1,476.2	2.7	3.8	-36.30	46.9	128.5	104.3	99.1	5.21	19.998			
1,600.0	1,598.8	1,583.4	1,570.0	2.9	4.2	-35.76	54.2	149.6	122.6	117.0	5.56	22.052			
1,700.0	1,698.6	1,681.2	1,664.9	3.1	4.6	-35.27	61.8	171.9	141.9	136.0	5.92	23.995			
1,800.0	1,798.5	1,779.3	1,760.1	3.3	5.0	-34.90	69.6	194.2	161.3	155.0	6.27	25.712			
1,900.0	1,898.3	1,877.4	1,855.4	3.5	5.5	-34.61	77.3	216.6	180.7	174.0	6.63	27.244			
2,000.0	1,998.2	1,975.5	1,950.6	3.7	5.9	-34.37	85.0	239.0	200.0	193.0	6.99	28.618			
2,100.0	2,098.0	2,073.6	2,045.8	3.9	6.4	-34.18	92.7	261.3	219.4	212.1	7.35	29.858			
2,200.0	2,197.9	2,171.7	2,141.0	4.1	6.8	-34.02	100.4	283.7	238.8	231.1	7.71	30.982			
2,300.0	2,297.7	2,269.8	2,236.2	4.3	7.3	-33.88	108.1	306.1	258.1	250.1	8.07	32.006			
2,400.0	2,397.6	2,367.9	2,331.4	4.5	7.7	-33.76	115.8	328.5	277.5	269.1	8.42	32.942			
2,500.0	2,497.4	2,466.1	2,426.6	4.7	8.2	-33.66	123.5	350.8	296.9	288.1	8.78	33.802			
2,600.0	2,597.3	2,564.2	2,521.8	4.9	8.6	-33.57	131.2	373.2	316.3	307.1	9.14	34.594			
2,700.0	2,697.1	2,662.3	2,617.0	5.1	9.1	-33.48	138.9	395.6	335.7	326.2	9.50	35.327			
2,800.0	2,797.0	2,760.4	2,712.2	5.3	9.5	-33.41	146.6	417.9	355.0	345.2	9.86	36.005			
2,900.0	2,896.8	2,858.5	2,807.4	5.5	10.0	-33.35	154.3	440.3	374.4	364.2	10.22	36.636			
3,000.0	2,996.7	2,956.6	2,902.6	5.7	10.4	-33.29	162.0	462.7	393.8	383.2	10.58	37.225			
3,100.0	3,096.5	3,054.7	2,997.8	5.9	10.9	-33.24	169.7	485.0	413.2	402.2	10.94	37.774			
3,200.0	3,196.4	3,152.8	3,093.1	6.1	11.3	-33.19	177.5	507.4	432.5	421.2	11.30	38.288			
3,300.0	3,296.2	3,250.9	3,188.3	6.3	11.8	-33.15	185.2	529.8	451.9	440.3	11.66	38.771			
3,400.0	3,396.1	3,349.0	3,283.5	6.5	12.2	-33.11	192.9	552.1	471.3	459.3	12.02	39.225			
3,500.0	3,495.9	3,447.1	3,378.7	6.7	12.7	-33.07	200.6	574.5	490.7	478.3	12.37	39.652			
3,600.0	3,595.7	3,545.2	3,473.9	6.9	13.1	-33.04	208.3	596.9	510.1	497.3	12.73	40.055			
3,700.0	3,695.6	3,643.3	3,569.1	7.1	13.6	-33.01	216.0	619.2	529.4	516.3	13.09	40.436			
3,800.0	3,795.4	3,741.4	3,664.3	7.3	14.1	-32.98	223.7	641.6	548.8	535.4	13.45	40.796			
3,900.0	3,895.3	3,839.5	3,759.5	7.4	14.5	-32.95	231.4	664.0	568.2	554.4	13.81	41.138			
4,000.0	3,995.1	3,937.6	3,854.7	7.6	15.0	-32.92	239.1	686.4	587.6	573.4	14.17	41.463			
4,100.0	4,095.0	4,035.7	3,949.9	7.8	15.4	-32.90	246.8	708.7	607.0	592.4	14.53	41.771			
4,200.0	4,194.8	4,133.8	4,045.1	8.0	15.9	-32.88	254.5	731.1	626.3	611.5	14.89	42.064			
4,300.0	4,294.7	4,231.9	4,140.3	8.2	16.3	-32.86	262.2	753.5	645.7	630.5	15.25	42.344			
4,400.0	4,394.5	4,330.0	4,235.6	8.4	16.8	-32.84	269.9	775.8	665.1	649.5	15.61	42.611			
4,500.0	4,494.4	4,428.1	4,330.8	8.6	17.2	-32.82	277.6	798.2	684.5	668.5	15.97	42.865			
4,600.0	4,594.2	4,526.2	4,426.0	8.8	17.7	-32.80	285.4	820.6	703.9	687.5	16.33	43.109			
4,700.0	4,694.1	4,624.3	4,521.2	9.0	18.2	-32.78	293.1	842.9	723.2	706.6	16.69	43.342			
4,800.0	4,793.9	4,722.4	4,616.4	9.2	18.6	-32.77	300.8	865.3	742.6	725.6	17.05	43.565			
4,900.0	4,893.8	4,820.5	4,711.6	9.4	19.1	-32.75	308.5	887.7	762.0	744.6	17.41	43.778			

