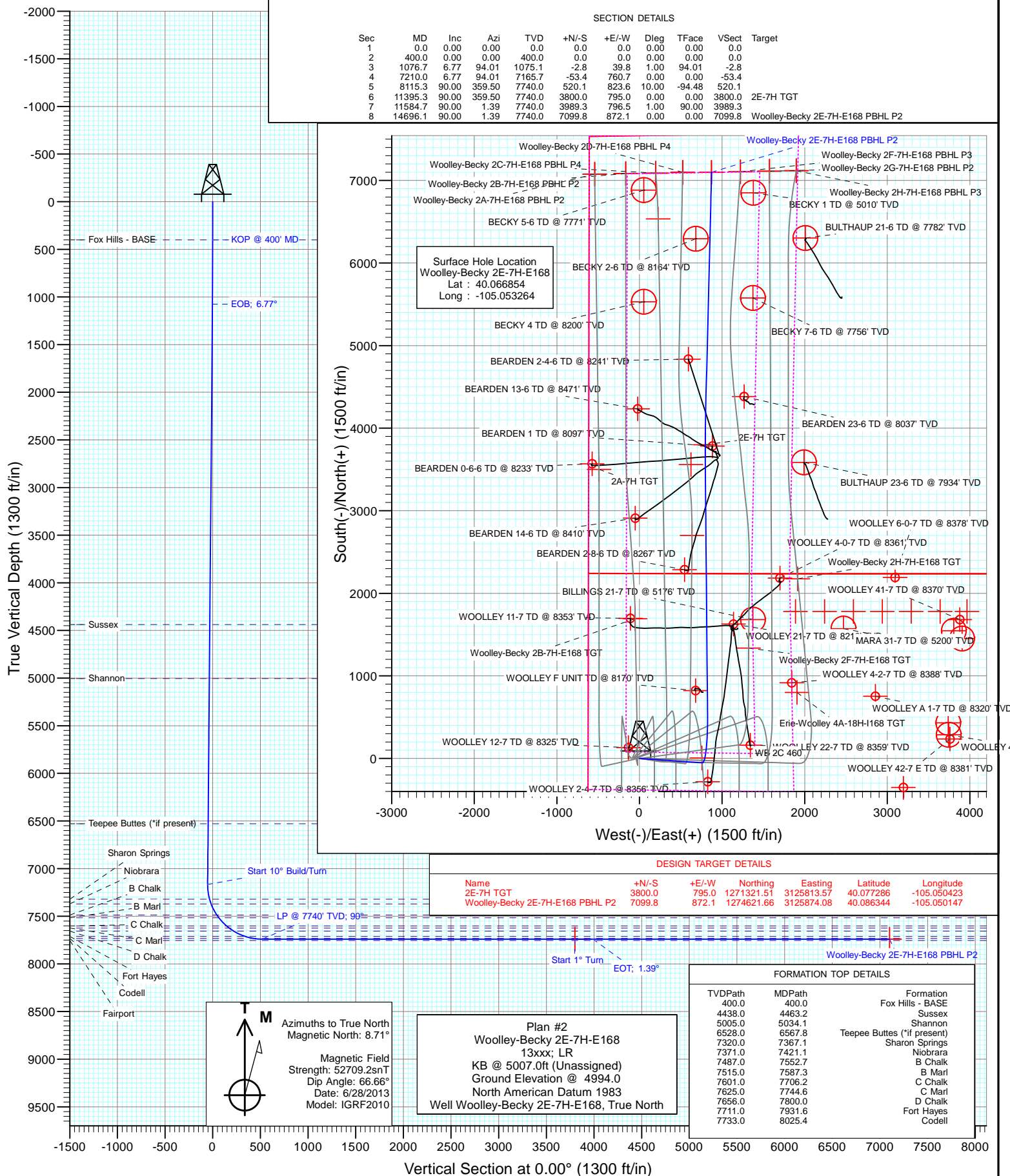




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2E-7H-E168
Wellbore: Hz
Design: Plan #2



Cathedral Energy Services

Planning Report

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

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

Site		S7-T1N-R68W (Woolley-Sosa/Becky/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 2E-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.56 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,125,037.73 ft	Longitude:	-105.053264
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 #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,076.7	6.77	94.01	1,075.1	-2.8	39.8	1.00	1.00	0.00	94.01	
7,210.0	6.77	94.01	7,165.7	-53.4	760.7	0.00	0.00	0.00	0.00	
8,115.3	90.00	359.50	7,740.0	520.1	823.6	10.00	9.19	-10.44	-94.48	
11,395.3	90.00	359.50	7,740.0	3,800.0	795.0	0.00	0.00	0.00	0.00	2E-7H TGT
11,584.7	90.00	1.39	7,740.0	3,989.3	796.5	1.00	0.00	1.00	90.00	
14,696.1	90.00	1.39	7,740.0	7,099.8	872.1	0.00	0.00	0.00	0.00	Woolley-Becky 2E-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400' MD - Fox Hills - BASE
500.0	1.00	94.01	500.0	-0.1	0.9	-0.1	1.00	1.00	
600.0	2.00	94.01	600.0	-0.2	3.5	-0.2	1.00	1.00	
700.0	3.00	94.01	699.9	-0.5	7.8	-0.5	1.00	1.00	
800.0	4.00	94.01	799.7	-1.0	13.9	-1.0	1.00	1.00	
900.0	5.00	94.01	899.4	-1.5	21.7	-1.5	1.00	1.00	
1,000.0	6.00	94.01	998.9	-2.2	31.3	-2.2	1.00	1.00	
1,076.7	6.77	94.01	1,075.1	-2.8	39.8	-2.8	1.00	1.00	EOB; 6.77°
1,100.0	6.77	94.01	1,098.3	-3.0	42.6	-3.0	0.00	0.00	
1,200.0	6.77	94.01	1,197.6	-3.8	54.3	-3.8	0.00	0.00	
1,300.0	6.77	94.01	1,296.9	-4.6	66.1	-4.6	0.00	0.00	
1,400.0	6.77	94.01	1,396.2	-5.5	77.8	-5.5	0.00	0.00	
1,500.0	6.77	94.01	1,495.5	-6.3	89.6	-6.3	0.00	0.00	
1,600.0	6.77	94.01	1,594.8	-7.1	101.3	-7.1	0.00	0.00	
1,700.0	6.77	94.01	1,694.1	-7.9	113.1	-7.9	0.00	0.00	
1,800.0	6.77	94.01	1,793.4	-8.8	124.8	-8.8	0.00	0.00	
1,900.0	6.77	94.01	1,892.7	-9.6	136.6	-9.6	0.00	0.00	
2,000.0	6.77	94.01	1,992.0	-10.4	148.3	-10.4	0.00	0.00	
2,100.0	6.77	94.01	2,091.3	-11.2	160.1	-11.2	0.00	0.00	
2,200.0	6.77	94.01	2,190.6	-12.1	171.8	-12.1	0.00	0.00	
2,300.0	6.77	94.01	2,289.9	-12.9	183.6	-12.9	0.00	0.00	
2,400.0	6.77	94.01	2,389.2	-13.7	195.4	-13.7	0.00	0.00	
2,500.0	6.77	94.01	2,488.5	-14.5	207.1	-14.5	0.00	0.00	
2,600.0	6.77	94.01	2,587.8	-15.4	218.9	-15.4	0.00	0.00	
2,700.0	6.77	94.01	2,687.1	-16.2	230.6	-16.2	0.00	0.00	
2,800.0	6.77	94.01	2,786.4	-17.0	242.4	-17.0	0.00	0.00	
2,900.0	6.77	94.01	2,885.7	-17.8	254.1	-17.8	0.00	0.00	
3,000.0	6.77	94.01	2,985.0	-18.7	265.9	-18.7	0.00	0.00	
3,100.0	6.77	94.01	3,084.3	-19.5	277.6	-19.5	0.00	0.00	
3,200.0	6.77	94.01	3,183.6	-20.3	289.4	-20.3	0.00	0.00	
3,300.0	6.77	94.01	3,282.9	-21.1	301.1	-21.1	0.00	0.00	
3,400.0	6.77	94.01	3,382.2	-22.0	312.9	-22.0	0.00	0.00	
3,500.0	6.77	94.01	3,481.5	-22.8	324.6	-22.8	0.00	0.00	
3,600.0	6.77	94.01	3,580.9	-23.6	336.4	-23.6	0.00	0.00	
3,700.0	6.77	94.01	3,680.2	-24.4	348.1	-24.4	0.00	0.00	
3,800.0	6.77	94.01	3,779.5	-25.3	359.9	-25.3	0.00	0.00	
3,900.0	6.77	94.01	3,878.8	-26.1	371.7	-26.1	0.00	0.00	
4,000.0	6.77	94.01	3,978.1	-26.9	383.4	-26.9	0.00	0.00	
4,100.0	6.77	94.01	4,077.4	-27.7	395.2	-27.7	0.00	0.00	
4,200.0	6.77	94.01	4,176.7	-28.6	406.9	-28.6	0.00	0.00	
4,300.0	6.77	94.01	4,276.0	-29.4	418.7	-29.4	0.00	0.00	
4,400.0	6.77	94.01	4,375.3	-30.2	430.4	-30.2	0.00	0.00	
4,463.2	6.77	94.01	4,438.0	-30.7	437.8	-30.7	0.00	0.00	Sussex
4,500.0	6.77	94.01	4,474.6	-31.0	442.2	-31.0	0.00	0.00	
4,600.0	6.77	94.01	4,573.9	-31.9	453.9	-31.9	0.00	0.00	
4,700.0	6.77	94.01	4,673.2	-32.7	465.7	-32.7	0.00	0.00	
4,800.0	6.77	94.01	4,772.5	-33.5	477.4	-33.5	0.00	0.00	
4,900.0	6.77	94.01	4,871.8	-34.3	489.2	-34.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	6.77	94.01	4,971.1	-35.2	500.9	-35.2	0.00	0.00	
5,034.1	6.77	94.01	5,005.0	-35.4	505.0	-35.4	0.00	0.00	Shannon
5,100.0	6.77	94.01	5,070.4	-36.0	512.7	-36.0	0.00	0.00	
5,200.0	6.77	94.01	5,169.7	-36.8	524.5	-36.8	0.00	0.00	
5,300.0	6.77	94.01	5,269.0	-37.6	536.2	-37.6	0.00	0.00	
5,400.0	6.77	94.01	5,368.3	-38.5	548.0	-38.5	0.00	0.00	
5,500.0	6.77	94.01	5,467.6	-39.3	559.7	-39.3	0.00	0.00	
5,600.0	6.77	94.01	5,566.9	-40.1	571.5	-40.1	0.00	0.00	
5,700.0	6.77	94.01	5,666.2	-40.9	583.2	-40.9	0.00	0.00	
5,800.0	6.77	94.01	5,765.5	-41.7	595.0	-41.7	0.00	0.00	
5,900.0	6.77	94.01	5,864.8	-42.6	606.7	-42.6	0.00	0.00	
6,000.0	6.77	94.01	5,964.1	-43.4	618.5	-43.4	0.00	0.00	
6,100.0	6.77	94.01	6,063.4	-44.2	630.2	-44.2	0.00	0.00	
6,200.0	6.77	94.01	6,162.7	-45.0	642.0	-45.0	0.00	0.00	
6,300.0	6.77	94.01	6,262.0	-45.9	653.7	-45.9	0.00	0.00	
6,400.0	6.77	94.01	6,361.3	-46.7	665.5	-46.7	0.00	0.00	
6,500.0	6.77	94.01	6,460.7	-47.5	677.2	-47.5	0.00	0.00	
6,567.8	6.77	94.01	6,528.0	-48.1	685.2	-48.1	0.00	0.00	Teepee Buttes (*if present)
6,600.0	6.77	94.01	6,560.0	-48.3	689.0	-48.3	0.00	0.00	
6,700.0	6.77	94.01	6,659.3	-49.2	700.8	-49.2	0.00	0.00	
6,800.0	6.77	94.01	6,758.6	-50.0	712.5	-50.0	0.00	0.00	
6,900.0	6.77	94.01	6,857.9	-50.8	724.3	-50.8	0.00	0.00	
7,000.0	6.77	94.01	6,957.2	-51.6	736.0	-51.6	0.00	0.00	
7,100.0	6.77	94.01	7,056.5	-52.5	747.8	-52.5	0.00	0.00	
7,200.0	6.77	94.01	7,155.8	-53.3	759.5	-53.3	0.00	0.00	
7,210.0	6.77	94.01	7,165.7	-53.4	760.7	-53.4	0.00	0.00	Start 10° Build/Turn
7,250.0	7.58	62.22	7,205.4	-52.3	765.4	-52.3	10.00	2.04	
7,300.0	10.81	37.78	7,254.8	-47.1	771.2	-47.1	10.00	6.46	
7,350.0	15.03	25.63	7,303.5	-37.5	776.9	-37.5	10.00	8.45	
7,367.1	16.58	22.91	7,320.0	-33.3	778.8	-33.3	10.00	9.02	Sharon Springs
7,400.0	19.62	18.88	7,351.2	-23.7	782.4	-23.7	10.00	9.25	
7,421.1	21.61	16.87	7,371.0	-16.6	784.7	-16.6	10.00	9.43	Niobrara
7,450.0	24.36	14.64	7,397.6	-5.8	787.7	-5.8	10.00	9.54	
7,500.0	29.19	11.72	7,442.2	16.1	792.8	16.1	10.00	9.65	
7,550.0	34.06	9.58	7,484.8	41.9	797.6	41.9	10.00	9.74	
7,552.7	34.32	9.48	7,487.0	43.4	797.9	43.4	10.00	9.78	B Chalk
7,587.3	37.72	8.30	7,515.0	63.5	801.0	63.5	10.00	9.80	B Marl
7,600.0	38.96	7.91	7,525.0	71.3	802.1	71.3	10.00	9.82	
7,650.0	43.88	6.56	7,562.4	104.1	806.2	104.1	10.00	9.84	
7,700.0	48.82	5.44	7,596.9	140.1	810.0	140.1	10.00	9.87	
7,706.2	49.43	5.31	7,601.0	144.8	810.5	144.8	10.00	9.88	C Chalk
7,744.6	53.23	4.57	7,625.0	174.6	813.0	174.6	10.00	9.89	C Marl
7,750.0	53.76	4.47	7,628.2	178.9	813.4	178.9	10.00	9.89	
7,800.0	58.71	3.62	7,656.0	220.4	816.3	220.4	9.99	9.89	D Chalk
7,850.0	63.66	2.86	7,680.1	264.1	818.8	264.1	10.01	9.92	
7,900.0	68.62	2.15	7,700.3	309.8	820.8	309.8	10.00	9.92	
7,931.6	71.76	1.73	7,711.0	339.5	821.8	339.5	10.00	9.92	Fort Hayes
7,950.0	73.58	1.50	7,716.5	357.1	822.3	357.1	10.00	9.92	
8,000.0	78.55	0.87	7,728.5	405.6	823.3	405.6	10.00	9.93	
8,025.4	81.07	0.57	7,733.0	430.5	823.6	430.5	10.00	9.93	Codell
8,050.0	83.51	0.27	7,736.3	454.9	823.8	454.9	10.00	9.93	
8,100.0	88.48	359.68	7,739.8	504.8	823.7	504.8	10.00	9.93	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,115.3	90.00	359.50	7,740.0	520.1	823.6	520.1	10.00	9.93	LP @ 7740' TVD; 90°
8,200.0	90.00	359.50	7,740.0	604.8	822.9	604.8	0.00	0.00	
8,300.0	90.00	359.50	7,740.0	704.8	822.0	704.8	0.00	0.00	
8,400.0	90.00	359.50	7,740.0	804.8	821.1	804.8	0.00	0.00	
8,500.0	90.00	359.50	7,740.0	904.8	820.3	904.8	0.00	0.00	
8,600.0	90.00	359.50	7,740.0	1,004.8	819.4	1,004.8	0.00	0.00	
8,700.0	90.00	359.50	7,740.0	1,104.8	818.5	1,104.8	0.00	0.00	
8,800.0	90.00	359.50	7,740.0	1,204.8	817.6	1,204.8	0.00	0.00	
8,900.0	90.00	359.50	7,740.0	1,304.8	816.8	1,304.8	0.00	0.00	
9,000.0	90.00	359.50	7,740.0	1,404.8	815.9	1,404.8	0.00	0.00	
9,100.0	90.00	359.50	7,740.0	1,504.7	815.0	1,504.7	0.00	0.00	
9,200.0	90.00	359.50	7,740.0	1,604.7	814.2	1,604.7	0.00	0.00	
9,300.0	90.00	359.50	7,740.0	1,704.7	813.3	1,704.7	0.00	0.00	
9,400.0	90.00	359.50	7,740.0	1,804.7	812.4	1,804.7	0.00	0.00	
9,500.0	90.00	359.50	7,740.0	1,904.7	811.5	1,904.7	0.00	0.00	
9,600.0	90.00	359.50	7,740.0	2,004.7	810.7	2,004.7	0.00	0.00	
9,700.0	90.00	359.50	7,740.0	2,104.7	809.8	2,104.7	0.00	0.00	
9,800.0	90.00	359.50	7,740.0	2,204.7	808.9	2,204.7	0.00	0.00	
9,900.0	90.00	359.50	7,740.0	2,304.7	808.0	2,304.7	0.00	0.00	
10,000.0	90.00	359.50	7,740.0	2,404.7	807.2	2,404.7	0.00	0.00	
10,100.0	90.00	359.50	7,740.0	2,504.7	806.3	2,504.7	0.00	0.00	
10,200.0	90.00	359.50	7,740.0	2,604.7	805.4	2,604.7	0.00	0.00	
10,300.0	90.00	359.50	7,740.0	2,704.7	804.6	2,704.7	0.00	0.00	
10,400.0	90.00	359.50	7,740.0	2,804.7	803.7	2,804.7	0.00	0.00	
10,500.0	90.00	359.50	7,740.0	2,904.7	802.8	2,904.7	0.00	0.00	
10,600.0	90.00	359.50	7,740.0	3,004.7	801.9	3,004.7	0.00	0.00	
10,700.0	90.00	359.50	7,740.0	3,104.7	801.1	3,104.7	0.00	0.00	
10,800.0	90.00	359.50	7,740.0	3,204.7	800.2	3,204.7	0.00	0.00	
10,900.0	90.00	359.50	7,740.0	3,304.7	799.3	3,304.7	0.00	0.00	
11,000.0	90.00	359.50	7,740.0	3,404.7	798.4	3,404.7	0.00	0.00	
11,100.0	90.00	359.50	7,740.0	3,504.7	797.6	3,504.7	0.00	0.00	
11,200.0	90.00	359.50	7,740.0	3,604.7	796.7	3,604.7	0.00	0.00	
11,300.0	90.00	359.50	7,740.0	3,704.7	795.8	3,704.7	0.00	0.00	
11,395.3	90.00	359.50	7,740.0	3,800.0	795.0	3,800.0	0.00	0.00	Start 1° Turn
11,400.0	90.00	359.55	7,740.0	3,804.7	795.0	3,804.7	1.00	0.00	
11,500.0	90.00	0.55	7,740.0	3,904.7	795.0	3,904.7	1.00	0.00	
11,584.7	90.00	1.39	7,740.0	3,989.3	796.5	3,989.3	1.00	0.00	EOT; 1.39°
11,600.0	90.00	1.39	7,740.0	4,004.6	796.8	4,004.6	0.00	0.00	
11,700.0	90.00	1.39	7,740.0	4,104.6	799.3	4,104.6	0.00	0.00	
11,800.0	90.00	1.39	7,740.0	4,204.6	801.7	4,204.6	0.00	0.00	
11,900.0	90.00	1.39	7,740.0	4,304.6	804.1	4,304.6	0.00	0.00	
12,000.0	90.00	1.39	7,740.0	4,404.5	806.6	4,404.5	0.00	0.00	
12,100.0	90.00	1.39	7,740.0	4,504.5	809.0	4,504.5	0.00	0.00	
12,200.0	90.00	1.39	7,740.0	4,604.5	811.4	4,604.5	0.00	0.00	
12,300.0	90.00	1.39	7,740.0	4,704.4	813.9	4,704.4	0.00	0.00	
12,400.0	90.00	1.39	7,740.0	4,804.4	816.3	4,804.4	0.00	0.00	
12,500.0	90.00	1.39	7,740.0	4,904.4	818.7	4,904.4	0.00	0.00	
12,600.0	90.00	1.39	7,740.0	5,004.3	821.2	5,004.3	0.00	0.00	
12,700.0	90.00	1.39	7,740.0	5,104.3	823.6	5,104.3	0.00	0.00	
12,800.0	90.00	1.39	7,740.0	5,204.3	826.0	5,204.3	0.00	0.00	
12,900.0	90.00	1.39	7,740.0	5,304.3	828.5	5,304.3	0.00	0.00	
13,000.0	90.00	1.39	7,740.0	5,404.2	830.9	5,404.2	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
13,100.0	90.00	1.39	7,740.0	5,504.2	833.3	5,504.2	0.00	0.00	
13,200.0	90.00	1.39	7,740.0	5,604.2	835.8	5,604.2	0.00	0.00	
13,300.0	90.00	1.39	7,740.0	5,704.1	838.2	5,704.1	0.00	0.00	
13,400.0	90.00	1.39	7,740.0	5,804.1	840.6	5,804.1	0.00	0.00	
13,500.0	90.00	1.39	7,740.0	5,904.1	843.1	5,904.1	0.00	0.00	
13,600.0	90.00	1.39	7,740.0	6,004.1	845.5	6,004.1	0.00	0.00	
13,700.0	90.00	1.39	7,740.0	6,104.0	847.9	6,104.0	0.00	0.00	
13,800.0	90.00	1.39	7,740.0	6,204.0	850.3	6,204.0	0.00	0.00	
13,900.0	90.00	1.39	7,740.0	6,304.0	852.8	6,304.0	0.00	0.00	
14,000.0	90.00	1.39	7,740.0	6,403.9	855.2	6,403.9	0.00	0.00	
14,100.0	90.00	1.39	7,740.0	6,503.9	857.6	6,503.9	0.00	0.00	
14,200.0	90.00	1.39	7,740.0	6,603.9	860.1	6,603.9	0.00	0.00	
14,300.0	90.00	1.39	7,740.0	6,703.8	862.5	6,703.8	0.00	0.00	
14,400.0	90.00	1.39	7,740.0	6,803.8	864.9	6,803.8	0.00	0.00	
14,500.0	90.00	1.39	7,740.0	6,903.8	867.4	6,903.8	0.00	0.00	
14,600.0	90.00	1.39	7,740.0	7,003.8	869.8	7,003.8	0.00	0.00	
14,696.1	90.00	1.39	7,740.0	7,099.8	872.1	7,099.8	0.00	0.00	TD at 14696.1

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
2E-7H TGT - plan hits target center - Point	0.00	0.00	7,740.0	3,800.0	795.0	1,271,321.51	3,125,813.57	40.077286	-105.050423
Woolley-Becky 2E-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	7,099.8	872.1	1,274,621.66	3,125,874.08	40.086344	-105.050147
Woolley-Becky 2E-7H-E - plan misses target center by 63.0ft at 14694.6ft MD (7740.0 TVD, 7098.3 N, 872.1 E) - Point	0.00	0.00	7,803.0	7,098.3	871.3	1,274,620.19	3,125,873.25	40.086340	-105.050150

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	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 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,463.2	4,438.0	Sussex				
5,034.1	5,005.0	Shannon				
6,567.8	6,528.0	Teepee Buttes (*if present)				
7,367.1	7,320.0	Sharon Springs				
7,421.1	7,371.0	Niobrara				
7,552.7	7,487.0	B Chalk				
7,587.3	7,515.0	B Marl				
7,706.2	7,601.0	C Chalk				
7,744.6	7,625.0	C Marl				
7,800.0	7,656.0	D Chalk				
7,931.6	7,711.0	Fort Hayes				
8,025.4	7,733.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400' MD	
1,076.7	1,075.1	-2.8	39.8	EOB; 6.77°	
7,210.0	7,165.7	-53.4	760.7	Start 10° Build/Turn	
8,115.3	7,740.0	520.1	823.6	LP @ 7740' TVD; 90°	
11,395.3	7,740.0	3,800.0	795.0	Start 1° Turn	
11,584.7	7,740.0	3,989.3	796.5	EOT; 1.39°	
14,696.1	7,740.0	7,099.8	872.1	TD at 14696.1	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2E-7H-E168

Hz

Plan #2

Anticollision Report

10 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,280.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/9/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,696.1	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,168.3	7,980.5	1,372.4	1,293.0	17.277	CC
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,200.0	7,980.9	1,372.8	1,292.8	17.164	ES
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,584.7	7,985.5	1,437.2	1,350.0	16.493	SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,371.5	7,710.9	86.7	4.0	1.048	Level 2, CC, ES, SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,805.4	7,834.2	820.3	726.7	8.764	CC, ES
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,900.0	7,834.0	825.7	730.5	8.670	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,506.2	7,892.3	855.2	782.3	11.724	CC, ES
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,700.0	7,895.0	876.9	800.6	11.500	SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,975.3	7,701.8	457.4	363.9	4.892	CC, ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,000.0	7,702.9	458.0	364.1	4.877	SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,426.0	7,850.5	225.4	113.0	2.006	CC, ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,876.6	7,915.6	260.6	190.0	3.691	CC, ES
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,900.0	7,915.9	261.7	190.7	3.685	SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,885.5	7,693.0	171.1	44.6	1.352	Level 3, CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,107.6	7,697.0	781.7	668.6	6.915	CC, ES
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,200.0	7,697.0	787.1	672.5	6.865	SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,459.8	7,688.0	815.1	678.6	5.968	CC, ES
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,500.0	7,688.0	816.1	678.8	5.945	SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,186.0	7,694.0	538.1	423.7	4.703	CC
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,200.0	7,694.0	538.3	423.6	4.695	ES, SF
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,925.1	7,813.0	1,155.5	1,023.3	8.739	CC, ES
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	14,100.0	7,816.9	1,168.6	1,033.4	8.639	SF
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,167.7	7,846.1	1,193.2	1,109.4	14.239	CC
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,200.0	7,846.7	1,193.6	1,109.3	14.151	ES
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,500.0	7,852.0	1,237.6	1,147.9	13.796	SF
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,259.3	7,956.9	925.7	878.4	19.558	CC, ES
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,600.0	7,982.7	986.1	933.2	18.643	SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	400.0	488.0	187.4	185.9	122.690	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	8,050.0	7,824.3	1,010.4	980.4	33.702	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,208.3	7,783.8	318.3	272.0	6.881	CC, ES, SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,769.6	7,917.4	530.4	487.6	12.412	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,800.0	7,933.8	531.1	488.2	12.378	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,210.0	7,599.6	249.9	212.4	6.663	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,238.6	7,627.9	249.2	211.8	6.665	CC, ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,759.9	7,861.1	887.0	828.4	15.152	CC, ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	10,000.0	7,866.9	918.9	856.3	14.688	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,419.6	7,783.2	146.8	112.5	4.275	CC, ES, SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	200.0	200.0	40.0	39.4	61.314	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	14,696.1	14,682.3	1,415.1	1,161.5	5.580	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	300.0	300.0	29.9	28.9	29.893	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	14,696.1	14,422.4	1,067.5	820.0	4.313	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	400.0	400.0	19.9	18.5	14.710	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	14,696.1	14,601.0	674.2	420.7	2.659	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	400.0	400.0	10.1	8.7	7.459	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	14,696.1	14,455.0	424.4	213.0	2.007	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	300.0	300.0	10.1	9.1	10.064	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	14,696.1	14,305.7	423.4	212.0	2.003	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	233.3	233.3	19.9	19.1	25.840	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	300.0	299.8	20.1	19.1	20.058	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	14,696.1	14,837.2	700.1	445.1	2.746	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	200.0	200.0	29.9	29.3	45.882	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	14,696.1	14,578.4	1,035.5	789.7	4.213	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	300.0	300.0	99.9	98.9	99.736	CC, ES

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	8,500.0	7,350.0	1,243.5	1,209.8	36.867	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	400.0	400.0	90.1	88.8	66.713	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	7,950.0	7,729.5	657.1	627.4	22.072	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	400.0	400.0	80.0	78.7	59.255	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	7,550.0	7,834.5	358.0	331.1	13.296	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	400.0	400.0	70.0	68.6	51.796	CC
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	7,832.4	7,895.6	88.0	59.6	3.103	ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	7,850.0	7,885.0	89.1	60.2	3.079	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	851.2	855.8	54.5	51.5	18.352	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	900.0	905.0	54.6	51.4	17.292	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	1,700.0	1,704.6	78.2	70.4	10.007	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	942.2	946.4	34.7	31.3	10.138	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	1,000.0	1,004.4	34.9	31.2	9.427	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	1,300.0	1,304.1	42.3	36.7	7.623	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 46-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	14.65	3,634.0	949.8	3,756.1				
100.0	100.0	70.9	70.9	0.2	0.1	14.64	3,634.2	949.7	3,756.3	3,756.0	0.25	N/A	
200.0	200.0	157.1	157.1	0.3	0.3	14.64	3,634.8	949.3	3,756.8	3,756.2	0.58	6,496.294	
300.0	300.0	226.0	226.0	0.5	0.4	14.63	3,635.6	948.9	3,757.9	3,757.0	0.87	4,299.603	
400.0	400.0	320.3	320.2	0.7	0.5	14.61	3,637.5	947.9	3,759.5	3,758.3	1.22	3,093.562	
500.0	500.0	409.0	408.9	0.9	0.7	-79.44	3,639.7	945.7	3,761.1	3,759.6	1.55	2,424.778	
600.0	600.0	515.7	515.4	1.0	0.9	-79.56	3,643.4	940.4	3,762.7	3,760.8	1.94	1,941.291	
700.0	699.9	751.1	749.4	1.2	1.5	-80.11	3,649.3	915.5	3,761.6	3,758.9	2.69	1,400.011	
800.0	799.7	844.2	841.7	1.4	1.7	-80.41	3,650.6	903.6	3,758.9	3,755.7	3.13	1,202.036	
900.0	899.4	916.1	913.0	1.6	1.9	-80.66	3,652.0	894.2	3,756.4	3,752.9	3.53	1,063.577	
1,000.0	998.9	1,177.6	1,171.1	1.8	2.7	-81.69	3,654.9	853.0	3,753.0	3,748.4	4.58	819.502	
1,076.7	1,075.1	1,263.3	1,255.4	2.0	3.0	-82.12	3,653.9	837.2	3,747.8	3,742.7	5.06	740.340	
1,100.0	1,098.3	1,285.7	1,277.3	2.1	3.1	-82.22	3,653.7	833.0	3,746.2	3,741.0	5.20	720.419	
1,200.0	1,197.6	1,396.4	1,385.8	2.3	3.6	-82.74	3,652.5	810.8	3,739.4	3,733.5	5.87	637.082	
1,300.0	1,296.9	1,531.2	1,516.9	2.6	4.2	-83.44	3,651.0	779.5	3,732.1	3,725.4	6.71	556.162	
1,400.0	1,396.2	1,728.9	1,706.2	2.8	5.2	-84.63	3,647.2	722.7	3,723.5	3,715.5	8.02	464.512	
1,500.0	1,495.5	1,855.0	1,825.0	3.1	6.0	-85.48	3,642.9	680.8	3,712.9	3,703.9	9.04	410.778	
1,600.0	1,594.8	1,941.0	1,905.5	3.3	6.5	-86.08	3,640.3	650.5	3,703.0	3,693.1	9.85	375.862	
1,700.0	1,694.1	2,047.6	2,005.1	3.6	7.2	-86.83	3,636.9	612.7	3,693.4	3,682.6	10.81	341.755	
1,800.0	1,793.4	2,133.0	2,084.8	3.9	7.8	-87.45	3,633.9	582.0	3,684.1	3,672.5	11.64	316.609	
1,900.0	1,892.7	2,201.9	2,149.1	4.1	8.3	-87.94	3,631.8	557.4	3,675.7	3,663.4	12.36	297.491	
2,000.0	1,992.0	2,298.3	2,239.2	4.4	8.9	-88.63	3,628.8	523.4	3,667.9	3,654.7	13.25	276.729	
2,100.0	2,091.3	2,369.0	2,305.4	4.7	9.4	-89.13	3,626.8	498.7	3,661.0	3,647.0	13.98	261.804	
2,200.0	2,190.6	2,470.0	2,400.0	4.9	10.0	-89.85	3,624.0	463.5	3,654.6	3,639.7	14.92	245.022	
2,300.0	2,289.9	2,567.9	2,491.8	5.2	10.7	-90.55	3,620.9	429.4	3,648.6	3,632.8	15.83	230.486	
2,400.0	2,389.2	2,689.6	2,605.7	5.5	11.5	-91.42	3,616.5	386.7	3,642.7	3,625.7	16.91	215.467	
2,500.0	2,488.5	2,767.0	2,678.2	5.7	12.0	-91.97	3,613.3	360.0	3,636.8	3,619.2	17.68	205.716	
2,600.0	2,587.8	2,825.0	2,732.7	6.0	12.4	-92.38	3,611.2	340.2	3,632.2	3,613.8	18.32	198.215	
2,700.0	2,687.1	2,884.0	2,788.1	6.3	12.7	-92.80	3,609.8	320.1	3,629.0	3,610.0	18.98	191.243	
2,800.0	2,786.4	2,958.9	2,858.7	6.5	13.2	-93.32	3,608.4	295.0	3,626.9	3,607.2	19.71	183.997	
2,900.0	2,885.7	3,099.3	2,990.6	6.8	14.1	-94.32	3,604.2	247.0	3,624.1	3,603.2	20.92	173.249	
3,000.0	2,985.0	3,158.3	3,045.7	7.1	14.5	-94.75	3,602.6	226.1	3,622.3	3,600.7	21.59	167.810	
3,100.0	3,084.3	3,227.0	3,109.9	7.3	15.0	-95.26	3,601.2	201.6	3,621.7	3,599.4	22.32	162.253	
3,102.5	3,086.8	3,227.0	3,109.9	7.3	15.0	-95.26	3,601.2	201.6	3,621.7	3,599.4	22.33	162.204	
3,200.0	3,183.6	3,312.2	3,189.6	7.6	15.6	-95.88	3,599.8	171.6	3,622.1	3,598.9	23.15	156.461	
3,300.0	3,282.9	3,401.7	3,273.5	7.9	16.2	-96.52	3,598.3	140.5	3,623.0	3,599.0	24.01	150.908	
3,400.0	3,382.2	3,507.6	3,372.8	8.1	16.9	-97.28	3,596.3	103.8	3,624.3	3,599.3	24.97	145.155	
3,500.0	3,481.5	3,655.0	3,510.9	8.4	17.8	-98.35	3,591.9	52.4	3,625.2	3,599.0	26.21	138.334	
3,600.0	3,580.9	3,735.4	3,586.2	8.7	18.4	-98.93	3,588.9	24.2	3,626.0	3,599.0	27.00	134.294	
3,700.0	3,680.2	3,827.0	3,672.0	9.0	19.0	-99.59	3,585.5	-7.6	3,627.4	3,599.5	27.86	130.211	
3,800.0	3,779.5	3,884.0	3,725.5	9.2	19.4	-100.00	3,583.6	-27.4	3,629.7	3,601.2	28.49	127.393	
3,900.0	3,878.8	3,957.4	3,794.2	9.5	19.8	-100.53	3,581.9	-52.9	3,633.5	3,604.3	29.23	124.297	
4,000.0	3,978.1	4,070.6	3,900.1	9.8	20.6	-101.34	3,578.9	-92.7	3,637.6	3,607.4	30.23	120.321	
4,100.0	4,077.4	4,145.8	3,970.3	10.0	21.1	-101.89	3,576.6	-119.5	3,642.0	3,611.0	31.00	117.495	
4,200.0	4,176.7	4,224.5	4,043.5	10.3	21.7	-102.48	3,574.5	-148.5	3,647.4	3,615.7	31.80	114.705	
4,300.0	4,276.0	4,311.3	4,123.9	10.6	22.3	-103.13	3,572.1	-181.1	3,653.6	3,620.9	32.65	111.916	
4,400.0	4,375.3	4,462.5	4,264.8	10.8	23.3	-104.24	3,567.0	-235.6	3,659.5	3,625.7	33.87	108.040	
4,500.0	4,474.6	4,541.6	4,338.8	11.1	23.9	-104.81	3,563.8	-263.4	3,665.4	3,630.7	34.63	105.838	
4,600.0	4,573.9	4,599.0	4,392.4	11.4	24.3	-105.22	3,561.8	-283.8	3,672.3	3,637.0	35.26	104.161	
4,700.0	4,673.2	4,684.0	4,471.9	11.7	24.8	-105.83	3,559.3	-314.0	3,680.3	3,644.3	36.04	102.116	
4,800.0	4,772.5	4,770.0	4,552.7	11.9	25.4	-106.42	3,557.2	-343.4	3,688.9	3,652.1	36.79	100.265	
4,900.0	4,871.8	4,845.7	4,624.2	12.2	25.9	-106.93	3,555.6	-368.3	3,698.2	3,660.7	37.47	98.693	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 46-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,000.0	4,971.1	4,947.6	4,720.8	12.5	26.5	-107.58	3,554.1	-400.3	3,708.1	3,669.9	38.25	96.948	
5,100.0	5,070.4	5,060.9	4,829.5	12.7	27.0	-108.26	3,552.8	-432.4	3,717.9	3,678.9	39.01	95.296	
5,200.0	5,169.7	5,218.9	4,982.6	13.0	27.8	-109.11	3,550.9	-471.6	3,727.3	3,687.4	39.88	93.457	
5,300.0	5,269.0	5,323.2	5,084.5	13.3	28.2	-109.62	3,549.5	-493.7	3,735.8	3,695.3	40.48	92.285	
5,400.0	5,368.3	5,415.6	5,175.2	13.5	28.5	-110.03	3,548.7	-511.1	3,744.4	3,703.4	41.01	91.312	
5,500.0	5,467.6	5,551.8	5,309.6	13.8	28.9	-110.58	3,548.5	-532.8	3,753.1	3,711.5	41.59	90.250	
5,600.0	5,566.9	5,684.5	5,441.3	14.1	29.2	-111.04	3,548.4	-549.4	3,761.0	3,719.0	42.09	89.363	
5,700.0	5,666.2	5,818.7	5,575.0	14.4	29.5	-111.43	3,548.0	-560.9	3,767.7	3,725.1	42.53	88.591	
5,800.0	5,765.5	5,979.9	5,736.0	14.6	29.7	-111.84	3,547.1	-570.0	3,773.2	3,730.3	42.94	87.863	
5,900.0	5,864.8	6,081.0	5,837.0	14.9	29.8	-112.06	3,546.4	-573.3	3,778.1	3,734.8	43.28	87.302	
6,000.0	5,964.1	6,206.7	5,962.6	15.2	29.9	-112.31	3,545.4	-576.3	3,782.5	3,738.9	43.61	86.737	
6,100.0	6,063.4	6,285.8	6,041.7	15.4	30.0	-112.46	3,544.8	-577.5	3,786.8	3,742.9	43.91	86.243	
6,200.0	6,162.7	6,355.8	6,111.7	15.7	30.0	-112.59	3,544.9	-578.5	3,791.9	3,747.7	44.20	85.791	
6,300.0	6,262.0	6,433.1	6,189.0	16.0	30.1	-112.73	3,545.6	-579.3	3,797.7	3,753.2	44.49	85.362	
6,400.0	6,361.3	6,522.0	6,277.9	16.2	30.2	-112.88	3,546.9	-580.1	3,804.0	3,759.2	44.78	84.947	
6,500.0	6,460.7	6,619.5	6,375.4	16.5	30.2	-113.04	3,548.6	-580.7	3,810.4	3,765.4	45.08	84.532	
6,600.0	6,560.0	6,727.1	6,483.0	16.8	30.3	-113.21	3,550.3	-581.4	3,816.8	3,771.4	45.38	84.110	
6,700.0	6,659.3	6,844.0	6,599.8	17.1	30.4	-113.40	3,551.8	-581.9	3,822.9	3,777.2	45.68	83.688	
6,800.0	6,758.6	6,955.9	6,711.7	17.3	30.5	-113.58	3,552.9	-582.1	3,828.5	3,782.6	45.98	83.264	
6,900.0	6,857.9	7,058.7	6,814.5	17.6	30.5	-113.74	3,553.7	-582.2	3,834.1	3,787.8	46.28	82.846	
7,000.0	6,957.2	7,142.9	6,898.7	17.9	30.6	-113.88	3,554.4	-582.4	3,839.7	3,793.1	46.57	82.447	
7,100.0	7,056.5	7,220.6	6,976.4	18.1	30.7	-114.00	3,555.4	-582.7	3,845.9	3,799.0	46.86	82.069	
7,200.0	7,155.8	7,344.6	7,100.4	18.4	30.7	-114.20	3,557.4	-583.0	3,852.4	3,805.2	47.15	81.705	
7,210.0	7,165.7	7,361.0	7,116.8	18.4	30.8	-114.22	3,557.6	-582.9	3,852.9	3,805.8	47.18	81.667	
7,250.0	7,205.4	7,426.2	7,182.0	18.5	30.8	-82.74	3,558.2	-582.2	3,853.8	3,806.5	47.26	81.540	
7,300.0	7,254.8	7,474.2	7,230.0	18.7	30.8	-58.78	3,558.6	-581.4	3,851.0	3,803.9	47.07	81.815	
7,350.0	7,303.5	7,520.9	7,276.7	18.8	30.8	-47.27	3,559.0	-580.6	3,844.2	3,797.6	46.56	82.560	
7,400.0	7,351.2	7,566.7	7,322.4	18.9	30.8	-41.34	3,559.5	-579.7	3,833.4	3,787.6	45.75	83.788	
7,450.0	7,397.6	7,616.4	7,372.1	19.0	30.9	-38.14	3,560.0	-578.8	3,818.7	3,774.0	44.66	85.512	
7,500.0	7,442.2	7,677.2	7,433.0	19.2	30.9	-36.54	3,560.4	-577.8	3,800.1	3,756.8	43.31	87.746	
7,550.0	7,484.8	7,734.8	7,490.6	19.3	31.0	-35.99	3,560.4	-577.2	3,777.6	3,735.9	41.72	90.541	
7,600.0	7,525.0	7,771.0	7,526.7	19.5	31.0	-36.14	3,560.3	-576.9	3,751.6	3,711.7	39.95	93.917	
7,650.0	7,562.4	7,809.4	7,565.1	19.6	31.0	-37.00	3,560.1	-576.7	3,722.4	3,684.4	38.03	97.887	
7,700.0	7,596.9	7,835.6	7,591.4	19.8	31.0	-38.44	3,560.0	-576.5	3,690.4	3,654.3	36.05	102.376	
7,750.0	7,628.2	7,859.6	7,615.3	20.0	31.0	-40.57	3,560.1	-576.4	3,655.6	3,621.5	34.10	107.216	
7,800.0	7,656.0	7,881.0	7,636.7	20.3	31.0	-43.48	3,560.1	-576.2	3,618.4	3,586.1	32.29	112.043	
7,850.0	7,680.1	7,899.7	7,655.4	20.5	31.1	-47.29	3,560.2	-576.0	3,579.1	3,548.3	30.80	116.222	
7,900.0	7,700.3	7,915.5	7,671.2	20.8	31.1	-52.21	3,560.3	-575.9	3,537.9	3,508.2	29.76	118.875	
7,950.0	7,716.5	7,942.0	7,697.7	21.1	31.1	-58.79	3,560.6	-575.7	3,495.3	3,465.9	29.37	119.007	
8,000.0	7,728.5	7,942.0	7,697.7	21.5	31.1	-66.25	3,560.6	-575.7	3,451.3	3,421.8	29.51	116.960	
8,050.0	7,736.3	7,942.0	7,697.7	21.9	31.1	-75.24	3,560.6	-575.7	3,406.5	3,376.4	30.05	113.367	
8,100.0	7,739.8	7,942.0	7,697.7	22.2	31.1	-85.55	3,560.6	-575.7	3,361.1	3,330.5	30.61	109.791	
8,115.3	7,740.0	7,942.0	7,697.7	22.4	31.1	-88.90	3,560.6	-575.7	3,347.1	3,316.4	30.73	108.917	
8,200.0	7,740.0	7,942.0	7,697.7	23.1	31.1	-88.90	3,560.6	-575.7	3,270.1	3,238.4	31.71	103.127	
8,300.0	7,740.0	7,942.0	7,697.7	24.1	31.1	-88.90	3,560.6	-575.7	3,179.6	3,146.6	32.95	96.500	
8,400.0	7,740.0	7,942.0	7,697.7	25.2	31.1	-88.90	3,560.6	-575.7	3,089.7	3,055.4	34.26	90.173	
8,500.0	7,740.0	7,952.2	7,708.0	26.3	31.1	-89.33	3,560.7	-575.6	3,000.4	2,964.8	35.65	84.156	
8,600.0	7,740.0	7,953.2	7,708.9	27.5	31.1	-89.37	3,560.7	-575.6	2,911.9	2,874.8	37.08	78.525	
8,700.0	7,740.0	7,954.2	7,709.9	28.7	31.1	-89.41	3,560.7	-575.6	2,824.1	2,785.5	38.55	73.253	
8,800.0	7,740.0	7,955.1	7,710.9	30.0	31.1	-89.45	3,560.7	-575.5	2,737.1	2,697.0	40.06	68.329	
8,900.0	7,740.0	7,956.1	7,711.8	31.4	31.1	-89.49	3,560.7	-575.5	2,651.1	2,609.5	41.59	63.739	
9,000.0	7,740.0	7,957.1	7,712.8	32.8	31.1	-89.53	3,560.7	-575.5	2,566.0	2,522.9	43.15	59.465	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU												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
9,100.0	7,740.0	7,958.1	7,713.8	34.2	31.1	-89.57	3,560.8	-575.5	2,482.1	2,437.4	44.73	55.488	
9,200.0	7,740.0	7,959.1	7,714.8	35.6	31.1	-89.62	3,560.8	-575.5	2,399.4	2,353.1	46.33	51.789	
9,300.0	7,740.0	7,960.1	7,715.8	37.1	31.1	-89.66	3,560.8	-575.5	2,318.1	2,270.2	47.94	48.350	
9,400.0	7,740.0	7,961.1	7,716.8	38.6	31.1	-89.70	3,560.8	-575.5	2,238.3	2,188.7	49.57	45.153	
9,500.0	7,740.0	7,962.1	7,717.8	40.1	31.1	-89.74	3,560.8	-575.5	2,160.2	2,109.0	51.21	42.183	
9,600.0	7,740.0	7,963.2	7,718.9	41.7	31.1	-89.79	3,560.8	-575.5	2,083.9	2,031.1	52.86	39.425	