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 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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 +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
5,000.0	4,993.6	4,918.6	4,806.8	9.6	19.5	-32.74	316.2	910.0	781.4	763.6	17.77	43.984				
5,100.0	5,093.5	5,016.7	4,902.0	9.8	20.0	-32.73	323.9	932.4	800.8	782.6	18.12	44.181				
5,200.0	5,193.3	5,114.9	4,997.2	10.0	20.4	-32.71	331.6	954.8	820.2	801.7	18.48	44.370				
5,300.0	5,293.2	5,213.0	5,092.4	10.2	20.9	-32.70	339.3	977.1	839.5	820.7	18.84	44.552				
5,400.0	5,393.0	5,311.1	5,187.6	10.4	21.3	-32.69	347.0	999.5	858.9	839.7	19.20	44.727				
5,500.0	5,492.8	5,409.2	5,282.8	10.6	21.8	-32.68	354.7	1,021.9	878.3	858.7	19.56	44.896				
5,600.0	5,592.7	5,507.3	5,378.0	10.8	22.3	-32.67	362.4	1,044.3	897.7	877.8	19.92	45.059				
5,700.0	5,692.5	5,605.4	5,473.3	11.0	22.7	-32.66	370.1	1,066.6	917.1	896.8	20.28	45.216				
5,800.0	5,792.4	5,703.5	5,568.5	11.2	23.2	-32.65	377.8	1,089.0	936.4	915.8	20.64	45.368				
5,900.0	5,892.2	5,801.6	5,663.7	11.4	23.6	-32.64	385.6	1,111.4	955.8	934.8	21.00	45.514				
6,000.0	5,992.1	5,899.7	5,758.9	11.6	24.1	-32.63	393.3	1,133.7	975.2	953.8	21.36	45.655				
6,100.0	6,091.9	5,997.8	5,854.1	11.8	24.5	-32.62	401.0	1,156.1	994.6	972.9	21.72	45.792				
6,200.0	6,191.8	6,095.9	5,949.3	12.0	25.0	-32.61	408.7	1,178.5	1,014.0	991.9	22.08	45.924				