9,700.0	7,740.0	7,964.2	7,719.9	43.2	31.1	-89.83	3,560.8	-575.5	2,009.8	1,955.3	54.52	36.866	
9,800.0	7,740.0	7,965.2	7,721.0	44.8	31.1	-89.87	3,560.8	-575.5	1,937.9	1,881.7	56.18	34.494	
9,900.0	7,740.0	7,966.3	7,722.0	46.4	31.1	-89.92	3,560.8	-575.4	1,868.7	1,810.8	57.85	32.300	
10,000.0	7,740.0	7,967.4	7,723.1	48.0	31.1	-89.96	3,560.9	-575.4	1,802.3	1,742.8	59.53	30.275	
10,100.0	7,740.0	7,968.4	7,724.2	49.6	31.1	-90.01	3,560.9	-575.4	1,739.2	1,677.9	61.22	28.410	
10,200.0	7,740.0	7,969.5	7,725.2	51.2	31.1	-90.05	3,560.9	-575.4	1,679.6	1,616.7	62.90	26.701	
10,300.0	7,740.0	7,970.6	7,726.3	52.8	31.1	-90.10	3,560.9	-575.4	1,624.0	1,559.4	64.60	25.140	
10,400.0	7,740.0	7,971.7	7,727.4	54.5	31.1	-90.14	3,560.9	-575.4	1,572.8	1,506.5	66.29	23.725	
10,500.0	7,740.0	7,972.8	7,728.5	56.1	31.1	-90.19	3,560.9	-575.4	1,526.5	1,458.5	68.00	22.450	
10,600.0	7,740.0	7,973.9	7,729.7	57.7	31.1	-90.24	3,560.9	-575.4	1,485.4	1,415.7	69.70	21.312	
10,700.0	7,740.0	7,975.1	7,730.8	59.4	31.1	-90.28	3,560.9	-575.4	1,450.1	1,378.7	71.41	20.308	
10,800.0	7,740.0	7,976.2	7,731.9	61.1	31.1	-90.33	3,561.0	-575.4	1,421.0	1,347.9	73.12	19.434	
10,900.0	7,740.0	7,977.4	7,733.1	62.7	31.1	-90.38	3,561.0	-575.3	1,398.4	1,323.6	74.83	18.688	
11,000.0	7,740.0	7,978.5	7,734.2	64.4	31.1	-90.43	3,561.0	-575.3	1,382.7	1,306.1	76.54	18.064	
11,100.0	7,740.0	7,979.7	7,735.4	66.1	31.1	-90.48	3,561.0	-575.3	1,374.1	1,295.8	78.26	17.558	
11,168.3	7,740.0	7,980.5	7,736.2	67.2	31.1	-90.51	3,561.0	-575.3	1,372.4	1,293.0	79.43	17.277 CC	
11,200.0	7,740.0	7,980.9	7,736.6	67.7	31.1	-90.53	3,561.0	-575.3	1,372.8	1,292.8	79.98	17.164 ES	
11,300.0	7,740.0	7,982.0	7,737.8	69.4	31.1	-90.57	3,561.0	-575.3	1,378.7	1,297.0	81.70	16.876	
11,395.3	7,740.0	7,983.2	7,738.9	71.0	31.1	-90.62	3,561.0	-575.3	1,391.1	1,307.7	83.34	16.691	
11,400.0	7,740.0	7,983.2	7,739.0	71.1	31.1	-90.63	3,561.0	-575.3	1,391.8	1,308.4	83.43	16.682	
11,500.0	7,740.0	7,984.5	7,740.2	72.8	31.1	-90.68	3,561.1	-575.3	1,412.8	1,327.4	85.44	16.536	
11,584.7	7,740.0	7,985.5	7,741.2	74.2	31.1	-90.73	3,561.1	-575.3	1,437.2	1,350.0	87.14	16.493 SF	
11,600.0	7,740.0	7,985.7	7,741.4	74.5	31.1	-90.73	3,561.1	-575.3	1,442.1	1,354.7	87.40	16.500	
11,700.0	7,740.0	7,987.0	7,742.7	76.2	31.1	-90.79	3,561.1	-575.3	1,478.2	1,389.1	89.13	16.585	
11,800.0	7,740.0	7,988.2	7,744.0	77.9	31.1	-90.84	3,561.1	-575.3	1,520.0	1,429.2	90.86	16.730	
11,900.0	7,740.0	7,989.5	7,745.2	79.6	31.1	-90.89	3,561.1	-575.2	1,567.1	1,474.5	92.59	16.926	
12,000.0	7,740.0	7,990.8	7,746.5	81.3	31.1	-90.95	3,561.1	-575.2	1,619.0	1,524.7	94.32	17.166	
12,100.0	7,740.0	7,992.1	7,747.8	83.0	31.1	-91.00	3,561.2	-575.2	1,675.3	1,579.2	96.05	17.442	
12,200.0	7,740.0	7,993.4	7,749.1	84.8	31.1	-91.06	3,561.2	-575.2	1,735.5	1,637.7	97.78	17.749	
12,300.0	7,740.0	7,994.7	7,750.5	86.5	31.1	-91.11	3,561.2	-575.2	1,799.2	1,699.7	99.51	18.081	
12,400.0	7,740.0	7,996.1	7,751.8	88.2	31.1	-91.17	3,561.2	-575.2	1,866.2	1,764.9	101.24	18.433	
12,500.0	7,740.0	7,997.4	7,753.2	89.9	31.1	-91.23	3,561.2	-575.2	1,935.9	1,833.0	102.98	18.800	
12,600.0	7,740.0	7,998.8	7,754.5	91.6	31.1	-91.28	3,561.2	-575.2	2,008.3	1,903.6	104.71	19.180	
12,700.0	7,740.0	8,000.2	7,755.9	93.3	31.1	-91.34	3,561.3	-575.2	2,082.9	1,976.5	106.44	19.568	
12,800.0	7,740.0	8,001.6	7,757.3	95.1	31.1	-91.40	3,561.3	-575.1	2,159.6	2,051.4	108.18	19.963	
12,900.0	7,740.0	8,003.0	7,758.7	96.8	31.1	-91.46	3,561.3	-575.1	2,238.1	2,128.2	109.91	20.362	
13,000.0	7,740.0	8,004.4	7,760.1	98.5	31.1	-91.52	3,561.3	-575.1	2,318.3	2,206.6	111.65	20.764	
13,100.0	7,740.0	8,005.8	7,761.5	100.2	31.1	-91.58	3,561.3	-575.1	2,400.0	2,286.6	113.39	21.166	
13,200.0	7,740.0	8,007.2	7,762.9	102.0	31.1	-91.64	3,561.3	-575.1	2,483.0	2,367.8	115.12	21.568	
13,300.0	7,740.0	8,008.7	7,764.4	103.7	31.1	-91.70	3,561.4	-575.1	2,567.2	2,450.3	116.86	21.968	
13,400.0	7,740.0	8,010.1	7,765.9	105.4	31.1	-91.76	3,561.4	-575.1	2,652.5	2,533.9	118.60	22.366	
13,500.0	7,740.0	8,011.6	7,767.3	107.2	31.1	-91.82	3,561.4	-575.1	2,738.8	2,618.5	120.33	22.760	
13,600.0	7,740.0	8,013.1	7,768.8	108.9	31.1	-91.89	3,561.4	-575.0	2,826.0	2,703.9	122.07	23.151	
13,700.0	7,740.0	8,014.6	7,770.3	110.6	31.1	-91.95	3,561.4	-575.0	2,914.0	2,790.2	123.81	23.537	
13,800.0	7,740.0	8,016.1	7,771.9	112.3	31.1	-92.01	3,561.5	-575.0	3,002.8	2,877.3	125.55	23.918	
13,900.0	7,740.0	8,017.7	7,773.4	114.1	31.1	-92.08	3,561.5	-575.0	3,092.3	2,965.0	127.28	24.294	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU			Offset Site Error:		0.0 ft
Survey Program:										46-Geolink MWD			Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
14,000.0	7,740.0	8,019.2	7,775.0	115.8	31.1	-92.14	3,561.5	-575.0	3,182.4	3,053.3	129.02	24.666			
14,100.0	7,740.0	8,020.8	7,776.5	117.5	31.1	-92.21	3,561.5	-575.0	3,273.0	3,142.3	130.76	25.031			
14,200.0	7,740.0	8,022.4	7,778.1	119.3	31.1	-92.28	3,561.6	-575.0	3,364.2	3,231.7	132.50	25.391			
14,300.0	7,740.0	8,024.0	7,779.7	121.0	31.1	-92.34	3,561.6	-575.0	3,455.9	3,321.7	134.23	25.745			
14,400.0	7,740.0	8,025.6	7,781.3	122.8	31.1	-92.41	3,561.6	-574.9	3,548.0	3,412.1	135.97	26.094			
14,500.0	7,740.0	8,027.2	7,782.9	124.5	31.1	-92.48	3,561.6	-574.9	3,640.6	3,502.9	137.71	26.437			
14,600.0	7,740.0	8,028.9	7,784.6	126.2	31.1	-92.55	3,561.6	-574.9	3,733.5	3,594.0	139.44	26.774			
14,696.1	7,740.0	8,030.5	7,786.2	127.9	31.1	-92.62	3,561.7	-574.9	3,823.1	3,682.0	141.11	27.092			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	14.61	3,647.9	950.9	3,769.9					
100.0	100.0	72.5	72.5	0.2	0.1	14.61	3,647.8	951.0	3,769.8	3,769.5	0.28	N/A		
171.8	171.8	140.7	140.7	0.3	0.2	14.61	3,647.7	951.2	3,769.7	3,769.2	0.52	7,212.190		
200.0	200.0	165.9	165.9	0.3	0.3	14.61	3,647.7	951.2	3,769.7	3,769.1	0.62	6,119.909		
300.0	300.0	262.0	262.0	0.5	0.5	14.61	3,648.0	950.7	3,769.9	3,768.9	0.96	3,934.025		
400.0	400.0	374.5	374.5	0.7	0.7	14.58	3,648.5	949.3	3,770.0	3,768.6	1.33	2,836.374		
500.0	500.0	463.1	463.1	0.9	0.8	-79.47	3,648.8	947.8	3,769.7	3,768.1	1.66	2,267.955		
550.8	550.8	500.0	500.0	0.9	0.9	-79.49	3,649.1	947.2	3,769.7	3,767.8	1.82	2,073.675		
600.0	600.0	535.8	535.7	1.0	0.9	-79.52	3,649.5	946.5	3,769.7	3,767.7	1.97	1,915.074		
700.0	699.9	600.0	599.9	1.2	1.1	-79.57	3,650.5	945.7	3,770.3	3,768.0	2.27	1,664.012		
800.0	799.7	667.2	667.1	1.4	1.2	-79.64	3,652.3	944.8	3,771.4	3,768.8	2.58	1,462.252		
900.0	899.4	735.6	735.5	1.6	1.3	-79.73	3,654.8	943.7	3,773.1	3,770.2	2.91	1,297.428		
1,000.0	998.9	811.1	810.9	1.8	1.4	-79.85	3,658.2	942.2	3,775.3	3,772.0	3.27	1,155.701		
1,076.7	1,075.1	895.8	895.5	2.0	1.6	-80.01	3,662.2	940.4	3,776.9	3,773.3	3.60	1,048.441		
1,100.0	1,098.3	919.3	918.9	2.1	1.6	-80.07	3,663.3	939.9	3,777.4	3,773.7	3.70	1,020.501		
1,200.0	1,197.6	1,020.2	1,019.7	2.3	1.8	-80.29	3,667.9	937.6	3,779.3	3,775.2	4.13	915.153		
1,300.0	1,296.9	1,125.7	1,125.0	2.6	2.0	-80.52	3,672.4	935.6	3,781.1	3,776.6	4.57	827.505		
1,400.0	1,396.2	1,222.5	1,221.8	2.8	2.2	-80.73	3,676.6	934.0	3,783.0	3,778.0	5.00	757.079		
1,500.0	1,495.5	1,336.4	1,335.6	3.1	2.4	-80.98	3,681.2	932.2	3,784.8	3,779.3	5.46	693.501		
1,600.0	1,594.8	1,443.5	1,442.6	3.3	2.6	-81.20	3,685.2	930.4	3,786.2	3,780.3	5.91	640.745		
1,700.0	1,694.1	1,536.1	1,535.0	3.6	2.8	-81.41	3,688.7	928.4	3,787.7	3,781.3	6.34	597.824		
1,800.0	1,793.4	1,632.5	1,631.4	3.9	3.0	-81.61	3,692.5	927.1	3,789.4	3,782.7	6.77	559.903		
1,900.0	1,892.7	1,738.6	1,737.4	4.1	3.2	-81.82	3,696.3	926.1	3,791.1	3,783.8	7.22	525.178		
2,000.0	1,992.0	1,831.2	1,830.0	4.4	3.4	-82.01	3,699.7	925.0	3,792.8	3,785.1	7.65	496.058		
2,100.0	2,091.3	1,934.3	1,933.0	4.7	3.6	-82.21	3,703.5	924.4	3,794.7	3,786.6	8.09	469.067		
2,200.0	2,190.6	2,057.7	2,056.3	4.9	3.8	-82.44	3,707.3	924.5	3,796.1	3,787.5	8.57	443.053		
2,300.0	2,289.9	2,200.0	2,198.6	5.2	4.0	-82.70	3,710.4	924.7	3,796.8	3,787.7	9.08	418.196		
2,400.0	2,389.2	2,285.4	2,284.0	5.5	4.2	-82.85	3,711.8	924.8	3,797.0	3,787.5	9.49	399.998		
2,500.0	2,488.5	2,432.5	2,431.0	5.7	4.4	-83.11	3,713.6	925.5	3,796.8	3,786.8	10.01	379.292		
2,600.0	2,587.8	2,527.3	2,525.9	6.0	4.6	-83.27	3,714.2	926.3	3,796.2	3,785.7	10.44	363.620		
2,700.0	2,687.1	2,612.9	2,611.4	6.3	4.7	-83.42	3,715.0	926.4	3,795.8	3,785.0	10.86	349.659		
2,800.0	2,786.4	2,715.8	2,714.4	6.5	4.9	-83.60	3,716.3	926.3	3,795.7	3,784.4	11.30	335.816		
2,900.0	2,885.7	2,854.9	2,853.4	6.8	5.1	-83.87	3,717.4	924.8	3,794.9	3,783.1	11.82	321.162		
3,000.0	2,985.0	2,972.3	2,970.8	7.1	5.4	-84.11	3,717.3	923.0	3,793.4	3,781.1	12.29	308.608		
3,100.0	3,084.3	3,059.9	3,058.4	7.3	5.5	-84.28	3,717.2	921.7	3,791.8	3,779.1	12.71	298.236		
3,200.0	3,183.6	3,152.3	3,150.8	7.6	5.7	-84.46	3,717.4	920.8	3,790.7	3,777.6	13.14	288.378		
3,300.0	3,282.9	3,257.4	3,255.9	7.9	5.8	-84.67	3,717.6	919.5	3,789.6	3,776.0	13.60	278.664		
3,400.0	3,382.2	3,379.2	3,377.7	8.1	6.1	-84.91	3,717.5	917.7	3,788.2	3,774.1	14.08	268.982		
3,500.0	3,481.5	3,483.7	3,482.2	8.4	6.2	-85.12	3,716.9	916.1	3,786.3	3,771.8	14.54	260.479		
3,600.0	3,580.9	3,571.1	3,569.5	8.7	6.4	-85.28	3,716.4	915.2	3,784.6	3,769.6	14.96	253.005		
3,700.0	3,680.2	3,647.5	3,646.0	9.0	6.5	-85.43	3,716.4	914.2	3,783.4	3,768.0	15.36	246.265		
3,800.0	3,779.5	3,739.2	3,737.7	9.2	6.7	-85.62	3,717.0	912.7	3,782.8	3,767.0	15.80	239.482		
3,900.0	3,878.8	3,848.8	3,847.3	9.5	6.9	-85.86	3,717.3	910.1	3,781.9	3,765.6	16.26	232.570		
4,000.0	3,978.1	3,936.8	3,935.2	9.8	7.0	-86.04	3,717.7	908.1	3,781.3	3,764.6	16.69	226.581		
4,100.0	4,077.4	4,037.6	4,036.0	10.0	7.2	-86.26	3,718.5	905.4	3,780.8	3,763.7	17.14	220.593		
4,200.0	4,176.7	4,139.6	4,137.9	10.3	7.4	-86.49	3,719.0	902.7	3,780.2	3,762.6	17.59	214.876		
4,300.0	4,276.0	4,227.0	4,225.3	10.6	7.5	-86.68	3,719.6	900.4	3,779.9	3,761.9	18.02	209.776		
4,400.0	4,375.3	4,324.9	4,323.2	10.8	7.7	-86.88	3,720.5	898.6	3,779.8	3,761.4	18.46	204.739		
4,500.0	4,474.6	4,428.3	4,426.5	11.1	7.9	-87.09	3,721.0	897.1	3,779.6	3,760.6	18.91	199.823		
4,519.4	4,493.8	4,442.2	4,440.4	11.2	7.9	-87.12	3,721.1	896.9	3,779.5	3,760.5	18.99	199.013		
4,600.0	4,573.9	4,500.0	4,498.2	11.4	8.0	-87.24	3,721.7	895.8	3,779.8	3,760.5	19.31	195.722		
4,700.0	4,673.2	4,615.8	4,614.0	11.7	8.2	-87.47	3,723.0	894.0	3,780.1	3,760.4	19.79	191.047		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV										Offset Site Error:		0.0 ft	
Survey Program: 100-MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,800.0	4,772.5	4,705.0	4,703.2	11.9	8.4	-87.65	3,724.0	892.8	3,780.5	3,760.3	20.21	187.026	
4,900.0	4,871.8	4,800.0	4,798.2	12.2	8.6	-87.84	3,724.9	891.5	3,781.0	3,760.3	20.65	183.085	
5,000.0	4,971.1	4,883.9	4,882.1	12.5	8.7	-88.01	3,726.0	890.6	3,781.7	3,760.6	21.07	179.495	
5,100.0	5,070.4	4,977.5	4,975.7	12.7	8.9	-88.19	3,727.6	889.9	3,783.0	3,761.5	21.50	175.931	
5,200.0	5,169.7	5,075.0	5,073.2	13.0	9.0	-88.38	3,729.4	889.1	3,784.4	3,762.4	21.94	172.459	
5,300.0	5,269.0	5,176.6	5,174.7	13.3	9.2	-88.58	3,731.2	888.2	3,785.8	3,763.4	22.39	169.062	
5,400.0	5,368.3	5,284.3	5,282.4	13.5	9.4	-88.79	3,733.1	886.5	3,787.1	3,764.2	22.85	165.714	
5,500.0	5,467.6	5,385.7	5,383.7	13.8	9.6	-89.00	3,734.6	885.0	3,788.3	3,765.0	23.30	162.570	
5,600.0	5,566.9	5,479.9	5,478.0	14.1	9.8	-89.19	3,736.1	883.8	3,789.5	3,765.8	23.74	159.642	
5,700.0	5,666.2	5,570.3	5,568.3	14.4	9.9	-89.37	3,737.7	882.8	3,791.0	3,766.9	24.17	156.865	
5,800.0	5,765.5	5,680.2	5,678.2	14.6	10.1	-89.59	3,739.7	881.1	3,792.7	3,768.0	24.63	153.980	
5,900.0	5,864.8	5,773.6	5,771.5	14.9	10.3	-89.77	3,741.2	880.1	3,794.1	3,769.0	25.06	151.371	
6,000.0	5,964.1	5,868.6	5,866.6	15.2	10.5	-89.96	3,742.9	878.7	3,795.8	3,770.3	25.50	148.837	
6,100.0	6,063.4	5,964.5	5,962.4	15.4	10.6	-90.16	3,744.8	876.8	3,797.6	3,771.7	25.94	146.380	
6,200.0	6,162.7	6,053.6	6,051.5	15.7	10.8	-90.35	3,746.6	875.1	3,799.7	3,773.3	26.37	144.087	
6,300.0	6,262.0	6,180.6	6,178.4	16.0	11.0	-90.60	3,749.2	873.9	3,801.8	3,774.9	26.86	141.533	
6,400.0	6,361.3	6,269.3	6,267.1	16.2	11.2	-90.76	3,750.4	873.7	3,803.4	3,776.1	27.28	139.400	
6,500.0	6,460.7	6,343.3	6,341.1	16.5	11.3	-90.88	3,751.9	874.3	3,805.5	3,777.8	27.68	137.488	
6,600.0	6,560.0	6,427.7	6,425.5	16.8	11.4	-91.01	3,754.0	875.9	3,808.4	3,780.3	28.09	135.571	
6,700.0	6,659.3	6,532.2	6,530.0	17.1	11.6	-91.17	3,756.5	877.4	3,811.1	3,782.5	28.54	133.537	
6,800.0	6,758.6	6,604.2	6,601.9	17.3	11.8	-91.29	3,758.6	878.1	3,814.3	3,785.4	28.93	131.835	
6,900.0	6,857.9	6,726.7	6,724.4	17.6	12.0	-91.50	3,762.1	878.9	3,817.4	3,788.0	29.41	129.786	
7,000.0	6,957.2	6,804.0	6,801.6	17.9	12.1	-91.63	3,764.4	879.1	3,820.7	3,790.9	29.82	128.144	
7,100.0	7,056.5	6,950.2	6,947.7	18.1	12.4	-91.89	3,768.5	879.5	3,824.1	3,793.7	30.34	126.053	
7,200.0	7,155.8	7,094.3	7,091.9	18.4	12.6	-92.13	3,770.3	880.4	3,825.6	3,794.8	30.85	123.997	
7,210.0	7,165.7	7,100.0	7,097.5	18.4	12.6	-92.14	3,770.3	880.5	3,825.8	3,794.9	30.89	123.854	
7,250.0	7,205.4	7,138.5	7,136.1	18.5	12.7	-60.64	3,770.7	880.9	3,824.9	3,793.9	31.01	123.326	
7,300.0	7,254.8	7,181.1	7,178.6	18.7	12.8	-36.54	3,771.1	881.2	3,820.0	3,789.0	31.00	123.242	
7,350.0	7,303.5	7,238.3	7,235.8	18.8	12.9	-24.75	3,771.8	881.5	3,810.9	3,780.1	30.82	123.648	
7,400.0	7,351.2	7,300.0	7,297.5	18.9	13.0	-18.35	3,772.2	881.5	3,797.3	3,766.8	30.47	124.612	
7,450.0	7,397.6	7,345.5	7,343.1	19.0	13.1	-14.42	3,772.5	881.3	3,779.5	3,749.6	29.92	126.302	
7,500.0	7,442.2	7,385.6	7,383.1	19.2	13.1	-11.80	3,772.7	881.1	3,757.7	3,728.5	29.20	128.685	
7,550.0	7,484.8	7,425.2	7,422.7	19.3	13.2	-9.93	3,773.1	880.9	3,732.2	3,703.9	28.32	131.770	
7,600.0	7,525.0	7,463.3	7,460.8	19.5	13.3	-8.52	3,773.4	880.7	3,703.1	3,675.8	27.31	135.618	
7,650.0	7,562.4	7,500.0	7,497.5	19.6	13.3	-7.41	3,773.7	880.5	3,670.5	3,644.4	26.16	140.289	
7,700.0	7,596.9	7,530.5	7,528.0	19.8	13.4	-6.48	3,774.1	880.4	3,634.8	3,609.9	24.92	145.889	
7,750.0	7,628.2	7,559.1	7,556.6	20.0	13.4	-5.66	3,774.4	880.5	3,596.3	3,572.7	23.59	152.426	
7,800.0	7,656.0	7,584.7	7,582.2	20.3	13.5	-4.87	3,774.7	880.7	3,555.1	3,532.9	22.23	159.916	
7,850.0	7,680.1	7,600.0	7,597.5	20.5	13.5	-4.03	3,774.8	880.8	3,511.7	3,490.8	20.86	168.351	
7,900.0	7,700.3	7,620.5	7,618.0	20.8	13.5	-3.05	3,775.1	881.1	3,466.2	3,446.7	19.55	177.311	
7,950.0	7,716.5	7,632.6	7,630.1	21.1	13.6	-1.71	3,775.3	881.2	3,419.2	3,400.9	18.35	186.348	
8,000.0	7,728.5	7,641.9	7,639.4	21.5	13.6	0.53	3,775.5	881.3	3,370.9	3,353.5	17.37	194.110	
8,050.0	7,736.3	7,648.2	7,645.7	21.9	13.6	5.51	3,775.6	881.4	3,321.7	3,304.8	16.90	196.546	
8,100.0	7,739.8	7,651.4	7,648.9	22.2	13.6	27.34	3,775.6	881.4	3,271.9	3,251.4	20.53	159.392	
8,115.3	7,740.0	7,651.7	7,649.2	22.4	13.6	55.25	3,775.6	881.4	3,256.6	3,229.4	27.13	120.027	
8,200.0	7,740.0	7,652.8	7,650.3	23.1	13.6	55.77	3,775.7	881.4	3,172.0	3,143.9	28.02	113.202	
8,300.0	7,740.0	7,654.2	7,651.7	24.1	13.6	56.39	3,775.7	881.4	3,072.0	3,042.9	29.15	105.375	
8,400.0	7,740.0	7,655.6	7,653.1	25.2	13.6	57.03	3,775.7	881.4	2,972.1	2,941.7	30.37	97.872	
8,500.0	7,740.0	7,657.0	7,654.5	26.3	13.6	57.69	3,775.7	881.5	2,872.1	2,840.5	31.65	90.739	
8,600.0	7,740.0	7,658.4	7,655.9	27.5	13.6	58.38	3,775.8	881.5	2,772.2	2,739.2	33.00	83.998	
8,700.0	7,740.0	7,659.8	7,657.3	28.7	13.6	59.08	3,775.8	881.5	2,672.3	2,637.8	34.41	77.653	
8,800.0	7,740.0	7,661.3	7,658.8	30.0	13.6	59.81	3,775.8	881.5	2,572.3	2,536.5	35.88	71.700	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.0	7,740.0	7,662.8	7,660.3	31.4	13.6	60.56	3,775.8	881.5	2,472.4	2,435.0	37.39	66.126	
9,000.0	7,740.0	7,664.3	7,661.8	32.8	13.6	61.34	3,775.9	881.5	2,372.5	2,333.5	38.95	60.913	
9,100.0	7,740.0	7,665.9	7,663.4	34.2	13.6	62.15	3,775.9	881.5	2,272.6	2,232.0	40.55	56.042	
9,200.0	7,740.0	7,667.5	7,665.0	35.6	13.6	62.98	3,775.9	881.6	2,172.7	2,130.5	42.19	51.491	
9,300.0	7,740.0	7,669.1	7,666.6	37.1	13.6	63.84	3,776.0	881.6	2,072.8	2,028.9	43.88	47.241	
9,400.0	7,740.0	7,670.7	7,668.2	38.6	13.6	64.72	3,776.0	881.6	1,972.9	1,927.3	45.59	43.270	
9,500.0	7,740.0	7,672.4	7,669.9	40.1	13.6	65.64	3,776.0	881.6	1,873.0	1,825.7	47.35	39.560	
9,600.0	7,740.0	7,674.1	7,671.6	41.7	13.6	66.59	3,776.1	881.6	1,773.2	1,724.0	49.13	36.090	
9,700.0	7,740.0	7,675.8	7,673.3	43.2	13.6	67.57	3,776.1	881.6	1,673.3	1,622.4	50.95	32.845	
9,800.0	7,740.0	7,677.6	7,675.1	44.8	13.6	68.59	3,776.1	881.7	1,573.5	1,520.7	52.79	29.807	
9,900.0	7,740.0	7,679.4	7,676.9	46.4	13.6	69.64	3,776.2	881.7	1,473.7	1,419.0	54.66	26.962	
10,000.0	7,740.0	7,681.3	7,678.8	48.0	13.6	70.72	3,776.2	881.7	1,373.9	1,317.3	56.55	24.296	
10,100.0	7,740.0	7,683.1	7,680.6	49.6	13.7	71.84	3,776.3	881.7	1,274.1	1,215.6	58.46	21.795	
10,200.0	7,740.0	7,685.1	7,682.5	51.2	13.7	73.00	3,776.3	881.7	1,174.4	1,114.0	60.39	19.447	
10,300.0	7,740.0	7,687.0	7,684.5	52.8	13.7	74.20	3,776.3	881.7	1,074.7	1,012.4	62.33	17.242	
10,400.0	7,740.0	7,689.0	7,686.5	54.5	13.7	75.43	3,776.4	881.8	975.1	910.8	64.29	15.168	
10,500.0	7,740.0	7,691.1	7,688.5	56.1	13.7	76.70	3,776.4	881.8	875.5	809.3	66.25	13.217	
10,600.0	7,740.0	7,693.1	7,690.6	57.7	13.7	78.02	3,776.5	881.8	776.1	707.9	68.21	11.379	
10,700.0	7,740.0	7,695.3	7,692.8	59.4	13.7	79.38	3,776.5	881.8	676.9	606.7	70.17	9.647	
10,800.0	7,740.0	7,700.0	7,697.5	61.1	13.7	82.43	3,776.6	881.8	577.9	505.5	72.39	7.983	
10,900.0	7,740.0	7,700.0	7,697.5	62.7	13.7	82.43	3,776.6	881.8	479.3	405.2	74.08	6.469	
11,000.0	7,740.0	7,702.0	7,699.5	64.4	13.7	83.77	3,776.7	881.9	381.4	305.4	75.97	5.020	
11,100.0	7,740.0	7,704.4	7,701.9	66.1	13.7	85.34	3,776.7	881.9	284.9	207.1	77.86	3.660	
11,200.0	7,740.0	7,706.8	7,704.3	67.7	13.7	86.91	3,776.8	881.9	192.1	112.4	79.70	2.410	
11,300.0	7,740.0	7,709.2	7,706.7	69.4	13.7	88.47	3,776.9	881.9	112.4	30.9	81.50	1.379	Level 3
11,371.5	7,740.0	7,710.9	7,708.4	70.6	13.7	89.59	3,776.9	881.9	86.7	4.0	82.76	1.048	Level 2, CC, ES, SF
11,395.3	7,740.0	7,711.5	7,708.9	71.0	13.7	89.96	3,776.9	881.9	89.9	6.8	83.17	1.082	Level 2
11,400.0	7,740.0	7,711.6	7,709.0	71.1	13.7	90.03	3,776.9	881.9	91.3	8.0	83.26	1.096	Level 2
11,500.0	7,740.0	7,713.9	7,711.4	72.8	13.7	91.56	3,777.0	882.0	154.5	69.3	85.19	1.813	
11,584.7	7,740.0	7,715.9	7,713.4	74.2	13.7	92.77	3,777.0	882.0	228.9	142.2	86.77	2.638	
11,600.0	7,740.0	7,716.3	7,713.7	74.5	13.7	93.00	3,777.0	882.0	243.1	156.0	87.02	2.793	
11,700.0	7,740.0	7,718.6	7,716.1	76.2	13.7	94.47	3,777.1	882.0	337.9	249.3	88.61	3.813	
11,800.0	7,740.0	7,720.9	7,718.4	77.9	13.7	95.92	3,777.1	882.0	435.0	344.9	90.14	4.826	
11,900.0	7,740.0	7,723.2	7,720.7	79.6	13.7	97.36	3,777.2	882.0	533.2	441.6	91.62	5.820	
12,000.0	7,740.0	7,725.5	7,723.0	81.3	13.7	98.78	3,777.2	882.0	632.0	538.9	93.04	6.792	
12,100.0	7,740.0	7,727.8	7,725.3	83.0	13.7	100.19	3,777.3	882.0	731.0	636.6	94.41	7.744	
12,200.0	7,740.0	7,730.1	7,727.6	84.8	13.7	101.57	3,777.3	882.0	830.3	734.6	95.71	8.676	
12,300.0	7,740.0	7,732.3	7,729.8	86.5	13.7	102.92	3,777.4	882.1	929.8	832.8	96.96	9.590	
12,400.0	7,740.0	7,734.6	7,732.1	88.2	13.7	104.26	3,777.4	882.1	1,029.3	931.2	98.14	10.488	
12,500.0	7,740.0	7,736.8	7,734.3	89.9	13.7	105.57	3,777.5	882.1	1,128.9	1,029.7	99.28	11.372	
12,600.0	7,740.0	7,739.0	7,736.5	91.6	13.8	106.86	3,777.5	882.1	1,228.6	1,128.3	100.35	12.243	
12,700.0	7,740.0	7,741.2	7,738.7	93.3	13.8	108.12	3,777.6	882.1	1,328.3	1,227.0	101.37	13.104	
12,800.0	7,740.0	7,743.4	7,740.9	95.1	13.8	109.35	3,777.6	882.1	1,428.1	1,325.8	102.34	13.954	
12,900.0	7,740.0	7,745.6	7,743.0	96.8	13.8	110.57	3,777.7	882.1	1,527.9	1,424.6	103.26	14.797	
13,000.0	7,740.0	7,747.7	7,745.2	98.5	13.8	111.75	3,777.7	882.1	1,627.7	1,523.6	104.13	15.632	
13,100.0	7,740.0	7,749.9	7,747.4	100.2	13.8	112.91	3,777.8	882.1	1,727.5	1,622.6	104.95	16.461	
13,200.0	7,740.0	7,752.0	7,749.5	102.0	13.8	114.04	3,777.8	882.1	1,827.4	1,721.6	105.72	17.285	
13,300.0	7,740.0	7,754.1	7,751.6	103.7	13.8	115.15	3,777.9	882.1	1,927.2	1,820.8	106.45	18.104	
13,400.0	7,740.0	7,756.2	7,753.7	105.4	13.8	116.23	3,777.9	882.1	2,027.1	1,920.0	107.14	18.919	
13,500.0	7,740.0	7,758.3	7,755.8	107.2	13.8	117.28	3,778.0	882.1	2,127.0	2,019.2	107.79	19.732	
13,600.0	7,740.0	7,760.4	7,757.9	108.9	13.8	118.31	3,778.0	882.1	2,226.9	2,118.5	108.41	20.542	
13,700.0	7,740.0	7,762.5	7,760.0	110.6	13.8	119.31	3,778.1	882.2	2,326.8	2,217.8	108.98	21.349	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error: 0.0 ft
Survey Program: 100-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,800.0	7,740.0	7,764.6	7,762.0	112.3	13.8	120.29	3,778.1	882.2	2,426.7	2,317.1	109.53	22.156	
13,900.0	7,740.0	7,766.6	7,764.1	114.1	13.8	121.25	3,778.2	882.2	2,526.6	2,416.5	110.04	22.960	
14,000.0	7,740.0	7,768.7	7,766.1	115.8	13.8	122.18	3,778.2	882.2	2,626.5	2,516.0	110.52	23.764	
14,100.0	7,740.0	7,770.7	7,768.1	117.5	13.8	123.08	3,778.2	882.2	2,726.4	2,615.4	110.98	24.567	
14,200.0	7,740.0	7,772.7	7,770.2	119.3	13.8	123.96	3,778.3	882.2	2,826.3	2,714.9	111.41	25.369	
14,300.0	7,740.0	7,774.7	7,772.2	121.0	13.8	124.82	3,778.3	882.2	2,926.3	2,814.4	111.81	26.172	
14,400.0	7,740.0	7,776.7	7,774.1	122.8	13.8	125.66	3,778.4	882.2	3,026.2	2,914.0	112.19	26.973	
14,500.0	7,740.0	7,778.7	7,776.1	124.5	13.8	126.48	3,778.4	882.2	3,126.1	3,013.6	112.55	27.775	
14,600.0	7,740.0	7,780.6	7,778.1	126.2	13.8	127.27	3,778.5	882.2	3,226.1	3,113.2	112.89	28.577	
14,696.1	7,740.0	7,782.5	7,780.0	127.9	13.8	128.02	3,778.5	882.2	3,322.1	3,208.9	113.20	29.347	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU											Offset Site Error:		0.0 ft
Survey Program: 765-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	14.92	3,670.5	977.8	3,798.5				
100.0	100.0	85.0	85.0	0.2	0.1	14.92	3,670.5	977.8	3,798.5	3,798.2	0.30	N/A	
200.0	200.0	185.0	185.0	0.3	0.3	14.92	3,670.5	977.8	3,798.5	3,797.8	0.64	5,911.773	
300.0	300.0	285.0	285.0	0.5	0.5	14.92	3,670.5	977.8	3,798.5	3,797.5	0.99	3,844.832	
400.0	400.0	385.0	385.0	0.7	0.7	14.92	3,670.5	977.8	3,798.5	3,797.1	1.33	2,848.802	
500.0	500.0	485.0	485.0	0.9	0.8	-79.11	3,670.5	977.8	3,798.3	3,796.6	1.68	2,261.859	
600.0	600.0	585.0	585.0	1.0	1.0	-79.16	3,670.5	977.8	3,797.8	3,795.8	2.03	1,872.670	
700.0	699.9	684.9	684.9	1.2	1.2	-79.23	3,670.5	977.8	3,797.0	3,794.6	2.38	1,593.574	
800.0	799.7	780.7	780.7	1.4	1.3	-79.33	3,670.5	977.7	3,795.9	3,793.1	2.74	1,385.119	
900.0	899.4	874.3	874.3	1.6	1.5	-79.45	3,670.8	977.4	3,794.6	3,791.5	3.11	1,220.147	
1,000.0	998.9	979.3	979.3	1.8	1.7	-79.63	3,671.0	976.6	3,792.9	3,789.3	3.52	1,078.873	
1,076.7	1,075.1	1,012.0	1,012.0	2.0	1.7	-79.70	3,671.2	976.2	3,791.8	3,788.0	3.75	1,009.900	
1,100.0	1,098.3	1,035.3	1,035.3	2.1	1.8	-79.75	3,671.6	975.7	3,791.5	3,787.6	3.85	984.254	
1,165.4	1,163.2	1,074.0	1,074.0	2.2	1.8	-79.84	3,672.6	974.6	3,791.2	3,787.2	4.08	929.074	
1,200.0	1,197.6	1,074.0	1,074.0	2.3	1.8	-79.84	3,672.6	974.6	3,791.4	3,787.2	4.17	910.194	
1,300.0	1,296.9	1,137.0	1,136.8	2.6	2.0	-80.00	3,675.4	971.8	3,792.6	3,788.1	4.53	837.329	
1,400.0	1,396.2	1,242.4	1,241.7	2.8	2.2	-80.32	3,681.7	964.0	3,794.7	3,789.7	4.99	760.802	
1,500.0	1,495.5	1,325.0	1,323.8	3.1	2.3	-80.60	3,686.7	955.6	3,796.5	3,791.0	5.42	700.766	
1,600.0	1,594.8	1,425.8	1,423.5	3.3	2.6	-80.99	3,694.0	943.1	3,798.9	3,793.0	5.91	642.367	
1,700.0	1,694.1	1,521.4	1,517.8	3.6	2.8	-81.38	3,701.1	929.2	3,801.2	3,794.8	6.42	591.833	
1,800.0	1,793.4	1,606.4	1,601.6	3.9	3.1	-81.74	3,707.4	916.2	3,803.6	3,796.7	6.92	549.908	
1,900.0	1,892.7	1,680.7	1,674.8	4.1	3.3	-82.04	3,713.6	905.3	3,807.2	3,799.8	7.39	515.134	
2,000.0	1,992.0	1,762.0	1,754.7	4.4	3.6	-82.40	3,720.8	892.1	3,811.1	3,803.2	7.90	482.133	
2,100.0	2,091.3	1,840.1	1,831.3	4.7	3.8	-82.76	3,728.1	878.4	3,815.6	3,807.2	8.42	452.957	
2,200.0	2,190.6	1,898.0	1,887.9	4.9	4.0	-83.03	3,734.1	868.0	3,821.2	3,812.3	8.88	430.139	
2,300.0	2,289.9	1,978.2	1,966.3	5.2	4.3	-83.40	3,743.2	853.4	3,827.8	3,818.4	9.43	406.084	
2,400.0	2,389.2	2,056.6	2,042.8	5.5	4.6	-83.78	3,752.0	838.7	3,834.7	3,824.7	9.98	384.353	
2,500.0	2,488.5	2,128.4	2,112.5	5.7	4.9	-84.14	3,761.0	824.0	3,842.6	3,832.0	10.52	365.219	
2,600.0	2,587.8	2,227.6	2,208.7	6.0	5.4	-84.63	3,773.6	803.7	3,851.0	3,839.9	11.17	344.708	
2,700.0	2,687.1	2,403.9	2,379.4	6.3	6.1	-85.56	3,792.9	764.2	3,857.4	3,845.3	12.17	316.935	
2,800.0	2,786.4	2,465.2	2,438.8	6.5	6.4	-85.87	3,799.7	750.5	3,864.7	3,852.1	12.69	304.503	
2,900.0	2,885.7	2,535.7	2,507.1	6.8	6.7	-86.24	3,807.9	735.0	3,873.0	3,859.7	13.25	292.301	
3,000.0	2,985.0	2,599.1	2,568.4	7.1	7.0	-86.56	3,815.7	721.3	3,882.1	3,868.4	13.78	281.769	
3,100.0	3,084.3	2,714.9	2,680.6	7.3	7.5	-87.14	3,830.5	696.6	3,892.1	3,877.6	14.51	268.191	
3,200.0	3,183.6	2,803.0	2,766.3	7.6	7.9	-87.57	3,840.8	678.4	3,901.5	3,886.3	15.13	257.908	
3,300.0	3,282.9	2,868.3	2,829.7	7.9	8.2	-87.89	3,849.0	665.3	3,911.9	3,896.2	15.65	250.016	
3,400.0	3,382.2	2,954.5	2,913.5	8.1	8.6	-88.29	3,860.2	648.4	3,923.0	3,906.7	16.24	241.525	
3,500.0	3,481.5	3,031.2	2,988.1	8.4	8.9	-88.65	3,870.4	633.8	3,934.7	3,917.9	16.79	234.279	
3,600.0	3,580.9	3,111.8	3,066.5	8.7	9.3	-89.02	3,881.3	618.5	3,946.8	3,929.5	17.36	227.330	
3,700.0	3,680.2	3,345.8	3,294.4	9.0	10.3	-90.09	3,908.6	573.5	3,956.9	3,938.4	18.49	213.978	
3,800.0	3,779.5	3,394.6	3,341.9	9.2	10.5	-90.32	3,913.9	563.8	3,967.0	3,948.1	18.94	209.466	
3,900.0	3,878.8	3,471.2	3,416.7	9.5	10.8	-90.66	3,923.0	549.9	3,978.3	3,958.8	19.47	204.368	
4,000.0	3,978.1	3,575.6	3,518.8	9.8	11.2	-91.10	3,935.1	532.0	3,989.6	3,969.5	20.08	198.702	
4,100.0	4,077.4	3,719.1	3,659.6	10.0	11.7	-91.67	3,951.2	509.3	4,000.9	3,980.1	20.78	192.518	
4,200.0	4,176.7	3,883.0	3,821.0	10.3	12.3	-92.30	3,965.6	484.7	4,009.4	3,987.8	21.54	186.111	
4,300.0	4,276.0	3,944.0	3,880.9	10.6	12.5	-92.55	3,971.0	474.3	4,018.8	3,996.7	22.00	182.631	
4,400.0	4,375.3	3,975.6	3,911.8	10.8	12.7	-92.68	3,974.3	469.0	4,029.7	4,007.4	22.37	180.105	
4,500.0	4,474.6	4,023.9	3,959.1	11.1	12.9	-92.88	3,980.0	460.8	4,042.2	4,019.4	22.81	177.245	
4,600.0	4,573.9	4,094.3	4,027.6	11.4	13.2	-93.19	3,988.9	446.9	4,055.7	4,032.4	23.33	173.815	
4,700.0	4,673.2	4,334.4	4,260.5	11.7	14.3	-94.31	4,015.9	395.2	4,068.7	4,044.2	24.50	166.087	
4,800.0	4,772.5	4,548.6	4,469.1	11.9	15.2	-95.29	4,033.7	350.1	4,079.4	4,053.9	25.54	159.731	
4,900.0	4,871.8	4,635.2	4,553.4	12.2	15.6	-95.69	4,039.0	331.1	4,087.7	4,061.6	26.13	156.467	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,971.1	4,691.0	4,607.8	12.5	15.8	-95.94	4,042.6	319.5	4,096.7	4,070.1	26.58	154.117	
5,100.0	5,070.4	4,752.0	4,667.5	12.7	16.1	-96.20	4,047.3	307.6	4,106.8	4,079.7	27.05	151.832	
5,200.0	5,169.7	4,796.1	4,710.6	13.0	16.2	-96.39	4,051.3	299.4	4,118.3	4,090.9	27.45	150.008	
5,300.0	5,269.0	4,837.7	4,751.3	13.3	16.4	-96.56	4,055.5	291.8	4,131.2	4,103.3	27.85	148.337	
5,400.0	5,368.3	4,876.0	4,788.7	13.5	16.6	-96.71	4,060.0	284.9	4,145.5	4,117.3	28.23	146.831	
5,500.0	5,467.6	4,939.0	4,850.2	13.8	16.8	-96.96	4,068.2	273.9	4,161.3	4,132.6	28.69	145.056	
5,600.0	5,566.9	5,001.0	4,910.6	14.1	17.1	-97.20	4,076.7	262.9	4,177.8	4,148.7	29.14	143.356	
5,700.0	5,666.2	5,089.1	4,996.5	14.4	17.5	-97.54	4,089.0	247.5	4,194.9	4,165.3	29.66	141.435	
5,800.0	5,765.5	5,168.2	5,073.8	14.6	17.8	-97.84	4,100.3	234.6	4,212.4	4,182.3	30.14	139.762	
5,900.0	5,864.8	5,250.9	5,159.9	14.9	19.8	-99.78	4,152.0	146.6	4,228.3	4,196.5	31.84	132.792	
6,000.0	5,964.1	5,331.0	5,242.5	15.2	20.0	-99.95	4,154.4	138.9	4,237.5	4,205.3	32.23	131.464	
6,100.0	6,063.4	5,411.7	5,320.3	15.4	20.5	-100.56	4,161.3	110.9	4,246.0	4,213.0	32.95	128.853	
6,200.0	6,162.7	5,491.0	5,400.8	15.7	20.7	-100.74	4,163.5	102.6	4,255.1	4,221.7	33.35	127.593	
6,300.0	6,262.0	5,570.7	5,480.6	16.0	21.0	-101.02	4,167.6	89.9	4,265.1	4,231.3	33.81	126.145	
6,400.0	6,361.3	5,650.0	5,560.8	16.2	21.1	-101.19	4,170.6	82.2	4,276.0	4,241.8	34.20	125.032	
6,500.0	6,460.7	5,729.3	5,640.1	16.5	21.4	-101.43	4,175.6	71.3	4,287.9	4,253.2	34.64	123.796	
6,600.0	6,560.0	5,808.6	5,719.4	16.8	21.8	-101.91	4,185.9	50.2	4,299.5	4,264.3	35.22	122.061	
6,700.0	6,659.3	5,887.9	5,798.7	17.1	22.1	-102.20	4,192.7	38.4	4,311.2	4,275.5	35.68	120.816	
6,800.0	6,758.6	5,967.2	5,878.0	17.3	22.6	-102.67	4,203.8	20.1	4,322.3	4,286.1	36.25	119.253	
6,900.0	6,857.9	6,046.5	5,957.3	17.6	23.4	-103.68	4,216.9	-9.9	4,330.5	4,293.3	37.11	116.704	
7,000.0	6,957.2	6,125.8	6,036.6	17.9	23.5	-103.80	4,216.9	-11.5	4,333.7	4,296.3	37.43	115.776	
7,100.0	7,056.5	6,205.1	6,115.9	18.1	23.5	-103.90	4,217.6	-12.4	4,337.9	4,300.1	37.75	114.915	
7,200.0	7,155.8	6,284.4	6,195.2	18.4	23.7	-104.09	4,219.6	-14.0	4,342.7	4,304.6	38.12	113.924	
7,210.0	7,165.7	6,294.3	6,205.1	18.4	23.7	-104.13	4,219.8	-14.3	4,343.1	4,305.0	38.16	113.802	
7,250.0	7,205.4	6,333.7	6,244.5	18.5	23.8	-72.66	4,220.1	-14.8	4,343.2	4,305.0	38.23	113.608	
7,300.0	7,254.8	6,373.0	6,284.0	18.7	23.8	-48.65	4,220.5	-15.2	4,339.6	4,301.5	38.06	114.008	
7,350.0	7,303.5	6,412.3	6,323.1	18.8	23.9	-37.00	4,220.9	-15.4	4,331.8	4,294.2	37.63	115.107	
7,400.0	7,351.2	6,451.6	6,362.4	18.9	23.9	-30.84	4,221.3	-15.5	4,320.0	4,283.0	36.96	116.890	
7,450.0	7,397.6	6,490.9	6,401.7	19.0	23.9	-27.32	4,222.0	-15.8	4,304.2	4,268.1	36.06	119.373	
7,500.0	7,442.2	6,530.2	6,441.0	19.2	24.0	-25.22	4,222.6	-16.0	4,284.5	4,249.5	34.93	122.644	
7,550.0	7,484.8	6,569.5	6,480.3	19.3	24.0	-24.04	4,223.3	-16.2	4,261.0	4,227.4	33.62	126.748	
7,600.0	7,525.0	6,608.8	6,519.6	19.5	24.1	-23.52	4,224.1	-16.5	4,234.0	4,201.9	32.14	131.743	
7,650.0	7,562.4	6,648.1	6,559.0	19.6	24.1	-23.54	4,225.0	-16.6	4,203.6	4,173.0	30.54	137.643	
7,700.0	7,596.9	6,687.4	6,598.3	19.8	24.1	-24.07	4,225.8	-16.5	4,170.0	4,141.1	28.88	144.373	
7,750.0	7,628.2	6,726.7	6,637.6	20.0	24.2	-25.12	4,226.7	-16.3	4,133.4	4,106.2	27.26	151.655	
7,800.0	7,656.0	6,766.0	6,677.0	20.3	24.2	-26.88	4,227.7	-16.1	4,094.2	4,068.4	25.80	158.706	
7,850.0	7,680.1	6,805.3	6,716.2	20.5	24.2	-29.53	4,228.6	-16.2	4,052.5	4,027.8	24.70	164.046	
7,900.0	7,700.3	6,844.6	6,755.5	20.8	24.3	-33.38	4,229.1	-16.5	4,008.6	3,984.4	24.25	165.321	
7,950.0	7,716.5	6,883.9	6,794.8	21.1	24.4	-40.54	4,229.9	-17.8	3,963.0	3,937.8	25.19	157.314	
8,000.0	7,728.5	6,923.2	6,834.1	21.5	24.4	-49.84	4,229.9	-18.1	3,915.8	3,888.5	27.30	143.427	
8,050.0	7,736.3	6,962.5	6,873.4	21.9	24.4	-63.48	4,229.9	-18.2	3,867.7	3,837.2	30.56	126.550	
8,100.0	7,739.8	6,999.8	6,910.7	22.2	24.4	-82.90	4,229.9	-18.2	3,819.1	3,785.6	33.51	113.984	
8,115.3	7,740.0	7,000.0	6,910.7	22.4	24.4	-89.77	4,229.9	-18.2	3,804.1	3,770.2	33.87	112.323	
8,200.0	7,740.0	7,039.3	6,950.2	23.1	24.4	-89.77	4,229.9	-18.2	3,721.4	3,686.6	34.85	106.798	
8,300.0	7,740.0	7,078.6	6,989.5	24.1	24.4	-89.76	4,229.9	-18.2	3,623.9	3,587.8	36.08	100.427	
8,400.0	7,740.0	7,117.9	7,029.8	25.2	24.4	-89.75	4,229.9	-18.2	3,526.5	3,489.1	37.40	94.293	
8,500.0	7,740.0	7,157.2	7,068.7	26.3	24.4	-89.74	4,229.9	-18.2	3,429.2	3,390.4	38.78	88.438	
8,600.0	7,740.0	7,196.5	7,107.6	27.5	24.4	-89.73	4,229.9	-18.2	3,332.1	3,291.9	40.20	82.883	
8,700.0	7,740.0	7,235.8	7,146.9	28.7	24.4	-89.72	4,229.9	-18.2	3,235.2	3,193.5	41.67	77.635	
8,800.0	7,740.0	7,275.1	7,186.2	30.0	24.4	-89.71	4,229.9	-18.2	3,138.5	3,095.3	43.18	72.690	
8,900.0	7,740.0	7,314.4	7,225.5	31.4	24.4	-89.70	4,229.9	-18.2	3,042.0	2,997.3	44.71	68.038	
9,000.0	7,740.0	7,353.7	7,264.8	32.8	24.4	-89.69	4,229.9	-18.2	2,945.7	2,899.4	46.27	63.666	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,740.0	7,838.6	7,720.4	34.2	24.4	-89.68	4,229.9	-18.2	2,849.7	2,801.8	47.85	59.558	
9,200.0	7,740.0	7,838.4	7,720.3	35.6	24.4	-89.67	4,229.9	-18.2	2,753.9	2,704.5	49.44	55.698	
9,300.0	7,740.0	7,838.3	7,720.1	37.1	24.4	-89.65	4,229.9	-18.2	2,658.5	2,607.5	51.06	52.070	
9,400.0	7,740.0	7,838.1	7,720.0	38.6	24.4	-89.64	4,229.9	-18.2	2,563.5	2,510.8	52.68	48.658	
9,500.0	7,740.0	7,838.0	7,719.8	40.1	24.4	-89.63	4,229.9	-18.2	2,468.8	2,414.5	54.32	45.449	
9,600.0	7,740.0	7,837.8	7,719.7	41.7	24.4	-89.62	4,229.9	-18.2	2,374.5	2,318.6	55.97	42.427	
9,700.0	7,740.0	7,837.7	7,719.5	43.2	24.4	-89.61	4,229.9	-18.2	2,280.8	2,223.1	57.62	39.580	
9,800.0	7,740.0	7,837.5	7,719.4	44.8	24.4	-89.60	4,229.9	-18.2	2,187.6	2,128.3	59.29	36.897	
9,900.0	7,740.0	7,837.4	7,719.2	46.4	24.4	-89.59	4,229.9	-18.2	2,095.0	2,034.0	60.96	34.367	
10,000.0	7,740.0	7,837.2	7,719.1	48.0	24.4	-89.58	4,229.9	-18.2	2,003.1	1,940.5	62.64	31.980	
10,100.0	7,740.0	7,837.1	7,718.9	49.6	24.4	-89.57	4,229.9	-18.2	1,912.1	1,847.8	64.32	29.728	
10,200.0	7,740.0	7,836.9	7,718.8	51.2	24.4	-89.56	4,229.9	-18.2	1,822.0	1,756.0	66.01	27.602	
10,300.0	7,740.0	7,836.8	7,718.6	52.8	24.4	-89.55	4,229.9	-18.2	1,733.0	1,665.3	67.70	25.597	
10,400.0	7,740.0	7,836.6	7,718.5	54.5	24.4	-89.54	4,229.9	-18.2	1,645.2	1,575.8	69.40	23.707	
10,500.0	7,740.0	7,836.4	7,718.3	56.1	24.4	-89.53	4,229.9	-18.2	1,558.9	1,487.8	71.10	21.927	
10,600.0	7,740.0	7,836.3	7,718.1	57.7	24.4	-89.51	4,229.9	-18.2	1,474.4	1,401.6	72.80	20.252	
10,700.0	7,740.0	7,836.1	7,718.0	59.4	24.4	-89.50	4,229.9	-18.2	1,391.9	1,317.4	74.51	18.681	
10,800.0	7,740.0	7,836.0	7,717.8	61.1	24.4	-89.49	4,229.9	-18.2	1,311.8	1,235.6	76.22	17.212	
10,900.0	7,740.0	7,835.8	7,717.7	62.7	24.4	-89.48	4,229.9	-18.2	1,234.7	1,156.7	77.93	15.844	
11,000.0	7,740.0	7,835.6	7,717.5	64.4	24.4	-89.47	4,229.9	-18.2	1,161.0	1,081.4	79.64	14.578	
11,100.0	7,740.0	7,835.5	7,717.3	66.1	24.4	-89.46	4,229.9	-18.2	1,091.5	1,010.2	81.36	13.416	
11,200.0	7,740.0	7,835.3	7,717.2	67.7	24.4	-89.45	4,229.9	-18.2	1,027.1	944.0	83.08	12.364	
11,300.0	7,740.0	7,835.1	7,717.0	69.4	24.4	-89.43	4,229.9	-18.2	968.8	884.0	84.80	11.425	
11,395.3	7,740.0	7,835.0	7,716.8	71.0	24.4	-89.42	4,229.9	-18.2	919.8	833.4	86.44	10.642	
11,400.0	7,740.0	7,835.0	7,716.8	71.1	24.4	-89.42	4,229.9	-18.2	917.6	831.1	86.52	10.606	
11,500.0	7,740.0	7,834.8	7,716.7	72.8	24.4	-89.41	4,229.9	-18.2	875.9	787.6	88.30	9.920	
11,584.7	7,740.0	7,834.6	7,716.5	74.2	24.4	-89.41	4,229.9	-18.2	849.5	759.7	89.79	9.461	
11,600.0	7,740.0	7,834.6	7,716.5	74.5	24.4	-89.40	4,229.9	-18.2	845.6	755.5	90.05	9.390	
11,700.0	7,740.0	7,834.4	7,716.3	76.2	24.4	-89.39	4,229.9	-18.1	827.0	735.2	91.78	9.011	
11,800.0	7,740.0	7,834.2	7,716.0	77.9	24.4	-89.37	4,229.9	-18.1	820.3	726.8	93.51	8.773	
11,805.4	7,740.0	7,834.2	7,716.0	78.0	24.4	-89.37	4,229.9	-18.1	820.3	726.7	93.60	8.764 CC, ES	
11,900.0	7,740.0	7,834.0	7,715.8	79.6	24.4	-89.36	4,229.9	-18.1	825.7	730.5	95.24	8.670 SF	
12,000.0	7,740.0	7,833.8	7,715.6	81.3	24.4	-89.34	4,229.9	-18.1	843.1	746.1	96.97	8.694	
12,100.0	7,740.0	7,833.5	7,715.4	83.0	24.4	-89.33	4,229.9	-18.1	871.6	772.9	98.70	8.831	
12,200.0	7,740.0	7,833.3	7,715.2	84.8	24.4	-89.31	4,229.9	-18.1	910.3	809.8	100.43	9.064	
12,300.0	7,740.0	7,833.1	7,715.0	86.5	24.4	-89.30	4,229.9	-18.1	957.9	855.7	102.16	9.376	
12,400.0	7,740.0	7,832.9	7,714.8	88.2	24.4	-89.28	4,229.9	-18.1	1,013.1	909.2	103.90	9.751	
12,500.0	7,740.0	7,832.7	7,714.5	89.9	24.4	-89.27	4,229.9	-18.1	1,074.9	969.2	105.63	10.176	
12,600.0	7,740.0	7,832.4	7,714.3	91.6	24.4	-89.25	4,229.9	-18.1	1,142.1	1,034.7	107.37	10.637	
12,700.0	7,740.0	7,832.2	7,714.1	93.3	24.4	-89.24	4,229.9	-18.1	1,213.8	1,104.7	109.10	11.125	
12,800.0	7,740.0	7,832.0	7,713.9	95.1	24.4	-89.22	4,229.9	-18.1	1,289.2	1,178.4	110.84	11.632	
12,900.0	7,740.0	7,831.8	7,713.6	96.8	24.4	-89.21	4,229.9	-18.1	1,367.9	1,255.3	112.58	12.151	
13,000.0	7,740.0	7,831.5	7,713.4	98.5	24.4	-89.19	4,229.9	-18.1	1,449.1	1,334.8	114.31	12.677	
13,100.0	7,740.0	7,831.3	7,713.2	100.2	24.4	-89.17	4,229.9	-18.1	1,532.6	1,416.6	116.05	13.206	
13,200.0	7,740.0	7,831.1	7,713.0	102.0	24.4	-89.16	4,229.9	-18.1	1,618.0	1,500.2	117.79	13.736	
13,300.0	7,740.0	7,830.8	7,712.7	103.7	24.4	-89.14	4,229.9	-18.1	1,704.9	1,585.4	119.53	14.264	
13,400.0	7,740.0	7,830.6	7,712.5	105.4	24.4	-89.13	4,229.9	-18.1	1,793.2	1,672.0	121.27	14.787	
13,500.0	7,740.0	7,830.4	7,712.2	107.2	24.4	-89.11	4,229.9	-18.1	1,882.7	1,759.7	123.01	15.305	
13,600.0	7,740.0	7,830.1	7,712.0	108.9	24.4	-89.09	4,229.9	-18.1	1,973.2	1,848.5	124.75	15.817	
13,700.0	7,740.0	7,829.9	7,711.8	110.6	24.4	-89.08	4,229.9	-18.1	2,064.6	1,938.1	126.49	16.322	
13,800.0	7,740.0	7,829.7	7,711.5	112.3	24.4	-89.06	4,229.9	-18.1	2,156.7	2,028.5	128.23	16.819	
13,900.0	7,740.0	7,829.4	7,711.3	114.1	24.4	-89.04	4,229.9	-18.1	2,249.5	2,119.5	129.97	17.307	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program: 765-MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
14,000.0	7,740.0	7,829.2	7,711.0	115.8	24.4	-89.02	4,229.9	-18.1	2,342.9	2,211.2	131.72	17.788						
14,100.0	7,740.0	7,828.9	7,710.8	117.5	24.4	-89.01	4,229.9	-18.1	2,436.8	2,303.4	133.46	18.259						
14,200.0	7,740.0	7,828.7	7,710.5	119.3	24.4	-88.99	4,229.9	-18.1	2,531.2	2,396.0	135.20	18.722						
14,300.0	7,740.0	7,828.4	7,710.3	121.0	24.4	-88.97	4,229.9	-18.1	2,626.0	2,489.1	136.94	19.176						
14,400.0	7,740.0	7,828.2	7,710.0	122.8	24.4	-88.95	4,229.9	-18.1	2,721.2	2,582.5	138.69	19.621						
14,500.0	7,740.0	7,827.9	7,709.8	124.5	24.4	-88.94	4,229.9	-18.1	2,816.7	2,676.3	140.43	20.058						
14,600.0	7,740.0	7,827.7	7,709.5	126.2	24.4	-88.92	4,229.9	-18.1	2,912.5	2,770.3	142.17	20.485						
14,696.1	7,740.0	7,827.4	7,709.3	127.9	24.4	-88.90	4,229.9	-18.1	3,004.8	2,861.0	143.85	20.889						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 797-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	14.56	3,623.1	941.4	3,743.4					
100.0	100.0	86.5	86.5	0.2	0.1	14.56	3,623.1	941.3	3,743.4	3,743.1	0.30	N/A		
200.0	200.0	188.3	188.3	0.3	0.3	14.56	3,623.1	941.2	3,743.3	3,742.7	0.65	5,771.008		
300.0	300.0	290.1	290.1	0.5	0.5	14.56	3,623.0	940.9	3,743.2	3,742.2	1.00	3,753.106		
400.0	400.0	391.9	391.9	0.7	0.7	14.55	3,623.0	940.6	3,743.1	3,741.7	1.35	2,780.699		
500.0	500.0	493.7	493.7	0.9	0.8	-79.48	3,622.9	940.1	3,742.7	3,741.0	1.70	2,204.840		
600.0	600.0	595.4	595.4	1.0	1.0	-79.54	3,622.7	939.5	3,742.0	3,739.9	2.05	1,825.382		
700.0	699.9	697.1	697.1	1.2	1.2	-79.63	3,622.6	938.8	3,740.9	3,738.5	2.41	1,553.290		
800.0	799.7	798.6	798.6	1.4	1.4	-79.75	3,622.5	937.9	3,739.4	3,736.6	2.78	1,347.071		
900.0	899.4	896.3	896.3	1.6	1.5	-79.89	3,622.3	937.1	3,737.7	3,734.5	3.15	1,185.200		
1,000.0	998.9	1,001.5	1,001.5	1.8	1.7	-80.08	3,622.3	935.9	3,735.7	3,732.1	3.56	1,049.061		
1,076.7	1,075.1	1,697.4	1,691.8	2.0	3.4	-82.13	3,577.8	872.9	3,730.2	3,725.0	5.17	721.158		
1,100.0	1,098.3	1,734.4	1,728.1	2.1	3.5	-82.26	3,572.7	867.3	3,725.8	3,720.4	5.32	699.947		
1,200.0	1,197.6	1,844.5	1,835.5	2.3	3.9	-82.70	3,557.3	848.7	3,706.6	3,700.7	5.86	632.020		
1,300.0	1,296.9	1,952.6	1,940.7	2.6	4.3	-83.15	3,542.3	828.8	3,687.4	3,680.9	6.43	573.049		
1,400.0	1,396.2	2,146.5	2,127.4	2.8	5.2	-84.10	3,514.2	785.0	3,666.8	3,659.4	7.38	496.819		
1,500.0	1,495.5	2,314.6	2,287.8	3.1	6.1	-84.98	3,486.2	743.5	3,643.8	3,635.5	8.28	439.814		
1,600.0	1,594.8	2,374.0	2,344.6	3.3	6.4	-85.29	3,476.1	729.1	3,621.0	3,612.2	8.78	412.239		
1,700.0	1,694.1	2,597.2	2,557.2	3.6	7.6	-86.48	3,435.8	674.7	3,598.0	3,588.0	9.96	361.163		
1,800.0	1,793.4	2,664.9	2,621.6	3.9	7.9	-86.84	3,422.2	658.9	3,573.2	3,562.7	10.50	340.334		
1,900.0	1,892.7	2,748.9	2,701.8	4.1	8.4	-87.27	3,405.5	640.2	3,549.0	3,537.9	11.10	319.850		
2,000.0	1,992.0	2,842.0	2,790.7	4.4	8.9	-87.74	3,387.0	619.7	3,525.2	3,513.4	11.75	300.140		
2,100.0	2,091.3	2,931.9	2,876.7	4.7	9.4	-88.20	3,369.1	600.2	3,501.6	3,489.2	12.37	283.076		
2,200.0	2,190.6	3,021.0	2,961.8	4.9	9.8	-88.67	3,351.5	580.9	3,478.4	3,465.4	13.02	267.195		
2,300.0	2,289.9	3,086.8	3,024.6	5.2	10.2	-89.03	3,338.9	565.7	3,455.8	3,442.2	13.59	254.334		
2,400.0	2,389.2	3,152.7	3,087.4	5.5	10.6	-89.40	3,327.0	549.9	3,434.3	3,420.1	14.16	242.568		
2,500.0	2,488.5	3,220.0	3,151.8	5.7	10.9	-89.78	3,315.1	534.3	3,413.7	3,399.0	14.73	231.760		
2,600.0	2,587.8	3,299.6	3,228.2	6.0	11.3	-90.22	3,301.3	516.9	3,393.9	3,378.6	15.34	221.277		
2,700.0	2,687.1	3,375.3	3,301.1	6.3	11.7	-90.63	3,288.6	500.4	3,374.9	3,359.0	15.97	211.377		
2,800.0	2,786.4	3,473.1	3,394.8	6.5	12.2	-91.20	3,272.7	477.5	3,356.5	3,339.8	16.69	201.072		
2,900.0	2,885.7	3,660.1	3,573.8	6.8	13.3	-92.27	3,239.0	435.5	3,336.8	3,319.0	17.85	186.942		
3,000.0	2,985.0	3,740.0	3,650.1	7.1	13.7	-92.74	3,223.6	417.3	3,316.2	3,297.7	18.51	179.153		
3,100.0	3,084.3	3,805.7	3,712.8	7.3	14.1	-93.14	3,211.4	402.1	3,296.7	3,277.6	19.11	172.501		
3,200.0	3,183.6	3,879.0	3,782.8	7.6	14.5	-93.59	3,198.4	384.5	3,278.1	3,258.4	19.76	165.872		
3,300.0	3,282.9	3,965.7	3,865.6	7.9	14.9	-94.13	3,183.3	363.6	3,260.3	3,239.8	20.49	159.154		
3,400.0	3,382.2	4,069.0	3,964.1	8.1	15.5	-94.79	3,165.2	338.5	3,242.6	3,221.3	21.31	152.158		
3,500.0	3,481.5	4,150.5	4,041.9	8.4	16.0	-95.31	3,150.8	318.6	3,225.3	3,203.3	22.02	146.478		
3,600.0	3,580.9	4,307.4	4,190.8	8.7	16.9	-96.36	3,121.3	279.1	3,206.9	3,183.7	23.18	138.373		
3,700.0	3,680.2	4,373.3	4,253.5	9.0	17.3	-96.79	3,108.8	263.2	3,189.2	3,165.4	23.80	134.007		
3,800.0	3,779.5	4,448.0	4,325.0	9.2	17.7	-97.26	3,095.2	246.2	3,172.5	3,148.0	24.45	129.728		
3,900.0	3,878.8	4,529.0	4,402.4	9.5	18.1	-97.79	3,080.8	227.2	3,156.6	3,131.4	25.19	125.301		
4,000.0	3,978.1	4,586.8	4,457.5	9.8	18.4	-98.19	3,070.9	212.6	3,141.6	3,115.8	25.79	121.809		
4,100.0	4,077.4	4,662.9	4,530.1	10.0	18.9	-98.70	3,058.7	193.7	3,128.2	3,101.7	26.50	118.028		
4,200.0	4,176.7	4,791.6	4,652.4	10.3	19.6	-99.62	3,036.8	160.1	3,114.1	3,086.6	27.56	112.988		
4,300.0	4,276.0	4,901.8	4,757.0	10.6	20.3	-100.41	3,017.5	131.6	3,100.3	3,071.8	28.49	108.837		
4,400.0	4,375.3	4,973.6	4,825.6	10.8	20.6	-100.90	3,004.9	114.3	3,086.8	3,057.6	29.15	105.885		
4,500.0	4,474.6	5,041.2	4,890.5	11.1	21.0	-101.35	2,993.7	99.2	3,074.4	3,044.6	29.78	103.244		
4,600.0	4,573.9	5,105.0	4,952.1	11.4	21.3	-101.76	2,983.6	85.7	3,063.2	3,032.8	30.37	100.852		
4,700.0	4,673.2	5,190.7	5,035.0	11.7	21.7	-102.29	2,970.6	68.6	3,052.8	3,021.7	31.06	98.292		
4,800.0	4,772.5	5,267.4	5,109.6	11.9	22.0	-102.75	2,959.6	54.3	3,043.3	3,011.6	31.68	96.074		
4,900.0	4,871.8	5,327.0	5,167.8	12.2	22.3	-103.09	2,951.6	44.0	3,034.9	3,002.7	32.20	94.257		
5,000.0	4,971.1	5,389.0	5,228.5	12.5	22.5	-103.42	2,944.3	34.2	3,028.1	2,995.4	32.72	92.558		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 797-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,070.4	5,444.3	5,282.9	12.7	22.7	-103.71	2,938.7	26.1	3,022.7	2,989.6	33.19	91.086	
5,200.0	5,169.7	5,519.3	5,356.9	13.0	22.9	-104.08	2,931.7	16.1	3,018.5	2,984.8	33.72	89.527	
5,300.0	5,269.0	5,605.5	5,442.2	13.3	23.2	-104.48	2,924.3	5.8	3,014.9	2,980.7	34.26	87.999	
5,400.0	5,368.3	5,703.6	5,539.5	13.5	23.4	-104.90	2,916.4	-3.8	3,011.7	2,976.9	34.80	86.543	
5,500.0	5,467.6	5,788.6	5,624.0	13.8	23.6	-105.22	2,910.0	-10.0	3,008.7	2,973.4	35.27	85.312	
5,600.0	5,566.9	5,862.0	5,697.2	14.1	23.7	-105.48	2,905.5	-14.4	3,006.8	2,971.1	35.69	84.243	
5,700.0	5,666.2	5,934.2	5,769.2	14.4	23.9	-105.71	2,901.8	-17.6	3,005.8	2,969.7	36.08	83.307	
5,766.9	5,732.7	5,979.4	5,814.3	14.5	23.9	-105.84	2,899.8	-19.0	3,005.5	2,969.2	36.33	82.723	
5,800.0	5,765.5	5,996.9	5,831.8	14.6	23.9	-105.89	2,899.2	-19.5	3,005.6	2,969.1	36.45	82.465	
5,900.0	5,864.8	6,052.0	5,886.9	14.9	24.0	-106.04	2,897.8	-21.0	3,006.9	2,970.1	36.80	81.717	
6,000.0	5,964.1	6,123.1	5,958.0	15.2	24.1	-106.23	2,896.9	-22.8	3,009.5	2,972.3	37.16	80.980	
6,100.0	6,063.4	6,214.6	6,049.5	15.4	24.2	-106.47	2,896.4	-24.8	3,012.7	2,975.2	37.56	80.215	
6,200.0	6,162.7	6,318.8	6,153.6	15.7	24.3	-106.73	2,895.8	-27.0	3,016.0	2,978.1	37.97	79.438	
6,300.0	6,262.0	6,410.4	6,245.2	16.0	24.4	-106.96	2,895.4	-28.7	3,019.4	2,981.0	38.36	78.720	
6,400.0	6,361.3	6,499.8	6,334.6	16.2	24.5	-107.18	2,895.2	-30.4	3,023.1	2,984.3	38.74	78.032	
6,500.0	6,460.7	6,595.5	6,430.2	16.5	24.6	-107.42	2,895.1	-32.4	3,027.1	2,987.9	39.14	77.334	
6,600.0	6,560.0	6,695.4	6,530.1	16.8	24.7	-107.68	2,895.1	-34.8	3,031.2	2,991.6	39.55	76.632	
6,700.0	6,659.3	6,800.9	6,635.5	17.1	24.8	-107.96	2,894.8	-37.8	3,035.2	2,995.2	39.98	75.914	
6,800.0	6,758.6	6,922.2	6,756.9	17.3	25.0	-108.28	2,893.9	-41.0	3,038.8	2,998.4	40.41	75.202	
6,900.0	6,857.9	7,031.2	6,865.8	17.6	25.1	-108.55	2,892.6	-42.8	3,041.8	3,001.0	40.81	74.530	
7,000.0	6,957.2	7,119.2	6,953.8	17.9	25.2	-108.76	2,891.8	-44.0	3,045.1	3,003.9	41.19	73.930	
7,100.0	7,056.5	7,187.0	7,021.6	18.1	25.3	-108.92	2,891.4	-44.9	3,048.8	3,007.2	41.54	73.399	
7,200.0	7,155.8	7,270.3	7,104.9	18.4	25.3	-109.11	2,891.5	-46.1	3,053.2	3,011.3	41.90	72.869	
7,210.0	7,165.7	7,277.1	7,111.7	18.4	25.3	-109.13	2,891.6	-46.2	3,053.7	3,011.8	41.93	72.821	
7,250.0	7,205.4	7,304.1	7,138.7	18.5	25.4	-77.62	2,891.9	-46.6	3,054.6	3,012.5	42.09	72.573	
7,300.0	7,254.8	7,337.8	7,172.4	18.7	25.4	-53.63	2,892.4	-47.1	3,052.0	3,009.9	42.08	72.536	
7,350.0	7,303.5	7,376.0	7,210.6	18.8	25.4	-42.08	2,893.2	-47.8	3,045.5	3,003.7	41.84	72.790	
7,400.0	7,351.2	7,417.1	7,251.6	18.9	25.5	-36.07	2,894.2	-48.5	3,035.1	2,993.7	41.39	73.327	
7,450.0	7,397.6	7,464.0	7,298.5	19.0	25.5	-32.75	2,895.3	-49.3	3,020.6	2,979.9	40.75	74.132	
7,500.0	7,442.2	7,510.3	7,344.8	19.2	25.5	-30.95	2,896.4	-50.1	3,002.2	2,962.3	39.92	75.214	
7,550.0	7,484.8	7,560.0	7,394.5	19.3	25.6	-30.15	2,897.6	-50.9	2,980.0	2,941.1	38.93	76.549	
7,600.0	7,525.0	7,607.0	7,441.5	19.5	25.6	-30.11	2,898.6	-51.5	2,954.1	2,916.3	37.82	78.107	
7,650.0	7,562.4	7,651.0	7,485.4	19.6	25.7	-30.70	2,899.5	-51.9	2,924.8	2,888.2	36.64	79.829	
7,700.0	7,596.9	7,691.5	7,525.9	19.8	25.7	-31.93	2,900.3	-52.2	2,892.3	2,856.8	35.44	81.609	
7,750.0	7,628.2	7,728.3	7,562.7	20.0	25.7	-33.82	2,900.9	-52.4	2,856.8	2,822.5	34.30	83.279	
7,800.0	7,656.0	7,761.0	7,595.5	20.3	25.7	-36.51	2,901.5	-52.5	2,818.7	2,785.4	33.33	84.579	
7,850.0	7,680.1	7,789.2	7,623.7	20.5	25.8	-40.17	2,901.9	-52.5	2,778.3	2,745.7	32.62	85.162	
7,900.0	7,700.3	7,811.5	7,645.9	20.8	25.8	-45.03	2,902.3	-52.5	2,735.9	2,703.6	32.32	84.655	
7,950.0	7,716.5	7,829.5	7,663.9	21.1	25.8	-51.49	2,902.5	-52.5	2,691.9	2,659.3	32.53	82.755	
8,000.0	7,728.5	7,843.1	7,677.5	21.5	25.8	-59.96	2,902.7	-52.5	2,646.5	2,613.3	33.27	79.536	
8,050.0	7,736.3	7,852.1	7,686.5	21.9	25.8	-70.71	2,902.9	-52.5	2,600.3	2,565.9	34.37	75.652	
8,100.0	7,739.8	7,856.6	7,691.0	22.2	25.8	-83.54	2,902.9	-52.5	2,553.4	2,518.1	35.36	72.217	
8,115.3	7,740.0	7,857.0	7,691.4	22.4	25.8	-87.75	2,902.9	-52.5	2,539.0	2,503.4	35.55	71.415	
8,200.0	7,740.0	7,858.3	7,692.7	23.1	25.8	-87.84	2,903.0	-52.5	2,459.5	2,422.9	36.53	67.319	
8,300.0	7,740.0	7,859.9	7,694.3	24.1	25.8	-87.94	2,903.0	-52.5	2,366.0	2,328.2	37.78	62.628	
8,400.0	7,740.0	7,861.4	7,695.8	25.2	25.8	-88.04	2,903.0	-52.5	2,273.0	2,233.9	39.10	58.139	
8,500.0	7,740.0	7,862.9	7,697.3	26.3	25.8	-88.15	2,903.0	-52.5	2,180.7	2,140.2	40.48	53.875	
8,600.0	7,740.0	7,864.4	7,698.8	27.5	25.8	-88.25	2,903.0	-52.5	2,089.1	2,047.2	41.91	49.850	
8,700.0	7,740.0	7,865.9	7,700.3	28.7	25.8	-88.35	2,903.1	-52.5	1,998.3	1,954.9	43.38	46.064	
8,800.0	7,740.0	7,867.4	7,701.9	30.0	25.8	-88.45	2,903.1	-52.5	1,908.4	1,863.5	44.89	42.515	
8,900.0	7,740.0	7,868.9	7,703.3	31.4	25.8	-88.55	2,903.1	-52.5	1,819.6	1,773.1	46.42	39.194	
9,000.0	7,740.0	7,870.4	7,704.8	32.8	25.8	-88.65	2,903.1	-52.5	1,731.9	1,684.0	47.99	36.093	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU											Offset Site Error: 0.0 ft			
Survey Program: 797-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,740.0	7,871.9	7,706.3	34.2	25.8	-88.75	2,903.2	-52.5	1,645.7	1,596.2	49.57	33.202		
9,200.0	7,740.0	7,873.4	7,707.8	35.6	25.8	-88.85	2,903.2	-52.5	1,561.2	1,510.0	51.17	30.511		
9,300.0	7,740.0	7,874.9	7,709.3	37.1	25.8	-88.95	2,903.2	-52.5	1,478.5	1,425.7	52.78	28.012		
9,400.0	7,740.0	7,876.3	7,710.8	38.6	25.8	-89.05	2,903.2	-52.5	1,398.2	1,343.8	54.41	25.696		
9,500.0	7,740.0	7,877.8	7,712.2	40.1	25.8	-89.14	2,903.2	-52.5	1,320.5	1,264.4	56.05	23.559		
9,600.0	7,740.0	7,879.3	7,713.7	41.7	25.8	-89.24	2,903.3	-52.5	1,246.0	1,188.3	57.70	21.594		
9,700.0	7,740.0	7,880.7	7,715.2	43.2	25.8	-89.34	2,903.3	-52.5	1,175.3	1,115.9	59.36	19.799		
9,800.0	7,740.0	7,882.2	7,716.6	44.8	25.8	-89.44	2,903.3	-52.4	1,109.1	1,048.0	61.03	18.174		
9,900.0	7,740.0	7,883.6	7,718.1	46.4	25.8	-89.53	2,903.3	-52.4	1,048.2	985.5	62.70	16.719		
10,000.0	7,740.0	7,885.1	7,719.5	48.0	25.8	-89.63	2,903.3	-52.4	993.8	929.4	64.38	15.437		
10,100.0	7,740.0	7,886.5	7,720.9	49.6	25.8	-89.73	2,903.4	-52.4	946.8	880.7	66.06	14.332		
10,200.0	7,740.0	7,888.0	7,722.4	51.2	25.8	-89.82	2,903.4	-52.4	908.4	840.6	67.75	13.408		
10,300.0	7,740.0	7,889.4	7,723.8	52.8	25.8	-89.92	2,903.4	-52.4	879.7	810.3	69.44	12.668		
10,400.0	7,740.0	7,890.8	7,725.2	54.5	25.8	-90.01	2,903.4	-52.4	861.8	790.7	71.14	12.114		
10,500.0	7,740.0	7,892.2	7,726.6	56.1	25.8	-90.11	2,903.4	-52.4	855.2	782.4	72.84	11.741		
10,506.2	7,740.0	7,892.3	7,726.7	56.2	25.8	-90.11	2,903.4	-52.4	855.2	782.3	72.95	11.724 CC, ES		
10,600.0	7,740.0	7,893.6	7,728.1	57.7	25.8	-90.20	2,903.5	-52.4	860.4	785.8	74.55	11.541		
10,700.0	7,740.0	7,895.0	7,729.5	59.4	25.8	-90.30	2,903.5	-52.4	876.9	800.6	76.25	11.500 SF		
10,800.0	7,740.0	7,896.4	7,730.9	61.1	25.8	-90.39	2,903.5	-52.4	904.3	826.3	77.96	11.599		
10,900.0	7,740.0	7,897.8	7,732.3	62.7	25.8	-90.49	2,903.5	-52.4	941.5	861.8	79.67	11.817		
11,000.0	7,740.0	7,899.2	7,733.7	64.4	25.8	-90.58	2,903.5	-52.4	987.5	906.1	81.39	12.133		
11,100.0	7,740.0	7,900.6	7,735.0	66.1	25.9	-90.67	2,903.6	-52.4	1,041.1	958.0	83.10	12.528		
11,200.0	7,740.0	7,902.0	7,736.4	67.7	25.9	-90.77	2,903.6	-52.4	1,101.2	1,016.4	84.82	12.983		
11,300.0	7,740.0	7,903.4	7,737.8	69.4	25.9	-90.86	2,903.6	-52.4	1,166.8	1,080.2	86.54	13.483		
11,395.3	7,740.0	7,904.7	7,739.1	71.0	25.9	-90.95	2,903.6	-52.4	1,233.6	1,145.4	88.18	13.990		
11,400.0	7,740.0	7,904.8	7,739.2	71.1	25.9	-90.95	2,903.6	-52.4	1,237.0	1,148.7	88.28	14.012		
11,500.0	7,740.0	7,906.1	7,740.6	72.8	25.9	-91.06	2,903.6	-52.4	1,311.7	1,221.2	90.45	14.502		
11,584.7	7,740.0	7,907.3	7,741.7	74.2	25.9	-91.16	2,903.6	-52.4	1,378.2	1,286.0	92.27	14.937		
11,600.0	7,740.0	7,907.5	7,741.9	74.5	25.9	-91.18	2,903.6	-52.4	1,390.6	1,298.0	92.53	15.028		
11,700.0	7,740.0	7,908.9	7,743.3	76.2	25.9	-91.27	2,903.7	-52.4	1,472.4	1,378.1	94.26	15.621		
11,800.0	7,740.0	7,910.2	7,744.7	77.9	25.9	-91.37	2,903.7	-52.4	1,556.3	1,460.4	95.98	16.215		
11,900.0	7,740.0	7,911.6	7,746.0	79.6	25.9	-91.46	2,903.7	-52.4	1,642.1	1,544.4	97.71	16.806		
12,000.0	7,740.0	7,913.0	7,747.4	81.3	25.9	-91.56	2,903.7	-52.4	1,729.4	1,629.9	99.43	17.392		
12,100.0	7,740.0	7,914.3	7,748.7	83.0	25.9	-91.65	2,903.7	-52.4	1,818.0	1,716.8	101.16	17.971		
12,200.0	7,740.0	7,915.7	7,750.1	84.8	25.9	-91.75	2,903.8	-52.4	1,907.7	1,804.8	102.89	18.541		
12,300.0	7,740.0	7,917.0	7,751.4	86.5	25.9	-91.84	2,903.8	-52.4	1,998.4	1,893.7	104.62	19.102		
12,400.0	7,740.0	7,918.3	7,752.8	88.2	25.9	-91.93	2,903.8	-52.4	2,089.9	1,983.6	106.35	19.652		
12,500.0	7,740.0	7,919.7	7,754.1	89.9	25.9	-92.03	2,903.8	-52.4	2,182.2	2,074.1	108.07	20.192		
12,600.0	7,740.0	7,921.0	7,755.4	91.6	25.9	-92.12	2,903.8	-52.4	2,275.1	2,165.3	109.80	20.720		
12,700.0	7,740.0	7,922.3	7,756.7	93.3	25.9	-92.21	2,903.8	-52.4	2,368.6	2,257.1	111.53	21.237		
12,800.0	7,740.0	7,923.7	7,758.1	95.1	25.9	-92.30	2,903.9	-52.4	2,462.6	2,349.4	113.26	21.743		
12,900.0	7,740.0	7,925.0	7,759.4	96.8	25.9	-92.39	2,903.9	-52.4	2,557.1	2,442.1	114.99	22.237		
13,000.0	7,740.0	7,926.3	7,760.7	98.5	25.9	-92.49	2,903.9	-52.4	2,652.0	2,535.3	116.72	22.721		
13,100.0	7,740.0	7,927.6	7,762.0	100.2	25.9	-92.58	2,903.9	-52.4	2,747.2	2,628.8	118.45	23.193		
13,200.0	7,740.0	7,928.9	7,763.3	102.0	25.9	-92.67	2,903.9	-52.3	2,842.8	2,722.6	120.18	23.654		
13,300.0	7,740.0	7,930.2	7,764.6	103.7	25.9	-92.76	2,904.0	-52.3	2,938.6	2,816.7	121.91	24.105		
13,400.0	7,740.0	7,931.5	7,765.9	105.4	25.9	-92.85	2,904.0	-52.3	3,034.8	2,911.1	123.64	24.545		
13,500.0	7,740.0	7,932.8	7,767.2	107.2	25.9	-92.94	2,904.0	-52.3	3,131.1	3,005.8	125.37	24.975		
13,600.0	7,740.0	7,934.1	7,768.5	108.9	25.9	-93.03	2,904.0	-52.3	3,227.7	3,100.6	127.10	25.395		
13,700.0	7,740.0	7,935.4	7,769.8	110.6	25.9	-93.12	2,904.0	-52.3	3,324.5	3,195.7	128.83	25.805		
13,800.0	7,740.0	7,936.6	7,771.1	112.3	25.9	-93.21	2,904.0	-52.3	3,421.5	3,290.9	130.56	26.206		
13,900.0	7,740.0	7,937.9	7,772.3	114.1	25.9	-93.29	2,904.1	-52.3	3,518.6	3,386.3	132.29	26.598		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 797-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
14,000.0	7,740.0	7,939.2	7,773.6	115.8	25.9	-93.38	2,904.1	-52.3	3,615.9	3,481.9	134.02	26.981	
14,100.0	7,740.0	7,940.5	7,774.9	117.5	25.9	-93.47	2,904.1	-52.3	3,713.4	3,577.6	135.75	27.355	
14,200.0	7,740.0	7,941.7	7,776.1	119.3	25.9	-93.56	2,904.1	-52.3	3,810.9	3,673.5	137.48	27.721	
14,300.0	7,740.0	7,943.0	7,777.4	121.0	25.9	-93.65	2,904.1	-52.3	3,908.6	3,769.4	139.20	28.078	
14,400.0	7,740.0	7,944.2	7,778.7	122.8	25.9	-93.73	2,904.1	-52.3	4,006.5	3,865.5	140.93	28.428	
14,500.0	7,740.0	7,945.5	7,779.9	124.5	25.9	-93.82	2,904.2	-52.3	4,104.4	3,961.7	142.66	28.770	
14,600.0	7,740.0	7,946.7	7,781.2	126.2	25.9	-93.91	2,904.2	-52.3	4,202.4	4,058.0	144.39	29.105	
14,696.1	7,740.0	7,947.9	7,782.4	127.9	25.9	-93.99	2,904.2	-52.3	4,296.6	4,150.6	146.05	29.420	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	17.98	4,282.5	1,389.6	4,502.5					
100.0	100.0	72.7	72.7	0.2	0.1	17.98	4,282.4	1,389.7	4,502.2	4,502.0	0.28	N/A		
189.0	189.0	151.0	151.0	0.3	0.3	17.98	4,282.2	1,389.7	4,502.1	4,501.5	0.57	7,889.496		
200.0	200.0	159.5	159.5	0.3	0.3	17.98	4,282.2	1,389.7	4,502.1	4,501.5	0.60	7,443.480		
300.0	300.0	242.4	242.4	0.5	0.4	17.98	4,282.5	1,389.5	4,502.3	4,501.4	0.92	4,872.547		
400.0	400.0	333.8	333.8	0.7	0.6	17.97	4,283.2	1,389.1	4,502.9	4,501.6	1.26	3,578.690		
500.0	500.0	441.0	441.0	0.9	0.8	-76.07	4,284.1	1,388.4	4,503.3	4,501.7	1.62	2,778.238		
600.0	600.0	570.9	570.9	1.0	1.0	-76.12	4,284.5	1,387.7	4,502.8	4,500.8	2.03	2,222.434		
700.0	699.9	655.2	655.2	1.2	1.1	-76.19	4,284.7	1,386.7	4,501.6	4,499.3	2.36	1,908.814		
800.0	799.7	739.2	739.2	1.4	1.3	-76.29	4,285.6	1,385.1	4,500.6	4,497.9	2.70	1,666.825		
900.0	899.4	860.5	860.4	1.6	1.5	-76.46	4,286.8	1,382.7	4,499.1	4,496.0	3.12	1,441.766		
1,000.0	998.9	959.2	959.1	1.8	1.7	-76.62	4,287.4	1,380.5	4,496.7	4,493.2	3.52	1,278.105		
1,076.7	1,075.1	1,027.6	1,027.5	2.0	1.8	-76.76	4,288.1	1,378.5	4,494.9	4,491.1	3.82	1,176.014		
1,100.0	1,098.3	1,051.5	1,051.4	2.1	1.9	-76.81	4,288.4	1,377.8	4,494.3	4,490.4	3.92	1,146.140		
1,200.0	1,197.6	1,153.7	1,153.5	2.3	2.0	-77.00	4,289.5	1,374.9	4,491.8	4,487.4	4.35	1,032.780		
1,300.0	1,296.9	1,247.8	1,247.6	2.6	2.2	-77.17	4,290.5	1,372.1	4,489.3	4,484.5	4.77	941.508		
1,400.0	1,396.2	1,342.2	1,341.9	2.8	2.4	-77.35	4,291.7	1,369.3	4,487.0	4,481.8	5.19	864.272		
1,500.0	1,495.5	1,474.8	1,474.5	3.1	2.6	-77.60	4,293.1	1,365.2	4,484.6	4,478.9	5.69	788.467		
1,600.0	1,594.8	1,574.7	1,574.3	3.3	2.8	-77.78	4,293.5	1,362.0	4,481.6	4,475.5	6.13	731.470		
1,700.0	1,694.1	1,673.7	1,673.2	3.6	3.0	-77.97	4,294.1	1,358.8	4,478.8	4,472.2	6.57	682.097		
1,800.0	1,793.4	1,770.0	1,769.5	3.9	3.2	-78.15	4,294.6	1,355.7	4,475.9	4,468.9	7.00	639.200		
1,900.0	1,892.7	1,873.6	1,873.0	4.1	3.3	-78.35	4,295.2	1,352.4	4,473.2	4,465.7	7.45	600.277		
2,000.0	1,992.0	1,987.0	1,986.3	4.4	3.6	-78.56	4,295.4	1,349.3	4,470.3	4,462.3	7.92	564.525		
2,100.0	2,091.3	2,147.5	2,146.8	4.7	3.8	-78.83	4,293.8	1,345.8	4,466.3	4,457.8	8.47	527.599		
2,200.0	2,190.6	2,228.4	2,227.8	4.9	4.0	-78.97	4,292.5	1,344.3	4,462.0	4,453.1	8.87	502.995		
2,300.0	2,289.9	2,300.0	2,299.3	5.2	4.1	-79.08	4,291.8	1,343.4	4,458.5	4,449.2	9.26	481.498		
2,400.0	2,389.2	2,363.4	2,362.7	5.5	4.2	-79.18	4,291.7	1,342.7	4,455.7	4,446.1	9.64	462.447		
2,500.0	2,488.5	2,460.8	2,460.0	5.7	4.4	-79.34	4,291.9	1,341.6	4,453.4	4,443.3	10.07	442.123		
2,600.0	2,587.8	2,563.7	2,563.0	6.0	4.6	-79.52	4,292.1	1,339.7	4,450.9	4,440.4	10.52	423.008		
2,700.0	2,687.1	2,659.5	2,658.7	6.3	4.7	-79.69	4,292.3	1,337.9	4,448.5	4,437.5	10.96	405.948		
2,800.0	2,786.4	2,735.4	2,734.7	6.5	4.9	-79.82	4,292.5	1,336.7	4,446.3	4,435.0	11.36	391.433		
2,900.0	2,885.7	2,800.0	2,799.2	6.8	5.0	-79.92	4,293.3	1,335.8	4,445.0	4,433.2	11.74	378.619		
3,000.0	2,985.0	2,909.2	2,908.4	7.1	5.2	-80.11	4,294.7	1,334.7	4,443.9	4,431.7	12.20	364.281		
3,100.0	3,084.3	3,000.0	2,999.2	7.3	5.3	-80.26	4,295.8	1,333.7	4,442.9	4,430.3	12.63	351.851		
3,200.0	3,183.6	3,095.2	3,094.4	7.6	5.5	-80.42	4,297.2	1,332.5	4,442.0	4,428.9	13.06	340.036		
3,300.0	3,282.9	3,178.0	3,177.1	7.9	5.6	-80.56	4,298.6	1,331.4	4,441.4	4,427.9	13.48	329.502		
3,400.0	3,382.2	3,269.9	3,269.1	8.1	5.8	-80.72	4,300.5	1,329.9	4,441.1	4,427.2	13.91	319.227		
3,463.1	3,444.9	3,324.3	3,323.4	8.3	5.9	-80.82	4,301.7	1,328.9	4,441.0	4,426.8	14.18	313.213		
3,500.0	3,481.5	3,352.6	3,351.7	8.4	6.0	-80.87	4,302.4	1,328.4	4,441.0	4,426.7	14.33	309.931		
3,600.0	3,580.9	3,444.4	3,443.4	8.7	6.1	-81.04	4,304.9	1,326.6	4,441.5	4,426.7	14.76	300.831		
3,700.0	3,680.2	3,559.6	3,558.5	9.0	6.3	-81.26	4,308.0	1,323.9	4,441.7	4,426.5	15.24	291.410		
3,800.0	3,779.5	3,670.0	3,668.9	9.2	6.5	-81.46	4,310.5	1,321.5	4,441.7	4,426.0	15.71	282.725		
3,900.0	3,878.8	3,774.2	3,773.1	9.5	6.7	-81.64	4,312.6	1,319.6	4,441.5	4,425.3	16.17	274.745		
4,000.0	3,978.1	3,879.2	3,878.1	9.8	6.9	-81.83	4,314.5	1,317.9	4,441.3	4,424.7	16.62	267.188		
4,100.0	4,077.4	3,998.5	3,997.4	10.0	7.1	-82.04	4,316.4	1,316.0	4,440.8	4,423.7	17.10	259.626		
4,200.0	4,176.7	4,099.4	4,098.2	10.3	7.3	-82.21	4,317.7	1,314.4	4,440.1	4,422.6	17.55	252.946		
4,300.0	4,276.0	4,196.1	4,194.9	10.6	7.5	-82.38	4,318.9	1,312.7	4,439.5	4,421.5	18.00	246.685		
4,400.0	4,375.3	4,321.6	4,320.3	10.8	7.7	-82.61	4,320.3	1,310.3	4,438.7	4,420.2	18.49	240.044		
4,500.0	4,474.6	4,446.8	4,445.5	11.1	7.9	-82.83	4,320.8	1,307.8	4,437.1	4,418.1	18.98	233.721		
4,600.0	4,573.9	4,540.9	4,539.6	11.4	8.1	-82.99	4,321.0	1,306.1	4,435.5	4,416.0	19.42	228.368		
4,700.0	4,673.2	4,634.4	4,633.0	11.7	8.3	-83.16	4,321.4	1,304.3	4,434.1	4,414.2	19.86	223.279		
4,800.0	4,772.5	4,732.6	4,731.3	11.9	8.4	-83.33	4,321.7	1,302.6	4,432.7	4,412.4	20.30	218.318		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY												Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,900.0	4,871.8	4,815.8	4,814.5	12.2	8.6	-83.47	4,322.2	1,301.2	4,431.6	4,410.8	20.72	213.862	
5,000.0	4,971.1	4,900.0	4,898.7	12.5	8.7	-83.61	4,322.9	1,300.1	4,430.9	4,409.7	21.14	209.600	
5,100.0	5,070.4	5,019.6	5,018.2	12.7	8.9	-83.82	4,323.8	1,298.5	4,430.1	4,408.5	21.62	204.884	
5,200.0	5,169.7	5,109.9	5,108.5	13.0	9.1	-83.97	4,324.4	1,297.2	4,429.2	4,407.2	22.05	200.852	
5,300.0	5,269.0	5,200.0	5,198.6	13.3	9.3	-84.12	4,325.3	1,296.3	4,428.7	4,406.3	22.48	197.006	
5,400.0	5,368.3	5,292.4	5,291.1	13.5	9.4	-84.27	4,326.3	1,295.6	4,428.5	4,405.6	22.91	193.274	
5,500.0	5,467.6	5,398.9	5,397.5	13.8	9.6	-84.45	4,327.3	1,294.6	4,428.1	4,404.8	23.37	189.474	
5,600.0	5,566.9	5,488.8	5,487.4	14.1	9.8	-84.60	4,328.2	1,293.8	4,427.8	4,404.0	23.80	186.050	
5,700.0	5,666.2	5,585.1	5,583.6	14.4	9.9	-84.76	4,329.3	1,293.0	4,427.7	4,403.5	24.24	182.681	
5,737.0	5,702.9	5,619.2	5,617.8	14.5	10.0	-84.81	4,329.7	1,292.9	4,427.7	4,403.3	24.40	181.487	
5,800.0	5,765.5	5,675.1	5,673.7	14.6	10.1	-84.90	4,330.4	1,292.7	4,427.8	4,403.1	24.66	179.516	
5,900.0	5,864.8	5,779.2	5,777.8	14.9	10.3	-85.07	4,331.7	1,292.1	4,427.9	4,402.8	25.12	176.283	
6,000.0	5,964.1	5,900.0	5,898.6	15.2	10.5	-85.27	4,333.0	1,290.8	4,427.8	4,402.2	25.60	172.943	