Cathedral Energy Services

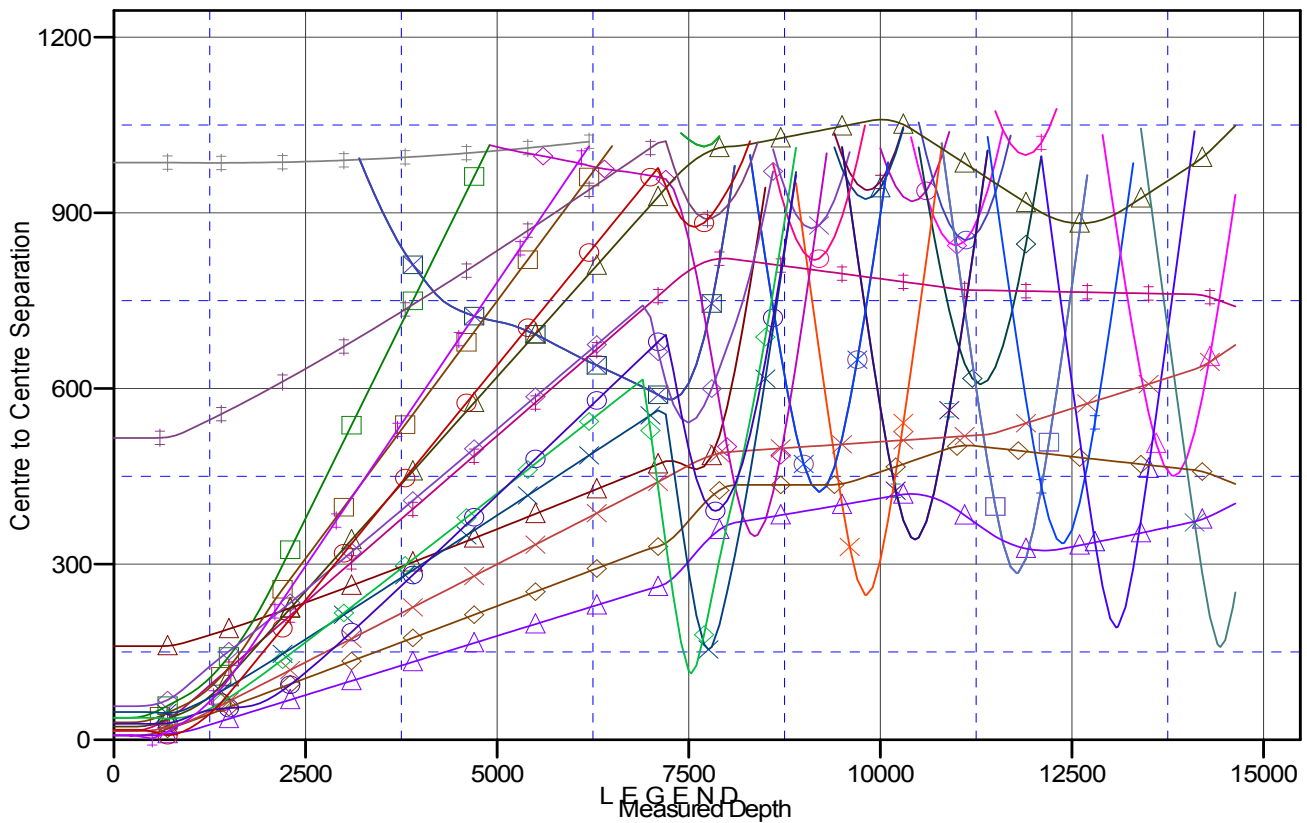
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-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 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	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 2C-7H-E168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.29°

Ladder Plot



STING), ENCANA WELL, SURVEYS V0	BEARDEN 23-6 (EXISTING), ENCANA WELL, GYRO V0	Woolley-Becky 2B-7H-E168, Hz, Plan #3
STING), ENCANA WELL, NO SURVEYS V0	BEARDEN 2-4-6 (EXISTING), ENCANA WELL, PLAN ONLY V0	Woolley-Becky 2D-7H-E168, Hz, Plan #3
STING), ENCANA WELL, SURVEYS V0	BEARDEN 2-8-6 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Becky 2E-7H-E168, Hz, Plan #3
ISTING), ENCANA WELL, SURVEYS V0	BECKY 2-6 (EXISTING), NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2F-7H-E168, Hz, Plan #3
V0	BECKY 4 (EXISTING), MARTIN EXP WELL, NO SURVEYS V0	Woolley-Becky 2G-7H-E168, Hz, Plan #3
#1 V0	BECKY 5-6 (EXISTING), FOUNDATION WELL, NO SURVEYS V0	Woolley-Becky 2H-7H-E168, Hz, Plan #3
Well), Existing, Existing V0	Thomas 7-12 (Existing), Existing, NO SURVEYS V0	Woolley-Sosa 2A-7H-E168, Hz, Plan #2
ig Well), DD, DD V0	WOOLLEY 11-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2B-7H-E168, Hz, Plan #2
g Well), DD, DD V0	WOOLLEY 12-7 (EXISTING), ENCANA WELL, NO SURVEYS V0	Woolley-Sosa 2C-7H-E168, Hz, Plan #2
in #1 V0	WOOLLEY 21-7 (EXISTING), ENCANA WELL, GYRO V0	Woolley-Sosa 2D-7H-E168, Hz, Plan #2
STING), ENCANA WELL, SURVEYS V0	WOOLLEY 22-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2E-7H-E168, Hz, Plan #3
IG), ENCANA WELL, SURVEYS V0	WOOLLEY 23-7 (EXISTING), ENCANA WELL, SURVEYS V0	

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