6,100.0	6,063.4	5,995.1	5,993.7	15.4	10.6	-85.43	4,333.8	1,289.7	4,427.5	4,401.5	26.04	170.024	
6,200.0	6,162.7	6,094.0	6,092.6	15.7	10.8	-85.60	4,334.7	1,288.5	4,427.3	4,400.8	26.49	167.150	
6,238.8	6,201.2	6,125.2	6,123.7	15.8	10.9	-85.65	4,335.0	1,288.0	4,427.3	4,400.6	26.65	166.146	
6,300.0	6,262.0	6,172.2	6,170.7	16.0	11.0	-85.73	4,335.6	1,287.3	4,427.4	4,400.5	26.90	164.612	
6,400.0	6,361.3	6,292.3	6,290.8	16.2	11.2	-85.94	4,337.2	1,285.5	4,427.7	4,400.3	27.38	161.704	
6,500.0	6,460.7	6,389.0	6,387.5	16.5	11.3	-86.12	4,338.2	1,283.6	4,427.6	4,399.7	27.82	159.122	
6,600.0	6,560.0	6,513.2	6,511.7	16.8	11.6	-86.34	4,339.1	1,281.1	4,427.3	4,399.0	28.32	156.340	
6,700.0	6,659.3	6,600.0	6,598.4	17.1	11.7	-86.49	4,339.8	1,279.3	4,427.0	4,398.2	28.74	154.012	
6,760.0	6,718.8	6,652.2	6,650.6	17.2	11.8	-86.59	4,340.2	1,278.3	4,426.9	4,397.9	29.00	152.654	
6,800.0	6,758.6	6,690.1	6,688.5	17.3	11.9	-86.65	4,340.6	1,277.6	4,426.9	4,397.7	29.18	151.734	
6,900.0	6,857.9	6,799.8	6,798.2	17.6	12.1	-86.86	4,341.6	1,275.0	4,426.9	4,397.2	29.65	149.325	
6,989.5	6,946.7	6,883.2	6,881.6	17.8	12.2	-87.02	4,342.4	1,272.4	4,426.8	4,396.8	30.04	147.360	
7,000.0	6,957.2	6,893.1	6,891.4	17.9	12.3	-87.04	4,342.5	1,272.1	4,426.8	4,396.7	30.09	147.132	
7,100.0	7,056.5	6,991.5	6,989.7	18.1	12.4	-87.23	4,343.5	1,268.7	4,426.9	4,396.3	30.54	144.957	
7,200.0	7,155.8	7,061.7	7,059.9	18.4	12.6	-87.37	4,344.5	1,266.2	4,427.3	4,396.3	30.94	143.097	
7,210.0	7,165.7	7,068.4	7,066.6	18.4	12.6	-87.39	4,344.6	1,265.9	4,427.3	4,396.4	30.98	142.917	
7,250.0	7,205.4	7,100.0	7,098.2	18.5	12.6	-55.88	4,345.2	1,264.8	4,426.4	4,395.3	31.08	142.411	
7,300.0	7,254.8	7,133.7	7,131.8	18.7	12.7	-31.73	4,346.0	1,263.8	4,421.4	4,390.4	31.03	142.495	
7,350.0	7,303.5	7,172.4	7,170.5	18.8	12.8	-19.82	4,346.9	1,262.8	4,412.3	4,381.5	30.80	143.269	
7,400.0	7,351.2	7,200.0	7,198.1	18.9	12.8	-13.24	4,347.6	1,262.2	4,399.0	4,368.7	30.36	144.884	
7,450.0	7,397.6	7,243.0	7,241.0	19.0	12.9	-9.13	4,348.7	1,261.5	4,381.8	4,352.0	29.78	147.162	
7,500.0	7,442.2	7,275.5	7,273.5	19.2	13.0	-6.25	4,349.7	1,261.1	4,360.7	4,331.7	29.00	150.366	
7,550.0	7,484.8	7,300.0	7,298.1	19.3	13.0	-4.06	4,350.5	1,260.9	4,336.0	4,307.9	28.06	154.551	
7,600.0	7,525.0	7,339.1	7,337.1	19.5	13.1	-2.25	4,351.8	1,260.6	4,307.6	4,280.6	26.99	159.611	
7,650.0	7,562.4	7,369.1	7,367.1	19.6	13.1	-0.62	4,352.9	1,260.6	4,275.9	4,250.1	25.78	165.842	
7,700.0	7,596.9	7,400.0	7,398.0	19.8	13.2	0.97	4,354.1	1,260.7	4,241.1	4,216.6	24.48	173.243	
7,750.0	7,628.2	7,400.0	7,398.0	20.0	13.2	2.61	4,354.1	1,260.7	4,203.4	4,180.4	23.07	182.182	
7,800.0	7,656.0	7,435.8	7,433.7	20.3	13.2	4.51	4,355.5	1,261.0	4,163.1	4,141.4	21.70	191.875	
7,850.0	7,680.1	7,451.8	7,449.7	20.5	13.3	6.80	4,356.3	1,261.1	4,120.5	4,100.1	20.36	202.415	
7,900.0	7,700.3	7,465.6	7,463.6	20.8	13.3	9.81	4,356.9	1,261.2	4,075.9	4,056.7	19.21	212.223	
7,950.0	7,716.5	7,477.1	7,475.0	21.1	13.3	14.13	4,357.5	1,261.3	4,029.6	4,011.1	18.50	217.840	
8,000.0	7,728.5	7,500.0	7,497.9	21.5	13.3	21.19	4,358.7	1,261.5	3,982.0	3,963.2	18.83	211.482	
8,050.0	7,736.3	7,500.0	7,497.9	21.9	13.3	33.21	4,358.7	1,261.5	3,933.3	3,912.1	21.20	185.534	
8,100.0	7,739.8	7,500.0	7,497.9	22.2	13.3	56.30	4,358.7	1,261.5	3,884.0	3,857.3	26.75	145.178	
8,115.3	7,740.0	7,500.0	7,497.9	22.4	13.3	66.58	4,358.7	1,261.5	3,868.8	3,840.2	28.63	135.148	
8,200.0	7,740.0	7,500.0	7,497.9	23.1	13.3	66.58	4,358.7	1,261.5	3,784.9	3,755.4	29.51	128.266	
8,300.0	7,740.0	7,505.6	7,503.5	24.1	13.4	67.16	4,359.0	1,261.5	3,685.9	3,655.1	30.72	119.975	
8,400.0	7,740.0	7,511.2	7,509.1	25.2	13.4	67.74	4,359.3	1,261.6	3,586.9	3,554.8	32.02	112.034	
8,500.0	7,740.0	7,516.8	7,514.7	26.3	13.4	68.33	4,359.6	1,261.6	3,487.9	3,454.5	33.38	104.501	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY											Offset Site Error: 0.0 ft		
Survey Program: 100-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
8,600.0	7,740.0	7,522.4	7,520.2	27.5	13.4	68.92	4,359.9	1,261.6	3,389.0	3,354.2	34.80	97.397	
8,700.0	7,740.0	7,527.9	7,525.8	28.7	13.4	69.51	4,360.1	1,261.7	3,290.1	3,253.9	36.26	90.727	
8,800.0	7,740.0	7,533.5	7,531.3	30.0	13.4	70.10	4,360.4	1,261.7	3,191.3	3,153.6	37.78	84.481	
8,900.0	7,740.0	7,539.0	7,536.8	31.4	13.4	70.70	4,360.7	1,261.8	3,092.6	3,053.3	39.32	78.643	
9,000.0	7,740.0	7,544.5	7,542.3	32.8	13.4	71.30	4,361.0	1,261.8	2,994.0	2,953.1	40.91	73.190	
9,100.0	7,740.0	7,550.0	7,547.8	34.2	13.4	71.90	4,361.3	1,261.9	2,895.4	2,852.9	42.52	68.099	
9,200.0	7,740.0	7,555.5	7,553.3	35.6	13.4	72.50	4,361.6	1,261.9	2,796.9	2,752.8	44.15	63.346	
9,300.0	7,740.0	7,560.9	7,558.7	37.1	13.5	73.11	4,361.9	1,262.0	2,698.6	2,652.8	45.81	58.905	
9,400.0	7,740.0	7,566.3	7,564.1	38.6	13.5	73.71	4,362.2	1,262.0	2,600.3	2,552.8	47.49	54.754	
9,500.0	7,740.0	7,571.7	7,569.5	40.1	13.5	74.32	4,362.4	1,262.1	2,502.2	2,453.0	49.19	50.870	
9,600.0	7,740.0	7,577.1	7,574.9	41.7	13.5	74.93	4,362.7	1,262.1	2,404.2	2,353.3	50.90	47.234	
9,700.0	7,740.0	7,582.5	7,580.3	43.2	13.5	75.54	4,363.0	1,262.2	2,306.4	2,253.7	52.63	43.826	
9,800.0	7,740.0	7,587.8	7,585.6	44.8	13.5	76.15	4,363.3	1,262.2	2,208.7	2,154.4	54.36	40.628	
9,900.0	7,740.0	7,593.2	7,590.9	46.4	13.5	76.76	4,363.6	1,262.3	2,111.3	2,055.2	56.11	37.625	
10,000.0	7,740.0	7,598.5	7,596.2	48.0	13.5	77.38	4,363.8	1,262.4	2,014.1	1,956.2	57.87	34.802	
10,100.0	7,740.0	7,604.5	7,602.2	49.6	13.5	78.07	4,364.1	1,262.4	1,917.2	1,857.5	59.66	32.137	
10,200.0	7,740.0	7,610.6	7,608.3	51.2	13.5	78.78	4,364.5	1,262.5	1,820.5	1,759.1	61.45	29.627	
10,300.0	7,740.0	7,616.6	7,614.3	52.8	13.6	79.48	4,364.8	1,262.5	1,724.3	1,661.1	63.25	27.264	
10,400.0	7,740.0	7,622.5	7,620.2	54.5	13.6	80.18	4,365.1	1,262.6	1,628.5	1,563.4	65.04	25.037	
10,500.0	7,740.0	7,628.2	7,625.9	56.1	13.6	80.86	4,365.3	1,262.6	1,533.2	1,466.4	66.84	22.938	
10,600.0	7,740.0	7,633.9	7,631.6	57.7	13.6	81.53	4,365.6	1,262.7	1,438.5	1,369.9	68.64	20.957	
10,700.0	7,740.0	7,639.4	7,637.1	59.4	13.6	82.18	4,365.9	1,262.7	1,344.6	1,274.2	70.44	19.089	
10,800.0	7,740.0	7,644.9	7,642.6	61.1	13.6	82.83	4,366.1	1,262.8	1,251.6	1,179.4	72.23	17.327	
10,900.0	7,740.0	7,650.2	7,647.9	62.7	13.6	83.47	4,366.4	1,262.8	1,159.7	1,085.7	74.03	15.666	
11,000.0	7,740.0	7,655.4	7,653.1	64.4	13.6	84.10	4,366.6	1,262.9	1,069.3	993.5	75.82	14.104	
11,100.0	7,740.0	7,660.6	7,658.2	66.1	13.6	84.71	4,366.9	1,262.9	980.7	903.1	77.61	12.637	
11,200.0	7,740.0	7,665.6	7,663.3	67.7	13.6	85.32	4,367.1	1,262.9	894.5	815.1	79.39	11.268	
11,300.0	7,740.0	7,670.6	7,668.2	69.4	13.7	85.91	4,367.3	1,263.0	811.5	730.3	81.17	9.997	
11,395.3	7,740.0	7,675.2	7,672.9	71.0	13.7	86.47	4,367.6	1,263.0	736.2	653.3	82.86	8.884	
11,400.0	7,740.0	7,675.4	7,673.1	71.1	13.7	86.50	4,367.6	1,263.0	732.6	649.7	82.96	8.832	
11,500.0	7,740.0	7,680.2	7,677.8	72.8	13.7	87.02	4,367.8	1,263.0	658.9	573.9	84.95	7.755	
11,584.7	7,740.0	7,684.2	7,681.8	74.2	13.7	87.47	4,368.0	1,263.1	601.2	514.6	86.63	6.940	
11,600.0	7,740.0	7,684.9	7,682.6	74.5	13.7	87.56	4,368.0	1,263.1	591.4	504.5	86.90	6.806	
11,700.0	7,740.0	7,689.5	7,687.2	76.2	13.7	88.14	4,368.2	1,263.1	533.7	445.0	88.66	6.019	
11,800.0	7,740.0	7,694.1	7,691.7	77.9	13.7	88.71	4,368.4	1,263.1	489.8	399.3	90.42	5.416	
11,900.0	7,740.0	7,698.5	7,696.2	79.6	13.7	89.27	4,368.6	1,263.2	463.5	371.3	92.17	5.029	
11,975.3	7,740.0	7,701.8	7,699.4	80.9	13.7	89.68	4,368.7	1,263.2	457.4	363.9	93.49	4.892 CC, ES	
12,000.0	7,740.0	7,702.9	7,700.5	81.3	13.7	89.81	4,368.8	1,263.2	458.0	364.1	93.92	4.877 SF	
12,100.0	7,740.0	7,707.2	7,704.8	83.0	13.7	90.35	4,369.0	1,263.2	474.0	378.4	95.65	4.956	
12,200.0	7,740.0	7,711.5	7,709.1	84.8	13.7	90.89	4,369.1	1,263.3	509.5	412.1	97.39	5.232	
12,300.0	7,740.0	7,715.8	7,713.5	86.5	13.7	91.43	4,369.3	1,263.3	560.7	461.6	99.11	5.658	
12,400.0	7,740.0	7,720.2	7,717.8	88.2	13.7	91.97	4,369.5	1,263.3	623.9	523.0	100.82	6.187	
12,500.0	7,740.0	7,724.5	7,722.1	89.9	13.7	92.51	4,369.7	1,263.3	695.7	593.1	102.53	6.785	
12,600.0	7,740.0	7,728.8	7,726.4	91.6	13.8	93.05	4,369.9	1,263.4	773.7	669.5	104.23	7.423	
12,700.0	7,740.0	7,733.1	7,730.7	93.3	13.8	93.59	4,370.1	1,263.4	856.4	750.4	105.92	8.085	
12,800.0	7,740.0	7,737.5	7,735.1	95.1	13.8	94.13	4,370.3	1,263.4	942.3	834.7	107.60	8.758	
12,900.0	7,740.0	7,741.8	7,739.4	96.8	13.8	94.67	4,370.5	1,263.5	1,030.8	921.6	109.27	9.434	
13,000.0	7,740.0	7,746.1	7,743.7	98.5	13.8	95.21	4,370.6	1,263.5	1,121.2	1,010.3	110.92	10.108	
13,100.0	7,740.0	7,750.5	7,748.0	100.2	13.8	95.75	4,370.8	1,263.5	1,213.1	1,100.6	112.57	10.777	
13,200.0	7,740.0	7,754.8	7,752.4	102.0	13.8	96.28	4,371.0	1,263.6	1,306.2	1,192.0	114.21	11.437	
13,300.0	7,740.0	7,759.1	7,756.7	103.7	13.8	96.82	4,371.2	1,263.6	1,400.2	1,284.4	115.83	12.089	
13,400.0	7,740.0	7,763.5	7,761.0	105.4	13.8	97.35	4,371.4	1,263.6	1,495.0	1,377.6	117.44	12.730	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,500.0	7,740.0	7,767.8	7,765.4	107.2	13.8	97.88	4,371.6	1,263.6	1,590.4	1,471.4	119.04	13.361		
13,600.0	7,740.0	7,772.2	7,769.7	108.9	13.8	98.42	4,371.8	1,263.7	1,686.4	1,565.7	120.62	13.981		
13,700.0	7,740.0	7,776.5	7,774.1	110.6	13.8	98.95	4,372.0	1,263.7	1,782.7	1,660.5	122.19	14.589		
13,800.0	7,740.0	7,780.9	7,778.4	112.3	13.8	99.48	4,372.1	1,263.7	1,879.5	1,755.7	123.75	15.188		
13,900.0	7,740.0	7,785.2	7,782.8	114.1	13.9	100.00	4,372.3	1,263.8	1,976.5	1,851.2	125.29	15.775		
14,000.0	7,740.0	7,789.6	7,787.1	115.8	13.9	100.53	4,372.5	1,263.8	2,073.8	1,947.0	126.82	16.352		
14,100.0	7,740.0	7,793.9	7,791.5	117.5	13.9	101.05	4,372.7	1,263.8	2,171.4	2,043.1	128.34	16.920		
14,200.0	7,740.0	7,798.3	7,795.8	119.3	13.9	101.58	4,372.9	1,263.9	2,269.2	2,139.3	129.83	17.477		
14,300.0	7,740.0	7,802.8	7,800.3	121.0	13.9	102.11	4,373.1	1,263.9	2,367.1	2,235.8	131.31	18.026		
14,400.0	7,740.0	7,807.3	7,804.8	122.8	13.9	102.66	4,373.3	1,263.9	2,465.2	2,332.4	132.77	18.568		
14,500.0	7,740.0	7,811.9	7,809.4	124.5	13.9	103.20	4,373.5	1,264.0	2,563.4	2,429.2	134.21	19.101		
14,600.0	7,740.0	7,816.5	7,814.1	126.2	13.9	103.75	4,373.7	1,264.0	2,661.8	2,526.2	135.63	19.626		
14,696.1	7,740.0	7,821.0	7,818.5	127.9	13.9	104.27	4,373.9	1,264.0	2,756.4	2,619.4	136.97	20.124		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL													Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	14.84	3,659.5	969.4	3,785.8					
100.0	100.0	84.0	84.0	0.2	0.1	14.84	3,659.5	969.4	3,785.7	3,785.4	0.30	N/A		
200.0	200.0	184.0	184.0	0.3	0.3	14.84	3,659.5	969.4	3,785.7	3,785.1	0.64	5,895.596		
300.0	300.0	284.0	284.0	0.5	0.5	14.84	3,659.5	969.4	3,785.7	3,784.8	0.99	3,830.681		
400.0	400.0	384.0	384.0	0.7	0.7	14.84	3,659.5	969.4	3,785.7	3,784.4	1.33	2,837.022		
500.0	500.0	484.0	484.0	0.9	0.8	-79.19	3,659.5	969.4	3,785.6	3,783.9	1.68	2,251.903		
600.0	600.0	584.0	584.0	1.0	1.0	-79.24	3,659.5	969.4	3,785.1	3,783.1	2.03	1,864.101		
700.0	699.9	683.9	683.9	1.2	1.2	-79.31	3,659.5	969.4	3,784.3	3,781.9	2.39	1,586.090		
800.0	799.7	775.0	775.0	1.4	1.3	-79.40	3,659.5	969.4	3,783.2	3,780.4	2.74	1,382.879		
845.5	845.0	775.0	775.0	1.5	1.3	-79.40	3,659.5	969.4	3,782.9	3,780.1	2.83	1,336.986		
900.0	899.4	775.0	775.0	1.6	1.3	-79.40	3,659.5	969.4	3,783.3	3,780.3	2.94	1,286.010		
1,000.0	998.9	775.0	775.0	1.8	1.3	-79.38	3,659.5	969.4	3,785.7	3,782.5	3.16	1,196.543		
1,076.7	1,075.1	775.0	775.0	2.0	1.3	-79.34	3,659.5	969.4	3,789.1	3,785.8	3.35	1,132.622		
1,100.0	1,098.3	775.0	775.0	2.1	1.3	-79.34	3,659.5	969.4	3,790.4	3,787.0	3.40	1,114.292		
1,185.4	1,183.1	959.8	959.6	2.3	1.9	-79.71	3,665.2	967.5	3,786.9	3,782.9	4.00	947.737		
1,200.0	1,197.6	966.5	966.4	2.3	1.9	-79.73	3,665.6	967.4	3,787.5	3,783.4	4.05	936.089		
1,300.0	1,296.9	1,012.9	1,012.7	2.6	2.1	-79.84	3,668.9	966.3	3,791.8	3,787.4	4.40	862.454		
1,400.0	1,396.2	1,059.2	1,058.7	2.8	2.2	-79.95	3,672.9	965.1	3,797.5	3,792.8	4.75	799.303		
1,500.0	1,495.5	1,105.2	1,104.4	3.1	2.4	-80.07	3,677.6	963.6	3,804.7	3,799.6	5.11	744.771		
1,600.0	1,594.8	1,150.9	1,149.9	3.3	2.5	-80.20	3,683.0	961.8	3,813.3	3,807.8	5.47	697.361		
1,700.0	1,694.1	1,196.5	1,194.9	3.6	2.7	-80.33	3,689.0	959.9	3,823.3	3,817.5	5.83	655.880		
1,800.0	1,793.4	1,380.6	1,376.1	3.9	3.3	-80.90	3,720.2	949.9	3,840.2	3,833.7	6.50	590.464		
1,900.0	1,892.7	1,380.6	1,376.1	4.1	3.3	-80.90	3,720.2	949.9	3,850.1	3,843.4	6.77	569.079		
2,000.0	1,992.0	1,380.6	1,376.1	4.4	3.3	-80.90	3,720.2	949.9	3,862.7	3,855.6	7.03	549.586		
2,100.0	2,091.3	1,380.6	1,376.1	4.7	3.3	-80.90	3,720.2	949.9	3,877.7	3,870.4	7.29	531.795		
2,200.0	2,190.6	1,465.7	1,459.3	4.9	3.6	-81.18	3,737.2	944.4	3,894.3	3,886.6	7.76	501.704		
2,300.0	2,289.9	1,561.9	1,553.4	5.2	4.0	-81.49	3,756.5	938.2	3,911.1	3,902.8	8.26	473.540		
2,400.0	2,389.2	1,658.1	1,647.4	5.5	4.4	-81.80	3,775.7	932.1	3,928.0	3,919.2	8.76	448.618		
2,500.0	2,488.5	1,754.3	1,741.4	5.7	4.8	-82.11	3,794.9	925.9	3,945.0	3,935.7	9.25	426.424		
2,600.0	2,587.8	1,850.4	1,835.5	6.0	5.1	-82.42	3,814.1	919.7	3,962.1	3,952.3	9.75	406.544		
2,700.0	2,687.1	1,946.6	1,929.5	6.3	5.5	-82.72	3,833.3	913.6	3,979.3	3,969.1	10.24	388.641		
2,800.0	2,786.4	2,042.8	2,023.5	6.5	5.9	-83.03	3,852.5	907.4	3,996.7	3,985.9	10.73	372.442		
2,900.0	2,885.7	2,139.0	2,117.6	6.8	6.3	-83.33	3,871.7	901.2	4,014.1	4,002.9	11.22	357.718		
3,000.0	2,985.0	2,235.1	2,211.6	7.1	6.7	-83.62	3,890.9	895.1	4,031.7	4,020.0	11.71	344.281		
3,100.0	3,084.3	2,331.3	2,305.7	7.3	7.1	-83.92	3,910.1	888.9	4,049.4	4,037.2	12.20	331.972		
3,200.0	3,183.6	2,427.5	2,399.7	7.6	7.5	-84.21	3,929.3	882.7	4,067.1	4,054.5	12.68	320.658		
3,300.0	3,282.9	2,523.7	2,493.7	7.9	7.9	-84.50	3,948.6	876.6	4,085.0	4,071.9	13.17	310.224		
3,400.0	3,382.2	2,619.8	2,587.8	8.1	8.2	-84.79	3,967.8	870.4	4,103.0	4,089.4	13.65	300.575		
3,500.0	3,481.5	2,716.0	2,681.8	8.4	8.6	-85.07	3,987.0	864.2	4,121.1	4,107.0	14.13	291.625		
3,600.0	3,580.9	2,812.2	2,775.8	8.7	9.0	-85.35	4,006.2	858.0	4,139.3	4,124.7	14.61	283.304		
3,700.0	3,680.2	2,908.4	2,869.9	9.0	9.4	-85.63	4,025.4	851.9	4,157.6	4,142.5	15.09	275.548		
3,800.0	3,779.5	3,004.5	2,963.9	9.2	9.8	-85.91	4,044.6	845.7	4,176.0	4,160.5	15.56	268.303		
3,900.0	3,878.8	3,100.7	3,057.9	9.5	10.2	-86.19	4,063.8	839.5	4,194.5	4,178.5	16.04	261.521		
4,000.0	3,978.1	3,196.9	3,152.0	9.8	10.6	-86.46	4,083.0	833.4	4,213.1	4,196.6	16.51	255.160		
4,100.0	4,077.4	3,293.1	3,246.0	10.0	10.9	-86.73	4,102.2	827.2	4,231.8	4,214.8	16.98	249.182		
4,200.0	4,176.7	3,389.2	3,340.0	10.3	11.3	-87.00	4,121.5	821.0	4,250.6	4,233.1	17.45	243.556		
4,300.0	4,276.0	3,485.4	3,434.1	10.6	11.7	-87.27	4,140.7	814.9	4,269.5	4,251.5	17.92	238.250		
4,400.0	4,375.3	3,581.6	3,528.1	10.8	12.1	-87.53	4,159.9	808.7	4,288.4	4,270.1	18.39	233.240		
4,500.0	4,474.6	3,677.8	3,622.1	11.1	12.5	-87.79	4,179.1	802.5	4,307.5	4,288.6	18.85	228.501		
4,600.0	4,573.9	3,773.9	3,716.2	11.4	12.9	-88.05	4,198.3	796.4	4,326.6	4,307.3	19.31	224.013		
4,700.0	4,673.2	3,870.1	3,810.2	11.7	13.3	-88.31	4,217.5	790.2	4,345.9	4,326.1	19.78	219.757		
4,800.0	4,772.5	3,966.3	3,904.2	11.9	13.7	-88.56	4,236.7	784.0	4,365.2	4,345.0	20.24	215.716		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL											Offset Site Error: 0.0 ft		
Survey Program: 775-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,900.0	4,871.8	4,062.5	3,998.3	12.2	14.0	-88.82	4,255.9	777.9	4,384.6	4,363.9	20.69	211.873	
5,000.0	4,971.1	4,158.6	4,092.3	12.5	14.4	-89.07	4,275.1	771.7	4,404.1	4,383.0	21.15	208.216	
5,100.0	5,070.4	4,254.8	4,186.3	12.7	14.8	-89.32	4,294.3	765.5	4,423.7	4,402.1	21.61	204.732	
5,200.0	5,169.7	4,351.0	4,280.4	13.0	15.2	-89.56	4,313.6	759.3	4,443.4	4,421.3	22.06	201.408	
5,300.0	5,269.0	4,447.2	4,374.4	13.3	15.6	-89.81	4,332.8	753.2	4,463.1	4,440.6	22.51	198.234	
5,400.0	5,368.3	4,543.3	4,468.5	13.5	16.0	-90.05	4,352.0	747.0	4,482.9	4,460.0	22.97	195.201	
5,500.0	5,467.6	4,639.5	4,562.5	13.8	16.4	-90.29	4,371.2	740.8	4,502.8	4,479.4	23.42	192.300	
5,600.0	5,566.9	4,735.7	4,656.5	14.1	16.8	-90.53	4,390.4	734.7	4,522.8	4,499.0	23.86	189.522	
5,700.0	5,666.2	4,831.9	4,750.6	14.4	17.1	-90.77	4,409.6	728.5	4,542.9	4,518.6	24.31	186.859	
5,800.0	5,765.5	4,928.0	4,844.6	14.6	17.5	-91.00	4,428.8	722.3	4,563.0	4,538.3	24.76	184.306	
5,900.0	5,864.8	5,024.2	4,938.6	14.9	17.9	-91.23	4,448.0	716.2	4,583.2	4,558.0	25.20	181.856	
6,000.0	5,964.1	5,120.4	5,032.7	15.2	18.3	-91.46	4,467.2	710.0	4,603.5	4,577.9	25.65	179.502	
6,100.0	6,063.4	5,216.6	5,126.7	15.4	18.7	-91.69	4,486.5	703.8	4,623.9	4,597.8	26.09	177.240	
6,200.0	6,162.7	5,312.7	5,220.7	15.7	19.1	-91.92	4,505.7	697.7	4,644.3	4,617.8	26.53	175.063	
6,300.0	6,262.0	5,408.9	5,314.8	16.0	19.5	-92.14	4,524.9	691.5	4,664.8	4,637.8	26.97	172.968	
6,400.0	6,361.3	5,505.1	5,408.8	16.2	19.9	-92.36	4,544.1	685.3	4,685.4	4,658.0	27.41	170.951	
6,500.0	6,460.7	5,601.3	5,502.8	16.5	20.2	-92.58	4,563.3	679.2	4,706.0	4,678.2	27.85	169.006	
6,600.0	6,560.0	5,697.4	5,596.9	16.8	20.6	-92.80	4,582.5	673.0	4,726.7	4,698.5	28.28	167.131	
6,700.0	6,659.3	5,793.6	5,690.9	17.1	21.0	-93.02	4,601.7	666.8	4,747.5	4,718.8	28.72	165.321	
6,800.0	6,758.6	5,889.8	5,784.9	17.3	21.4	-93.24	4,620.9	660.6	4,768.4	4,739.2	29.15	163.573	
6,900.0	6,857.9	5,986.0	5,879.0	17.6	21.8	-93.45	4,640.1	654.5	4,789.3	4,759.7	29.58	161.885	
7,000.0	6,957.2	6,082.1	5,973.0	17.9	22.2	-93.66	4,659.3	648.3	4,810.2	4,780.2	30.02	160.254	
7,100.0	7,056.5	6,178.3	6,067.0	18.1	22.6	-93.87	4,678.6	642.1	4,831.3	4,800.8	30.45	158.676	
7,200.0	7,155.8	6,274.5	6,161.1	18.4	23.0	-94.08	4,697.8	636.0	4,852.4	4,821.5	30.88	157.149	
7,210.0	7,165.7	6,284.1	6,170.5	18.4	23.0	-94.10	4,699.7	635.4	4,854.5	4,823.6	30.92	156.999	
7,250.0	7,205.4	6,322.8	6,208.3	18.5	23.2	-62.63	4,707.4	632.9	4,861.6	4,830.6	31.03	156.661	
7,300.0	7,254.8	6,371.8	6,256.2	18.7	23.4	-38.59	4,717.2	629.7	4,866.6	4,835.6	31.01	156.939	
7,350.0	7,303.5	6,421.0	6,304.3	18.8	23.5	-26.84	4,727.0	626.6	4,867.2	4,836.4	30.81	157.998	
7,400.0	7,351.2	7,461.8	7,335.2	18.9	25.2	-22.31	4,835.9	591.6	4,863.3	4,831.5	31.82	152.832	
7,450.0	7,397.6	7,508.1	7,381.6	19.0	25.3	-18.51	4,835.9	591.6	4,845.6	4,814.4	31.26	155.015	
7,500.0	7,442.2	7,552.7	7,426.2	19.2	25.3	-16.07	4,835.9	591.6	4,823.9	4,793.4	30.53	158.009	
7,550.0	7,484.8	7,595.3	7,468.8	19.3	25.3	-14.43	4,835.9	591.6	4,798.4	4,768.7	29.65	161.852	
7,600.0	7,525.0	7,635.5	7,509.0	19.5	25.4	-13.33	4,835.9	591.6	4,769.2	4,740.6	28.63	166.585	
7,650.0	7,562.4	7,673.0	7,546.4	19.6	25.4	-12.61	4,835.9	591.6	4,736.6	4,709.1	27.50	172.233	
7,700.0	7,596.9	7,707.5	7,580.9	19.8	25.4	-12.20	4,835.9	591.6	4,700.9	4,674.6	26.29	178.785	
7,750.0	7,628.2	7,738.7	7,612.2	20.0	25.5	-12.06	4,835.9	591.6	4,662.2	4,637.2	25.05	186.145	
7,800.0	7,656.0	7,766.5	7,640.0	20.3	25.5	-12.20	4,835.9	591.6	4,620.9	4,597.1	23.81	194.050	
7,850.0	7,680.1	7,790.6	7,664.1	20.5	25.5	-12.68	4,835.9	591.6	4,577.4	4,554.7	22.67	201.920	
7,900.0	7,700.3	7,810.8	7,684.3	20.8	25.5	-13.63	4,835.9	591.6	4,531.9	4,510.2	21.73	208.576	
7,950.0	7,716.5	7,827.0	7,700.5	21.1	25.6	-15.38	4,835.9	591.6	4,484.8	4,463.6	21.19	211.690	
8,000.0	7,728.5	7,839.0	7,712.5	21.5	25.6	-18.80	4,835.9	591.6	4,436.4	4,414.9	21.49	206.453	
8,050.0	7,736.3	7,846.8	7,720.3	21.9	25.6	-27.06	4,835.9	591.6	4,387.1	4,362.9	24.17	181.522	
8,100.0	7,739.8	7,850.3	7,723.8	22.2	25.6	-61.02	4,835.9	591.6	4,337.3	4,300.2	37.07	116.999	
8,115.3	7,740.0	7,850.5	7,724.0	22.4	25.6	-90.00	4,835.9	591.6	4,322.0	4,280.3	41.70	103.646	
8,200.0	7,740.0	7,850.5	7,724.0	23.1	25.6	-90.00	4,835.9	591.6	4,237.4	4,194.7	42.68	99.290	
8,300.0	7,740.0	7,850.5	7,724.0	24.1	25.6	-90.00	4,835.9	591.6	4,137.5	4,093.6	43.92	94.214	
8,400.0	7,740.0	7,850.5	7,724.0	25.2	25.6	-90.00	4,835.9	591.6	4,037.6	3,992.4	45.23	89.267	
8,500.0	7,740.0	7,850.5	7,724.0	26.3	25.6	-90.00	4,835.9	591.6	3,937.7	3,891.1	46.61	84.488	
8,600.0	7,740.0	7,850.5	7,724.0	27.5	25.6	-90.00	4,835.9	591.6	3,837.9	3,789.8	48.03	79.898	
8,700.0	7,740.0	7,850.5	7,724.0	28.7	25.6	-90.00	4,835.9	591.6	3,738.0	3,688.5	49.50	75.509	
8,800.0	7,740.0	7,850.5	7,724.0	30.0	25.6	-90.00	4,835.9	591.6	3,638.1	3,587.1	51.01	71.325	
8,900.0	7,740.0	7,850.5	7,724.0	31.4	25.6	-90.00	4,835.9	591.6	3,538.3	3,485.7	52.54	67.342	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,000.0	7,740.0	7,850.5	7,724.0	32.8	25.6	-90.00	4,835.9	591.6	3,438.4	3,384.3	54.10	63.557	
9,100.0	7,740.0	7,850.5	7,724.0	34.2	25.6	-90.00	4,835.9	591.6	3,338.6	3,282.9	55.68	59.961	
9,200.0	7,740.0	7,850.5	7,724.0	35.6	25.6	-90.00	4,835.9	591.6	3,238.8	3,181.5	57.28	56.546	
9,300.0	7,740.0	7,850.5	7,724.0	37.1	25.6	-90.00	4,835.9	591.6	3,139.0	3,080.1	58.89	53.303	
9,400.0	7,740.0	7,850.5	7,724.0	38.6	25.6	-90.00	4,835.9	591.6	3,039.2	2,978.6	60.52	50.222	
9,500.0	7,740.0	7,850.5	7,724.0	40.1	25.6	-90.00	4,835.9	591.6	2,939.4	2,877.2	62.15	47.293	
9,600.0	7,740.0	7,850.5	7,724.0	41.7	25.6	-90.00	4,835.9	591.6	2,839.6	2,775.8	63.80	44.508	
9,700.0	7,740.0	7,850.5	7,724.0	43.2	25.6	-90.00	4,835.9	591.6	2,739.8	2,674.4	65.46	41.857	
9,800.0	7,740.0	7,850.5	7,724.0	44.8	25.6	-90.00	4,835.9	591.6	2,640.1	2,573.0	67.12	39.333	
9,900.0	7,740.0	7,850.5	7,724.0	46.4	25.6	-90.00	4,835.9	591.6	2,540.4	2,471.6	68.79	36.928	
10,000.0	7,740.0	7,850.5	7,724.0	48.0	25.6	-90.00	4,835.9	591.6	2,440.7	2,370.2	70.47	34.634	
10,100.0	7,740.0	7,850.5	7,724.0	49.6	25.6	-90.00	4,835.9	591.6	2,341.0	2,268.9	72.15	32.445	
10,200.0	7,740.0	7,850.5	7,724.0	51.2	25.6	-90.00	4,835.9	591.6	2,241.4	2,167.5	73.84	30.354	
10,300.0	7,740.0	7,850.5	7,724.0	52.8	25.6	-90.00	4,835.9	591.6	2,141.8	2,066.2	75.53	28.355	
10,400.0	7,740.0	7,850.5	7,724.0	54.5	25.6	-90.00	4,835.9	591.6	2,042.2	1,965.0	77.23	26.443	
10,500.0	7,740.0	7,850.5	7,724.0	56.1	25.6	-90.00	4,835.9	591.6	1,942.7	1,863.8	78.93	24.613	
10,600.0	7,740.0	7,850.5	7,724.0	57.7	25.6	-90.00	4,835.9	591.6	1,843.2	1,762.6	80.63	22.859	
10,700.0	7,740.0	7,850.5	7,724.0	59.4	25.6	-90.00	4,835.9	591.6	1,743.8	1,661.5	82.34	21.178	
10,800.0	7,740.0	7,850.5	7,724.0	61.1	25.6	-90.00	4,835.9	591.6	1,644.5	1,560.4	84.05	19.565	
10,900.0	7,740.0	7,850.5	7,724.0	62.7	25.6	-90.00	4,835.9	591.6	1,545.2	1,459.4	85.76	18.017	
11,000.0	7,740.0	7,850.5	7,724.0	64.4	25.6	-90.00	4,835.9	591.6	1,446.1	1,358.6	87.48	16.531	
11,100.0	7,740.0	7,850.5	7,724.0	66.1	25.6	-90.00	4,835.9	591.6	1,347.0	1,257.8	89.19	15.102	
11,200.0	7,740.0	7,850.5	7,724.0	67.7	25.6	-90.00	4,835.9	591.6	1,248.2	1,157.3	90.91	13.729	
11,300.0	7,740.0	7,850.5	7,724.0	69.4	25.6	-90.00	4,835.9	591.6	1,149.5	1,056.9	92.63	12.409	
11,395.3	7,740.0	7,850.5	7,724.0	71.0	25.6	-90.00	4,835.9	591.6	1,055.6	961.4	94.27	11.198	
11,400.0	7,740.0	7,850.5	7,724.0	71.1	25.6	-90.00	4,835.9	591.6	1,051.1	956.7	94.36	11.139	
11,500.0	7,740.0	7,850.5	7,724.0	72.8	25.6	-90.00	4,835.9	591.6	953.2	856.9	96.22	9.906	
11,584.7	7,740.0	7,850.5	7,724.0	74.2	25.6	-90.00	4,835.9	591.6	871.0	773.2	97.78	8.908	
11,600.0	7,740.0	7,850.5	7,724.0	74.5	25.6	-90.00	4,835.9	591.6	856.2	758.1	98.04	8.733	
11,700.0	7,740.0	7,850.5	7,724.0	76.2	25.6	-90.00	4,835.9	591.6	760.2	660.4	99.77	7.619	
11,800.0	7,740.0	7,850.5	7,724.0	77.9	25.6	-90.00	4,835.9	591.6	665.3	563.8	101.50	6.555	
11,900.0	7,740.0	7,850.5	7,724.0	79.6	25.6	-90.00	4,835.9	591.6	572.2	469.0	103.23	5.543	
12,000.0	7,740.0	7,850.5	7,724.0	81.3	25.6	-90.00	4,835.9	591.6	481.9	377.0	104.96	4.592	
12,100.0	7,740.0	7,850.5	7,724.0	83.0	25.6	-90.00	4,835.9	591.6	396.3	289.6	106.69	3.715	
12,200.0	7,740.0	7,850.5	7,724.0	84.8	25.6	-90.00	4,835.9	591.6	319.2	210.7	108.42	2.944	
12,300.0	7,740.0	7,850.5	7,724.0	86.5	25.6	-90.00	4,835.9	591.6	258.2	148.0	110.16	2.344	
12,400.0	7,740.0	7,850.5	7,724.0	88.2	25.6	-90.00	4,835.9	591.6	226.9	115.0	111.89	2.028	
12,426.0	7,740.0	7,850.5	7,724.0	88.6	25.6	-90.00	4,835.9	591.6	225.4	113.0	112.34	2.006 CC, ES, SF	
12,500.0	7,740.0	7,850.5	7,724.0	89.9	25.6	-90.00	4,835.9	591.6	237.2	123.6	113.63	2.088	
12,600.0	7,740.0	7,850.5	7,724.0	91.6	25.6	-90.00	4,835.9	591.6	284.7	169.4	115.36	2.468	
12,700.0	7,740.0	7,850.5	7,724.0	93.3	25.6	-90.00	4,835.9	591.6	354.8	237.7	117.10	3.030	
12,800.0	7,740.0	7,850.5	7,724.0	95.1	25.6	-90.00	4,835.9	591.6	436.7	317.8	118.84	3.674	
12,900.0	7,740.0	7,850.5	7,724.0	96.8	25.6	-90.00	4,835.9	591.6	524.9	404.3	120.57	4.353	
13,000.0	7,740.0	7,850.5	7,724.0	98.5	25.6	-90.00	4,835.9	591.6	616.7	494.4	122.31	5.042	
13,100.0	7,740.0	7,850.5	7,724.0	100.2	25.6	-90.00	4,835.9	591.6	710.7	586.6	124.05	5.729	
13,200.0	7,740.0	7,850.5	7,724.0	102.0	25.6	-90.00	4,835.9	591.6	806.2	680.4	125.79	6.409	
13,300.0	7,740.0	7,850.5	7,724.0	103.7	25.6	-90.00	4,835.9	591.6	902.6	775.1	127.53	7.077	
13,400.0	7,740.0	7,850.5	7,724.0	105.4	25.6	-90.00	4,835.9	591.6	999.7	870.5	129.27	7.734	
13,500.0	7,740.0	7,850.5	7,724.0	107.2	25.6	-90.00	4,835.9	591.6	1,097.4	966.4	131.01	8.376	
13,600.0	7,740.0	7,850.5	7,724.0	108.9	25.6	-90.00	4,835.9	591.6	1,195.4	1,062.7	132.75	9.005	
13,700.0	7,740.0	7,850.5	7,724.0	110.6	25.6	-90.00	4,835.9	591.6	1,293.8	1,159.3	134.50	9.620	
13,800.0	7,740.0	7,850.5	7,724.0	112.3	25.6	-90.00	4,835.9	591.6	1,392.4	1,256.1	136.24	10.220	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL				Offset Site Error:		0.0 ft	
Survey Program:										775-Geolink MWD				Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth 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					
13,900.0	7,740.0	7,850.5	7,724.0	114.1	25.6	-90.00	4,835.9	591.6	1,491.1	1,353.2	137.98	10.807					
14,000.0	7,740.0	7,850.5	7,724.0	115.8	25.6	-90.00	4,835.9	591.6	1,590.1	1,450.3	139.72	11.380					
14,100.0	7,740.0	7,850.5	7,724.0	117.5	25.6	-90.00	4,835.9	591.6	1,689.1	1,547.6	141.47	11.940					
14,200.0	7,740.0	7,850.5	7,724.0	119.3	25.6	-90.00	4,835.9	591.6	1,788.3	1,645.1	143.21	12.487					
14,300.0	7,740.0	7,850.5	7,724.0	121.0	25.6	-90.00	4,835.9	591.6	1,887.5	1,742.6	144.96	13.021					
14,400.0	7,740.0	7,850.5	7,724.0	122.8	25.6	-90.00	4,835.9	591.6	1,986.8	1,840.1	146.70	13.544					
14,500.0	7,740.0	7,850.5	7,724.0	124.5	25.6	-90.00	4,835.9	591.6	2,086.2	1,937.8	148.44	14.054					
14,600.0	7,740.0	7,850.5	7,724.0	126.2	25.6	-90.00	4,835.9	591.6	2,185.7	2,035.5	150.19	14.553					
14,696.1	7,740.0	7,850.5	7,724.0	127.9	25.6	-90.00	4,835.9	591.6	2,281.2	2,129.4	151.87	15.021					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 76-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	14.48	3,612.2	933.0	3,730.8				
100.0	100.0	653.2	649.9	0.2	1.5	14.97	3,559.4	951.8	3,727.7	3,726.1	1.60	2,329.089	
200.0	200.0	783.5	778.6	0.3	1.9	15.00	3,539.0	948.6	3,711.9	3,709.7	2.19	1,696.561	
300.0	300.0	1,195.9	1,182.5	0.5	3.5	14.99	3,460.1	926.8	3,693.0	3,689.1	3.96	932.790	
400.0	400.0	1,284.0	1,268.0	0.7	3.9	15.00	3,439.2	921.8	3,668.7	3,664.2	4.52	810.951	
500.0	500.0	1,418.5	1,398.4	0.9	4.5	-79.28	3,407.3	913.1	3,643.9	3,640.6	3.35	1,086.292	
600.0	600.0	1,524.2	1,500.7	1.0	5.0	-79.61	3,381.9	904.8	3,618.2	3,614.5	3.70	978.570	
700.0	699.9	1,820.1	1,784.0	1.2	6.5	-80.19	3,300.6	879.5	3,587.2	3,582.8	4.37	821.673	
800.0	799.7	1,896.0	1,856.3	1.4	6.9	-80.60	3,278.3	873.6	3,555.7	3,551.0	4.68	759.291	
900.0	899.4	1,937.1	1,895.6	1.6	7.1	-80.97	3,266.5	870.7	3,525.0	3,520.0	4.95	711.531	
1,000.0	998.9	1,982.0	1,938.7	1.8	7.4	-81.36	3,254.4	867.4	3,495.4	3,490.2	5.25	666.033	
1,076.7	1,075.1	2,038.8	1,993.3	2.0	7.7	-81.71	3,239.9	862.6	3,473.4	3,467.9	5.52	628.860	
1,100.0	1,098.3	2,059.0	2,012.8	2.1	7.8	-81.77	3,234.8	860.6	3,466.7	3,461.1	5.61	617.567	
1,200.0	1,197.6	2,222.4	2,169.6	2.3	8.6	-82.17	3,190.9	846.2	3,436.4	3,430.3	6.14	559.830	
1,300.0	1,296.9	2,386.0	2,325.7	2.6	9.5	-82.58	3,144.5	831.1	3,405.0	3,398.3	6.67	510.196	
1,400.0	1,396.2	2,475.0	2,410.3	2.8	10.0	-82.83	3,118.6	821.9	3,372.6	3,365.5	7.09	475.949	
1,500.0	1,495.5	2,542.8	2,475.0	3.1	10.4	-83.02	3,099.1	815.3	3,340.8	3,333.3	7.46	447.553	
1,600.0	1,594.8	2,705.1	2,629.5	3.3	11.3	-83.43	3,051.7	801.5	3,309.2	3,301.1	8.01	412.919	
1,700.0	1,694.1	2,838.0	2,755.2	3.6	12.1	-83.77	3,009.9	790.1	3,275.0	3,266.5	8.52	384.511	
1,800.0	1,793.4	2,899.4	2,813.1	3.9	12.4	-83.94	2,990.7	784.2	3,241.0	3,232.1	8.89	364.399	
1,900.0	1,892.7	2,963.7	2,874.2	4.1	12.8	-84.12	2,971.3	778.2	3,208.2	3,198.9	9.28	345.829	
2,000.0	1,992.0	3,047.0	2,953.4	4.4	13.3	-84.34	2,946.5	771.4	3,176.0	3,166.3	9.70	327.499	
2,100.0	2,091.3	3,152.2	3,053.4	4.7	13.9	-84.67	2,915.5	761.0	3,143.8	3,133.6	10.17	309.077	
2,200.0	2,190.6	3,235.9	3,132.9	4.9	14.4	-84.94	2,890.8	752.2	3,111.5	3,100.9	10.61	293.398	
2,300.0	2,289.9	3,351.0	3,242.1	5.2	15.0	-85.31	2,856.6	740.3	3,079.2	3,068.1	11.11	277.069	
2,400.0	2,389.2	3,437.0	3,323.7	5.5	15.5	-85.61	2,831.1	730.7	3,046.8	3,035.2	11.56	263.464	
2,500.0	2,488.5	3,522.0	3,404.4	5.7	16.0	-85.91	2,806.0	721.5	3,014.7	3,002.7	12.02	250.813	
2,600.0	2,587.8	3,608.0	3,486.1	6.0	16.5	-86.22	2,780.9	712.0	2,983.0	2,970.5	12.48	238.965	
2,700.0	2,687.1	3,667.3	3,542.6	6.3	16.8	-86.44	2,764.1	705.4	2,952.1	2,939.2	12.89	229.037	
2,800.0	2,786.4	3,766.7	3,637.4	6.5	17.4	-86.82	2,736.3	694.6	2,921.8	2,908.4	13.39	218.177	
2,900.0	2,885.7	3,886.8	3,751.8	6.8	18.0	-87.24	2,701.3	683.4	2,890.6	2,876.7	13.93	207.513	
3,000.0	2,985.0	3,950.0	3,812.0	7.1	18.4	-87.44	2,682.9	678.5	2,859.9	2,845.6	14.34	199.479	
3,100.0	3,084.3	4,014.7	3,873.9	7.3	18.7	-87.65	2,664.6	674.0	2,830.3	2,815.5	14.75	191.946	
3,200.0	3,183.6	4,126.0	3,980.6	7.6	19.3	-88.01	2,633.7	666.2	2,801.1	2,785.9	15.27	183.493	
3,300.0	3,282.9	4,293.0	4,139.7	7.9	20.3	-88.62	2,585.4	651.8	2,771.0	2,755.1	15.95	173.761	
3,400.0	3,382.2	4,378.0	4,220.3	8.1	20.8	-88.95	2,559.6	643.9	2,739.2	2,722.8	16.43	166.713	
3,500.0	3,481.5	4,420.6	4,261.0	8.4	21.0	-89.11	2,547.3	640.2	2,708.8	2,692.0	16.81	161.160	
3,600.0	3,580.9	4,486.9	4,324.4	8.7	21.3	-89.36	2,528.8	634.7	2,679.6	2,662.4	17.25	155.377	
3,700.0	3,680.2	4,586.5	4,419.8	9.0	21.9	-89.74	2,501.4	627.0	2,651.2	2,633.4	17.77	149.216	
3,800.0	3,779.5	4,690.2	4,519.0	9.2	22.4	-90.11	2,472.0	620.0	2,622.0	2,603.7	18.28	143.395	
3,900.0	3,878.8	4,765.9	4,591.6	9.5	22.8	-90.35	2,450.6	616.8	2,593.3	2,574.6	18.72	138.520	
4,000.0	3,978.1	4,833.9	4,656.9	9.8	23.2	-90.56	2,432.0	614.1	2,565.6	2,546.4	19.14	134.009	
4,100.0	4,077.4	4,892.0	4,712.9	10.0	23.4	-90.75	2,416.8	611.6	2,539.1	2,519.6	19.55	129.871	
4,200.0	4,176.7	4,946.4	4,765.6	10.3	23.7	-90.94	2,403.4	609.1	2,514.2	2,494.3	19.95	126.031	
4,300.0	4,276.0	5,007.2	4,824.8	10.6	23.9	-91.15	2,389.4	606.6	2,491.0	2,470.6	20.36	122.342	
4,400.0	4,375.3	5,078.9	4,894.6	10.8	24.2	-91.38	2,373.7	604.2	2,468.9	2,448.1	20.79	118.730	
4,500.0	4,474.6	5,149.0	4,963.1	11.1	24.5	-91.61	2,359.0	602.1	2,447.9	2,426.7	21.23	115.332	
4,600.0	4,573.9	5,219.5	5,032.2	11.4	24.8	-91.84	2,345.0	599.9	2,428.1	2,406.4	21.66	112.100	
4,700.0	4,673.2	5,282.0	5,093.5	11.7	25.0	-92.05	2,333.3	598.1	2,409.5	2,387.4	22.07	109.158	
4,800.0	4,772.5	5,340.4	5,151.1	11.9	25.2	-92.24	2,323.2	596.7	2,392.5	2,370.0	22.48	106.448	
4,900.0	4,871.8	5,406.0	5,215.9	12.2	25.4	-92.44	2,313.1	595.5	2,377.2	2,354.4	22.89	103.852	
5,000.0	4,971.1	5,449.9	5,259.4	12.5	25.5	-92.58	2,307.1	594.9	2,363.8	2,340.6	23.26	101.630	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	5,070.4	5,491.0	5,300.2	12.7	25.6	-92.71	2,302.1	594.2	2,352.4	2,328.8	23.62	99.589	
5,200.0	5,169.7	5,577.0	5,385.7	13.0	25.8	-92.98	2,293.4	592.9	2,342.7	2,318.6	24.08	97.271	
5,300.0	5,269.0	5,623.4	5,431.9	13.3	25.8	-93.13	2,289.6	592.2	2,334.7	2,310.3	24.46	95.442	
5,400.0	5,368.3	5,685.2	5,493.6	13.5	26.0	-93.34	2,285.4	591.0	2,328.5	2,303.6	24.88	93.599	
5,500.0	5,467.6	5,748.0	5,556.3	13.8	26.0	-93.55	2,282.0	589.7	2,323.8	2,298.5	25.30	91.859	
5,600.0	5,566.9	5,822.0	5,630.1	14.1	26.1	-93.81	2,279.0	588.0	2,320.5	2,294.8	25.75	90.132	
5,700.0	5,666.2	5,891.7	5,699.9	14.4	26.2	-94.05	2,277.1	586.5	2,318.5	2,292.3	26.18	88.549	
5,800.0	5,765.5	5,968.4	5,776.5	14.6	26.3	-94.32	2,275.8	584.7	2,317.8	2,291.1	26.64	86.999	
5,832.5	5,797.8	5,994.7	5,802.8	14.7	26.3	-94.41	2,275.6	584.0	2,317.7	2,290.9	26.79	86.500	
5,900.0	5,864.8	6,049.3	5,857.4	14.9	26.3	-94.60	2,275.2	582.6	2,317.9	2,290.8	27.11	85.491	
6,000.0	5,964.1	6,146.1	5,954.2	15.2	26.4	-94.95	2,275.0	579.8	2,318.8	2,291.1	27.62	83.948	
6,100.0	6,063.4	6,259.1	6,067.2	15.4	26.5	-95.34	2,274.4	577.4	2,319.3	2,291.1	28.16	82.364	
6,200.0	6,162.7	6,352.5	6,160.5	15.7	26.6	-95.64	2,273.6	576.1	2,319.7	2,291.0	28.64	81.003	
6,300.0	6,262.0	6,444.7	6,252.7	16.0	26.7	-95.93	2,273.2	575.2	2,320.4	2,291.3	29.11	79.713	
6,400.0	6,361.3	6,532.3	6,340.3	16.2	26.7	-96.20	2,273.1	574.4	2,321.6	2,292.1	29.57	78.505	
6,500.0	6,460.7	6,622.2	6,430.2	16.5	26.8	-96.49	2,273.5	573.5	2,323.4	2,293.4	30.04	77.338	
6,600.0	6,560.0	6,722.1	6,530.1	16.8	26.9	-96.80	2,274.1	572.2	2,325.4	2,294.8	30.54	76.149	
6,700.0	6,659.3	6,816.7	6,624.6	17.1	26.9	-97.11	2,274.6	570.8	2,327.5	2,296.4	31.02	75.025	
6,800.0	6,758.6	6,905.2	6,713.2	17.3	27.0	-97.40	2,275.4	569.3	2,330.0	2,298.5	31.50	73.975	
6,900.0	6,857.9	6,993.3	6,801.3	17.6	27.0	-97.70	2,276.6	567.5	2,333.1	2,301.1	31.97	72.972	
7,000.0	6,957.2	7,081.0	6,888.9	17.9	27.1	-97.99	2,278.2	565.5	2,336.7	2,304.2	32.45	72.014	
7,100.0	7,056.5	7,173.4	7,021.2	18.1	27.2	-98.45	2,280.4	562.0	2,340.3	2,307.3	33.04	70.824	
7,200.0	7,155.8	7,266.6	7,154.4	18.4	27.4	-98.95	2,279.8	557.3	2,341.9	2,308.3	33.65	69.599	
7,210.0	7,165.7	7,273.3	7,165.0	18.4	27.4	-98.99	2,279.7	556.9	2,342.0	2,308.3	33.70	69.492	
7,250.0	7,205.4	7,399.9	7,207.6	18.5	27.4	-67.60	2,279.3	555.5	2,341.1	2,307.2	33.89	69.080	
7,300.0	7,254.8	7,452.9	7,260.5	18.7	27.5	-43.70	2,278.7	553.9	2,336.0	2,302.0	33.97	68.776	
7,350.0	7,303.5	7,496.7	7,304.3	18.8	27.5	-32.11	2,278.2	552.7	2,326.6	2,292.8	33.84	68.748	
7,400.0	7,351.2	7,538.3	7,346.0	18.9	27.6	-25.97	2,277.8	551.6	2,313.1	2,279.6	33.55	68.949	
7,450.0	7,397.6	7,578.9	7,386.5	19.0	27.6	-22.41	2,277.6	550.8	2,295.7	2,262.6	33.10	69.359	
7,500.0	7,442.2	7,618.1	7,425.7	19.2	27.6	-20.25	2,277.5	550.1	2,274.3	2,241.8	32.51	69.964	
7,550.0	7,484.8	7,656.6	7,464.2	19.3	27.7	-18.96	2,277.5	549.5	2,249.3	2,217.5	31.80	70.734	
7,600.0	7,525.0	7,693.6	7,501.2	19.5	27.7	-18.29	2,277.5	549.0	2,220.7	2,189.7	31.00	71.627	
7,650.0	7,562.4	7,728.2	7,535.8	19.6	27.7	-18.11	2,277.6	548.6	2,188.8	2,158.6	30.16	72.577	
7,700.0	7,596.9	7,760.2	7,567.8	19.8	27.7	-18.37	2,277.8	548.3	2,153.7	2,124.4	29.31	73.475	
7,750.0	7,628.2	7,789.4	7,597.0	20.0	27.8	-19.09	2,278.0	548.1	2,115.8	2,087.2	28.53	74.151	
7,800.0	7,656.0	7,815.7	7,623.3	20.3	27.8	-20.36	2,278.1	548.0	2,075.2	2,047.3	27.92	74.338	
7,850.0	7,680.1	7,838.8	7,646.5	20.5	27.8	-22.35	2,278.3	547.9	2,032.4	2,004.8	27.60	73.640	
7,900.0	7,700.3	7,858.4	7,666.0	20.8	27.8	-25.40	2,278.5	547.8	1,987.6	1,959.8	27.80	71.506	
7,950.0	7,716.5	7,874.2	7,681.8	21.1	27.8	-30.15	2,278.6	547.8	1,941.2	1,912.3	28.87	67.250	
8,000.0	7,728.5	7,886.1	7,693.7	21.5	27.8	-37.98	2,278.7	547.7	1,893.4	1,862.0	31.42	60.253	
8,050.0	7,736.3	7,894.0	7,701.6	21.9	27.8	-51.73	2,278.8	547.7	1,844.8	1,808.4	36.33	50.772	
8,100.0	7,739.8	7,897.8	7,705.4	22.2	27.8	-76.15	2,278.8	547.7	1,795.5	1,752.8	42.67	42.082	
8,115.3	7,740.0	7,898.1	7,705.7	22.4	27.8	-85.99	2,278.9	547.7	1,780.3	1,736.6	43.77	40.672	
8,200.0	7,740.0	7,898.9	7,706.5	23.1	27.8	-86.16	2,278.9	547.7	1,696.6	1,651.9	44.76	37.904	
8,300.0	7,740.0	7,899.9	7,707.5	24.1	27.8	-86.37	2,278.9	547.7	1,597.9	1,551.9	46.01	34.728	
8,400.0	7,740.0	7,900.8	7,708.4	25.2	27.8	-86.58	2,278.9	547.7	1,499.3	1,452.0	47.34	31.673	
8,500.0	7,740.0	7,901.8	7,709.4	26.3	27.8	-86.79	2,278.9	547.7	1,401.0	1,352.2	48.73	28.753	
8,600.0	7,740.0	7,902.8	7,710.4	27.5	27.9	-87.01	2,278.9	547.7	1,302.9	1,252.7	50.16	25.973	
8,700.0	7,740.0	7,903.7	7,711.3	28.7	27.9	-87.22	2,278.9	547.7	1,205.1	1,153.4	51.64	23.335	
8,800.0	7,740.0	7,904.7	7,712.3	30.0	27.9	-87.44	2,278.9	547.7	1,107.6	1,054.5	53.16	20.837	
8,900.0	7,740.0	7,905.7	7,713.3	31.4	27.9	-87.65	2,278.9	547.6	1,010.7	956.0	54.70	18.478	
9,000.0	7,740.0	7,906.7	7,714.3	32.8	27.9	-87.87	2,278.9	547.6	914.5	858.2	56.27	16.253	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
9,100.0	7,740.0	7,907.7	7,715.3	34.2	27.9	-88.09	2,278.9	547.6	819.1	761.3	57.85	14.159	
9,200.0	7,740.0	7,908.7	7,716.3	35.6	27.9	-88.31	2,279.0	547.6	725.0	665.6	59.46	12.194	
9,300.0	7,740.0	7,909.7	7,717.3	37.1	27.9	-88.53	2,279.0	547.6	632.7	571.7	61.08	10.360	
9,400.0	7,740.0	7,910.7	7,718.3	38.6	27.9	-88.75	2,279.0	547.6	543.2	480.5	62.71	8.662	
9,500.0	7,740.0	7,911.7	7,719.3	40.1	27.9	-88.98	2,279.0	547.6	458.0	393.6	64.35	7.117	
9,600.0	7,740.0	7,912.8	7,720.4	41.7	27.9	-89.20	2,279.0	547.6	380.0	314.0	66.01	5.758	
9,700.0	7,740.0	7,913.8	7,721.4	43.2	27.9	-89.43	2,279.0	547.6	314.8	247.2	67.67	4.653	
9,800.0	7,740.0	7,914.8	7,722.4	44.8	27.9	-89.66	2,279.0	547.6	271.7	202.3	69.33	3.918	
9,876.6	7,740.0	7,915.6	7,723.2	46.0	27.9	-89.83	2,279.0	547.6	260.6	190.0	70.62	3.691 CC, ES	
9,900.0	7,740.0	7,915.9	7,723.5	46.4	27.9	-89.89	2,279.0	547.6	261.7	190.7	71.01	3.685 SF	
10,000.0	7,740.0	7,916.9	7,724.5	48.0	27.9	-90.12	2,279.0	547.6	288.4	215.7	72.69	3.968	
10,100.0	7,740.0	7,918.0	7,725.6	49.6	27.9	-90.35	2,279.1	547.6	343.3	268.9	74.37	4.616	
10,200.0	7,740.0	7,919.0	7,726.6	51.2	27.9	-90.58	2,279.1	547.6	415.4	339.3	76.06	5.461	
10,300.0	7,740.0	7,920.1	7,727.7	52.8	27.9	-90.82	2,279.1	547.6	497.2	419.4	77.75	6.395	
10,400.0	7,740.0	7,921.2	7,728.8	54.5	27.9	-91.05	2,279.1	547.6	584.7	505.3	79.44	7.360	
10,500.0	7,740.0	7,922.3	7,729.9	56.1	27.9	-91.29	2,279.1	547.6	675.7	594.5	81.13	8.328	
10,600.0	7,740.0	7,923.3	7,731.0	57.7	27.9	-91.53	2,279.1	547.6	768.9	686.1	82.83	9.283	
10,700.0	7,740.0	7,924.4	7,732.0	59.4	27.9	-91.77	2,279.1	547.6	863.6	779.1	84.53	10.217	
10,800.0	7,740.0	7,925.5	7,733.1	61.1	27.9	-92.01	2,279.1	547.6	959.4	873.2	86.22	11.127	
10,900.0	7,740.0	7,926.6	7,734.2	62.7	27.9	-92.25	2,279.1	547.6	1,056.0	968.1	87.92	12.011	
11,000.0	7,740.0	7,927.8	7,735.4	64.4	27.9	-92.50	2,279.2	547.6	1,153.2	1,063.6	89.62	12.867	
11,100.0	7,740.0	7,928.9	7,736.5	66.1	27.9	-92.74	2,279.2	547.6	1,250.8	1,159.5	91.32	13.697	
11,200.0	7,740.0	7,930.0	7,737.6	67.7	27.9	-92.99	2,279.2	547.6	1,348.8	1,255.7	93.02	14.500	
11,300.0	7,740.0	7,931.1	7,738.7	69.4	27.9	-93.24	2,279.2	547.6	1,447.0	1,352.3	94.72	15.277	
11,395.3	7,740.0	7,932.2	7,739.8	71.0	27.9	-93.47	2,279.2	547.6	1,540.9	1,444.5	96.33	15.995	
11,400.0	7,740.0	7,932.3	7,739.9	71.1	27.9	-93.50	2,279.2	547.6	1,545.5	1,449.0	96.43	16.027	
11,500.0	7,740.0	7,933.4	7,741.0	72.8	27.9	-94.20	2,279.2	547.6	1,644.3	1,545.9	98.41	16.709	
11,584.7	7,740.0	7,934.4	7,742.0	74.2	27.9	-94.96	2,279.2	547.6	1,728.2	1,628.2	100.03	17.277	
11,600.0	7,740.0	7,934.6	7,742.2	74.5	27.9	-95.01	2,279.2	547.6	1,743.4	1,643.1	100.29	17.384	
11,700.0	7,740.0	7,935.7	7,743.3	76.2	27.9	-95.32	2,279.2	547.6	1,842.7	1,740.8	101.96	18.073	
11,800.0	7,740.0	7,936.9	7,744.5	77.9	27.9	-95.64	2,279.3	547.6	1,942.1	1,838.5	103.63	18.741	
11,900.0	7,740.0	7,938.0	7,745.6	79.6	27.9	-95.96	2,279.3	547.6	2,041.6	1,936.3	105.29	19.389	
12,000.0	7,740.0	7,939.2	7,746.8	81.3	27.9	-96.28	2,279.3	547.6	2,141.1	2,034.1	106.96	20.018	
12,100.0	7,740.0	7,940.4	7,748.0	83.0	27.9	-96.60	2,279.3	547.5	2,240.6	2,132.0	108.61	20.629	
12,200.0	7,740.0	7,941.6	7,749.2	84.8	27.9	-96.93	2,279.3	547.5	2,340.2	2,230.0	110.27	21.224	
12,300.0	7,740.0	7,942.8	7,750.4	86.5	27.9	-97.25	2,279.3	547.5	2,439.8	2,327.9	111.91	21.801	
12,400.0	7,740.0	7,944.0	7,751.6	88.2	27.9	-97.58	2,279.3	547.5	2,539.5	2,425.9	113.55	22.364	
12,500.0	7,740.0	7,945.2	7,752.8	89.9	27.9	-97.91	2,279.3	547.5	2,639.2	2,524.0	115.19	22.911	
12,600.0	7,740.0	7,946.4	7,754.0	91.6	27.9	-98.24	2,279.4	547.5	2,738.9	2,622.0	116.82	23.445	
12,700.0	7,740.0	7,947.6	7,755.2	93.3	27.9	-98.57	2,279.4	547.5	2,838.6	2,720.1	118.44	23.966	
12,800.0	7,740.0	7,948.9	7,756.5	95.1	27.9	-98.90	2,279.4	547.5	2,938.3	2,818.2	120.06	24.474	
12,900.0	7,740.0	7,950.1	7,757.7	96.8	27.9	-99.24	2,279.4	547.5	3,038.1	2,916.4	121.67	24.970	
13,000.0	7,740.0	7,951.3	7,759.0	98.5	27.9	-99.57	2,279.4	547.5	3,137.8	3,014.6	123.27	25.454	
13,100.0	7,740.0	7,952.6	7,760.2	100.2	27.9	-99.91	2,279.4	547.5	3,237.6	3,112.7	124.87	25.928	
13,200.0	7,740.0	7,953.9	7,761.5	102.0	27.9	-100.25	2,279.4	547.5	3,337.4	3,210.9	126.46	26.392	
13,300.0	7,740.0	7,955.1	7,762.8	103.7	27.9	-100.59	2,279.5	547.5	3,437.2	3,309.2	128.04	26.845	
13,400.0	7,740.0	7,956.4	7,764.0	105.4	27.9	-100.93	2,279.5	547.5	3,537.0	3,407.4	129.61	27.290	
13,500.0	7,740.0	7,957.7	7,765.3	107.2	27.9	-101.27	2,279.5	547.5	3,636.9	3,505.7	131.17	27.726	
13,600.0	7,740.0	7,959.0	7,766.6	108.9	27.9	-101.62	2,279.5	547.5	3,736.7	3,604.0	132.73	28.153	
13,700.0	7,740.0	7,960.3	7,767.9	110.6	27.9	-101.96	2,279.5	547.5	3,836.5	3,702.3	134.27	28.572	
13,800.0	7,740.0	7,961.6	7,769.3	112.3	27.9	-102.31	2,279.5	547.5	3,936.4	3,800.6	135.81	28.984	
13,900.0	7,740.0	7,963.0	7,770.6	114.1	27.9	-102.66	2,279.6	547.5	4,036.2	3,898.9	137.34	29.389	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program:													76-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
14,000.0	7,740.0	7,964.3	7,771.9	115.8	27.9	-103.01	2,279.6	547.5	4,136.1	3,997.2	138.86	29.787						
14,100.0	7,740.0	7,965.6	7,773.3	117.5	27.9	-103.36	2,279.6	547.5	4,236.0	4,095.6	140.36	30.179						
14,200.0	7,740.0	7,967.0	7,774.6	119.3	27.9	-103.72	2,279.6	547.5	4,335.8	4,194.0	141.86	30.564						
14,300.0	7,740.0	7,968.4	7,776.0	121.0	27.9	-104.07	2,279.6	547.5	4,435.7	4,292.4	143.35	30.944						
14,400.0	7,740.0	7,969.7	7,777.3	122.8	27.9	-104.43	2,279.6	547.5	4,535.6	4,390.8	144.82	31.319						
14,500.0	7,740.0	7,971.1	7,778.7	124.5	27.9	-104.78	2,279.7	547.5	4,635.5	4,489.2	146.29	31.688						
14,600.0	7,740.0	7,972.5	7,780.1	126.2	27.9	-105.14	2,279.7	547.5	4,735.4	4,587.7	147.74	32.052						
14,696.1	7,740.0	7,973.8	7,781.5	127.9	27.9	-105.49	2,279.7	547.5	4,831.4	4,682.3	149.12	32.398						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,700.0	7,740.0	7,693.0	7,693.0	28.7	13.4	-90.00	6,293.6	681.3	5,190.7	5,152.5	38.17	135.971		
8,800.0	7,740.0	7,693.0	7,693.0	30.0	13.4	-90.00	6,293.6	681.3	5,090.7	5,051.0	39.68	128.297		
8,900.0	7,740.0	7,693.0	7,693.0	31.4	13.4	-90.00	6,293.6	681.3	4,990.7	4,949.5	41.21	121.096		
9,000.0	7,740.0	7,693.0	7,693.0	32.8	13.4	-90.00	6,293.6	681.3	4,890.7	4,848.0	42.77	114.347		
9,100.0	7,740.0	7,693.0	7,693.0	34.2	13.4	-90.00	6,293.6	681.3	4,790.7	4,746.4	44.35	108.021		
9,200.0	7,740.0	7,693.0	7,693.0	35.6	13.4	-90.00	6,293.6	681.3	4,690.8	4,644.8	45.95	102.090		
9,300.0	7,740.0	7,693.0	7,693.0	37.1	13.4	-90.00	6,293.6	681.3	4,590.8	4,543.2	47.56	96.526		
9,400.0	7,740.0	7,693.0	7,693.0	38.6	13.4	-90.00	6,293.6	681.3	4,490.8	4,441.6	49.19	91.302		
9,500.0	7,740.0	7,693.0	7,693.0	40.1	13.4	-90.00	6,293.6	681.3	4,390.8	4,340.0	50.82	86.393		
9,600.0	7,740.0	7,693.0	7,693.0	41.7	13.4	-90.00	6,293.6	681.3	4,290.8	4,238.4	52.47	81.775		
9,700.0	7,740.0	7,693.0	7,693.0	43.2	13.4	-90.00	6,293.6	681.3	4,190.9	4,136.7	54.13	77.425		
9,800.0	7,740.0	7,693.0	7,693.0	44.8	13.4	-90.00	6,293.6	681.3	4,090.9	4,035.1	55.79	73.324		
9,900.0	7,740.0	7,693.0	7,693.0	46.4	13.4	-90.00	6,293.6	681.3	3,990.9	3,933.5	57.46	69.451		
10,000.0	7,740.0	7,693.0	7,693.0	48.0	13.4	-90.00	6,293.6	681.3	3,890.9	3,831.8	59.14	65.791		
10,100.0	7,740.0	7,693.0	7,693.0	49.6	13.4	-90.00	6,293.6	681.3	3,791.0	3,730.2	60.82	62.327		
10,200.0	7,740.0	7,693.0	7,693.0	51.2	13.4	-90.00	6,293.6	681.3	3,691.0	3,628.5	62.51	59.044		
10,300.0	7,740.0	7,693.0	7,693.0	52.8	13.4	-90.00	6,293.6	681.3	3,591.0	3,526.8	64.20	55.931		
10,400.0	7,740.0	7,693.0	7,693.0	54.5	13.4	-90.00	6,293.6	681.3	3,491.1	3,425.2	65.90	52.974		
10,500.0	7,740.0	7,693.0	7,693.0	56.1	13.4	-90.00	6,293.6	681.3	3,391.1	3,323.5	67.60	50.163		
10,600.0	7,740.0	7,693.0	7,693.0	57.7	13.4	-90.00	6,293.6	681.3	3,291.1	3,221.8	69.31	47.488		
10,700.0	7,740.0	7,693.0	7,693.0	59.4	13.4	-90.00	6,293.6	681.3	3,191.2	3,120.2	71.01	44.939		
10,800.0	7,740.0	7,693.0	7,693.0	61.1	13.4	-90.00	6,293.6	681.3	3,091.2	3,018.5	72.72	42.508		
10,900.0	7,740.0	7,693.0	7,693.0	62.7	13.4	-90.00	6,293.6	681.3	2,991.3	2,916.8	74.43	40.187		
11,000.0	7,740.0	7,693.0	7,693.0	64.4	13.4	-90.00	6,293.6	681.3	2,891.3	2,815.2	76.15	37.970		
11,100.0	7,740.0	7,693.0	7,693.0	66.1	13.4	-90.00	6,293.6	681.3	2,791.4	2,713.5	77.86	35.849		
11,200.0	7,740.0	7,693.0	7,693.0	67.7	13.4	-90.00	6,293.6	681.3	2,691.4	2,611.8	79.58	33.819		
11,300.0	7,740.0	7,693.0	7,693.0	69.4	13.4	-90.00	6,293.6	681.3	2,591.5	2,510.2	81.30	31.875		
11,395.3	7,740.0	7,693.0	7,693.0	71.0	13.4	-90.00	6,293.6	681.3	2,496.2	2,413.3	82.94	30.095		
11,400.0	7,740.0	7,693.0	7,693.0	71.1	13.4	-90.00	6,293.6	681.3	2,491.6	2,408.5	83.04	30.006		
11,500.0	7,740.0	7,693.0	7,693.0	72.8	13.4	-90.00	6,293.6	681.3	2,391.7	2,306.7	84.99	28.139		
11,584.7	7,740.0	7,693.0	7,693.0	74.2	13.4	-90.00	6,293.6	681.3	2,307.2	2,220.5	86.64	26.630		
11,600.0	7,740.0	7,693.0	7,693.0	74.5	13.4	-90.00	6,293.6	681.3	2,291.9	2,205.0	86.90	26.373		
11,700.0	7,740.0	7,693.0	7,693.0	76.2	13.4	-90.00	6,293.6	681.3	2,192.2	2,103.6	88.63	24.734		
11,800.0	7,740.0	7,693.0	7,693.0	77.9	13.4	-90.00	6,293.6	681.3	2,092.5	2,002.2	90.36	23.158		
11,900.0	7,740.0	7,693.0	7,693.0	79.6	13.4	-90.00	6,293.6	681.3	1,992.9	1,900.8	92.09	21.641		
12,000.0	7,740.0	7,693.0	7,693.0	81.3	13.4	-90.00	6,293.6	681.3	1,893.2	1,799.4	93.82	20.180		
12,100.0	7,740.0	7,693.0	7,693.0	83.0	13.4	-90.00	6,293.6	681.3	1,793.7	1,698.1	95.55	18.772		
12,200.0	7,740.0	7,693.0	7,693.0	84.8	13.4	-90.00	6,293.6	681.3	1,694.2	1,596.9	97.28	17.415		
12,300.0	7,740.0	7,693.0	7,693.0	86.5	13.4	-90.00	6,293.6	681.3	1,594.7	1,495.7	99.02	16.106		
12,400.0	7,740.0	7,693.0	7,693.0	88.2	13.4	-90.00	6,293.6	681.3	1,495.3	1,394.6	100.75	14.842		
12,500.0	7,740.0	7,693.0	7,693.0	89.9	13.4	-90.00	6,293.6	681.3	1,396.0	1,293.5	102.48	13.622		
12,600.0	7,740.0	7,693.0	7,693.0	91.6	13.4	-90.00	6,293.6	681.3	1,296.8	1,192.6	104.22	12.443		
12,700.0	7,740.0	7,693.0	7,693.0	93.3	13.4	-90.00	6,293.6	681.3	1,197.8	1,091.8	105.96	11.304		
12,800.0	7,740.0	7,693.0	7,693.0	95.1	13.4	-90.00	6,293.6	681.3	1,098.9	991.2	107.69	10.204		
12,900.0	7,740.0	7,693.0	7,693.0	96.8	13.4	-90.00	6,293.6	681.3	1,000.2	890.8	109.43	9.140		
13,000.0	7,740.0	7,693.0	7,693.0	98.5	13.4	-90.00	6,293.6	681.3	901.9	790.7	111.17	8.113		
13,100.0	7,740.0	7,693.0	7,693.0	100.2	13.4	-90.00	6,293.6	681.3	803.9	691.0	112.91	7.120		
13,200.0	7,740.0	7,693.0	7,693.0	102.0	13.4	-90.00	6,293.6	681.3	706.5	591.9	114.65	6.163		
13,300.0	7,740.0	7,693.0	7,693.0	103.7	13.4	-90.00	6,293.6	681.3	610.0	493.6	116.39	5.241		
13,400.0	7,740.0	7,693.0	7,693.0	105.4	13.4	-90.00	6,293.6	681.3	514.8	396.6	118.13	4.358		
13,500.0	7,740.0	7,693.0	7,693.0	107.2	13.4	-90.00	6,293.6	681.3	421.8	301.9	119.87	3.519		
13,600.0	7,740.0	7,693.0	7,693.0	108.9	13.4	-90.00	6,293.6	681.3	332.9	211.3	121.61	2.737		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error: 0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,700.0	7,740.0	7,693.0	7,693.0	110.6	13.4	-90.00	6,293.6	681.3	252.4	129.0	123.35	2.046	
13,800.0	7,740.0	7,693.0	7,693.0	112.3	13.4	-90.00	6,293.6	681.3	191.3	66.2	125.10	1.529	
13,885.5	7,740.0	7,693.0	7,693.0	113.8	13.4	-90.00	6,293.6	681.3	171.1	44.6	126.59	1.352	Level 3, CC, ES, SF
13,900.0	7,740.0	7,693.0	7,693.0	114.1	13.4	-90.00	6,293.6	681.3	171.8	44.9	126.84	1.354	Level 3
14,000.0	7,740.0	7,693.0	7,693.0	115.8	13.4	-90.00	6,293.6	681.3	205.9	77.3	128.58	1.601	
14,100.0	7,740.0	7,693.0	7,693.0	117.5	13.4	-90.00	6,293.6	681.3	274.4	144.1	130.33	2.106	
14,200.0	7,740.0	7,693.0	7,693.0	119.3	13.4	-90.00	6,293.6	681.3	358.1	226.0	132.07	2.711	
14,300.0	7,740.0	7,693.0	7,693.0	121.0	13.4	-90.00	6,293.6	681.3	448.4	314.6	133.81	3.351	
14,400.0	7,740.0	7,693.0	7,693.0	122.8	13.4	-90.00	6,293.6	681.3	542.2	406.7	135.56	4.000	
14,500.0	7,740.0	7,693.0	7,693.0	124.5	13.4	-90.00	6,293.6	681.3	637.9	500.6	137.30	4.646	
14,600.0	7,740.0	7,693.0	7,693.0	126.2	13.4	-90.00	6,293.6	681.3	734.7	595.7	139.05	5.284	
14,696.1	7,740.0	7,693.0	7,693.0	127.9	13.4	-90.00	6,293.6	681.3	828.4	687.7	140.72	5.887	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S												Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
7,900.0	7,700.3	7,657.3	7,657.3	20.8	13.4	-27.02	5,530.8	52.0	5,277.3	5,255.0	22.27	236.925	
7,950.0	7,716.5	7,673.5	7,673.5	21.1	13.4	-31.87	5,530.8	52.0	5,230.8	5,208.4	22.35	234.073	
8,000.0	7,728.5	7,685.5	7,685.5	21.5	13.4	-39.91	5,530.8	52.0	5,183.0	5,159.6	23.41	221.404	
8,050.0	7,736.3	7,693.3	7,693.3	21.9	13.4	-54.23	5,530.8	52.0	5,134.2	5,108.1	26.09	196.803	
8,100.0	7,739.8	7,696.8	7,696.8	22.2	13.4	-79.81	5,530.8	52.0	5,084.9	5,055.1	29.80	170.663	
8,115.3	7,740.0	7,697.0	7,697.0	22.4	13.4	-90.00	5,530.8	52.0	5,069.8	5,039.4	30.38	166.893	
8,200.0	7,740.0	7,697.0	7,697.0	23.1	13.4	-90.00	5,530.8	52.0	4,986.0	4,954.6	31.36	159.017	
8,300.0	7,740.0	7,697.0	7,697.0	24.1	13.4	-90.00	5,530.8	52.0	4,887.1	4,854.5	32.59	149.937	
8,400.0	7,740.0	7,697.0	7,697.0	25.2	13.4	-90.00	5,530.8	52.0	4,788.2	4,754.3	33.91	141.209	
8,500.0	7,740.0	7,697.0	7,697.0	26.3	13.4	-90.00	5,530.8	52.0	4,689.4	4,654.1	35.29	132.900	
8,600.0	7,740.0	7,697.0	7,697.0	27.5	13.4	-90.00	5,530.8	52.0	4,590.6	4,553.9	36.71	125.043	
8,700.0	7,740.0	7,697.0	7,697.0	28.7	13.4	-90.00	5,530.8	52.0	4,491.9	4,453.8	38.18	117.646	
8,800.0	7,740.0	7,697.0	7,697.0	30.0	13.4	-90.00	5,530.8	52.0	4,393.3	4,353.6	39.69	110.701	
8,900.0	7,740.0	7,697.0	7,697.0	31.4	13.4	-90.00	5,530.8	52.0	4,294.7	4,253.5	41.22	104.191	
9,000.0	7,740.0	7,697.0	7,697.0	32.8	13.4	-90.00	5,530.8	52.0	4,196.2	4,153.4	42.78	98.092	
9,100.0	7,740.0	7,697.0	7,697.0	34.2	13.4	-90.00	5,530.8	52.0	4,097.7	4,053.4	44.36	92.380	
9,200.0	7,740.0	7,697.0	7,697.0	35.6	13.4	-90.00	5,530.8	52.0	3,999.4	3,953.4	45.95	87.029	
9,300.0	7,740.0	7,697.0	7,697.0	37.1	13.4	-90.00	5,530.8	52.0	3,901.1	3,853.5	47.57	82.012	
9,400.0	7,740.0	7,697.0	7,697.0	38.6	13.4	-90.00	5,530.8	52.0	3,802.9	3,753.7	49.19	77.305	
9,500.0	7,740.0	7,697.0	7,697.0	40.1	13.4	-90.00	5,530.8	52.0	3,704.8	3,653.9	50.83	72.885	
9,600.0	7,740.0	7,697.0	7,697.0	41.7	13.4	-90.00	5,530.8	52.0	3,606.8	3,554.3	52.48	68.729	
9,700.0	7,740.0	7,697.0	7,697.0	43.2	13.4	-90.00	5,530.8	52.0	3,508.9	3,454.8	54.13	64.818	
9,800.0	7,740.0	7,697.0	7,697.0	44.8	13.4	-90.00	5,530.8	52.0	3,411.1	3,355.3	55.80	61.132	
9,900.0	7,740.0	7,697.0	7,697.0	46.4	13.4	-90.00	5,530.8	52.0	3,313.5	3,256.0	57.47	57.656	
10,000.0	7,740.0	7,697.0	7,697.0	48.0	13.4	-90.00	5,530.8	52.0	3,216.0	3,156.9	59.15	54.372	
10,100.0	7,740.0	7,697.0	7,697.0	49.6	13.4	-90.00	5,530.8	52.0	3,118.7	3,057.9	60.83	51.268	
10,200.0	7,740.0	7,697.0	7,697.0	51.2	13.4	-90.00	5,530.8	52.0	3,021.5	2,959.0	62.52	48.330	
10,300.0	7,740.0	7,697.0	7,697.0	52.8	13.4	-90.00	5,530.8	52.0	2,924.6	2,860.4	64.21	45.546	
10,400.0	7,740.0	7,697.0	7,697.0	54.5	13.4	-90.00	5,530.8	52.0	2,827.8	2,761.9	65.91	42.906	
10,500.0	7,740.0	7,697.0	7,697.0	56.1	13.4	-90.00	5,530.8	52.0	2,731.3	2,663.7	67.61	40.399	
10,600.0	7,740.0	7,697.0	7,697.0	57.7	13.4	-90.00	5,530.8	52.0	2,635.1	2,565.8	69.31	38.018	
10,700.0	7,740.0	7,697.0	7,697.0	59.4	13.4	-90.00	5,530.8	52.0	2,539.1	2,468.1	71.02	35.753	
10,800.0	7,740.0	7,697.0	7,697.0	61.1	13.4	-90.00	5,530.8	52.0	2,443.5	2,370.8	72.73	33.597	
10,900.0	7,740.0	7,697.0	7,697.0	62.7	13.4	-90.00	5,530.8	52.0	2,348.2	2,273.8	74.44	31.545	
11,000.0	7,740.0	7,697.0	7,697.0	64.4	13.4	-90.00	5,530.8	52.0	2,253.4	2,177.2	76.15	29.589	
11,100.0	7,740.0	7,697.0	7,697.0	66.1	13.4	-90.00	5,530.8	52.0	2,159.0	2,081.1	77.87	27.725	
11,200.0	7,740.0	7,697.0	7,697.0	67.7	13.4	-90.00	5,530.8	52.0	2,065.1	1,985.5	79.59	25.947	
11,300.0	7,740.0	7,697.0	7,697.0	69.4	13.4	-90.00	5,530.8	52.0	1,971.8	1,890.5	81.31	24.251	
11,395.3	7,740.0	7,697.0	7,697.0	71.0	13.4	-90.00	5,530.8	52.0	1,883.5	1,800.6	82.95	22.707	
11,400.0	7,740.0	7,697.0	7,697.0	71.1	13.4	-90.00	5,530.8	52.0	1,879.2	1,796.2	83.04	22.630	
11,500.0	7,740.0	7,697.0	7,697.0	72.8	13.4	-90.00	5,530.8	52.0	1,787.9	1,702.9	85.00	21.034	
11,584.7	7,740.0	7,697.0	7,697.0	74.2	13.4	-90.00	5,530.8	52.0	1,711.8	1,625.2	86.64	19.757	
11,600.0	7,740.0	7,697.0	7,697.0	74.5	13.4	-90.00	5,530.8	52.0	1,698.2	1,611.3	86.91	19.540	
11,700.0	7,740.0	7,697.0	7,697.0	76.2	13.4	-90.00	5,530.8	52.0	1,610.1	1,521.5	88.64	18.165	
11,800.0	7,740.0	7,697.0	7,697.0	77.9	13.4	-90.00	5,530.8	52.0	1,523.5	1,433.1	90.36	16.859	
11,900.0	7,740.0	7,697.0	7,697.0	79.6	13.4	-90.00	5,530.8	52.0	1,438.5	1,346.4	92.09	15.620	
12,000.0	7,740.0	7,697.0	7,697.0	81.3	13.4	-90.00	5,530.8	52.0	1,355.7	1,261.9	93.82	14.449	
12,100.0	7,740.0	7,697.0	7,697.0	83.0	13.4	-90.00	5,530.8	52.0	1,275.3	1,179.7	95.56	13.346	
12,200.0	7,740.0	7,697.0	7,697.0	84.8	13.4	-90.00	5,530.8	52.0	1,197.8	1,100.5	97.29	12.312	
12,300.0	7,740.0	7,697.0	7,697.0	86.5	13.4	-90.00	5,530.8	52.0	1,124.0	1,024.9	99.02	11.351	
12,400.0	7,740.0	7,697.0	7,697.0	88.2	13.4	-90.00	5,530.8	52.0	1,054.4	953.6	100.76	10.465	
12,500.0	7,740.0	7,697.0	7,697.0	89.9	13.4	-90.00	5,530.8	52.0	990.1	887.6	102.49	9.660	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S												Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
12,600.0	7,740.0	7,697.0	7,697.0	91.6	13.4	-90.00	5,530.8	52.0	932.1	827.8	104.23	8.942	
12,700.0	7,740.0	7,697.0	7,697.0	93.3	13.4	-90.00	5,530.8	52.0	881.6	775.6	105.96	8.320	
12,800.0	7,740.0	7,697.0	7,697.0	95.1	13.4	-90.00	5,530.8	52.0	840.0	732.3	107.70	7.800	
12,900.0	7,740.0	7,697.0	7,697.0	96.8	13.4	-90.00	5,530.8	52.0	808.8	699.4	109.44	7.390	
13,000.0	7,740.0	7,697.0	7,697.0	98.5	13.4	-90.00	5,530.8	52.0	789.1	677.9	111.18	7.097	
13,100.0	7,740.0	7,697.0	7,697.0	100.2	13.4	-90.00	5,530.8	52.0	781.7	668.8	112.92	6.923	
13,107.6	7,740.0	7,697.0	7,697.0	100.4	13.4	-90.00	5,530.8	52.0	781.7	668.6	113.05	6.915 CC, ES	
13,200.0	7,740.0	7,697.0	7,697.0	102.0	13.4	-90.00	5,530.8	52.0	787.1	672.5	114.66	6.865 SF	
13,300.0	7,740.0	7,697.0	7,697.0	103.7	13.4	-90.00	5,530.8	52.0	805.0	688.6	116.40	6.916	
13,400.0	7,740.0	7,697.0	7,697.0	105.4	13.4	-90.00	5,530.8	52.0	834.6	716.4	118.14	7.065	
13,500.0	7,740.0	7,697.0	7,697.0	107.2	13.4	-90.00	5,530.8	52.0	874.6	754.8	119.88	7.296	
13,600.0	7,740.0	7,697.0	7,697.0	108.9	13.4	-90.00	5,530.8	52.0	923.8	802.2	121.62	7.596	
13,700.0	7,740.0	7,697.0	7,697.0	110.6	13.4	-90.00	5,530.8	52.0	980.8	857.4	123.36	7.951	
13,800.0	7,740.0	7,697.0	7,697.0	112.3	13.4	-90.00	5,530.8	52.0	1,044.2	919.1	125.10	8.347	
13,900.0	7,740.0	7,697.0	7,697.0	114.1	13.4	-90.00	5,530.8	52.0	1,113.1	986.2	126.85	8.775	
14,000.0	7,740.0	7,697.0	7,697.0	115.8	13.4	-90.00	5,530.8	52.0	1,186.3	1,057.7	128.59	9.226	
14,100.0	7,740.0	7,697.0	7,697.0	117.5	13.4	-90.00	5,530.8	52.0	1,263.3	1,132.9	130.33	9.693	
14,200.0	7,740.0	7,697.0	7,697.0	119.3	13.4	-90.00	5,530.8	52.0	1,343.3	1,211.2	132.08	10.170	
14,300.0	7,740.0	7,697.0	7,697.0	121.0	13.4	-90.00	5,530.8	52.0	1,425.8	1,292.0	133.82	10.654	
14,400.0	7,740.0	7,697.0	7,697.0	122.8	13.4	-90.00	5,530.8	52.0	1,510.4	1,374.8	135.56	11.142	
14,500.0	7,740.0	7,697.0	7,697.0	124.5	13.4	-90.00	5,530.8	52.0	1,596.8	1,459.5	137.31	11.629	
14,600.0	7,740.0	7,697.0	7,697.0	126.2	13.4	-90.00	5,530.8	52.0	1,684.7	1,545.7	139.05	12.116	
14,696.1	7,740.0	7,697.0	7,697.0	127.9	13.4	-90.00	5,530.8	52.0	1,770.4	1,629.6	140.73	12.580	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO													Offset Site Error: 0.0 ft	
Survey Program: 7771-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,300.0	7,740.0	7,688.0	7,688.0	37.1	13.4	-90.00	6,883.4	51.5	5,234.4	5,186.8	47.55	110.078		
9,400.0	7,740.0	7,688.0	7,688.0	38.6	13.4	-90.00	6,883.4	51.5	5,135.3	5,086.2	49.18	104.425		
9,500.0	7,740.0	7,688.0	7,688.0	40.1	13.4	-90.00	6,883.4	51.5	5,036.3	4,985.5	50.81	99.111		
9,600.0	7,740.0	7,688.0	7,688.0	41.7	13.4	-90.00	6,883.4	51.5	4,937.4	4,884.9	52.46	94.112		
9,700.0	7,740.0	7,688.0	7,688.0	43.2	13.4	-90.00	6,883.4	51.5	4,838.5	4,784.3	54.12	89.404		
9,800.0	7,740.0	7,688.0	7,688.0	44.8	13.4	-90.00	6,883.4	51.5	4,739.6	4,683.8	55.78	84.964		
9,900.0	7,740.0	7,688.0	7,688.0	46.4	13.4	-90.00	6,883.4	51.5	4,640.8	4,583.3	57.45	80.772		
10,000.0	7,740.0	7,688.0	7,688.0	48.0	13.4	-90.00	6,883.4	51.5	4,542.0	4,482.8	59.13	76.810		
10,100.0	7,740.0	7,688.0	7,688.0	49.6	13.4	-90.00	6,883.4	51.5	4,443.3	4,382.4	60.82	73.061		
10,200.0	7,740.0	7,688.0	7,688.0	51.2	13.4	-90.00	6,883.4	51.5	4,344.6	4,282.1	62.50	69.510		
10,300.0	7,740.0	7,688.0	7,688.0	52.8	13.4	-90.00	6,883.4	51.5	4,246.0	4,181.8	64.20	66.141		
10,400.0	7,740.0	7,688.0	7,688.0	54.5	13.4	-90.00	6,883.4	51.5	4,147.5	4,081.6	65.89	62.943		
10,500.0	7,740.0	7,688.0	7,688.0	56.1	13.4	-90.00	6,883.4	51.5	4,049.0	3,981.4	67.59	59.903		
10,600.0	7,740.0	7,688.0	7,688.0	57.7	13.4	-90.00	6,883.4	51.5	3,950.6	3,881.3	69.30	57.010		
10,700.0	7,740.0	7,688.0	7,688.0	59.4	13.4	-90.00	6,883.4	51.5	3,852.3	3,781.3	71.00	54.256		
10,800.0	7,740.0	7,688.0	7,688.0	61.1	13.4	-90.00	6,883.4	51.5	3,754.1	3,681.4	72.71	51.630		
10,900.0	7,740.0	7,688.0	7,688.0	62.7	13.4	-90.00	6,883.4	51.5	3,656.0	3,581.6	74.42	49.124		
11,000.0	7,740.0	7,688.0	7,688.0	64.4	13.4	-90.00	6,883.4	51.5	3,558.0	3,481.9	76.14	46.730		
11,100.0	7,740.0	7,688.0	7,688.0	66.1	13.4	-90.00	6,883.4	51.5	3,460.1	3,382.3	77.86	44.443		
11,200.0	7,740.0	7,688.0	7,688.0	67.7	13.4	-90.00	6,883.4	51.5	3,362.3	3,282.8	79.57	42.254		
11,300.0	7,740.0	7,688.0	7,688.0	69.4	13.4	-90.00	6,883.4	51.5	3,264.7	3,183.4	81.29	40.159		
11,395.3	7,740.0	7,688.0	7,688.0	71.0	13.4	-90.00	6,883.4	51.5	3,171.8	3,088.8	82.94	38.244		
11,400.0	7,740.0	7,688.0	7,688.0	71.1	13.4	-90.00	6,883.4	51.5	3,167.2	3,084.2	83.03	38.147		
11,500.0	7,740.0	7,688.0	7,688.0	72.8	13.4	-90.00	6,883.4	51.5	3,070.1	2,985.1	84.98	36.126		
11,584.7	7,740.0	7,688.0	7,688.0	74.2	13.4	-90.00	6,883.4	51.5	2,988.4	2,901.8	86.63	34.497		
11,600.0	7,740.0	7,688.0	7,688.0	74.5	13.4	-90.00	6,883.4	51.5	2,973.7	2,886.8	86.89	34.222		
11,700.0	7,740.0	7,688.0	7,688.0	76.2	13.4	-90.00	6,883.4	51.5	2,877.6	2,789.0	88.62	32.471		
11,800.0	7,740.0	7,688.0	7,688.0	77.9	13.4	-90.00	6,883.4	51.5	2,781.9	2,691.5	90.35	30.790		
11,900.0	7,740.0	7,688.0	7,688.0	79.6	13.4	-90.00	6,883.4	51.5	2,686.4	2,594.3	92.08	29.175		
12,000.0	7,740.0	7,688.0	7,688.0	81.3	13.4	-90.00	6,883.4	51.5	2,591.3	2,497.5	93.81	27.623		
12,100.0	7,740.0	7,688.0	7,688.0	83.0	13.4	-90.00	6,883.4	51.5	2,496.6	2,401.1	95.54	26.131		
12,200.0	7,740.0	7,688.0	7,688.0	84.8	13.4	-90.00	6,883.4	51.5	2,402.3	2,305.0	97.27	24.696		
12,300.0	7,740.0	7,688.0	7,688.0	86.5	13.4	-90.00	6,883.4	51.5	2,308.5	2,209.5	99.01	23.316		
12,400.0	7,740.0	7,688.0	7,688.0	88.2	13.4	-90.00	6,883.4	51.5	2,215.2	2,114.5	100.74	21.989		
12,500.0	7,740.0	7,688.0	7,688.0	89.9	13.4	-90.00	6,883.4	51.5	2,122.5	2,020.1	102.48	20.713		
12,600.0	7,740.0	7,688.0	7,688.0	91.6	13.4	-90.00	6,883.4	51.5	2,030.6	1,926.4	104.21	19.485		
12,700.0	7,740.0	7,688.0	7,688.0	93.3	13.4	-90.00	6,883.4	51.5	1,939.4	1,833.4	105.95	18.305		
12,800.0	7,740.0	7,688.0	7,688.0	95.1	13.4	-90.00	6,883.4	51.5	1,849.1	1,741.4	107.69	17.172		
12,900.0	7,740.0	7,688.0	7,688.0	96.8	13.4	-90.00	6,883.4	51.5	1,759.9	1,650.5	109.42	16.084		
13,000.0	7,740.0	7,688.0	7,688.0	98.5	13.4	-90.00	6,883.4	51.5	1,671.9	1,560.8	111.16	15.041		
13,100.0	7,740.0	7,688.0	7,688.0	100.2	13.4	-90.00	6,883.4	51.5	1,585.4	1,472.5	112.90	14.042		
13,200.0	7,740.0	7,688.0	7,688.0	102.0	13.4	-90.00	6,883.4	51.5	1,500.5	1,385.9	114.64	13.089		
13,300.0	7,740.0	7,688.0	7,688.0	103.7	13.4	-90.00	6,883.4	51.5	1,417.6	1,301.2	116.38	12.181		
13,400.0	7,740.0	7,688.0	7,688.0	105.4	13.4	-90.00	6,883.4	51.5	1,337.0	1,218.9	118.12	11.319		
13,500.0	7,740.0	7,688.0	7,688.0	107.2	13.4	-90.00	6,883.4	51.5	1,259.2	1,139.4	119.86	10.506		
13,600.0	7,740.0	7,688.0	7,688.0	108.9	13.4	-90.00	6,883.4	51.5	1,184.8	1,063.2	121.60	9.743		
13,700.0	7,740.0	7,688.0	7,688.0	110.6	13.4	-90.00	6,883.4	51.5	1,114.3	991.0	123.35	9.034		
13,800.0	7,740.0	7,688.0	7,688.0	112.3	13.4	-90.00	6,883.4	51.5	1,048.7	923.6	125.09	8.384		
13,900.0	7,740.0	7,688.0	7,688.0	114.1	13.4	-90.00	6,883.4	51.5	988.8	862.0	126.83	7.797		
14,000.0	7,740.0	7,688.0	7,688.0	115.8	13.4	-90.00	6,883.4	51.5	935.9	807.3	128.57	7.279		
14,100.0	7,740.0	7,688.0	7,688.0	117.5	13.4	-90.00	6,883.4	51.5	891.0	760.7	130.32	6.837		
14,200.0	7,740.0	7,688.0	7,688.0	119.3	13.4	-90.00	6,883.4	51.5	855.5	723.5	132.06	6.478		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO												Offset Well Error:	0.0 ft
Survey Program: 7771-Geolink MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
14,300.0	7,740.0	7,688.0	7,688.0	121.0	13.4	-90.00	6,883.4	51.5	830.7	696.9	133.80	6.208	
14,400.0	7,740.0	7,688.0	7,688.0	122.8	13.4	-90.00	6,883.4	51.5	817.3	681.8	135.55	6.030	
14,459.8	7,740.0	7,688.0	7,688.0	123.8	13.4	-90.00	6,883.4	51.5	815.1	678.6	136.59	5.968 CC, ES	
14,500.0	7,740.0	7,688.0	7,688.0	124.5	13.4	-90.00	6,883.4	51.5	816.1	678.8	137.29	5.945 SF	
14,600.0	7,740.0	7,688.0	7,688.0	126.2	13.4	-90.00	6,883.4	51.5	827.1	688.1	139.04	5.949	
14,696.1	7,740.0	7,688.0	7,688.0	127.9	13.4	-90.00	6,883.4	51.5	848.7	708.0	140.71	6.031	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV											Offset Site Error:		0.0 ft	
Survey Program: 7756-Geolink MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,950.0	7,716.5	7,670.5	7,670.5	21.1	13.4	15.66	5,577.1	1,373.3	5,249.1	5,230.3	18.82	278.868		
8,000.0	7,728.5	7,682.5	7,682.5	21.5	13.4	24.62	5,577.1	1,373.3	5,200.7	5,181.1	19.63	264.993		
8,050.0	7,736.3	7,690.3	7,690.3	21.9	13.4	42.21	5,577.1	1,373.3	5,151.6	5,128.1	23.51	219.091		
8,100.0	7,739.8	7,693.8	7,693.8	22.2	13.4	76.87	5,577.1	1,373.3	5,102.0	5,072.2	29.81	171.166		
8,115.3	7,740.0	7,694.0	7,694.0	22.4	13.4	90.00	5,577.1	1,373.3	5,086.8	5,056.4	30.37	167.483		
8,200.0	7,740.0	7,694.0	7,694.0	23.1	13.4	90.00	5,577.1	1,373.3	5,002.7	4,971.4	31.35	159.577		
8,300.0	7,740.0	7,694.0	7,694.0	24.1	13.4	90.00	5,577.1	1,373.3	4,903.4	4,870.8	32.59	150.463		
8,400.0	7,740.0	7,694.0	7,694.0	25.2	13.4	90.00	5,577.1	1,373.3	4,804.2	4,770.3	33.90	141.701		
8,500.0	7,740.0	7,694.0	7,694.0	26.3	13.4	90.00	5,577.1	1,373.3	4,705.0	4,669.7	35.28	133.361		
8,600.0	7,740.0	7,694.0	7,694.0	27.5	13.4	90.00	5,577.1	1,373.3	4,605.8	4,569.1	36.71	125.474		
8,700.0	7,740.0	7,694.0	7,694.0	28.7	13.4	90.00	5,577.1	1,373.3	4,506.6	4,468.5	38.18	118.047		
8,800.0	7,740.0	7,694.0	7,694.0	30.0	13.4	90.00	5,577.1	1,373.3	4,407.5	4,367.9	39.68	111.075		
8,900.0	7,740.0	7,694.0	7,694.0	31.4	13.4	90.00	5,577.1	1,373.3	4,308.5	4,267.3	41.21	104.538		
9,000.0	7,740.0	7,694.0	7,694.0	32.8	13.4	90.00	5,577.1	1,373.3	4,209.4	4,166.7	42.77	98.414		
9,100.0	7,740.0	7,694.0	7,694.0	34.2	13.4	90.00	5,577.1	1,373.3	4,110.5	4,066.1	44.35	92.678		
9,200.0	7,740.0	7,694.0	7,694.0	35.6	13.4	90.00	5,577.1	1,373.3	4,011.5	3,965.6	45.95	87.304		
9,300.0	7,740.0	7,694.0	7,694.0	37.1	13.4	90.00	5,577.1	1,373.3	3,912.7	3,865.1	47.56	82.265		
9,400.0	7,740.0	7,694.0	7,694.0	38.6	13.4	90.00	5,577.1	1,373.3	3,813.9	3,764.7	49.19	77.537		
9,500.0	7,740.0	7,694.0	7,694.0	40.1	13.4	90.00	5,577.1	1,373.3	3,715.1	3,664.3	50.83	73.096		
9,600.0	7,740.0	7,694.0	7,694.0	41.7	13.4	90.00	5,577.1	1,373.3	3,616.4	3,564.0	52.47	68.920		
9,700.0	7,740.0	7,694.0	7,694.0	43.2	13.4	90.00	5,577.1	1,373.3	3,517.8	3,463.7	54.13	64.989		
9,800.0	7,740.0	7,694.0	7,694.0	44.8	13.4	90.00	5,577.1	1,373.3	3,419.3	3,363.5	55.79	61.285		
9,900.0	7,740.0	7,694.0	7,694.0	46.4	13.4	90.00	5,577.1	1,373.3	3,320.9	3,263.4	57.47	57.789		
10,000.0	7,740.0	7,694.0	7,694.0	48.0	13.4	90.00	5,577.1	1,373.3	3,222.5	3,163.4	59.14	54.487		
10,100.0	7,740.0	7,694.0	7,694.0	49.6	13.4	90.00	5,577.1	1,373.3	3,124.3	3,063.5	60.83	51.365		
10,200.0	7,740.0	7,694.0	7,694.0	51.2	13.4	90.00	5,577.1	1,373.3	3,026.2	2,963.7	62.51	48.408		
10,300.0	7,740.0	7,694.0	7,694.0	52.8	13.4	90.00	5,577.1	1,373.3	2,928.2	2,864.0	64.21	45.606		
10,400.0	7,740.0	7,694.0	7,694.0	54.5	13.4	90.00	5,577.1	1,373.3	2,830.3	2,764.4	65.90	42.947		
10,500.0	7,740.0	7,694.0	7,694.0	56.1	13.4	90.00	5,577.1	1,373.3	2,732.6	2,665.0	67.60	40.422		
10,600.0	7,740.0	7,694.0	7,694.0	57.7	13.4	90.00	5,577.1	1,373.3	2,635.1	2,565.8	69.31	38.021		
10,700.0	7,740.0	7,694.0	7,694.0	59.4	13.4	90.00	5,577.1	1,373.3	2,537.8	2,466.8	71.01	35.737		
10,800.0	7,740.0	7,694.0	7,694.0	61.1	13.4	90.00	5,577.1	1,373.3	2,440.7	2,368.0	72.72	33.561		
10,900.0	7,740.0	7,694.0	7,694.0	62.7	13.4	90.00	5,577.1	1,373.3	2,343.8	2,269.4	74.44	31.488		
11,000.0	7,740.0	7,694.0	7,694.0	64.4	13.4	90.00	5,577.1	1,373.3	2,247.2	2,171.1	76.15	29.511		
11,100.0	7,740.0	7,694.0	7,694.0	66.1	13.4	90.00	5,577.1	1,373.3	2,150.9	2,073.1	77.87	27.624		
11,200.0	7,740.0	7,694.0	7,694.0	67.7	13.4	90.00	5,577.1	1,373.3	2,055.0	1,975.4	79.58	25.822		
11,300.0	7,740.0	7,694.0	7,694.0	69.4	13.4	90.00	5,577.1	1,373.3	1,959.5	1,878.2	81.30	24.101		
11,395.3	7,740.0	7,694.0	7,694.0	71.0	13.4	90.00	5,577.1	1,373.3	1,868.9	1,785.9	82.95	22.531		
11,400.0	7,740.0	7,694.0	7,694.0	71.1	13.4	90.00	5,577.1	1,373.3	1,864.4	1,781.4	83.04	22.453		
11,500.0	7,740.0	7,694.0	7,694.0	72.8	13.4	90.00	5,577.1	1,373.3	1,769.6	1,684.6	85.00	20.820		
11,584.7	7,740.0	7,694.0	7,694.0	74.2	13.4	90.00	5,577.1	1,373.3	1,689.3	1,602.7	86.64	19.499		
11,600.0	7,740.0	7,694.0	7,694.0	74.5	13.4	90.00	5,577.1	1,373.3	1,674.8	1,587.9	86.90	19.272		
11,700.0	7,740.0	7,694.0	7,694.0	76.2	13.4	90.00	5,577.1	1,373.3	1,580.5	1,491.8	88.63	17.832		
11,800.0	7,740.0	7,694.0	7,694.0	77.9	13.4	90.00	5,577.1	1,373.3	1,486.8	1,396.5	90.36	16.455		
11,900.0	7,740.0	7,694.0	7,694.0	79.6	13.4	90.00	5,577.1	1,373.3	1,394.1	1,302.0	92.09	15.138		
12,000.0	7,740.0	7,694.0	7,694.0	81.3	13.4	90.00	5,577.1	1,373.3	1,302.4	1,208.6	93.82	13.882		
12,100.0	7,740.0	7,694.0	7,694.0	83.0	13.4	90.00	5,577.1	1,373.3	1,212.0	1,116.5	95.55	12.685		
12,200.0	7,740.0	7,694.0	7,694.0	84.8	13.4	90.00	5,577.1	1,373.3	1,123.3	1,026.0	97.28	11.547		
12,300.0	7,740.0	7,694.0	7,694.0	86.5	13.4	90.00	5,577.1	1,373.3	1,036.6	937.6	99.02	10.469		
12,400.0	7,740.0	7,694.0	7,694.0	88.2	13.4	90.00	5,577.1	1,373.3	952.6	851.8	100.75	9.455		
12,500.0	7,740.0	7,694.0	7,694.0	89.9	13.4	90.00	5,577.1	1,373.3	871.9	769.4	102.49	8.507		
12,600.0	7,740.0	7,694.0	7,694.0	91.6	13.4	90.00	5,577.1	1,373.3	795.6	691.4	104.22	7.634		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error: 0.0 ft
Survey Program: 7756-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
12,700.0	7,740.0	7,694.0	7,694.0	93.3	13.4	90.00	5,577.1	1,373.3	725.1	619.1	105.96	6.843	
12,800.0	7,740.0	7,694.0	7,694.0	95.1	13.4	90.00	5,577.1	1,373.3	662.2	554.5	107.70	6.149	
12,900.0	7,740.0	7,694.0	7,694.0	96.8	13.4	90.00	5,577.1	1,373.3	609.4	500.0	109.43	5.569	
13,000.0	7,740.0	7,694.0	7,694.0	98.5	13.4	90.00	5,577.1	1,373.3	569.3	458.2	111.17	5.121	
13,100.0	7,740.0	7,694.0	7,694.0	100.2	13.4	90.00	5,577.1	1,373.3	544.9	432.0	112.91	4.826	
13,186.0	7,740.0	7,694.0	7,694.0	101.7	13.4	90.00	5,577.1	1,373.3	538.1	423.7	114.41	4.703	CC
13,200.0	7,740.0	7,694.0	7,694.0	102.0	13.4	90.00	5,577.1	1,373.3	538.3	423.6	114.65	4.695	ES, SF
13,300.0	7,740.0	7,694.0	7,694.0	103.7	13.4	90.00	5,577.1	1,373.3	550.0	433.6	116.39	4.726	
13,400.0	7,740.0	7,694.0	7,694.0	105.4	13.4	90.00	5,577.1	1,373.3	579.1	460.9	118.13	4.902	
13,500.0	7,740.0	7,694.0	7,694.0	107.2	13.4	90.00	5,577.1	1,373.3	623.0	503.1	119.87	5.197	
13,600.0	7,740.0	7,694.0	7,694.0	108.9	13.4	90.00	5,577.1	1,373.3	678.9	557.3	121.61	5.582	
13,700.0	7,740.0	7,694.0	7,694.0	110.6	13.4	90.00	5,577.1	1,373.3	744.1	620.8	123.36	6.032	
13,800.0	7,740.0	7,694.0	7,694.0	112.3	13.4	90.00	5,577.1	1,373.3	816.4	691.3	125.10	6.526	
13,900.0	7,740.0	7,694.0	7,694.0	114.1	13.4	90.00	5,577.1	1,373.3	894.0	767.2	126.84	7.048	
14,000.0	7,740.0	7,694.0	7,694.0	115.8	13.4	90.00	5,577.1	1,373.3	975.7	847.2	128.58	7.588	
14,100.0	7,740.0	7,694.0	7,694.0	117.5	13.4	90.00	5,577.1	1,373.3	1,060.6	930.3	130.33	8.138	
14,200.0	7,740.0	7,694.0	7,694.0	119.3	13.4	90.00	5,577.1	1,373.3	1,147.9	1,015.8	132.07	8.692	
14,300.0	7,740.0	7,694.0	7,694.0	121.0	13.4	90.00	5,577.1	1,373.3	1,237.1	1,103.3	133.81	9.245	
14,400.0	7,740.0	7,694.0	7,694.0	122.8	13.4	90.00	5,577.1	1,373.3	1,327.9	1,192.3	135.56	9.796	
14,500.0	7,740.0	7,694.0	7,694.0	124.5	13.4	90.00	5,577.1	1,373.3	1,419.9	1,282.6	137.30	10.341	
14,600.0	7,740.0	7,694.0	7,694.0	126.2	13.4	90.00	5,577.1	1,373.3	1,512.9	1,373.8	139.05	10.880	
14,696.1	7,740.0	7,694.0	7,694.0	127.9	13.4	90.00	5,577.1	1,373.3	1,603.0	1,462.3	140.72	11.391	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 40-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,800.0	7,740.0	7,717.7	7,621.3	30.0	19.9	86.13	6,298.8	2,009.7	5,232.3	5,187.8	44.58	117.375	
8,900.0	7,740.0	7,720.0	7,623.6	31.4	19.9	86.23	6,298.9	2,009.6	5,135.2	5,089.1	46.11	111.360	
9,000.0	7,740.0	7,720.0	7,623.6	32.8	19.9	86.23	6,298.9	2,009.6	5,038.3	4,990.6	47.67	105.696	
9,100.0	7,740.0	7,720.0	7,623.6	34.2	19.9	86.23	6,298.9	2,009.6	4,941.4	4,892.2	49.24	100.350	
9,200.0	7,740.0	7,724.4	7,628.0	35.6	19.9	86.44	6,299.0	2,009.6	4,844.6	4,793.8	50.85	95.273	
9,300.0	7,740.0	7,726.0	7,629.6	37.1	19.9	86.51	6,299.0	2,009.6	4,748.0	4,695.6	52.46	90.500	
9,400.0	7,740.0	7,727.6	7,631.3	38.6	19.9	86.59	6,299.0	2,009.5	4,651.6	4,597.5	54.09	85.993	
9,500.0	7,740.0	7,729.3	7,632.9	40.1	19.9	86.66	6,299.1	2,009.5	4,555.3	4,499.5	55.73	81.734	
9,600.0	7,740.0	7,731.0	7,634.6	41.7	19.9	86.74	6,299.1	2,009.5	4,459.1	4,401.7	57.38	77.708	
9,700.0	7,740.0	7,732.7	7,636.3	43.2	19.9	86.82	6,299.1	2,009.5	4,363.1	4,304.1	59.04	73.898	
9,800.0	7,740.0	7,734.4	7,638.0	44.8	19.9	86.90	6,299.2	2,009.4	4,267.3	4,206.6	60.71	70.290	
9,900.0	7,740.0	7,736.1	7,639.7	46.4	19.9	86.98	6,299.2	2,009.4	4,171.7	4,109.4	62.39	66.870	
10,000.0	7,740.0	7,737.8	7,641.4	48.0	19.9	87.06	6,299.2	2,009.4	4,076.4	4,012.3	64.07	63.626	
10,100.0	7,740.0	7,739.6	7,643.2	49.6	19.9	87.14	6,299.3	2,009.4	3,981.2	3,915.4	65.75	60.546	
10,200.0	7,740.0	7,741.3	7,644.9	51.2	20.0	87.22	6,299.3	2,009.3	3,886.3	3,818.8	67.45	57.620	
10,300.0	7,740.0	7,743.1	7,646.7	52.8	20.0	87.30	6,299.3	2,009.3	3,791.6	3,722.5	69.14	54.836	
10,400.0	7,740.0	7,744.9	7,648.5	54.5	20.0	87.38	6,299.4	2,009.3	3,697.2	3,626.4	70.85	52.187	
10,500.0	7,740.0	7,746.7	7,650.3	56.1	20.0	87.47	6,299.4	2,009.3	3,603.1	3,530.6	72.55	49.664	
10,600.0	7,740.0	7,748.5	7,652.1	57.7	20.0	87.55	6,299.5	2,009.2	3,509.4	3,435.1	74.26	47.259	
10,700.0	7,740.0	7,750.3	7,653.9	59.4	20.0	87.63	6,299.5	2,009.2	3,416.0	3,340.0	75.97	44.964	
10,800.0	7,740.0	7,752.1	7,655.8	61.1	20.0	87.72	6,299.5	2,009.2	3,323.0	3,245.3	77.69	42.774	
10,900.0	7,740.0	7,754.0	7,657.6	62.7	20.0	87.80	6,299.6	2,009.2	3,230.4	3,151.0	79.40	40.683	
11,000.0	7,740.0	7,755.9	7,659.5	64.4	20.0	87.89	6,299.6	2,009.1	3,138.2	3,057.1	81.12	38.684	
11,100.0	7,740.0	7,760.0	7,663.6	66.1	20.0	88.08	6,299.7	2,009.1	3,046.6	2,963.7	82.85	36.770	
11,200.0	7,740.0	7,760.0	7,663.6	67.7	20.0	88.08	6,299.7	2,009.1	2,955.5	2,870.9	84.57	34.946	
11,300.0	7,740.0	7,760.0	7,663.6	69.4	20.0	88.08	6,299.7	2,009.1	2,864.9	2,778.7	86.29	33.201	
11,395.3	7,740.0	7,760.0	7,663.6	71.0	20.0	88.08	6,299.7	2,009.1	2,779.2	2,691.3	87.93	31.607	
11,400.0	7,740.0	7,760.0	7,663.6	71.1	20.0	88.08	6,299.7	2,009.1	2,775.1	2,687.1	88.02	31.528	
11,500.0	7,740.0	7,765.1	7,668.7	72.8	20.0	88.25	6,299.8	2,009.0	2,685.5	2,595.6	89.90	29.872	
11,584.7	7,740.0	7,766.6	7,670.2	74.2	20.0	88.27	6,299.8	2,009.0	2,609.6	2,518.1	91.47	28.531	
11,600.0	7,740.0	7,766.9	7,670.5	74.5	20.0	88.29	6,299.9	2,009.0	2,595.9	2,504.1	91.73	28.299	
11,700.0	7,740.0	7,768.7	7,672.3	76.2	20.0	88.38	6,299.9	2,009.0	2,506.7	2,413.3	93.46	26.820	
11,800.0	7,740.0	7,770.5	7,674.1	77.9	20.0	88.47	6,299.9	2,008.9	2,418.4	2,323.2	95.20	25.404	
11,900.0	7,740.0	7,772.3	7,675.9	79.6	20.0	88.56	6,300.0	2,008.9	2,331.1	2,234.2	96.93	24.048	
12,000.0	7,740.0	7,774.1	7,677.7	81.3	20.0	88.65	6,300.0	2,008.9	2,244.8	2,146.1	98.67	22.751	
12,100.0	7,740.0	7,776.0	7,679.6	83.0	20.0	88.74	6,300.1	2,008.9	2,159.7	2,059.3	100.41	21.509	
12,200.0	7,740.0	7,777.9	7,681.5	84.8	20.0	88.83	6,300.1	2,008.8	2,075.9	1,973.8	102.15	20.323	
12,300.0	7,740.0	7,779.8	7,683.4	86.5	20.0	88.93	6,300.1	2,008.8	1,993.7	1,889.8	103.89	19.191	
12,400.0	7,740.0	7,781.7	7,685.3	88.2	20.0	89.02	6,300.2	2,008.8	1,913.1	1,807.4	105.63	18.111	
12,500.0	7,740.0	7,783.6	7,687.2	89.9	20.0	89.12	6,300.2	2,008.8	1,834.4	1,727.0	107.37	17.085	
12,600.0	7,740.0	7,785.5	7,689.1	91.6	20.0	89.21	6,300.3	2,008.8	1,757.9	1,648.7	109.11	16.111	
12,700.0	7,740.0	7,787.5	7,691.1	93.3	20.0	89.31	6,300.3	2,008.7	1,683.8	1,572.9	110.85	15.190	
12,800.0	7,740.0	7,789.4	7,693.0	95.1	20.0	89.41	6,300.4	2,008.7	1,612.5	1,499.9	112.59	14.322	
12,900.0	7,740.0	7,791.4	7,695.0	96.8	20.0	89.51	6,300.4	2,008.7	1,544.5	1,430.1	114.34	13.508	
13,000.0	7,740.0	7,793.4	7,697.0	98.5	20.0	89.61	6,300.5	2,008.7	1,480.0	1,363.9	116.08	12.750	
13,100.0	7,740.0	7,795.5	7,699.1	100.2	20.0	89.71	6,300.5	2,008.6	1,419.7	1,301.9	117.82	12.049	
13,200.0	7,740.0	7,797.5	7,701.1	102.0	20.0	89.81	6,300.6	2,008.6	1,364.0	1,244.5	119.57	11.408	
13,300.0	7,740.0	7,800.0	7,703.6	103.7	20.0	89.93	6,300.6	2,008.6	1,313.6	1,192.3	121.31	10.828	
13,400.0	7,740.0	7,800.0	7,703.6	105.4	20.0	89.93	6,300.6	2,008.6	1,269.1	1,146.1	123.05	10.314	
13,500.0	7,740.0	7,803.8	7,707.4	107.2	20.0	90.12	6,300.7	2,008.6	1,231.1	1,106.3	124.80	9.865	
13,600.0	7,740.0	7,805.9	7,709.5	108.9	20.0	90.22	6,300.8	2,008.5	1,200.3	1,073.8	126.55	9.485	
13,700.0	7,740.0	7,808.1	7,711.7	110.6	20.1	90.33	6,300.8	2,008.5	1,177.2	1,048.9	128.29	9.176	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WEL										Offset Site Error:		0.0 ft	
Survey Program:		40-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
13,800.0	7,740.0	7,810.3	7,713.9	112.3	20.1	90.44	6,300.9	2,008.5	1,162.2	1,032.2	130.04	8.938			
13,900.0	7,740.0	7,812.5	7,716.1	114.1	20.1	90.55	6,300.9	2,008.5	1,155.7	1,024.0	131.78	8.770			
13,925.1	7,740.0	7,813.0	7,716.6	114.5	20.1	90.58	6,300.9	2,008.5	1,155.5	1,023.3	132.22	8.739 CC, ES			
14,000.0	7,740.0	7,814.7	7,718.3	115.8	20.1	90.66	6,301.0	2,008.4	1,157.9	1,024.4	133.52	8.672			
14,100.0	7,740.0	7,816.9	7,720.5	117.5	20.1	90.77	6,301.0	2,008.4	1,168.6	1,033.4	135.27	8.639 SF			
14,200.0	7,740.0	7,819.1	7,722.7	119.3	20.1	90.88	6,301.1	2,008.4	1,187.7	1,050.7	137.01	8.669			
14,300.0	7,740.0	7,821.4	7,725.0	121.0	20.1	90.99	6,301.1	2,008.4	1,214.8	1,076.0	138.76	8.755			
14,400.0	7,740.0	7,823.7	7,727.2	122.8	20.1	91.10	6,301.2	2,008.4	1,249.2	1,108.7	140.50	8.891			
14,500.0	7,740.0	7,825.9	7,729.5	124.5	20.1	91.22	6,301.2	2,008.3	1,290.5	1,148.3	142.24	9.073			
14,600.0	7,740.0	7,828.2	7,731.8	126.2	20.1	91.33	6,301.3	2,008.3	1,338.1	1,194.1	143.99	9.293			
14,696.1	7,740.0	7,830.5	7,734.1	127.9	20.1	91.44	6,301.3	2,008.3	1,389.0	1,243.3	145.66	9.536			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL													Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	39.0	39.0	0.0	0.1	38.15	2,899.7	2,277.7	3,687.3					
100.0	100.0	141.5	141.5	0.2	0.2	38.15	2,899.7	2,277.6	3,687.3	3,686.9	0.40	9,233.287		
200.0	200.0	244.1	244.1	0.3	0.4	38.15	2,899.6	2,277.5	3,687.1	3,686.4	0.75	4,896.065		
300.0	300.0	346.6	346.6	0.5	0.6	38.15	2,899.5	2,277.4	3,686.9	3,685.8	1.11	3,331.114		
400.0	400.0	449.2	449.2	0.7	0.8	38.15	2,899.3	2,277.2	3,686.7	3,685.2	1.46	2,524.158		
500.0	500.0	551.7	551.7	0.9	1.0	-55.89	2,899.0	2,277.0	3,685.8	3,684.0	1.81	2,032.643		
600.0	600.0	654.2	654.2	1.0	1.1	-55.94	2,898.7	2,276.7	3,684.0	3,681.8	2.17	1,698.488		
700.0	699.9	756.7	756.7	1.2	1.3	-56.02	2,898.4	2,276.3	3,681.0	3,678.5	2.53	1,455.734		
800.0	799.7	852.1	852.1	1.4	1.5	-56.13	2,898.2	2,275.8	3,677.2	3,674.3	2.88	1,275.533		
900.0	899.4	936.0	936.0	1.6	1.6	-56.27	2,898.5	2,275.1	3,672.6	3,669.4	3.23	1,138.378		
1,000.0	998.9	1,056.1	1,056.1	1.8	1.8	-56.48	2,899.0	2,274.3	3,667.2	3,663.5	3.64	1,006.202		
1,076.7	1,075.1	1,134.5	1,134.5	2.0	2.0	-56.64	2,899.0	2,273.6	3,662.0	3,658.1	3.95	927.172		
1,100.0	1,098.3	1,157.5	1,157.5	2.1	2.0	-56.68	2,899.0	2,273.4	3,660.4	3,656.3	4.04	905.546		
1,200.0	1,197.6	1,245.0	1,245.0	2.3	2.2	-56.83	2,899.2	2,272.5	3,653.4	3,649.0	4.42	826.122		
1,300.0	1,296.9	1,330.8	1,330.7	2.6	2.3	-56.98	2,899.8	2,271.4	3,646.8	3,642.0	4.80	759.169		
1,400.0	1,396.2	1,398.8	1,398.7	2.8	2.4	-57.11	2,901.0	2,270.4	3,640.9	3,635.8	5.16	705.813		
1,500.0	1,495.5	1,494.9	1,494.7	3.1	2.6	-57.34	2,904.8	2,267.3	3,635.8	3,630.2	5.57	652.514		
1,600.0	1,594.8	1,581.7	1,581.2	3.3	2.8	-57.57	2,909.4	2,262.7	3,630.5	3,624.5	5.98	607.398		
1,700.0	1,694.1	1,647.3	1,646.6	3.6	2.9	-57.77	2,913.9	2,258.7	3,626.0	3,619.6	6.35	571.073		
1,800.0	1,793.4	1,720.0	1,718.8	3.9	3.1	-58.01	2,920.3	2,253.6	3,622.7	3,615.9	6.75	537.011		
1,900.0	1,892.7	1,762.0	1,760.5	4.1	3.2	-58.15	2,924.8	2,250.4	3,620.5	3,613.4	7.08	511.133		
2,000.0	1,992.0	1,816.0	1,814.0	4.4	3.3	-58.35	2,931.1	2,246.4	3,619.6	3,612.1	7.45	485.823		
2,010.0	2,001.9	1,816.0	1,814.0	4.4	3.3	-58.35	2,931.1	2,246.4	3,619.6	3,612.1	7.47	484.240		
2,100.0	2,091.3	1,865.0	1,862.4	4.7	3.4	-58.53	2,937.7	2,242.8	3,620.1	3,612.3	7.82	463.126		
2,200.0	2,190.6	1,910.0	1,906.7	4.9	3.5	-58.71	2,944.5	2,239.4	3,622.1	3,613.9	8.18	443.057		
2,300.0	2,289.9	1,965.1	1,960.9	5.2	3.7	-58.93	2,953.6	2,235.1	3,625.4	3,616.9	8.57	423.088		
2,400.0	2,389.2	2,026.0	2,020.6	5.5	3.9	-59.19	2,964.7	2,230.6	3,630.2	3,621.2	8.98	404.128		
2,500.0	2,488.5	2,113.6	2,106.4	5.7	4.1	-59.56	2,981.0	2,224.0	3,635.6	3,626.1	9.48	383.558		
2,600.0	2,587.8	2,195.0	2,186.1	6.0	4.4	-59.90	2,996.6	2,217.9	3,641.7	3,631.7	9.96	365.449		
2,700.0	2,687.1	2,314.3	2,302.9	6.3	4.8	-60.40	3,019.2	2,209.2	3,647.8	3,637.3	10.57	345.269		
2,800.0	2,786.4	2,408.0	2,394.6	6.5	5.1	-60.79	3,036.6	2,202.0	3,653.7	3,642.6	11.10	329.209		
2,900.0	2,885.7	2,479.0	2,464.2	6.8	5.3	-61.09	3,050.0	2,196.7	3,660.1	3,648.5	11.56	316.527		
3,000.0	2,985.0	2,551.3	2,534.9	7.1	5.6	-61.39	3,064.0	2,191.6	3,667.3	3,655.3	12.04	304.714		
3,100.0	3,084.3	2,634.3	2,616.0	7.3	5.9	-61.74	3,080.7	2,185.8	3,675.4	3,662.9	12.55	292.871		
3,200.0	3,183.6	2,764.0	2,742.6	7.6	6.4	-62.29	3,107.0	2,175.6	3,683.4	3,670.2	13.22	278.697		
3,300.0	3,282.9	2,841.1	2,818.1	7.9	6.7	-62.62	3,122.1	2,169.9	3,691.2	3,677.5	13.70	269.367		
3,400.0	3,382.2	2,969.3	2,943.5	8.1	7.2	-63.13	3,146.8	2,161.2	3,699.2	3,684.9	14.35	257.755		
3,500.0	3,481.5	3,049.0	3,021.5	8.4	7.5	-63.46	3,162.1	2,155.4	3,707.2	3,692.3	14.85	249.621		
3,600.0	3,580.9	3,125.1	3,095.9	8.7	7.7	-63.77	3,177.0	2,150.1	3,715.8	3,700.4	15.34	242.185		
3,700.0	3,680.2	3,223.5	3,192.2	9.0	8.1	-64.17	3,196.6	2,143.3	3,724.8	3,709.0	15.90	234.305		
3,800.0	3,779.5	3,347.0	3,313.0	9.2	8.6	-64.66	3,220.5	2,134.8	3,733.6	3,717.1	16.53	225.826		
3,900.0	3,878.8	3,428.0	3,392.2	9.5	8.9	-64.99	3,236.4	2,128.5	3,742.4	3,725.4	17.05	219.525		
4,000.0	3,978.1	3,523.0	3,485.0	9.8	9.3	-65.39	3,255.4	2,120.9	3,751.6	3,734.0	17.60	213.122		
4,100.0	4,077.4	3,628.1	3,587.7	10.0	9.7	-65.82	3,276.2	2,112.8	3,760.9	3,742.7	18.19	206.803		
4,200.0	4,176.7	3,712.0	3,669.6	10.3	10.0	-66.16	3,293.0	2,106.1	3,770.5	3,751.8	18.71	201.530		
4,300.0	4,276.0	3,791.5	3,747.2	10.6	10.3	-66.48	3,308.9	2,100.5	3,780.7	3,761.5	19.19	196.987		
4,400.0	4,375.3	3,873.7	3,827.8	10.8	10.7	-66.79	3,325.1	2,095.8	3,791.3	3,771.7	19.69	192.598		
4,500.0	4,474.6	3,951.4	3,903.8	11.1	11.0	-67.08	3,340.7	2,091.5	3,802.5	3,782.4	20.16	188.574		
4,600.0	4,573.9	4,094.7	4,043.9	11.4	11.5	-67.61	3,369.5	2,083.4	3,814.0	3,793.2	20.83	183.103		
4,700.0	4,673.2	4,233.2	4,179.4	11.7	12.1	-68.16	3,395.9	2,072.5	3,823.6	3,802.1	21.52	177.709		
4,800.0	4,772.5	4,302.4	4,247.0	11.9	12.4	-68.44	3,409.5	2,066.4	3,833.6	3,811.6	21.99	174.354		
4,900.0	4,871.8	4,376.0	4,318.8	12.2	12.7	-68.73	3,424.5	2,060.5	3,844.7	3,822.2	22.46	171.143		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL													Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,971.1	4,492.9	4,433.1	12.5	13.1	-69.18	3,447.5	2,052.3	3,855.8	3,832.8	23.05	167.245		
5,100.0	5,070.4	4,566.0	4,504.5	12.7	13.4	-69.46	3,462.1	2,047.1	3,867.2	3,843.7	23.53	164.369		
5,200.0	5,169.7	4,632.8	4,569.7	13.0	13.7	-69.71	3,475.9	2,042.3	3,879.4	3,855.4	23.98	161.763		
5,300.0	5,269.0	5,384.8	5,313.6	13.3	15.6	-71.88	3,561.7	2,009.5	3,889.2	3,863.5	25.75	151.056		
5,400.0	5,368.3	5,476.7	5,405.6	13.5	15.7	-72.04	3,561.9	2,008.9	3,885.4	3,859.3	26.12	148.730		
5,500.0	5,467.6	5,564.3	5,493.1	13.8	15.8	-72.20	3,562.2	2,008.4	3,882.0	3,855.5	26.50	146.498		
5,600.0	5,566.9	5,660.6	5,589.4	14.1	16.0	-72.37	3,563.0	2,007.6	3,878.8	3,851.9	26.89	144.255		
5,700.0	5,666.2	5,767.6	5,696.4	14.4	16.1	-72.57	3,563.8	2,006.4	3,875.5	3,848.2	27.30	141.966		
5,800.0	5,765.5	5,862.4	5,791.2	14.6	16.2	-72.75	3,564.6	2,004.9	3,872.2	3,844.5	27.69	139.820		
5,900.0	5,864.8	5,949.7	5,878.5	14.9	16.3	-72.92	3,565.5	2,003.8	3,869.2	3,841.1	28.08	137.796		
6,000.0	5,964.1	6,045.8	5,974.5	15.2	16.4	-73.10	3,566.7	2,002.7	3,866.4	3,838.0	28.48	135.783		
6,100.0	6,063.4	6,158.5	6,087.2	15.4	16.6	-73.31	3,567.8	2,001.5	3,863.6	3,834.7	28.90	133.711		
6,200.0	6,162.7	6,275.0	6,203.7	15.7	16.7	-73.53	3,568.5	2,000.0	3,860.3	3,831.0	29.32	131.643		
6,300.0	6,262.0	6,341.1	6,269.8	16.0	16.8	-73.66	3,569.1	1,999.1	3,857.3	3,827.6	29.68	129.953		
6,400.0	6,361.3	6,439.5	6,368.3	16.2	17.0	-73.84	3,570.5	1,998.1	3,855.0	3,824.9	30.09	128.129		
6,500.0	6,460.7	6,522.4	6,451.1	16.5	17.1	-74.00	3,571.7	1,997.1	3,852.6	3,822.1	30.48	126.416		
6,600.0	6,560.0	6,687.2	6,615.8	16.8	17.3	-74.32	3,573.2	1,995.2	3,850.0	3,819.0	30.97	124.325		
6,700.0	6,659.3	6,771.0	6,699.7	17.1	17.4	-74.46	3,573.1	1,994.9	3,846.5	3,815.2	31.34	122.718		
6,800.0	6,758.6	6,861.9	6,790.5	17.3	17.5	-74.62	3,573.3	1,994.5	3,843.4	3,811.7	31.73	121.113		
6,900.0	6,857.9	6,959.1	6,887.8	17.6	17.6	-74.80	3,573.6	1,994.0	3,840.4	3,808.3	32.14	119.506		
7,000.0	6,957.2	7,041.3	6,969.9	17.9	17.7	-74.95	3,574.2	1,993.3	3,837.8	3,805.2	32.52	118.011		
7,100.0	7,056.5	7,144.0	7,072.7	18.1	17.9	-75.13	3,575.1	1,992.7	3,835.3	3,802.4	32.93	116.474		
7,200.0	7,155.8	7,239.7	7,168.4	18.4	18.0	-75.31	3,575.9	1,992.2	3,832.9	3,799.6	33.33	114.993		
7,210.0	7,165.7	7,251.1	7,179.7	18.4	18.0	-75.33	3,576.0	1,992.2	3,832.7	3,799.3	33.37	114.840		
7,250.0	7,205.4	7,296.2	7,224.9	18.5	18.1	-43.77	3,576.3	1,992.0	3,830.4	3,796.9	33.45	114.509		
7,300.0	7,254.8	7,347.1	7,275.8	18.7	18.1	-19.47	3,576.6	1,991.8	3,823.8	3,790.4	33.37	114.581		
7,350.0	7,303.5	7,392.3	7,321.0	18.8	18.2	-7.29	3,576.9	1,991.6	3,813.2	3,780.1	33.10	115.197		
7,400.0	7,351.2	7,439.8	7,368.4	18.9	18.3	-0.34	3,577.3	1,991.2	3,798.6	3,765.9	32.65	116.331		
7,450.0	7,397.6	7,490.6	7,419.2	19.0	18.3	4.29	3,577.7	1,990.8	3,780.1	3,748.1	32.04	117.990		
7,500.0	7,442.2	7,531.1	7,459.7	19.2	18.4	7.82	3,578.1	1,990.4	3,757.9	3,726.7	31.25	120.262		
7,550.0	7,484.8	7,561.9	7,490.6	19.3	18.4	10.83	3,578.4	1,990.1	3,732.3	3,701.9	30.31	123.151		
7,600.0	7,525.0	7,591.2	7,519.8	19.5	18.5	13.66	3,578.7	1,990.0	3,703.4	3,674.1	29.26	126.575		
7,650.0	7,562.4	7,621.9	7,550.6	19.6	18.5	16.55	3,579.2	1,989.9	3,671.5	3,643.3	28.16	130.396		
7,700.0	7,596.9	7,657.0	7,585.6	19.8	18.6	19.73	3,579.7	1,989.8	3,636.7	3,609.6	27.08	134.297		
7,750.0	7,628.2	7,688.8	7,617.4	20.0	18.6	23.39	3,580.2	1,989.8	3,599.3	3,573.1	26.13	137.731		
7,800.0	7,656.0	7,715.0	7,643.6	20.3	18.7	27.74	3,580.5	1,989.8	3,559.5	3,534.1	25.49	139.671		
7,850.0	7,680.1	7,735.8	7,664.4	20.5	18.7	33.05	3,580.9	1,989.9	3,517.8	3,492.5	25.38	138.626		
7,900.0	7,700.3	7,753.4	7,682.0	20.8	18.7	39.68	3,581.1	1,989.9	3,474.5	3,448.4	26.08	133.199		
7,950.0	7,716.5	7,767.7	7,696.3	21.1	18.7	47.99	3,581.4	1,989.9	3,429.7	3,402.0	27.78	123.470		
8,000.0	7,728.5	7,778.6	7,707.2	21.5	18.8	58.24	3,581.6	1,990.0	3,384.1	3,353.8	30.28	111.752		
8,050.0	7,736.3	7,786.0	7,714.6	21.9	18.8	70.25	3,581.7	1,990.0	3,337.7	3,304.8	32.93	101.370		
8,100.0	7,739.8	7,789.7	7,718.3	22.2	18.8	83.20	3,581.8	1,990.0	3,291.1	3,256.4	34.76	94.684		
8,115.3	7,740.0	7,790.1	7,718.7	22.4	18.8	87.15	3,581.8	1,990.0	3,276.8	3,241.8	35.05	93.501		
8,200.0	7,740.0	7,791.5	7,720.1	23.1	18.8	87.22	3,581.8	1,990.0	3,198.2	3,162.1	36.02	88.779		
8,300.0	7,740.0	7,799.0	7,727.6	24.1	18.8	87.58	3,582.0	1,990.0	3,105.6	3,068.3	37.28	83.314		
8,400.0	7,740.0	7,799.0	7,727.6	25.2	18.8	87.58	3,582.0	1,990.0	3,013.6	2,975.0	38.59	78.096		
8,500.0	7,740.0	7,799.0	7,727.6	26.3	18.8	87.58	3,582.0	1,990.0	2,922.0	2,882.0	39.96	73.121		
8,600.0	7,740.0	7,799.0	7,727.6	27.5	18.8	87.58	3,582.0	1,990.0	2,831.0	2,789.6	41.39	68.406		
8,700.0	7,740.0	7,799.7	7,728.3	28.7	18.8	87.62	3,582.0	1,990.0	2,740.7	2,697.8	42.85	63.954		
8,800.0	7,740.0	7,801.7	7,730.3	30.0	18.8	87.71	3,582.0	1,990.0	2,651.0	2,606.7	44.36	59.761		
8,900.0	7,740.0	7,803.7	7,732.3	31.4	18.8	87.81	3,582.0	1,990.0	2,562.1	2,516.2	45.90	55.824		
9,000.0	7,740.0	7,805.7	7,734.3	32.8	18.8	87.90	3,582.1	1,990.0	2,474.1	2,426.6	47.46	52.132		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,740.0	7,807.6	7,736.2	34.2	18.8	87.99	3,582.1	1,990.0	2,387.0	2,338.0	49.04	48.674	
9,200.0	7,740.0	7,809.6	7,738.2	35.6	18.8	88.09	3,582.2	1,990.0	2,301.0	2,250.3	50.64	45.436	
9,300.0	7,740.0	7,811.5	7,740.1	37.1	18.8	88.18	3,582.2	1,990.0	2,216.1	2,163.8	52.26	42.407	
9,400.0	7,740.0	7,813.5	7,742.1	38.6	18.8	88.27	3,582.2	1,990.0	2,132.5	2,078.6	53.89	39.574	
9,500.0	7,740.0	7,815.4	7,744.0	40.1	18.8	88.37	3,582.3	1,990.0	2,050.4	1,994.9	55.53	36.925	
9,600.0	7,740.0	7,817.3	7,745.9	41.7	18.8	88.46	3,582.3	1,990.0	1,969.9	1,912.8	57.18	34.452	
9,700.0	7,740.0	7,819.2	7,747.8	43.2	18.8	88.55	3,582.3	1,990.0	1,891.4	1,832.5	58.84	32.144	
9,800.0	7,740.0	7,821.1	7,749.7	44.8	18.8	88.64	3,582.4	1,990.0	1,814.9	1,754.4	60.51	29.994	
9,900.0	7,740.0	7,823.0	7,751.6	46.4	18.8	88.73	3,582.4	1,990.0	1,740.8	1,678.6	62.18	27.994	
10,000.0	7,740.0	7,824.9	7,753.5	48.0	18.8	88.82	3,582.4	1,990.1	1,669.4	1,605.5	63.86	26.139	
10,100.0	7,740.0	7,826.7	7,755.3	49.6	18.8	88.91	3,582.5	1,990.1	1,601.1	1,535.5	65.55	24.424	
10,200.0	7,740.0	7,828.6	7,757.2	51.2	18.8	89.00	3,582.5	1,990.1	1,536.2	1,468.9	67.24	22.845	
10,300.0	7,740.0	7,830.4	7,759.0	52.8	18.8	89.09	3,582.5	1,990.1	1,475.3	1,406.3	68.94	21.399	
10,400.0	7,740.0	7,832.3	7,760.9	54.5	18.8	89.18	3,582.6	1,990.1	1,418.8	1,348.1	70.64	20.084	
10,500.0	7,740.0	7,834.1	7,762.7	56.1	18.8	89.27	3,582.6	1,990.1	1,367.3	1,294.9	72.34	18.899	
10,600.0	7,740.0	7,835.9	7,764.5	57.7	18.8	89.35	3,582.6	1,990.1	1,321.3	1,247.3	74.05	17.843	
10,700.0	7,740.0	7,837.7	7,766.3	59.4	18.8	89.44	3,582.7	1,990.1	1,281.5	1,205.8	75.76	16.915	
10,800.0	7,740.0	7,839.6	7,768.1	61.1	18.8	89.53	3,582.7	1,990.1	1,248.5	1,171.1	77.48	16.115	
10,900.0	7,740.0	7,841.4	7,769.9	62.7	18.8	89.61	3,582.7	1,990.1	1,222.8	1,143.6	79.19	15.442	
11,000.0	7,740.0	7,843.1	7,771.7	64.4	18.9	89.70	3,582.8	1,990.1	1,204.9	1,124.0	80.91	14.892	
11,100.0	7,740.0	7,844.9	7,773.5	66.1	18.9	89.78	3,582.8	1,990.1	1,195.1	1,112.5	82.63	14.464	
11,167.7	7,740.0	7,846.1	7,774.7	67.2	18.9	89.84	3,582.8	1,990.1	1,193.2	1,109.4	83.79	14.239 CC	
11,200.0	7,740.0	7,846.7	7,775.3	67.7	18.9	89.87	3,582.8	1,990.1	1,193.6	1,109.3	84.35	14.151 ES	
11,300.0	7,740.0	7,848.5	7,777.0	69.4	18.9	89.95	3,582.9	1,990.1	1,200.5	1,114.4	86.07	13.947	
11,395.3	7,740.0	7,850.1	7,778.7	71.0	18.9	90.03	3,582.9	1,990.1	1,214.7	1,127.0	87.72	13.848	
11,400.0	7,740.0	7,850.2	7,778.8	71.1	18.9	90.04	3,582.9	1,990.1	1,215.6	1,127.7	87.81	13.844	
11,500.0	7,740.0	7,852.0	7,780.5	72.8	18.9	90.12	3,582.9	1,990.1	1,237.6	1,147.9	89.71	13.796 SF	
11,584.7	7,740.0	7,853.4	7,782.0	74.2	18.9	90.19	3,583.0	1,990.1	1,260.9	1,169.6	91.30	13.811	
11,600.0	7,740.0	7,853.7	7,782.3	74.5	18.9	90.20	3,583.0	1,990.1	1,265.6	1,174.0	91.57	13.822	
11,700.0	7,740.0	7,855.4	7,784.0	76.2	18.9	90.29	3,583.0	1,990.1	1,300.1	1,206.8	93.30	13.935	
11,800.0	7,740.0	7,857.2	7,785.8	77.9	18.9	90.37	3,583.0	1,990.1	1,341.2	1,246.1	95.03	14.114	
11,900.0	7,740.0	7,858.9	7,787.5	79.6	18.9	90.45	3,583.1	1,990.1	1,388.2	1,291.5	96.76	14.348	
12,000.0	7,740.0	7,860.6	7,789.2	81.3	18.9	90.53	3,583.1	1,990.1	1,440.7	1,342.2	98.49	14.628	
12,100.0	7,740.0	7,862.3	7,790.9	83.0	18.9	90.61	3,583.1	1,990.1	1,498.1	1,397.8	100.22	14.947	
12,200.0	7,740.0	7,864.0	7,792.6	84.8	18.9	90.70	3,583.1	1,990.2	1,559.7	1,457.7	101.96	15.298	
12,300.0	7,740.0	7,865.7	7,794.3	86.5	18.9	90.78	3,583.2	1,990.2	1,625.2	1,521.5	103.69	15.673	
12,400.0	7,740.0	7,867.4	7,796.0	88.2	18.9	90.86	3,583.2	1,990.2	1,694.0	1,588.6	105.43	16.068	
12,500.0	7,740.0	7,869.1	7,797.6	89.9	18.9	90.94	3,583.2	1,990.2	1,765.8	1,658.6	107.16	16.478	
12,600.0	7,740.0	7,870.7	7,799.3	91.6	18.9	91.01	3,583.3	1,990.2	1,840.2	1,731.4	108.90	16.899	
12,700.0	7,740.0	7,872.4	7,801.0	93.3	18.9	91.09	3,583.3	1,990.2	1,917.0	1,806.4	110.63	17.328	
12,800.0	7,740.0	7,874.0	7,802.6	95.1	18.9	91.17	3,583.3	1,990.2	1,995.8	1,883.5	112.37	17.761	
12,900.0	7,740.0	7,875.7	7,804.3	96.8	18.9	91.25	3,583.3	1,990.2	2,076.5	1,962.4	114.11	18.198	
13,000.0	7,740.0	7,877.3	7,805.9	98.5	18.9	91.33	3,583.4	1,990.2	2,158.8	2,042.9	115.84	18.635	
13,100.0	7,740.0	7,879.0	7,807.5	100.2	18.9	91.41	3,583.4	1,990.2	2,242.5	2,124.9	117.58	19.071	
13,200.0	7,740.0	7,880.6	7,809.2	102.0	18.9	91.48	3,583.4	1,990.2	2,327.5	2,208.1	119.32	19.506	
13,300.0	7,740.0	7,882.2	7,810.8	103.7	18.9	91.56	3,583.5	1,990.2	2,413.6	2,292.5	121.06	19.938	
13,400.0	7,740.0	7,883.8	7,812.4	105.4	18.9	91.64	3,583.5	1,990.2	2,500.8	2,378.0	122.80	20.365	
13,500.0	7,740.0	7,885.4	7,814.0	107.2	18.9	91.71	3,583.5	1,990.2	2,588.9	2,464.3	124.54	20.788	
13,600.0	7,740.0	7,887.0	7,815.6	108.9	18.9	91.79	3,583.5	1,990.2	2,677.8	2,551.5	126.27	21.206	
13,700.0	7,740.0	7,888.6	7,817.2	110.6	18.9	91.86	3,583.6	1,990.2	2,767.5	2,639.5	128.01	21.619	
13,800.0	7,740.0	7,890.2	7,818.8	112.3	18.9	91.94	3,583.6	1,990.2	2,857.9	2,728.1	129.75	22.026	
13,900.0	7,740.0	7,891.7	7,820.3	114.1	18.9	92.01	3,583.6	1,990.2	2,948.9	2,817.4	131.49	22.427	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL		Offset Site Error:		0.0 ft	
Survey Program:												771-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
14,000.0	7,740.0	7,893.3	7,821.9	115.8	18.9	92.09	3,583.6	1,990.2	3,040.4	2,907.2	133.23	22.821					
14,100.0	7,740.0	7,894.9	7,823.5	117.5	18.9	92.16	3,583.7	1,990.2	3,132.5	2,997.5	134.97	23.209					
14,200.0	7,740.0	7,896.4	7,825.0	119.3	18.9	92.24	3,583.7	1,990.2	3,225.1	3,088.3	136.71	23.591					
14,300.0	7,740.0	7,898.0	7,826.6	121.0	18.9	92.31	3,583.7	1,990.3	3,318.0	3,179.6	138.44	23.967					
14,400.0	7,740.0	7,899.5	7,828.1	122.8	18.9	92.38	3,583.8	1,990.3	3,411.4	3,271.2	140.18	24.335					
14,500.0	7,740.0	7,901.0	7,829.6	124.5	18.9	92.46	3,583.8	1,990.3	3,505.1	3,363.2	141.92	24.698					
14,600.0	7,740.0	7,902.6	7,831.2	126.2	18.9	92.53	3,583.8	1,990.3	3,599.2	3,455.6	143.66	25.054					
14,696.1	7,740.0	7,904.0	7,832.6	127.9	18.9	92.60	3,583.8	1,990.3	3,689.9	3,544.6	145.33	25.390					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU											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	
0.0	0.0	64.2	64.2	0.0	0.1	35.15	1,607.2	1,131.5	1,965.5				
100.0	100.0	189.3	189.2	0.2	0.3	35.10	1,606.8	1,129.2	1,964.3	1,963.8	0.49	4,044.512	
200.0	200.0	324.4	324.3	0.3	0.6	35.01	1,605.5	1,124.7	1,961.6	1,960.7	0.91	2,165.836	
300.0	300.0	433.3	433.0	0.5	0.8	34.88	1,604.3	1,118.5	1,957.3	1,956.0	1.28	1,527.347	
400.0	400.0	518.2	517.7	0.7	1.0	34.71	1,605.2	1,111.9	1,953.8	1,952.2	1.61	1,214.725	
500.0	500.0	776.6	772.6	0.9	1.8	-60.52	1,611.1	1,071.2	1,946.8	1,944.3	2.58	753.661	
600.0	600.0	904.6	897.6	1.0	2.3	-61.41	1,610.8	1,043.5	1,933.2	1,930.0	3.20	603.633	
700.0	699.9	1,022.1	1,012.3	1.2	2.8	-62.30	1,609.4	1,018.3	1,918.5	1,914.7	3.80	504.587	
800.0	799.7	1,158.0	1,144.2	1.4	3.5	-63.46	1,606.6	986.2	1,901.4	1,896.8	4.54	418.983	
900.0	899.4	1,264.5	1,246.9	1.6	4.0	-64.57	1,604.1	957.9	1,882.0	1,876.8	5.21	360.960	
1,000.0	998.9	1,377.4	1,355.5	1.8	4.6	-65.87	1,601.9	926.9	1,862.2	1,856.3	5.95	312.887	
1,076.7	1,075.1	1,450.8	1,426.0	2.0	4.9	-66.77	1,599.7	906.7	1,846.3	1,839.8	6.48	284.732	
1,100.0	1,098.3	1,469.0	1,443.5	2.1	5.0	-66.97	1,599.2	901.6	1,841.4	1,834.8	6.63	277.846	
1,200.0	1,197.6	1,547.1	1,518.3	2.3	5.5	-67.83	1,597.5	879.6	1,821.4	1,814.2	7.26	250.925	
1,300.0	1,296.9	1,624.7	1,592.9	2.6	5.9	-68.69	1,596.5	858.1	1,802.9	1,795.0	7.89	228.560	
1,400.0	1,396.2	1,731.0	1,695.3	2.8	6.4	-69.88	1,594.8	829.4	1,785.1	1,776.5	8.67	205.926	
1,500.0	1,495.5	1,819.0	1,779.7	3.1	6.9	-70.91	1,593.5	804.6	1,767.7	1,758.2	9.41	187.924	
1,600.0	1,594.8	1,921.5	1,877.6	3.3	7.5	-72.18	1,592.5	774.2	1,750.7	1,740.4	10.25	170.870	
1,700.0	1,694.1	2,017.1	1,968.8	3.6	8.0	-73.38	1,591.4	745.8	1,734.3	1,723.3	11.05	157.013	
1,800.0	1,793.4	2,113.2	2,061.0	3.9	8.5	-74.56	1,588.6	718.6	1,717.8	1,706.0	11.82	145.291	
1,900.0	1,892.7	2,182.0	2,127.2	4.1	8.9	-75.39	1,587.3	700.0	1,703.2	1,690.7	12.46	136.680	
2,000.0	1,992.0	2,314.6	2,253.9	4.4	9.6	-77.13	1,585.1	660.7	1,688.8	1,675.3	13.53	124.805	
2,100.0	2,091.3	2,389.8	2,325.4	4.7	10.1	-78.15	1,583.1	637.5	1,674.3	1,660.0	14.26	117.370	
2,200.0	2,190.6	2,451.4	2,383.9	4.9	10.4	-79.01	1,582.7	618.6	1,662.2	1,647.3	14.92	111.442	
2,300.0	2,289.9	2,518.4	2,447.9	5.2	10.8	-79.94	1,583.2	598.5	1,652.5	1,637.0	15.60	105.959	
2,400.0	2,389.2	2,613.0	2,538.3	5.5	11.3	-81.24	1,584.2	571.0	1,644.4	1,627.9	16.43	100.059	
2,500.0	2,488.5	2,693.7	2,615.7	5.7	11.8	-82.36	1,585.3	547.8	1,637.4	1,620.2	17.19	95.241	
2,600.0	2,587.8	2,801.5	2,718.8	6.0	12.4	-83.86	1,586.6	516.4	1,631.3	1,613.1	18.12	90.046	
2,700.0	2,687.1	2,917.6	2,830.1	6.3	13.0	-85.46	1,586.4	483.3	1,625.0	1,605.9	19.06	85.265	
2,800.0	2,786.4	3,011.8	2,920.7	6.5	13.5	-86.73	1,585.1	457.7	1,618.6	1,598.7	19.85	81.531	
2,900.0	2,885.7	3,128.0	3,032.5	6.8	14.1	-88.29	1,582.6	426.1	1,612.4	1,591.6	20.77	77.628	
3,000.0	2,985.0	3,215.0	3,115.9	7.1	14.6	-89.50	1,580.4	401.7	1,606.7	1,585.2	21.54	74.581	
3,100.0	3,084.3	3,298.5	3,196.0	7.3	15.0	-90.68	1,579.1	377.8	1,602.8	1,580.5	22.29	71.896	
3,200.0	3,183.6	3,370.1	3,264.5	7.6	15.4	-91.69	1,578.2	357.4	1,600.3	1,577.3	22.97	69.677	
3,300.0	3,282.9	3,476.0	3,366.4	7.9	15.9	-93.16	1,577.5	328.0	1,599.2	1,575.4	23.80	67.182	
3,367.6	3,350.1	3,526.1	3,414.7	8.1	16.2	-93.84	1,577.0	314.7	1,598.7	1,574.5	24.24	65.959	
3,400.0	3,382.2	3,550.1	3,437.8	8.1	16.3	-94.16	1,576.8	308.5	1,598.8	1,574.4	24.44	65.405	
3,500.0	3,481.5	3,613.6	3,499.1	8.4	16.6	-95.01	1,577.2	291.8	1,600.7	1,575.6	25.05	63.903	
3,600.0	3,580.9	3,684.9	3,567.5	8.7	17.0	-96.00	1,578.9	272.0	1,605.1	1,579.4	25.70	62.465	
3,700.0	3,680.2	3,832.5	3,709.1	9.0	17.8	-98.05	1,581.3	230.4	1,610.2	1,583.5	26.72	60.267	
3,800.0	3,779.5	3,923.8	3,796.8	9.2	18.3	-99.31	1,580.7	205.1	1,613.8	1,586.3	27.44	58.806	
3,900.0	3,878.8	4,002.7	3,872.5	9.5	18.7	-100.41	1,580.5	182.8	1,618.7	1,590.6	28.10	57.609	
4,000.0	3,978.1	4,106.5	3,971.7	9.8	19.3	-101.88	1,580.2	152.3	1,624.7	1,595.8	28.89	56.238	
4,100.0	4,077.4	4,237.3	4,096.8	10.0	20.1	-103.73	1,577.7	113.9	1,630.2	1,600.4	29.78	54.747	
4,200.0	4,176.7	4,305.8	4,162.4	10.3	20.4	-104.68	1,575.7	94.2	1,635.8	1,605.4	30.35	53.893	
4,300.0	4,276.0	4,366.8	4,220.8	10.6	20.8	-105.51	1,575.4	76.6	1,644.4	1,613.5	30.88	53.252	
4,400.0	4,375.3	4,468.7	4,318.8	10.8	21.3	-106.83	1,575.8	49.2	1,654.2	1,622.7	31.51	52.494	
4,500.0	4,474.6	4,568.8	4,416.4	11.1	21.7	-107.96	1,576.9	26.6	1,664.4	1,632.3	32.06	51.915	
4,600.0	4,573.9	4,673.2	4,518.9	11.4	22.0	-108.99	1,578.6	7.1	1,674.7	1,642.2	32.56	51.429	
4,700.0	4,673.2	4,781.9	4,626.2	11.7	22.4	-109.94	1,580.5	-10.2	1,684.9	1,651.8	33.03	51.005	
4,800.0	4,772.5	4,883.8	4,727.1	11.9	22.6	-110.77	1,582.4	-24.3	1,694.8	1,661.3	33.46	50.653	
4,900.0	4,871.8	4,986.6	4,829.1	12.2	22.9	-111.52	1,584.6	-36.8	1,704.8	1,671.0	33.85	50.357	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.0	4,971.1	5,101.6	4,943.5	12.5	23.2	-112.31	1,586.7	-48.8	1,714.4	1,680.1	34.25	50.056	
5,100.0	5,070.4	5,209.9	5,051.3	12.7	23.4	-113.00	1,588.2	-58.9	1,723.3	1,688.7	34.61	49.786	
5,200.0	5,169.7	5,307.2	5,148.3	13.0	23.6	-113.56	1,589.9	-66.1	1,732.2	1,697.2	34.94	49.578	
5,300.0	5,269.0	5,415.9	5,256.8	13.3	23.7	-114.11	1,592.3	-72.3	1,741.0	1,705.7	35.25	49.383	
5,400.0	5,368.3	5,529.1	5,369.8	13.5	23.9	-114.63	1,594.3	-77.0	1,749.0	1,713.5	35.56	49.189	
5,500.0	5,467.6	5,630.8	5,471.5	13.8	24.0	-115.08	1,596.0	-80.6	1,756.8	1,721.0	35.85	49.002	
5,600.0	5,566.9	5,724.7	5,565.3	14.1	24.1	-115.47	1,597.7	-83.6	1,764.7	1,728.6	36.13	48.840	
5,700.0	5,666.2	5,815.3	5,655.9	14.4	24.2	-115.84	1,599.8	-86.2	1,773.2	1,736.7	36.41	48.698	
5,800.0	5,765.5	5,916.9	5,757.4	14.6	24.3	-116.23	1,602.6	-88.8	1,781.9	1,745.2	36.69	48.564	
5,900.0	5,864.8	6,022.4	5,862.8	14.9	24.4	-116.63	1,605.3	-91.2	1,790.4	1,753.4	36.97	48.428	
6,000.0	5,964.1	6,135.4	5,975.8	15.2	24.5	-117.03	1,607.7	-93.0	1,798.4	1,761.1	37.24	48.295	
6,100.0	6,063.4	6,239.0	6,079.4	15.4	24.6	-117.37	1,609.7	-93.8	1,805.8	1,768.3	37.51	48.141	
6,200.0	6,162.7	6,335.4	6,175.7	15.7	24.7	-117.70	1,611.4	-94.9	1,813.3	1,775.6	37.79	47.990	
6,300.0	6,262.0	6,429.2	6,269.5	16.0	24.8	-118.03	1,613.1	-96.3	1,821.2	1,783.1	38.06	47.846	
6,400.0	6,361.3	6,522.2	6,362.5	16.2	24.9	-118.36	1,615.0	-98.0	1,829.4	1,791.1	38.34	47.717	
6,500.0	6,460.7	6,621.2	6,461.5	16.5	25.0	-118.71	1,617.1	-100.1	1,837.9	1,799.2	38.62	47.585	
6,600.0	6,560.0	6,720.5	6,560.7	16.8	25.1	-119.07	1,619.0	-102.5	1,846.4	1,807.5	38.90	47.461	
6,700.0	6,659.3	6,816.5	6,656.7	17.1	25.2	-119.42	1,620.9	-104.8	1,855.0	1,815.8	39.17	47.353	
6,800.0	6,758.6	6,913.3	6,753.4	17.3	25.4	-119.75	1,623.2	-106.8	1,863.9	1,824.4	39.45	47.252	
6,900.0	6,857.9	7,011.5	6,851.6	17.6	25.5	-120.07	1,625.7	-108.6	1,872.9	1,833.2	39.71	47.159	
7,000.0	6,957.2	7,111.3	6,951.4	17.9	25.6	-120.39	1,628.4	-110.1	1,882.0	1,842.0	39.98	47.072	
7,100.0	7,056.5	7,212.6	7,052.6	18.1	25.7	-120.70	1,631.2	-111.4	1,891.0	1,850.8	40.25	46.987	
7,200.0	7,155.8	7,317.0	7,156.9	18.4	25.8	-121.01	1,634.0	-112.3	1,899.9	1,859.4	40.51	46.896	
7,210.0	7,165.7	7,327.5	7,167.5	18.4	25.8	-121.04	1,634.3	-112.4	1,900.8	1,860.3	40.54	46.886	
7,250.0	7,205.4	7,369.6	7,209.5	18.5	25.8	-89.52	1,635.3	-112.7	1,903.0	1,862.4	40.65	46.816	
7,300.0	7,254.8	7,421.2	7,261.1	18.7	25.9	-65.64	1,636.6	-113.1	1,902.3	1,861.8	40.53	46.935	
7,350.0	7,303.5	7,470.5	7,310.4	18.8	25.9	-54.27	1,637.8	-113.4	1,897.7	1,857.5	40.13	47.285	
7,400.0	7,351.2	7,519.0	7,358.9	18.9	26.0	-48.55	1,639.0	-113.5	1,889.2	1,849.8	39.48	47.859	
7,450.0	7,397.6	7,566.3	7,406.1	19.0	26.0	-45.60	1,640.3	-113.5	1,877.1	1,838.5	38.58	48.655	
7,500.0	7,442.2	7,611.0	7,450.8	19.2	26.0	-44.25	1,641.5	-113.4	1,861.4	1,823.9	37.48	49.669	
7,550.0	7,484.8	7,653.3	7,493.2	19.3	26.1	-43.98	1,642.7	-113.2	1,842.3	1,806.1	36.20	50.887	
7,600.0	7,525.0	7,693.5	7,533.3	19.5	26.1	-44.55	1,643.9	-113.1	1,820.0	1,785.2	34.82	52.275	
7,650.0	7,562.4	7,731.2	7,571.0	19.6	26.1	-45.84	1,645.1	-112.9	1,794.8	1,761.4	33.38	53.764	
7,700.0	7,596.9	7,755.0	7,594.8	19.8	26.2	-47.57	1,645.8	-112.8	1,766.8	1,734.8	32.00	55.217	
7,750.0	7,628.2	7,789.1	7,628.8	20.0	26.2	-50.22	1,647.0	-112.7	1,736.5	1,705.7	30.73	56.506	
7,800.0	7,656.0	7,812.1	7,651.8	20.3	26.2	-53.33	1,647.9	-112.6	1,704.0	1,674.3	29.71	57.347	
7,850.0	7,680.1	7,832.5	7,672.2	20.5	26.2	-57.09	1,648.8	-112.5	1,669.8	1,640.7	29.04	57.502	
7,900.0	7,700.3	7,850.2	7,689.9	20.8	26.2	-61.51	1,649.6	-112.4	1,634.0	1,605.2	28.76	56.805	
7,950.0	7,716.5	7,865.0	7,704.6	21.1	26.3	-66.56	1,650.4	-112.4	1,597.0	1,568.1	28.89	55.284	
8,000.0	7,728.5	7,876.7	7,716.3	21.5	26.3	-72.15	1,651.0	-112.3	1,559.0	1,529.7	29.32	53.180	
8,050.0	7,736.3	7,885.2	7,724.8	21.9	26.3	-78.14	1,651.5	-112.3	1,520.5	1,490.6	29.91	50.841	
8,100.0	7,739.8	7,890.3	7,729.9	22.2	26.3	-84.32	1,651.7	-112.3	1,481.7	1,451.2	30.51	48.566	
8,115.3	7,740.0	7,891.2	7,730.8	22.4	26.3	-86.22	1,651.8	-112.3	1,469.8	1,439.1	30.68	47.909	
8,200.0	7,740.0	7,895.2	7,734.8	23.1	26.3	-86.46	1,652.0	-112.3	1,405.2	1,373.5	31.67	44.372	
8,300.0	7,740.0	7,900.0	7,739.7	24.1	26.3	-86.76	1,652.3	-112.3	1,331.7	1,298.8	32.92	40.453	
8,400.0	7,740.0	7,905.1	7,744.7	25.2	26.3	-87.07	1,652.6	-112.2	1,261.8	1,227.6	34.25	36.845	
8,500.0	7,740.0	7,910.3	7,749.9	26.3	26.3	-87.39	1,652.9	-112.2	1,196.3	1,160.6	35.64	33.569	
8,600.0	7,740.0	7,915.7	7,755.2	27.5	26.3	-87.73	1,653.2	-112.2	1,135.7	1,098.6	37.07	30.632	
8,700.0	7,740.0	7,921.2	7,760.8	28.7	26.3	-88.07	1,653.6	-112.2	1,080.9	1,042.4	38.56	28.036	
8,800.0	7,740.0	7,930.0	7,769.5	30.0	26.3	-88.61	1,654.1	-112.1	1,032.9	992.9	40.08	25.775	
8,900.0	7,740.0	7,930.0	7,769.5	31.4	26.3	-88.61	1,654.1	-112.1	992.7	951.1	41.61	23.858	
9,000.0	7,740.0	7,939.4	7,778.9	32.8	26.3	-89.19	1,654.8	-112.1	961.2	918.0	43.18	22.259	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
9,100.0	7,740.0	7,945.9	7,785.5	34.2	26.3	-89.60	1,655.2	-112.1	939.3	894.5	44.77	20.980		
9,200.0	7,740.0	7,952.8	7,792.3	35.6	26.3	-90.02	1,655.7	-112.1	927.6	881.2	46.37	20.003		
9,259.3	7,740.0	7,956.9	7,796.4	36.5	26.3	-90.27	1,656.0	-112.0	925.7	878.4	47.33	19.558 CC, ES		
9,300.0	7,740.0	7,959.8	7,799.3	37.1	26.3	-90.45	1,656.2	-112.0	926.6	878.6	47.99	19.308		
9,400.0	7,740.0	7,967.2	7,806.6	38.6	26.3	-90.91	1,656.7	-112.0	936.3	886.7	49.62	18.870		
9,500.0	7,740.0	7,974.8	7,814.2	40.1	26.3	-91.38	1,657.2	-112.0	956.4	905.1	51.25	18.659		
9,600.0	7,740.0	7,982.7	7,822.1	41.7	26.4	-91.87	1,657.8	-111.9	986.1	933.2	52.90	18.643 SF		
9,700.0	7,740.0	7,991.0	7,830.4	43.2	26.4	-92.37	1,658.4	-111.9	1,024.8	970.2	54.54	18.789		
9,800.0	7,740.0	7,999.5	7,838.9	44.8	26.4	-92.90	1,659.1	-111.8	1,071.3	1,015.1	56.19	19.066		
9,900.0	7,740.0	8,008.4	7,847.8	46.4	26.4	-93.45	1,659.8	-111.8	1,124.8	1,067.0	57.84	19.447		
10,000.0	7,740.0	8,017.7	7,857.1	48.0	26.4	-94.02	1,660.5	-111.7	1,184.3	1,124.8	59.49	19.908		
10,100.0	7,740.0	8,027.5	7,866.7	49.6	26.4	-94.62	1,661.3	-111.7	1,248.9	1,187.7	61.13	20.430		
10,200.0	7,740.0	8,037.6	7,876.8	51.2	26.4	-95.24	1,662.1	-111.6	1,317.8	1,255.1	62.77	20.995		
10,300.0	7,740.0	8,048.2	7,887.4	52.8	26.4	-95.89	1,663.0	-111.6	1,390.5	1,326.1	64.40	21.592		
10,400.0	7,740.0	8,059.3	7,898.4	54.5	26.4	-96.56	1,664.0	-111.5	1,466.3	1,400.3	66.02	22.211		
10,500.0	7,740.0	8,070.9	7,910.0	56.1	26.4	-97.27	1,665.0	-111.4	1,544.8	1,477.2	67.63	22.844		
10,600.0	7,740.0	8,083.0	7,922.1	57.7	26.4	-98.01	1,666.1	-111.3	1,625.7	1,556.4	69.22	23.486		
10,700.0	7,740.0	8,095.8	7,934.8	59.4	26.5	-98.78	1,667.3	-111.2	1,708.4	1,637.6	70.79	24.133		
10,800.0	7,740.0	8,104.0	7,943.0	61.1	26.5	-99.27	1,668.1	-111.2	1,792.9	1,720.5	72.40	24.764		
10,900.0	7,740.0	8,104.0	7,943.0	62.7	26.5	-99.27	1,668.1	-111.2	1,878.9	1,804.8	74.09	25.360		
11,000.0	7,740.0	8,104.0	7,943.0	64.4	26.5	-99.27	1,668.1	-111.2	1,966.2	1,890.4	75.78	25.946		
11,100.0	7,740.0	8,128.3	7,967.2	66.1	26.5	-100.73	1,670.3	-111.0	2,054.5	1,977.3	77.18	26.619		
11,200.0	7,740.0	8,135.1	7,974.0	67.7	26.5	-101.14	1,671.0	-110.9	2,143.9	2,065.1	78.78	27.214		
11,300.0	7,740.0	8,141.8	7,980.6	69.4	26.5	-101.53	1,671.6	-110.9	2,234.1	2,153.7	80.37	27.798		
11,395.3	7,740.0	8,148.0	7,986.8	71.0	26.5	-101.90	1,672.1	-110.9	2,320.9	2,239.0	81.88	28.343		
11,400.0	7,740.0	8,148.3	7,987.1	71.1	26.5	-101.94	1,672.1	-110.9	2,325.1	2,243.2	81.96	28.369		
11,500.0	7,740.0	8,154.7	7,993.4	72.8	26.5	-102.83	1,672.7	-110.8	2,417.2	2,333.6	83.58	28.921		
11,584.7	7,740.0	8,159.9	7,998.7	74.2	26.5	-103.66	1,673.2	-110.8	2,496.1	2,411.2	84.89	29.404		
11,600.0	7,740.0	8,160.9	7,999.6	74.5	26.5	-103.72	1,673.2	-110.8	2,510.4	2,425.3	85.13	29.490		
11,700.0	7,740.0	8,167.0	8,005.7	76.2	26.5	-104.10	1,673.8	-110.7	2,604.4	2,517.7	86.68	30.046		
11,800.0	7,740.0	8,172.9	8,011.6	77.9	26.5	-104.48	1,674.3	-110.7	2,698.7	2,610.5	88.22	30.589		
11,900.0	7,740.0	8,178.8	8,017.5	79.6	26.5	-104.84	1,674.8	-110.7	2,793.5	2,703.7	89.77	31.119		
12,000.0	7,740.0	8,184.5	8,023.1	81.3	26.5	-105.20	1,675.2	-110.7	2,888.5	2,797.2	91.30	31.637		
12,100.0	7,740.0	8,190.1	8,028.7	83.0	26.5	-105.55	1,675.7	-110.6	2,983.9	2,891.1	92.84	32.142		
12,200.0	7,740.0	8,195.5	8,034.2	84.8	26.6	-105.89	1,676.2	-110.6	3,079.6	2,985.2	94.37	32.635		
12,300.0	7,740.0	8,200.9	8,039.5	86.5	26.6	-106.22	1,676.6	-110.6	3,175.5	3,079.6	95.89	33.116		
12,400.0	7,740.0	8,206.1	8,044.7	88.2	26.6	-106.55	1,677.0	-110.6	3,271.6	3,174.2	97.41	33.586		
12,500.0	7,740.0	8,211.3	8,049.8	89.9	26.6	-106.86	1,677.4	-110.6	3,368.0	3,269.1	98.93	34.045		
12,600.0	7,740.0	8,216.3	8,054.8	91.6	26.6	-107.17	1,677.8	-110.5	3,464.5	3,364.1	100.44	34.494		
12,700.0	7,740.0	8,221.2	8,059.8	93.3	26.6	-107.47	1,678.2	-110.5	3,561.3	3,459.3	101.95	34.932		
12,800.0	7,740.0	8,226.0	8,064.6	95.1	26.6	-107.77	1,678.6	-110.5	3,658.2	3,554.7	103.45	35.360		
12,900.0	7,740.0	8,230.8	8,069.3	96.8	26.6	-108.06	1,678.9	-110.5	3,755.2	3,650.3	104.96	35.779		
13,000.0	7,740.0	8,235.4	8,073.9	98.5	26.6	-108.34	1,679.3	-110.5	3,852.4	3,746.0	106.45	36.189		
13,100.0	7,740.0	8,240.0	8,078.5	100.2	26.6	-108.61	1,679.6	-110.5	3,949.7	3,841.8	107.95	36.589		
13,200.0	7,740.0	8,279.0	8,117.4	102.0	26.6	-110.94	1,682.4	-110.4	4,047.4	3,939.2	108.17	37.418		
13,300.0	7,740.0	8,279.0	8,117.4	103.7	26.6	-110.94	1,682.4	-110.4	4,144.9	4,035.1	109.79	37.752		
13,400.0	7,740.0	8,279.0	8,117.4	105.4	26.6	-110.94	1,682.4	-110.4	4,242.5	4,131.1	111.42	38.077		
13,500.0	7,740.0	8,279.0	8,117.4	107.2	26.6	-110.94	1,682.4	-110.4	4,340.2	4,227.2	113.05	38.394		
13,600.0	7,740.0	8,279.0	8,117.4	108.9	26.6	-110.94	1,682.4	-110.4	4,438.1	4,323.4	114.67	38.702		
13,700.0	7,740.0	8,279.0	8,117.4	110.6	26.6	-110.94	1,682.4	-110.4	4,536.0	4,419.7	116.30	39.002		
13,800.0	7,740.0	8,279.0	8,117.4	112.3	26.6	-110.94	1,682.4	-110.4	4,634.0	4,516.1	117.93	39.295		
13,900.0	7,740.0	8,279.0	8,117.4	114.1	26.6	-110.94	1,682.4	-110.4	4,732.1	4,612.5	119.56	39.580		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU					Offset Site Error:		0.0 ft	
Survey Program: 132-Geolink MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
14,000.0	7,740.0	8,279.0	8,117.4	115.8	26.6	-110.94	1,682.4	-110.4	4,830.3	4,709.1	121.18	39.859						
14,100.0	7,740.0	8,279.0	8,117.4	117.5	26.6	-110.94	1,682.4	-110.4	4,928.5	4,805.7	122.81	40.130						
14,200.0	7,740.0	8,279.0	8,117.4	119.3	26.6	-110.94	1,682.4	-110.4	5,026.8	4,902.4	124.44	40.394						
14,300.0	7,740.0	8,279.0	8,117.4	121.0	26.6	-110.94	1,682.4	-110.4	5,125.2	4,999.1	126.07	40.653						
14,400.0	7,740.0	8,279.0	8,117.4	122.8	26.6	-110.94	1,682.4	-110.4	5,223.6	5,095.9	127.70	40.905						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	88.0	88.0	0.0	0.2	-45.43	131.5	-133.5	187.4					
100.0	100.0	188.0	188.0	0.2	0.3	-45.43	131.5	-133.5	187.4	186.9	0.48	390.265		
200.0	200.0	288.0	288.0	0.3	0.5	-45.43	131.5	-133.5	187.4	186.6	0.83	225.982		
300.0	300.0	388.0	388.0	0.5	0.7	-45.43	131.5	-133.5	187.4	186.2	1.18	159.036		
400.0	400.0	488.0	488.0	0.7	0.9	-45.43	131.5	-133.5	187.4	185.9	1.53	122.690 CC, ES		
500.0	500.0	588.0	588.0	0.9	1.0	-139.62	131.5	-133.5	188.1	186.2	1.88	100.214		
600.0	600.0	688.0	688.0	1.0	1.2	-140.11	131.5	-133.5	190.1	187.8	2.23	85.356		
700.0	699.9	787.9	787.9	1.2	1.4	-140.92	131.5	-133.5	193.4	190.8	2.58	75.010		
800.0	799.7	887.7	887.7	1.4	1.5	-142.00	131.5	-133.5	198.2	195.3	2.93	67.566		
900.0	899.4	987.4	987.4	1.6	1.7	-143.32	131.5	-133.5	204.4	201.2	3.29	62.116		
1,000.0	998.9	1,086.9	1,086.9	1.8	1.9	-144.82	131.5	-133.5	212.2	208.6	3.65	58.106		
1,076.7	1,075.1	1,163.1	1,163.1	2.0	2.0	-146.06	131.5	-133.5	219.3	215.3	3.93	55.785		
1,100.0	1,098.3	1,186.3	1,186.3	2.1	2.1	-146.45	131.5	-133.5	221.5	217.5	4.02	55.173		
1,200.0	1,197.6	1,285.6	1,285.6	2.3	2.2	-148.06	131.5	-133.5	231.5	227.1	4.38	52.853		
1,300.0	1,296.9	1,384.9	1,384.9	2.6	2.4	-149.54	131.5	-133.5	241.6	236.8	4.74	50.939		
1,400.0	1,396.2	1,484.2	1,484.2	2.8	2.6	-150.90	131.5	-133.5	251.8	246.7	5.10	49.341		
1,500.0	1,495.5	1,583.5	1,583.5	3.1	2.8	-152.15	131.5	-133.5	262.2	256.7	5.46	47.992		
1,600.0	1,594.8	1,682.8	1,682.8	3.3	2.9	-153.30	131.5	-133.5	272.7	266.9	5.82	46.842		
1,700.0	1,694.1	1,782.1	1,782.1	3.6	3.1	-154.37	131.5	-133.5	283.3	277.1	6.18	45.852		
1,800.0	1,793.4	1,881.4	1,881.4	3.9	3.3	-155.36	131.5	-133.5	294.0	287.4	6.53	44.993		
1,900.0	1,892.7	1,980.7	1,980.7	4.1	3.5	-156.29	131.5	-133.5	304.7	297.8	6.89	44.242		
2,000.0	1,992.0	2,080.0	2,080.0	4.4	3.6	-157.15	131.5	-133.5	315.5	308.3	7.24	43.581		
2,100.0	2,091.3	2,179.3	2,179.3	4.7	3.8	-157.95	131.5	-133.5	326.5	318.9	7.59	42.995		
2,200.0	2,190.6	2,278.6	2,278.6	4.9	4.0	-158.70	131.5	-133.5	337.4	329.5	7.94	42.473		
2,300.0	2,289.9	2,377.9	2,377.9	5.2	4.2	-159.40	131.5	-133.5	348.4	340.1	8.29	42.005		
2,400.0	2,389.2	2,477.2	2,477.2	5.5	4.3	-160.06	131.5	-133.5	359.5	350.8	8.64	41.584		
2,500.0	2,488.5	2,576.5	2,576.5	5.7	4.5	-160.68	131.5	-133.5	370.6	361.6	8.99	41.203		
2,600.0	2,587.8	2,675.8	2,675.8	6.0	4.7	-161.27	131.5	-133.5	381.7	372.4	9.34	40.858		
2,700.0	2,687.1	2,775.1	2,775.1	6.3	4.8	-161.82	131.5	-133.5	392.9	383.2	9.69	40.542		
2,800.0	2,786.4	2,874.4	2,874.4	6.5	5.0	-162.34	131.5	-133.5	404.1	394.1	10.04	40.253		
2,900.0	2,885.7	2,973.7	2,973.7	6.8	5.2	-162.83	131.5	-133.5	415.4	405.0	10.39	39.988		
3,000.0	2,985.0	3,073.0	3,073.0	7.1	5.4	-163.30	131.5	-133.5	426.7	415.9	10.74	39.744		
3,100.0	3,084.3	3,172.3	3,172.3	7.3	5.5	-163.74	131.5	-133.5	438.0	426.9	11.08	39.519		
3,200.0	3,183.6	3,271.6	3,271.6	7.6	5.7	-164.16	131.5	-133.5	449.3	437.9	11.43	39.310		
3,300.0	3,282.9	3,370.9	3,370.9	7.9	5.9	-164.56	131.5	-133.5	460.7	448.9	11.78	39.116		
3,400.0	3,382.2	3,470.2	3,470.2	8.1	6.1	-164.94	131.5	-133.5	472.0	459.9	12.12	38.935		
3,500.0	3,481.5	3,569.5	3,569.5	8.4	6.2	-165.30	131.5	-133.5	483.4	471.0	12.47	38.766		
3,600.0	3,580.9	3,668.9	3,668.9	8.7	6.4	-165.65	131.5	-133.5	494.8	482.0	12.82	38.608		
3,700.0	3,680.2	3,768.2	3,768.2	9.0	6.6	-165.98	131.5	-133.5	506.3	493.1	13.16	38.460		
3,800.0	3,779.5	3,867.5	3,867.5	9.2	6.8	-166.30	131.5	-133.5	517.7	504.2	13.51	38.321		
3,900.0	3,878.8	3,966.8	3,966.8	9.5	6.9	-166.60	131.5	-133.5	529.2	515.3	13.86	38.191		
4,000.0	3,978.1	4,066.1	4,066.1	9.8	7.1	-166.89	131.5	-133.5	540.6	526.4	14.20	38.068		
4,100.0	4,077.4	4,165.4	4,165.4	10.0	7.3	-167.17	131.5	-133.5	552.1	537.6	14.55	37.951		
4,200.0	4,176.7	4,264.7	4,264.7	10.3	7.4	-167.43	131.5	-133.5	563.6	548.7	14.89	37.841		
4,300.0	4,276.0	4,364.0	4,364.0	10.6	7.6	-167.69	131.5	-133.5	575.1	559.9	15.24	37.737		
4,400.0	4,375.3	4,463.3	4,463.3	10.8	7.8	-167.93	131.5	-133.5	586.6	571.1	15.59	37.639		
4,500.0	4,474.6	4,562.6	4,562.6	11.1	8.0	-168.17	131.5	-133.5	598.2	582.2	15.93	37.545		
4,600.0	4,573.9	4,661.9	4,661.9	11.4	8.1	-168.40	131.5	-133.5	609.7	593.4	16.28	37.456		
4,700.0	4,673.2	4,761.2	4,761.2	11.7	8.3	-168.61	131.5	-133.5	621.3	604.6	16.62	37.371		
4,800.0	4,772.5	4,860.5	4,860.5	11.9	8.5	-168.82	131.5	-133.5	632.8	615.9	16.97	37.290		
4,900.0	4,871.8	4,959.8	4,959.8	12.2	8.7	-169.03	131.5	-133.5	644.4	627.1	17.32	37.213		
5,000.0	4,971.1	5,059.1	5,059.1	12.5	8.8	-169.22	131.5	-133.5	656.0	638.3	17.66	37.139		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
5,100.0	5,070.4	5,158.4	5,158.4	12.7	9.0	-169.41	131.5	-133.5	667.5	649.5	18.01	37.069	
5,200.0	5,169.7	5,257.7	5,257.7	13.0	9.2	-169.59	131.5	-133.5	679.1	660.8	18.35	37.002	
5,300.0	5,269.0	5,357.0	5,357.0	13.3	9.3	-169.77	131.5	-133.5	690.7	672.0	18.70	36.937	
5,400.0	5,368.3	5,456.3	5,456.3	13.5	9.5	-169.94	131.5	-133.5	702.3	683.3	19.05	36.875	
5,500.0	5,467.6	5,555.6	5,555.6	13.8	9.7	-170.11	131.5	-133.5	713.9	694.5	19.39	36.816	
5,600.0	5,566.9	5,654.9	5,654.9	14.1	9.9	-170.27	131.5	-133.5	725.6	705.8	19.74	36.759	
5,700.0	5,666.2	5,754.2	5,754.2	14.4	10.0	-170.42	131.5	-133.5	737.2	717.1	20.08	36.704	
5,800.0	5,765.5	5,853.5	5,853.5	14.6	10.2	-170.57	131.5	-133.5	748.8	728.4	20.43	36.651	
5,900.0	5,864.8	5,952.8	5,952.8	14.9	10.4	-170.72	131.5	-133.5	760.4	739.6	20.78	36.601	
6,000.0	5,964.1	6,052.1	6,052.1	15.2	10.6	-170.86	131.5	-133.5	772.1	750.9	21.12	36.552	
6,100.0	6,063.4	6,151.4	6,151.4	15.4	10.7	-170.99	131.5	-133.5	783.7	762.2	21.47	36.505	
6,200.0	6,162.7	6,250.7	6,250.7	15.7	10.9	-171.13	131.5	-133.5	795.3	773.5	21.81	36.459	
6,300.0	6,262.0	6,350.0	6,350.0	16.0	11.1	-171.26	131.5	-133.5	807.0	784.8	22.16	36.415	
6,400.0	6,361.3	6,449.3	6,449.3	16.2	11.3	-171.38	131.5	-133.5	818.6	796.1	22.51	36.373	
6,500.0	6,460.7	6,548.7	6,548.7	16.5	11.4	-171.50	131.5	-133.5	830.3	807.4	22.85	36.332	
6,600.0	6,560.0	6,648.0	6,648.0	16.8	11.6	-171.62	131.5	-133.5	841.9	818.7	23.20	36.293	
6,700.0	6,659.3	6,747.3	6,747.3	17.1	11.8	-171.74	131.5	-133.5	853.6	830.1	23.54	36.254	
6,800.0	6,758.6	6,846.6	6,846.6	17.3	11.9	-171.85	131.5	-133.5	865.3	841.4	23.89	36.217	
6,900.0	6,857.9	6,945.9	6,945.9	17.6	12.1	-171.96	131.5	-133.5	876.9	852.7	24.24	36.181	
7,000.0	6,957.2	7,045.2	7,045.2	17.9	12.3	-172.06	131.5	-133.5	888.6	864.0	24.58	36.146	
7,100.0	7,056.5	7,144.5	7,144.5	18.1	12.5	-172.17	131.5	-133.5	900.3	875.3	24.93	36.113	
7,200.0	7,155.8	7,243.8	7,243.8	18.4	12.6	-172.27	131.5	-133.5	911.9	886.7	25.28	36.080	
7,210.0	7,165.7	7,253.7	7,253.7	18.4	12.7	-172.28	131.5	-133.5	913.1	887.8	25.31	36.077	
7,250.0	7,205.4	7,293.4	7,293.4	18.5	12.7	-140.42	131.5	-133.5	917.5	892.0	25.48	36.007	
7,300.0	7,254.8	7,342.8	7,342.8	18.7	12.8	-116.21	131.5	-133.5	922.1	896.4	25.69	35.899	
7,350.0	7,303.5	7,391.5	7,391.5	18.8	12.9	-104.62	131.5	-133.5	925.9	900.0	25.88	35.774	
7,400.0	7,351.2	7,439.2	7,439.2	18.9	13.0	-98.73	131.5	-133.5	928.9	902.9	26.07	35.634	
7,450.0	7,397.6	7,485.6	7,485.6	19.0	13.1	-95.62	131.5	-133.5	931.4	905.1	26.25	35.480	
7,500.0	7,442.2	7,530.2	7,530.2	19.2	13.1	-94.04	131.5	-133.5	933.5	907.0	26.43	35.314	
7,550.0	7,484.8	7,572.8	7,572.8	19.3	13.2	-93.38	131.5	-133.5	935.4	908.8	26.62	35.138	
7,600.0	7,525.0	7,613.0	7,613.0	19.5	13.3	-93.29	131.5	-133.5	937.5	910.7	26.82	34.959	
7,650.0	7,562.4	7,650.4	7,650.4	19.6	13.4	-93.53	131.5	-133.5	940.2	913.1	27.03	34.780	
7,700.0	7,596.9	7,684.9	7,684.9	19.8	13.4	-93.93	131.5	-133.5	943.6	916.3	27.26	34.607	
7,750.0	7,628.2	7,716.2	7,716.2	20.0	13.5	-94.36	131.5	-133.5	948.1	920.5	27.53	34.442	
7,800.0	7,656.0	7,744.0	7,744.0	20.3	13.5	-94.69	131.5	-133.5	954.0	926.1	27.82	34.285	
7,850.0	7,680.1	7,768.1	7,768.1	20.5	13.6	-94.83	131.5	-133.5	961.5	933.3	28.17	34.135	
7,900.0	7,700.3	7,788.3	7,788.3	20.8	13.6	-94.71	131.5	-133.5	970.8	942.2	28.56	33.993	
7,950.0	7,716.5	7,804.5	7,804.5	21.1	13.6	-94.26	131.5	-133.5	982.0	953.0	29.00	33.862	
8,000.0	7,728.5	7,816.5	7,816.5	21.5	13.6	-93.44	131.5	-133.5	995.2	965.8	29.48	33.758	
8,050.0	7,736.3	7,824.3	7,824.3	21.9	13.7	-92.22	131.5	-133.5	1,010.4	980.4	29.98	33.702 SF	
8,100.0	7,739.8	7,827.8	7,827.8	22.2	13.7	-90.58	131.5	-133.5	1,027.4	997.0	30.47	33.724	
8,115.3	7,740.0	7,828.0	7,828.0	22.4	13.7	-90.00	131.5	-133.5	1,033.0	1,002.4	30.61	33.752	
8,200.0	7,740.0	7,828.0	7,828.0	23.1	13.7	-90.00	131.5	-133.5	1,067.1	1,035.5	31.58	33.786	
8,300.0	7,740.0	7,828.0	7,828.0	24.1	13.7	-90.00	131.5	-133.5	1,114.3	1,081.5	32.82	33.949	
8,400.0	7,740.0	7,828.0	7,828.0	25.2	13.7	-90.00	131.5	-133.5	1,168.2	1,134.0	34.14	34.220	
8,500.0	7,740.0	7,828.0	7,828.0	26.3	13.7	-90.00	131.5	-133.5	1,227.9	1,192.3	35.51	34.574	
8,600.0	7,740.0	7,828.0	7,828.0	27.5	13.7	-90.00	131.5	-133.5	1,292.5	1,255.6	36.94	34.989	
8,700.0	7,740.0	7,828.0	7,828.0	28.7	13.7	-90.00	131.5	-133.5	1,361.5	1,323.1	38.41	35.445	
8,800.0	7,740.0	7,828.0	7,828.0	30.0	13.7	-90.00	131.5	-133.5	1,434.1	1,394.2	39.91	35.928	
8,900.0	7,740.0	7,828.0	7,828.0	31.4	13.7	-90.00	131.5	-133.5	1,509.8	1,468.4	41.45	36.427	
9,000.0	7,740.0	7,828.0	7,828.0	32.8	13.7	-90.00	131.5	-133.5	1,588.3	1,545.2	43.01	36.930	
9,100.0	7,740.0	7,828.0	7,828.0	34.2	13.7	-90.00	131.5	-133.5	1,669.0	1,624.4	44.59	37.433	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,200.0	7,740.0	7,828.0	7,828.0	35.6	13.7	-90.00	131.5	-133.5	1,751.7	1,705.5	46.18	37.930		
9,300.0	7,740.0	7,828.0	7,828.0	37.1	13.7	-90.00	131.5	-133.5	1,836.2	1,788.4	47.80	38.417		
9,400.0	7,740.0	7,828.0	7,828.0	38.6	13.7	-90.00	131.5	-133.5	1,922.1	1,872.7	49.42	38.892		
9,500.0	7,740.0	7,828.0	7,828.0	40.1	13.7	-90.00	131.5	-133.5	2,009.3	1,958.3	51.06	39.353		
9,600.0	7,740.0	7,828.0	7,828.0	41.7	13.7	-90.00	131.5	-133.5	2,097.7	2,045.0	52.71	39.800		
9,700.0	7,740.0	7,828.0	7,828.0	43.2	13.7	-90.00	131.5	-133.5	2,187.1	2,132.7	54.36	40.231		
9,800.0	7,740.0	7,828.0	7,828.0	44.8	13.7	-90.00	131.5	-133.5	2,277.4	2,221.3	56.03	40.647		
9,900.0	7,740.0	7,828.0	7,828.0	46.4	13.7	-90.00	131.5	-133.5	2,368.4	2,310.7	57.70	41.048		
10,000.0	7,740.0	7,828.0	7,828.0	48.0	13.7	-90.00	131.5	-133.5	2,460.2	2,400.8	59.38	41.433		
10,100.0	7,740.0	7,828.0	7,828.0	49.6	13.7	-90.00	131.5	-133.5	2,552.5	2,491.5	61.06	41.804		
10,200.0	7,740.0	7,828.0	7,828.0	51.2	13.7	-90.00	131.5	-133.5	2,645.4	2,582.7	62.75	42.160		
10,300.0	7,740.0	7,828.0	7,828.0	52.8	13.7	-90.00	131.5	-133.5	2,738.9	2,674.4	64.44	42.502		
10,400.0	7,740.0	7,828.0	7,828.0	54.5	13.7	-90.00	131.5	-133.5	2,832.7	2,766.6	66.14	42.831		
10,500.0	7,740.0	7,828.0	7,828.0	56.1	13.7	-90.00	131.5	-133.5	2,927.0	2,859.2	67.84	43.147		
10,600.0	7,740.0	7,828.0	7,828.0	57.7	13.7	-90.00	131.5	-133.5	3,021.6	2,952.1	69.54	43.451		
10,700.0	7,740.0	7,828.0	7,828.0	59.4	13.7	-90.00	131.5	-133.5	3,116.6	3,045.4	71.25	43.743		
10,800.0	7,740.0	7,828.0	7,828.0	61.1	13.7	-90.00	131.5	-133.5	3,211.9	3,138.9	72.96	44.024		
10,900.0	7,740.0	7,828.0	7,828.0	62.7	13.7	-90.00	131.5	-133.5	3,307.5	3,232.8	74.67	44.295		
11,000.0	7,740.0	7,828.0	7,828.0	64.4	13.7	-90.00	131.5	-133.5	3,403.3	3,326.9	76.38	44.555		
11,100.0	7,740.0	7,828.0	7,828.0	66.1	13.7	-90.00	131.5	-133.5	3,499.3	3,421.2	78.10	44.806		
11,200.0	7,740.0	7,828.0	7,828.0	67.7	13.7	-90.00	131.5	-133.5	3,595.6	3,515.8	79.82	45.047		
11,300.0	7,740.0	7,828.0	7,828.0	69.4	13.7	-90.00	131.5	-133.5	3,692.0	3,610.5	81.54	45.280		
11,395.3	7,740.0	7,828.0	7,828.0	71.0	13.7	-90.00	131.5	-133.5	3,784.2	3,701.0	83.18	45.494		
11,400.0	7,740.0	7,828.0	7,828.0	71.1	13.7	-90.00	131.5	-133.5	3,788.7	3,705.4	83.27	45.498		
11,500.0	7,740.0	7,828.0	7,828.0	72.8	13.7	-90.00	131.5	-133.5	3,885.7	3,800.5	85.23	45.592		
11,584.7	7,740.0	7,828.0	7,828.0	74.2	13.7	-90.00	131.5	-133.5	3,968.3	3,881.5	86.87	45.680		
11,600.0	7,740.0	7,828.0	7,828.0	74.5	13.7	-90.00	131.5	-133.5	3,983.3	3,896.2	87.14	45.713		
11,700.0	7,740.0	7,828.0	7,828.0	76.2	13.7	-90.00	131.5	-133.5	4,081.1	3,992.3	88.86	45.925		
11,800.0	7,740.0	7,828.0	7,828.0	77.9	13.7	-90.00	131.5	-133.5	4,179.1	4,088.5	90.59	46.130		
11,900.0	7,740.0	7,828.0	7,828.0	79.6	13.7	-90.00	131.5	-133.5	4,277.1	4,184.8	92.32	46.328		
12,000.0	7,740.0	7,828.0	7,828.0	81.3	13.7	-90.00	131.5	-133.5	4,375.2	4,281.2	94.05	46.518		
12,100.0	7,740.0	7,828.0	7,828.0	83.0	13.7	-90.00	131.5	-133.5	4,473.4	4,377.6	95.78	46.703		
12,200.0	7,740.0	7,828.0	7,828.0	84.8	13.7	-90.00	131.5	-133.5	4,571.7	4,474.2	97.52	46.881		
12,300.0	7,740.0	7,828.0	7,828.0	86.5	13.7	-90.00	131.5	-133.5	4,670.0	4,570.8	99.25	47.053		
12,400.0	7,740.0	7,828.0	7,828.0	88.2	13.7	-90.00	131.5	-133.5	4,768.5	4,667.5	100.99	47.219		
12,500.0	7,740.0	7,828.0	7,828.0	89.9	13.7	-90.00	131.5	-133.5	4,866.9	4,764.2	102.72	47.381		
12,600.0	7,740.0	7,828.0	7,828.0	91.6	13.7	-90.00	131.5	-133.5	4,965.5	4,861.0	104.46	47.537		
12,700.0	7,740.0	7,828.0	7,828.0	93.3	13.7	-90.00	131.5	-133.5	5,064.1	4,957.9	106.19	47.688		
12,800.0	7,740.0	7,828.0	7,828.0	95.1	13.7	-90.00	131.5	-133.5	5,162.7	5,054.8	107.93	47.834		
12,900.0	7,740.0	7,828.0	7,828.0	96.8	13.7	-90.00	131.5	-133.5	5,261.4	5,151.8	109.67	47.976		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY										Offset Site Error:		0.0 ft	
Survey Program: 100-MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	44.6	44.6	0.0	0.1	36.96	1,576.6	1,186.5	1,973.1				
100.0	100.0	142.8	142.8	0.2	0.3	36.99	1,576.3	1,187.5	1,973.5	1,973.1	0.40	4,919.273	
200.0	200.0	248.0	248.0	0.3	0.4	37.04	1,575.3	1,189.0	1,973.7	1,972.9	0.76	2,599.487	
300.0	300.0	349.7	349.6	0.5	0.6	37.07	1,574.7	1,189.8	1,973.7	1,972.6	1.11	1,776.123	
400.0	400.0	454.4	454.4	0.7	0.8	37.09	1,574.4	1,190.1	1,973.6	1,972.1	1.47	1,343.907	
500.0	500.0	556.5	556.4	0.9	1.0	-56.96	1,574.1	1,189.8	1,972.7	1,970.9	1.82	1,081.369	
600.0	600.0	666.2	666.1	1.0	1.2	-57.06	1,573.8	1,189.2	1,970.8	1,968.6	2.19	899.177	
700.0	699.9	777.7	777.7	1.2	1.4	-57.21	1,572.9	1,188.2	1,967.2	1,964.6	2.57	766.271	
800.0	799.7	881.6	881.6	1.4	1.5	-57.40	1,571.3	1,187.5	1,962.3	1,959.4	2.94	668.164	
900.0	899.4	984.2	984.2	1.6	1.7	-57.63	1,569.5	1,186.9	1,956.3	1,953.0	3.31	590.451	
1,000.0	998.9	1,085.6	1,085.5	1.8	1.9	-57.93	1,567.9	1,185.9	1,949.3	1,945.6	3.70	526.908	
1,076.7	1,075.1	1,166.7	1,166.6	2.0	2.0	-58.21	1,566.7	1,184.7	1,943.2	1,939.2	4.01	484.560	
1,100.0	1,098.3	1,191.7	1,191.6	2.1	2.1	-58.29	1,566.4	1,184.2	1,941.2	1,937.1	4.11	472.752	
1,200.0	1,197.6	1,290.0	1,289.9	2.3	2.3	-58.61	1,565.2	1,182.1	1,932.7	1,928.2	4.51	428.890	
1,300.0	1,296.9	1,390.0	1,389.8	2.6	2.4	-58.96	1,564.2	1,179.6	1,924.3	1,919.4	4.91	391.589	
1,400.0	1,396.2	1,484.8	1,484.6	2.8	2.6	-59.30	1,563.6	1,176.9	1,916.1	1,910.8	5.32	360.348	
1,500.0	1,495.5	1,579.5	1,579.2	3.1	2.8	-59.65	1,563.2	1,174.2	1,908.1	1,902.4	5.72	333.389	
1,600.0	1,594.8	1,681.9	1,681.6	3.3	3.0	-60.02	1,562.7	1,171.5	1,900.3	1,894.2	6.15	309.171	
1,700.0	1,694.1	1,774.2	1,773.8	3.6	3.1	-60.37	1,562.5	1,168.8	1,892.5	1,886.0	6.55	288.752	
1,800.0	1,793.4	1,871.6	1,871.2	3.9	3.3	-60.75	1,562.6	1,166.0	1,885.2	1,878.2	6.97	270.342	
1,900.0	1,892.7	1,962.7	1,962.3	4.1	3.5	-61.08	1,562.4	1,163.9	1,878.1	1,870.7	7.38	254.385	
2,000.0	1,992.0	2,052.3	2,051.9	4.4	3.6	-61.41	1,562.7	1,162.2	1,871.5	1,863.7	7.79	240.223	
2,100.0	2,091.3	2,149.4	2,149.0	4.7	3.8	-61.77	1,563.1	1,160.7	1,865.5	1,857.2	8.21	227.117	
2,200.0	2,190.6	2,249.9	2,249.5	4.9	4.0	-62.12	1,563.2	1,159.5	1,859.3	1,850.7	8.64	215.123	
2,300.0	2,289.9	2,349.7	2,349.3	5.2	4.1	-62.47	1,563.1	1,158.7	1,853.3	1,844.2	9.07	204.283	
2,400.0	2,389.2	2,444.1	2,443.6	5.5	4.3	-62.80	1,563.1	1,157.7	1,847.3	1,837.8	9.49	194.589	
2,500.0	2,488.5	2,530.8	2,530.4	5.7	4.5	-63.12	1,563.8	1,156.6	1,842.0	1,832.1	9.90	186.001	
2,600.0	2,587.8	2,621.5	2,621.0	6.0	4.6	-63.48	1,565.4	1,155.3	1,837.4	1,827.1	10.32	178.003	
2,700.0	2,687.1	2,728.6	2,728.1	6.3	4.8	-63.92	1,567.4	1,153.4	1,832.8	1,822.0	10.77	170.119	
2,800.0	2,786.4	2,833.9	2,833.3	6.5	5.0	-64.35	1,569.0	1,151.1	1,827.8	1,816.6	11.22	162.868	
2,900.0	2,885.7	2,930.1	2,929.5	6.8	5.2	-64.74	1,570.1	1,149.4	1,822.9	1,811.3	11.65	156.411	
3,000.0	2,985.0	3,022.9	3,022.3	7.1	5.3	-65.09	1,571.2	1,148.3	1,818.4	1,806.3	12.08	150.521	
3,100.0	3,084.3	3,118.6	3,118.0	7.3	5.5	-65.46	1,572.5	1,147.6	1,814.2	1,801.7	12.51	144.997	
3,200.0	3,183.6	3,229.8	3,229.1	7.6	5.7	-65.88	1,573.6	1,146.8	1,809.9	1,797.0	12.97	139.524	
3,300.0	3,282.9	3,345.3	3,344.7	7.9	5.9	-66.30	1,573.7	1,145.8	1,804.7	1,791.3	13.44	134.272	
3,400.0	3,382.2	3,455.2	3,454.5	8.1	6.1	-66.71	1,573.2	1,144.4	1,799.1	1,785.2	13.90	129.431	
3,500.0	3,481.5	3,564.2	3,563.6	8.4	6.3	-67.11	1,572.0	1,143.0	1,792.8	1,778.4	14.36	124.864	
3,600.0	3,580.9	3,681.2	3,680.5	8.7	6.5	-67.53	1,569.9	1,141.4	1,786.0	1,771.2	14.83	120.431	
3,700.0	3,680.2	3,771.4	3,770.7	9.0	6.6	-67.84	1,567.5	1,140.5	1,778.7	1,763.5	15.25	116.624	
3,800.0	3,779.5	3,870.6	3,869.9	9.2	6.8	-68.17	1,565.3	1,140.1	1,772.1	1,756.4	15.69	112.936	
3,900.0	3,878.8	3,981.6	3,980.9	9.5	7.0	-68.56	1,562.6	1,138.9	1,765.1	1,748.9	16.15	109.262	
4,000.0	3,978.1	4,082.4	4,081.6	9.8	7.2	-68.93	1,559.9	1,137.5	1,757.7	1,741.1	16.60	105.891	
4,100.0	4,077.4	4,185.1	4,184.2	10.0	7.4	-69.28	1,556.7	1,136.5	1,750.2	1,733.2	17.05	102.670	
4,200.0	4,176.7	4,278.9	4,278.0	10.3	7.5	-69.63	1,554.0	1,135.2	1,742.9	1,725.4	17.48	99.700	
4,300.0	4,276.0	4,364.3	4,363.4	10.6	7.7	-69.95	1,552.1	1,133.9	1,736.1	1,718.2	17.90	96.986	
4,400.0	4,375.3	4,450.0	4,449.1	10.8	7.8	-70.28	1,550.9	1,132.8	1,730.3	1,711.9	18.32	94.438	
4,500.0	4,474.6	4,540.9	4,540.0	11.1	8.0	-70.63	1,550.2	1,131.9	1,725.2	1,706.4	18.75	91.994	
4,600.0	4,573.9	4,640.9	4,639.9	11.4	8.2	-71.03	1,549.6	1,130.9	1,720.4	1,701.2	19.20	89.593	
4,700.0	4,673.2	4,742.1	4,741.1	11.7	8.4	-71.43	1,548.9	1,129.8	1,715.4	1,695.8	19.65	87.280	
4,800.0	4,772.5	4,838.8	4,837.8	11.9	8.5	-71.81	1,548.2	1,128.8	1,710.7	1,690.6	20.10	85.115	
4,900.0	4,871.8	4,938.2	4,937.2	12.2	8.7	-72.22	1,547.7	1,127.6	1,706.0	1,685.5	20.55	83.023	
5,000.0	4,971.1	5,031.8	5,030.7	12.5	8.9	-72.61	1,547.4	1,126.2	1,701.6	1,680.6	20.99	81.068	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	5,070.4	5,122.3	5,121.2	12.7	9.0	-72.99	1,547.5	1,125.0	1,697.8	1,676.4	21.42	79.243	
5,200.0	5,169.7	5,222.4	5,221.3	13.0	9.2	-73.41	1,547.7	1,124.1	1,694.2	1,672.3	21.88	77.438	
5,300.0	5,269.0	5,316.7	5,315.7	13.3	9.4	-73.80	1,548.1	1,123.0	1,690.8	1,668.5	22.32	75.746	
5,400.0	5,368.3	5,403.2	5,402.1	13.5	9.5	-74.18	1,549.0	1,122.0	1,688.1	1,665.3	22.75	74.196	
5,500.0	5,467.6	5,509.5	5,508.4	13.8	9.7	-74.64	1,550.1	1,120.7	1,685.5	1,662.3	23.22	72.592	
5,600.0	5,566.9	5,602.3	5,601.3	14.1	9.9	-75.06	1,551.3	1,119.4	1,683.1	1,659.5	23.66	71.131	
5,700.0	5,666.2	5,708.7	5,707.6	14.4	10.0	-75.53	1,552.5	1,117.8	1,680.7	1,656.6	24.13	69.649	
5,800.0	5,765.5	5,800.0	5,798.9	14.6	10.2	-75.94	1,553.6	1,116.6	1,678.5	1,654.0	24.57	68.310	
5,900.0	5,864.8	5,898.3	5,897.2	14.9	10.4	-76.38	1,555.0	1,115.2	1,676.7	1,651.6	25.03	66.995	
6,000.0	5,964.1	5,988.8	5,987.6	15.2	10.5	-76.79	1,556.6	1,114.0	1,675.2	1,649.7	25.47	65.780	
6,100.0	6,063.4	6,087.9	6,086.8	15.4	10.7	-77.23	1,558.5	1,113.0	1,674.1	1,648.2	25.92	64.583	
6,200.0	6,162.7	6,186.8	6,185.6	15.7	10.9	-77.66	1,560.3	1,112.5	1,673.1	1,646.7	26.38	63.433	
6,300.0	6,262.0	6,290.7	6,289.5	16.0	11.1	-78.12	1,562.1	1,111.6	1,672.0	1,645.2	26.84	62.296	
6,400.0	6,361.3	6,384.5	6,383.3	16.2	11.2	-78.53	1,563.7	1,110.7	1,671.1	1,643.8	27.28	61.245	
6,500.0	6,460.7	6,488.5	6,487.2	16.5	11.4	-78.99	1,565.7	1,109.7	1,670.3	1,642.5	27.75	60.190	
6,600.0	6,560.0	6,587.3	6,586.0	16.8	11.6	-79.44	1,567.4	1,108.4	1,669.4	1,641.2	28.21	59.187	
6,690.6	6,649.9	6,665.4	6,664.1	17.0	11.7	-79.80	1,569.0	1,107.5	1,669.0	1,640.4	28.60	58.363	
6,700.0	6,659.3	6,673.3	6,672.0	17.1	11.7	-79.83	1,569.1	1,107.4	1,669.0	1,640.4	28.64	58.281	
6,800.0	6,758.6	6,760.3	6,759.0	17.3	11.9	-80.23	1,571.7	1,106.5	1,669.6	1,640.5	29.07	57.432	
6,900.0	6,857.9	6,851.4	6,850.0	17.6	12.0	-80.63	1,574.7	1,106.2	1,670.8	1,641.3	29.51	56.620	
7,000.0	6,957.2	6,943.5	6,942.1	17.9	12.2	-81.01	1,578.0	1,106.6	1,672.5	1,642.6	29.95	55.849	
7,100.0	7,056.5	7,032.1	7,030.6	18.1	12.3	-81.35	1,581.5	1,107.7	1,674.9	1,644.5	30.38	55.135	
7,200.0	7,155.8	7,115.9	7,114.2	18.4	12.5	-81.66	1,585.4	1,109.2	1,678.0	1,647.2	30.80	54.485	
7,210.0	7,165.7	7,123.7	7,122.0	18.4	12.5	-81.69	1,585.8	1,109.4	1,678.4	1,647.6	30.84	54.424	
7,250.0	7,205.4	7,154.9	7,153.2	18.5	12.6	-50.25	1,587.5	1,110.0	1,678.7	1,647.8	30.93	54.276	
7,300.0	7,254.8	7,200.0	7,198.2	18.7	12.6	-26.15	1,590.2	1,111.1	1,675.5	1,644.7	30.88	54.261	
7,350.0	7,303.5	7,235.1	7,233.2	18.8	12.7	-14.21	1,592.5	1,112.1	1,668.4	1,637.8	30.62	54.484	
7,400.0	7,351.2	7,275.9	7,273.9	18.9	12.8	-7.56	1,595.3	1,113.5	1,657.3	1,627.2	30.19	54.898	
7,450.0	7,397.6	7,326.4	7,324.3	19.0	12.9	-3.29	1,598.9	1,115.5	1,642.3	1,612.8	29.59	55.498	
7,500.0	7,442.2	7,390.1	7,387.8	19.2	13.0	-0.16	1,602.8	1,118.0	1,623.0	1,594.1	28.85	56.265	
7,550.0	7,484.8	7,449.3	7,446.8	19.3	13.1	2.43	1,605.9	1,120.4	1,599.3	1,571.4	27.93	57.265	
7,600.0	7,525.0	7,504.5	7,501.9	19.5	13.2	4.80	1,608.2	1,122.8	1,571.7	1,544.8	26.86	58.506	
7,650.0	7,562.4	7,555.2	7,552.5	19.6	13.2	7.19	1,610.0	1,124.9	1,540.3	1,514.7	25.68	59.989	
7,700.0	7,596.9	7,601.1	7,598.4	19.8	13.3	9.78	1,611.2	1,126.6	1,505.6	1,481.2	24.41	61.674	
7,750.0	7,628.2	7,633.6	7,630.9	20.0	13.4	12.68	1,612.0	1,127.8	1,467.9	1,444.8	23.13	63.472	
7,800.0	7,656.0	7,662.7	7,659.9	20.3	13.4	16.20	1,612.8	1,128.7	1,427.7	1,405.8	21.95	65.046	
7,850.0	7,680.1	7,688.1	7,685.3	20.5	13.5	20.69	1,613.4	1,129.6	1,385.3	1,364.2	21.08	65.725	
7,900.0	7,700.3	7,709.8	7,707.0	20.8	13.5	26.64	1,613.9	1,130.2	1,341.0	1,320.2	20.84	64.337	
7,950.0	7,716.5	7,727.6	7,724.8	21.1	13.5	34.79	1,614.4	1,130.7	1,295.3	1,273.6	21.71	59.662	
8,000.0	7,728.5	7,741.2	7,738.4	21.5	13.6	46.01	1,614.7	1,131.1	1,248.4	1,224.4	24.01	51.995	
8,050.0	7,736.3	7,750.4	7,747.6	21.9	13.6	60.82	1,615.0	1,131.4	1,200.7	1,173.4	27.31	43.969	
8,100.0	7,739.8	7,755.3	7,752.4	22.2	13.6	78.16	1,615.1	1,131.5	1,152.8	1,122.7	30.01	38.415	
8,115.3	7,740.0	7,755.9	7,753.0	22.4	13.6	83.54	1,615.1	1,131.5	1,138.0	1,107.6	30.44	37.382	
8,200.0	7,740.0	7,758.0	7,755.2	23.1	13.6	83.92	1,615.2	1,131.6	1,057.0	1,025.6	31.43	33.635	
8,300.0	7,740.0	7,760.6	7,757.8	24.1	13.6	84.38	1,615.2	1,131.7	962.2	929.5	32.67	29.449	
8,400.0	7,740.0	7,763.1	7,760.3	25.2	13.6	84.84	1,615.3	1,131.7	868.5	834.5	33.99	25.547	
8,500.0	7,740.0	7,765.7	7,762.9	26.3	13.6	85.30	1,615.4	1,131.8	776.3	740.9	35.38	21.942	
8,600.0	7,740.0	7,768.3	7,765.4	27.5	13.6	85.76	1,615.4	1,131.9	686.4	649.5	36.82	18.642	
8,700.0	7,740.0	7,770.8	7,768.0	28.7	13.6	86.22	1,615.5	1,131.9	599.6	561.3	38.30	15.656	
8,800.0	7,740.0	7,773.4	7,770.5	30.0	13.6	86.68	1,615.6	1,132.0	517.6	477.8	39.81	13.001	
8,900.0	7,740.0	7,775.9	7,773.1	31.4	13.6	87.14	1,615.6	1,132.1	443.0	401.7	41.36	10.713	
9,000.0	7,740.0	7,778.5	7,775.6	32.8	13.6	87.60	1,615.7	1,132.1	380.3	337.4	42.93	8.860	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,740.0	7,781.1	7,778.2	34.2	13.6	88.06	1,615.7	1,132.2	336.2	291.7	44.52	7.552	
9,200.0	7,740.0	7,783.6	7,780.8	35.6	13.6	88.52	1,615.8	1,132.2	318.4	272.3	46.12	6.903	
9,208.3	7,740.0	7,783.8	7,781.0	35.8	13.6	88.55	1,615.8	1,132.2	318.3	272.0	46.26	6.881	CC, ES, SF
9,300.0	7,740.0	7,786.2	7,783.3	37.1	13.6	88.98	1,615.9	1,132.3	331.2	283.5	47.74	6.938	
9,400.0	7,740.0	7,788.7	7,785.9	38.6	13.6	89.44	1,615.9	1,132.4	371.5	322.1	49.37	7.525	
9,500.0	7,740.0	7,791.3	7,788.4	40.1	13.6	89.90	1,616.0	1,132.4	431.7	380.7	51.01	8.462	
9,600.0	7,740.0	7,793.8	7,791.0	41.7	13.7	90.36	1,616.1	1,132.5	504.6	451.9	52.66	9.582	
9,700.0	7,740.0	7,796.4	7,793.5	43.2	13.7	90.82	1,616.1	1,132.6	585.6	531.3	54.32	10.781	
9,800.0	7,740.0	7,799.0	7,796.1	44.8	13.7	91.28	1,616.2	1,132.6	671.7	615.7	55.98	11.999	
9,900.0	7,740.0	7,801.6	7,798.7	46.4	13.7	91.75	1,616.3	1,132.7	761.2	703.6	57.64	13.206	
10,000.0	7,740.0	7,804.2	7,801.4	48.0	13.7	92.23	1,616.3	1,132.7	853.0	793.7	59.31	14.384	
10,100.0	7,740.0	7,807.0	7,804.1	49.6	13.7	92.71	1,616.4	1,132.8	946.5	885.6	60.97	15.524	
10,200.0	7,740.0	7,809.7	7,806.8	51.2	13.7	93.20	1,616.5	1,132.9	1,041.2	978.6	62.64	16.623	
10,300.0	7,740.0	7,812.5	7,809.6	52.8	13.7	93.70	1,616.5	1,132.9	1,136.8	1,072.5	64.30	17.679	
10,400.0	7,740.0	7,815.3	7,812.4	54.5	13.7	94.20	1,616.6	1,133.0	1,233.1	1,167.1	65.96	18.694	
10,500.0	7,740.0	7,818.1	7,815.2	56.1	13.7	94.70	1,616.7	1,133.1	1,329.9	1,262.3	67.62	19.667	
10,600.0	7,740.0	7,821.0	7,818.1	57.7	13.7	95.21	1,616.8	1,133.1	1,427.2	1,357.9	69.28	20.601	
10,700.0	7,740.0	7,823.9	7,821.0	59.4	13.7	95.73	1,616.8	1,133.2	1,524.8	1,453.9	70.93	21.498	
10,800.0	7,740.0	7,826.8	7,824.0	61.1	13.7	96.25	1,616.9	1,133.3	1,622.7	1,550.1	72.57	22.360	
10,900.0	7,740.0	7,829.8	7,827.0	62.7	13.7	96.78	1,617.0	1,133.3	1,720.8	1,646.6	74.21	23.189	
11,000.0	7,740.0	7,832.9	7,830.0	64.4	13.7	97.31	1,617.1	1,133.4	1,819.2	1,743.3	75.84	23.988	
11,100.0	7,740.0	7,835.9	7,833.0	66.1	13.7	97.85	1,617.2	1,133.5	1,917.7	1,840.2	77.46	24.758	
11,200.0	7,740.0	7,839.0	7,836.1	67.7	13.7	98.39	1,617.3	1,133.5	2,016.3	1,937.2	79.07	25.501	
11,300.0	7,740.0	7,842.2	7,839.3	69.4	13.7	98.94	1,617.3	1,133.6	2,115.1	2,034.4	80.67	26.219	
11,395.3	7,740.0	7,845.2	7,842.3	71.0	13.7	99.47	1,617.4	1,133.7	2,209.3	2,127.2	82.19	26.882	
11,400.0	7,740.0	7,845.3	7,842.5	71.1	13.7	99.44	1,617.4	1,133.7	2,213.9	2,131.7	82.28	26.906	
11,500.0	7,740.0	7,848.6	7,845.7	72.8	13.7	99.94	1,617.5	1,133.7	2,312.8	2,228.4	84.33	27.425	
11,584.7	7,740.0	7,851.4	7,848.5	74.2	13.8	98.57	1,617.6	1,133.8	2,396.3	2,310.3	86.04	27.851	
11,600.0	7,740.0	7,851.9	7,849.0	74.5	13.8	98.64	1,617.6	1,133.8	2,411.4	2,325.2	86.29	27.947	
11,700.0	7,740.0	7,855.3	7,852.4	76.2	13.8	99.12	1,617.7	1,133.9	2,510.1	2,422.2	87.90	28.557	
11,800.0	7,740.0	7,858.7	7,855.8	77.9	13.8	99.60	1,617.8	1,134.0	2,608.9	2,519.4	89.50	29.151	
11,900.0	7,740.0	7,862.2	7,859.3	79.6	13.8	100.09	1,617.9	1,134.0	2,707.7	2,616.7	91.09	29.727	
12,000.0	7,740.0	7,865.7	7,862.8	81.3	13.8	100.58	1,618.0	1,134.1	2,806.7	2,714.0	92.66	30.289	
12,100.0	7,740.0	7,869.3	7,866.4	83.0	13.8	101.08	1,618.1	1,134.2	2,905.7	2,811.4	94.23	30.836	
12,200.0	7,740.0	7,872.9	7,870.0	84.8	13.8	101.58	1,618.2	1,134.2	3,004.7	2,909.0	95.78	31.370	
12,300.0	7,740.0	7,876.6	7,873.7	86.5	13.8	102.09	1,618.3	1,134.3	3,103.9	3,006.5	97.32	31.892	
12,400.0	7,740.0	7,880.3	7,877.4	88.2	13.8	102.60	1,618.4	1,134.4	3,203.0	3,104.2	98.85	32.403	
12,500.0	7,740.0	7,884.1	7,881.1	89.9	13.8	103.11	1,618.5	1,134.5	3,302.3	3,201.9	100.36	32.903	
12,600.0	7,740.0	7,887.9	7,885.0	91.6	13.8	103.63	1,618.7	1,134.5	3,401.5	3,299.7	101.86	33.394	
12,700.0	7,740.0	7,891.7	7,888.8	93.3	13.8	104.16	1,618.8	1,134.6	3,500.8	3,397.5	103.34	33.877	
12,800.0	7,740.0	7,895.6	7,892.7	95.1	13.8	104.69	1,618.9	1,134.7	3,600.1	3,495.3	104.80	34.352	
12,900.0	7,740.0	7,899.6	7,896.7	96.8	13.8	105.22	1,619.0	1,134.8	3,699.5	3,593.3	106.25	34.819	
13,000.0	7,740.0	7,903.1	7,900.1	98.5	13.8	105.68	1,619.1	1,134.8	3,798.9	3,691.2	107.71	35.269	
13,100.0	7,740.0	7,906.4	7,903.5	100.2	13.8	106.13	1,619.2	1,134.9	3,898.3	3,789.2	109.17	35.709	
13,200.0	7,740.0	7,909.9	7,906.9	102.0	13.9	106.58	1,619.3	1,134.9	3,997.8	3,887.2	110.61	36.143	
13,300.0	7,740.0	7,913.3	7,910.3	103.7	13.9	107.03	1,619.4	1,135.0	4,097.3	3,985.2	112.04	36.569	
13,400.0	7,740.0	7,916.7	7,913.8	105.4	13.9	107.48	1,619.5	1,135.1	4,196.8	4,083.3	113.46	36.990	
13,500.0	7,740.0	7,920.1	7,917.2	107.2	13.9	107.93	1,619.7	1,135.1	4,296.3	4,181.4	114.86	37.405	
13,600.0	7,740.0	7,923.6	7,920.6	108.9	13.9	108.38	1,619.8	1,135.2	4,395.8	4,279.6	116.25	37.814	
13,700.0	7,740.0	7,927.0	7,924.1	110.6	13.9	108.83	1,619.9	1,135.3	4,495.4	4,377.8	117.62	38.218	
13,800.0	7,740.0	7,930.5	7,927.6	112.3	13.9	109.27	1,620.0	1,135.3	4,595.0	4,476.0	118.98	38.618	
13,900.0	7,740.0	7,934.0	7,931.1	114.1	13.9	109.72	1,620.1	1,135.4	4,694.5	4,574.2	120.33	39.014	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY				Offset Site Error:		0.0 ft			
Survey Program: 100-MWD																Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance												
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor							
14,000.0	7,740.0	7,937.5	7,934.6	115.8	13.9	110.16	1,620.2	1,135.4	4,794.1	4,672.5	121.66	39.406							
14,100.0	7,740.0	7,941.0	7,938.1	117.5	13.9	110.60	1,620.3	1,135.5	4,893.8	4,770.8	122.98	39.794							
14,200.0	7,740.0	7,944.5	7,941.6	119.3	13.9	111.05	1,620.4	1,135.5	4,993.4	4,869.1	124.28	40.178							
14,300.0	7,740.0	7,948.1	7,945.1	121.0	13.9	111.49	1,620.5	1,135.6	5,093.0	4,967.5	125.57	40.560							
14,400.0	7,740.0	7,951.6	7,948.7	122.8	13.9	111.93	1,620.6	1,135.7	5,192.7	5,065.9	126.84	40.939							

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	52.3	52.3	0.0	0.1	35.33	1,594.4	1,130.1	1,954.3					
100.0	100.0	151.1	151.1	0.2	0.3	35.33	1,594.4	1,130.2	1,954.3	1,953.9	0.42	4,702.622		
200.0	200.0	246.1	246.1	0.3	0.4	35.32	1,594.8	1,129.9	1,954.5	1,953.7	0.76	2,585.731		
300.0	300.0	381.6	381.6	0.5	0.7	35.28	1,595.1	1,128.7	1,954.3	1,953.1	1.17	1,673.972		
400.0	400.0	529.0	528.8	0.7	0.9	35.40	1,589.1	1,129.5	1,951.1	1,949.5	1.61	1,214.541		
500.0	500.0	811.0	807.6	0.9	1.7	-57.79	1,549.2	1,140.7	1,940.3	1,937.9	2.45	793.375		
600.0	600.0	903.2	897.8	1.0	2.0	-57.53	1,530.9	1,145.4	1,925.8	1,922.9	2.90	665.074		
700.0	699.9	1,138.8	1,127.0	1.2	3.0	-56.73	1,477.7	1,155.3	1,908.6	1,904.7	3.84	496.401		
800.0	799.7	1,297.7	1,278.8	1.4	3.9	-56.16	1,430.8	1,160.7	1,883.5	1,878.9	4.65	405.016		
900.0	899.4	1,400.5	1,376.2	1.6	4.5	-55.86	1,398.2	1,164.4	1,856.2	1,851.0	5.27	351.915		
1,000.0	998.9	1,503.7	1,473.7	1.8	5.1	-55.56	1,364.7	1,169.1	1,828.0	1,822.1	5.93	308.062		
1,076.7	1,075.1	1,566.5	1,532.9	2.0	5.4	-55.43	1,344.0	1,172.1	1,805.7	1,799.3	6.37	283.349		
1,100.0	1,098.3	1,584.9	1,550.3	2.1	5.5	-55.34	1,338.0	1,173.0	1,799.0	1,792.4	6.51	276.439		
1,200.0	1,197.6	1,666.2	1,627.2	2.3	6.0	-54.94	1,312.0	1,177.2	1,770.5	1,763.4	7.11	248.981		
1,300.0	1,296.9	1,770.4	1,725.6	2.6	6.6	-54.37	1,278.2	1,183.4	1,742.5	1,734.6	7.84	222.119		
1,400.0	1,396.2	1,852.8	1,803.2	2.8	7.1	-53.89	1,251.2	1,188.7	1,714.4	1,706.0	8.49	201.949		
1,500.0	1,495.5	1,974.1	1,917.7	3.1	7.8	-53.20	1,211.7	1,194.9	1,685.9	1,676.6	9.30	181.337		
1,600.0	1,594.8	2,037.0	1,977.3	3.3	8.2	-52.86	1,191.6	1,197.6	1,657.6	1,647.8	9.83	168.614		
1,700.0	1,694.1	2,124.0	2,059.9	3.6	8.7	-52.37	1,164.7	1,202.3	1,631.0	1,620.5	10.49	155.513		
1,800.0	1,793.4	2,227.5	2,158.2	3.9	9.3	-51.76	1,132.9	1,208.6	1,604.9	1,593.7	11.25	142.711		
1,900.0	1,892.7	2,331.9	2,256.8	4.1	9.9	-51.06	1,099.1	1,215.1	1,578.0	1,565.9	12.03	131.118		
2,000.0	1,992.0	2,427.7	2,347.3	4.4	10.5	-50.42	1,068.2	1,220.8	1,550.9	1,538.2	12.77	121.475		
2,100.0	2,091.3	2,523.4	2,438.0	4.7	11.0	-49.80	1,038.0	1,225.4	1,524.0	1,510.5	13.49	112.961		
2,200.0	2,190.6	2,619.5	2,529.1	4.9	11.6	-49.16	1,007.8	1,229.9	1,497.2	1,483.0	14.22	105.319		
2,300.0	2,289.9	2,712.9	2,617.7	5.2	12.1	-48.54	978.8	1,233.9	1,470.6	1,455.6	14.94	98.459		
2,400.0	2,389.2	2,865.5	2,761.8	5.5	13.1	-47.42	928.6	1,239.4	1,442.5	1,426.5	16.00	90.183		
2,500.0	2,488.5	2,965.8	2,855.6	5.7	13.7	-46.61	893.3	1,241.7	1,412.0	1,395.2	16.80	84.032		
2,600.0	2,587.8	3,053.3	2,937.3	6.0	14.3	-45.84	862.2	1,244.4	1,382.2	1,364.6	17.55	78.775		
2,700.0	2,687.1	3,137.3	3,015.9	6.3	14.8	-45.09	832.8	1,247.0	1,353.0	1,334.7	18.28	74.028		
2,800.0	2,786.4	3,235.7	3,108.1	6.5	15.4	-44.15	798.4	1,250.8	1,324.6	1,305.5	19.10	69.334		
2,900.0	2,885.7	3,346.0	3,211.3	6.8	16.1	-43.10	759.7	1,253.4	1,295.4	1,275.4	19.99	64.813		
3,000.0	2,985.0	3,423.0	3,283.6	7.1	16.6	-42.36	733.1	1,254.8	1,266.5	1,245.8	20.68	61.255		
3,100.0	3,084.3	3,486.3	3,343.3	7.3	16.9	-41.74	712.1	1,256.9	1,239.7	1,218.4	21.27	58.275		
3,200.0	3,183.6	3,559.0	3,412.2	7.6	17.4	-41.03	689.5	1,260.3	1,215.6	1,193.7	21.92	55.446		
3,300.0	3,282.9	3,640.1	3,489.4	7.9	17.8	-40.23	664.9	1,264.7	1,192.9	1,170.2	22.63	52.715		
3,400.0	3,382.2	3,718.0	3,563.6	8.1	18.2	-39.43	641.8	1,270.1	1,172.0	1,148.6	23.31	50.277		
3,500.0	3,481.5	3,811.4	3,653.3	8.4	18.7	-38.55	616.5	1,275.9	1,152.4	1,128.4	24.02	47.978		
3,600.0	3,580.9	3,957.2	3,794.4	8.7	19.4	-37.43	580.2	1,279.4	1,131.4	1,106.5	24.93	45.385		
3,700.0	3,680.2	4,063.3	3,896.3	9.0	20.0	-36.46	550.1	1,280.0	1,107.0	1,081.3	25.73	43.030		
3,800.0	3,779.5	4,132.0	3,961.8	9.2	20.3	-35.72	529.7	1,282.3	1,084.3	1,058.0	26.35	41.153		
3,900.0	3,878.8	4,235.0	4,059.5	9.5	21.0	-34.42	497.6	1,287.8	1,063.1	1,035.8	27.23	39.035		
4,000.0	3,978.1	4,353.9	4,171.0	9.8	21.7	-32.69	456.9	1,293.5	1,040.3	1,012.0	28.27	36.803		
4,100.0	4,077.4	4,445.5	4,256.7	10.0	22.3	-31.26	424.6	1,297.2	1,017.1	988.0	29.11	34.934		
4,200.0	4,176.7	4,525.7	4,331.8	10.3	22.8	-29.97	396.7	1,301.1	995.5	965.7	29.86	33.338		
4,300.0	4,276.0	4,605.0	4,406.8	10.6	23.3	-28.77	371.4	1,305.2	976.1	945.6	30.56	31.941		
4,400.0	4,375.3	4,690.9	4,488.8	10.8	23.7	-27.55	346.3	1,309.9	958.7	927.4	31.27	30.660		
4,500.0	4,474.6	4,789.6	4,583.3	11.1	24.2	-26.16	318.3	1,315.3	942.1	910.1	32.03	29.416		
4,600.0	4,573.9	4,900.8	4,690.3	11.4	24.8	-24.66	288.3	1,319.5	925.2	892.4	32.81	28.196		
4,700.0	4,673.2	4,988.9	4,775.4	11.7	25.2	-23.51	265.5	1,321.9	908.0	874.5	33.44	27.150		
4,800.0	4,772.5	5,072.5	4,856.6	11.9	25.6	-22.49	245.8	1,324.6	892.6	858.6	34.01	26.246		
4,900.0	4,871.8	5,166.1	4,948.1	12.2	25.9	-21.50	226.6	1,327.8	878.6	844.1	34.56	25.421		
5,000.0	4,971.1	5,261.5	5,042.0	12.5	26.2	-20.67	210.1	1,330.4	865.2	830.1	35.07	24.670		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	5,070.4	5,358.6	5,138.1	12.7	26.5	-19.96	195.6	1,332.6	852.1	816.6	35.55	23.973	
5,200.0	5,169.7	5,459.4	5,237.9	13.0	26.8	-19.34	182.6	1,334.2	839.1	803.1	35.99	23.316	
5,300.0	5,269.0	5,558.5	5,336.5	13.3	27.0	-18.90	172.2	1,335.1	826.1	789.7	36.38	22.706	
5,400.0	5,368.3	5,654.1	5,431.8	13.5	27.1	-18.64	164.8	1,335.2	813.2	776.4	36.73	22.138	
5,500.0	5,467.6	5,741.3	5,518.9	13.8	27.3	-18.52	159.9	1,335.8	801.2	764.2	37.03	21.637	
5,600.0	5,566.9	5,847.5	5,625.1	14.1	27.3	-18.65	157.8	1,336.8	790.5	753.2	37.30	21.194	
5,700.0	5,666.2	5,947.4	5,724.9	14.4	27.4	-18.94	157.6	1,335.5	778.0	740.5	37.56	20.715	
5,800.0	5,765.5	6,036.9	5,814.4	14.6	27.5	-19.18	157.4	1,335.3	766.7	728.9	37.82	20.274	
5,900.0	5,864.8	6,134.2	5,911.8	14.9	27.5	-19.44	157.2	1,336.0	756.2	718.1	38.07	19.864	
6,000.0	5,964.1	6,233.0	6,010.5	15.2	27.6	-19.76	157.6	1,336.6	745.7	707.4	38.32	19.462	
6,100.0	6,063.4	6,329.6	6,107.2	15.4	27.7	-20.08	158.1	1,337.4	735.6	697.0	38.58	19.069	
6,200.0	6,162.7	6,427.9	6,205.4	15.7	27.7	-20.40	158.5	1,338.6	725.8	687.0	38.84	18.689	
6,300.0	6,262.0	6,530.3	6,307.8	16.0	27.8	-20.74	158.8	1,339.7	715.8	676.7	39.10	18.309	
6,400.0	6,361.3	6,631.0	6,408.5	16.2	27.9	-21.10	159.2	1,340.3	705.5	666.2	39.36	17.924	
6,500.0	6,460.7	6,730.3	6,507.8	16.5	27.9	-21.45	159.4	1,341.0	695.2	655.6	39.63	17.543	
6,600.0	6,560.0	6,829.5	6,607.0	16.8	28.0	-21.80	159.5	1,341.7	685.0	645.1	39.90	17.166	
6,700.0	6,659.3	6,928.5	6,706.0	17.1	28.1	-22.14	159.4	1,342.5	674.8	634.6	40.18	16.795	
6,800.0	6,758.6	7,027.6	6,805.1	17.3	28.2	-22.48	159.2	1,343.4	664.7	624.2	40.46	16.429	
6,900.0	6,857.9	7,126.5	6,904.0	17.6	28.3	-22.82	158.9	1,344.4	654.6	613.9	40.74	16.068	
7,000.0	6,957.2	7,225.3	7,002.8	17.9	28.4	-23.12	158.1	1,345.6	644.7	603.7	41.05	15.708	
7,100.0	7,056.5	7,326.3	7,103.8	18.1	28.5	-23.38	156.7	1,347.1	634.8	593.5	41.34	15.356	
7,200.0	7,155.8	7,429.3	7,206.8	18.4	28.6	-23.70	155.6	1,348.0	624.5	582.8	41.63	15.000	
7,210.0	7,165.7	7,439.6	7,217.1	18.4	28.6	-23.74	155.5	1,348.0	623.4	581.7	41.66	14.964	
7,250.0	7,205.4	7,481.9	7,259.3	18.5	28.6	8.24	155.3	1,348.1	618.6	576.9	41.66	14.847	
7,300.0	7,254.8	7,534.8	7,312.2	18.7	28.6	33.43	155.0	1,347.9	611.1	569.5	41.62	14.682	
7,350.0	7,303.5	7,586.9	7,364.4	18.8	28.7	46.90	154.8	1,347.3	602.0	560.5	41.55	14.489	
7,400.0	7,351.2	7,636.5	7,414.0	18.9	28.7	55.49	154.7	1,346.4	591.7	550.2	41.48	14.264	
7,450.0	7,397.6	7,681.2	7,458.6	19.0	28.8	61.95	154.6	1,345.7	580.6	539.2	41.44	14.010	
7,500.0	7,442.2	7,724.2	7,501.7	19.2	28.8	67.48	154.5	1,345.0	569.4	527.9	41.47	13.731	
7,550.0	7,484.8	7,765.3	7,542.7	19.3	28.8	72.52	154.4	1,344.6	558.4	516.9	41.57	13.432	
7,600.0	7,525.0	7,804.2	7,581.6	19.5	28.9	77.24	154.3	1,344.2	548.4	506.7	41.77	13.131	
7,650.0	7,562.4	7,841.1	7,618.5	19.6	28.9	81.67	154.3	1,343.9	540.0	498.0	42.02	12.851	
7,700.0	7,596.9	7,875.2	7,652.6	19.8	28.9	85.69	154.3	1,343.7	533.8	491.5	42.31	12.617	
7,750.0	7,628.2	7,906.2	7,683.6	20.0	28.9	89.22	154.4	1,343.4	530.7	488.0	42.61	12.454	
7,769.6	7,639.5	7,917.4	7,694.8	20.1	28.9	90.43	154.4	1,343.4	530.4	487.6	42.73	12.412 CC, ES	
7,800.0	7,656.0	7,933.8	7,711.2	20.3	29.0	92.12	154.5	1,343.3	531.1	488.2	42.91	12.378 SF	
7,850.0	7,680.1	7,957.8	7,735.3	20.5	29.0	94.30	154.6	1,343.2	535.7	492.5	43.21	12.398	
7,900.0	7,700.3	7,978.1	7,755.5	20.8	29.0	95.67	154.7	1,343.1	544.8	501.3	43.55	12.512	
7,950.0	7,716.5	7,994.4	7,771.8	21.1	29.0	96.14	154.8	1,343.0	558.6	514.7	43.94	12.713	
8,000.0	7,728.5	8,006.6	7,784.0	21.5	29.0	95.64	154.8	1,342.9	577.0	532.6	44.42	12.990	
8,050.0	7,736.3	8,014.6	7,792.0	21.9	29.0	94.10	154.9	1,342.9	599.6	554.7	44.97	13.335	
8,100.0	7,739.8	8,018.4	7,795.8	22.2	29.0	91.48	154.9	1,342.9	626.1	580.5	45.56	13.742	
8,115.3	7,740.0	8,018.7	7,796.1	22.4	29.0	90.45	154.9	1,342.9	634.8	589.1	45.74	13.881	
8,200.0	7,740.0	8,019.1	7,796.5	23.1	29.0	90.50	154.9	1,342.9	687.6	640.9	46.71	14.720	
8,300.0	7,740.0	8,019.7	7,797.1	24.1	29.0	90.57	154.9	1,342.9	757.4	709.5	47.95	15.795	
8,400.0	7,740.0	8,020.2	7,797.7	25.2	29.0	90.63	154.9	1,342.9	833.4	784.1	49.27	16.916	
8,500.0	7,740.0	8,020.8	7,798.2	26.3	29.0	90.69	154.9	1,342.9	914.0	863.4	50.64	18.049	
8,600.0	7,740.0	8,021.3	7,798.8	27.5	29.0	90.75	154.9	1,342.9	998.2	946.1	52.07	19.170	
8,700.0	7,740.0	8,021.9	7,799.3	28.7	29.0	90.81	154.9	1,342.9	1,085.0	1,031.5	53.54	20.266	
8,800.0	7,740.0	8,022.5	7,799.9	30.0	29.0	90.87	154.9	1,342.9	1,173.9	1,118.9	55.04	21.328	
8,900.0	7,740.0	8,023.0	7,800.4	31.4	29.0	90.94	154.9	1,342.9	1,264.5	1,207.9	56.57	22.351	
9,000.0	7,740.0	8,023.6	7,801.0	32.8	29.0	91.00	154.9	1,342.9	1,356.4	1,298.3	58.13	23.333	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
9,100.0	7,740.0	8,024.1	7,801.6	34.2	29.0	91.06	154.9	1,342.9	1,449.4	1,389.7	59.71	24.274		
9,200.0	7,740.0	8,024.7	7,802.1	35.6	29.0	91.12	154.9	1,342.9	1,543.2	1,481.9	61.31	25.173		
9,300.0	7,740.0	8,025.3	7,802.7	37.1	29.0	91.19	154.9	1,342.9	1,637.8	1,574.9	62.92	26.032		
9,400.0	7,740.0	8,025.8	7,803.3	38.6	29.0	91.25	154.9	1,342.8	1,733.0	1,668.5	64.54	26.851		
9,500.0	7,740.0	8,026.4	7,803.8	40.1	29.0	91.31	154.9	1,342.8	1,828.7	1,762.5	66.18	27.634		
9,600.0	7,740.0	8,027.0	7,804.4	41.7	29.0	91.38	154.9	1,342.8	1,924.9	1,857.0	67.82	28.381		
9,700.0	7,740.0	8,027.5	7,805.0	43.2	29.0	91.44	154.9	1,342.8	2,021.4	1,951.9	69.48	29.094		
9,800.0	7,740.0	8,028.1	7,805.5	44.8	29.0	91.50	154.9	1,342.8	2,118.2	2,047.1	71.14	29.775		
9,900.0	7,740.0	8,028.7	7,806.1	46.4	29.0	91.56	155.0	1,342.8	2,215.3	2,142.5	72.81	30.427		
10,000.0	7,740.0	8,029.3	7,806.7	48.0	29.0	91.63	155.0	1,342.8	2,312.7	2,238.2	74.48	31.050		
10,100.0	7,740.0	8,029.8	7,807.2	49.6	29.0	91.69	155.0	1,342.8	2,410.3	2,334.1	76.16	31.646		
10,200.0	7,740.0	8,030.4	7,807.8	51.2	29.0	91.76	155.0	1,342.8	2,508.0	2,430.2	77.85	32.216		
10,300.0	7,740.0	8,031.0	7,808.4	52.8	29.0	91.82	155.0	1,342.8	2,606.0	2,526.4	79.54	32.764		
10,400.0	7,740.0	8,031.6	7,809.0	54.5	29.0	91.88	155.0	1,342.8	2,704.1	2,622.8	81.23	33.288		
10,500.0	7,740.0	8,032.1	7,809.5	56.1	29.0	91.95	155.0	1,342.8	2,802.3	2,719.4	82.93	33.791		
10,600.0	7,740.0	8,032.7	7,810.1	57.7	29.0	92.01	155.0	1,342.8	2,900.6	2,816.0	84.63	34.275		
10,700.0	7,740.0	8,033.3	7,810.7	59.4	29.0	92.08	155.0	1,342.8	2,999.1	2,912.8	86.33	34.739		
10,800.0	7,740.0	8,033.9	7,811.3	61.1	29.0	92.14	155.0	1,342.8	3,097.7	3,009.6	88.04	35.186		
10,900.0	7,740.0	8,034.4	7,811.9	62.7	29.0	92.20	155.0	1,342.8	3,196.3	3,106.6	89.74	35.616		
11,000.0	7,740.0	8,035.0	7,812.4	64.4	29.0	92.27	155.0	1,342.8	3,295.0	3,203.6	91.45	36.029		
11,100.0	7,740.0	8,035.6	7,813.0	66.1	29.0	92.33	155.0	1,342.8	3,393.8	3,300.7	93.17	36.428		
11,200.0	7,740.0	8,036.2	7,813.6	67.7	29.0	92.40	155.0	1,342.8	3,492.7	3,397.8	94.88	36.812		
11,300.0	7,740.0	8,036.8	7,814.2	69.4	29.0	92.46	155.0	1,342.8	3,591.6	3,495.0	96.59	37.183		
11,395.3	7,740.0	8,037.3	7,814.8	71.0	29.0	92.53	155.0	1,342.8	3,686.0	3,587.8	98.23	37.525		
11,400.0	7,740.0	8,037.4	7,814.8	71.1	29.0	92.51	155.0	1,342.8	3,690.6	3,592.3	98.32	37.537		
11,500.0	7,740.0	8,038.0	7,815.4	72.8	29.0	92.29	155.0	1,342.8	3,789.5	3,689.3	100.23	37.807		
11,584.7	7,740.0	8,038.5	7,815.9	74.2	29.0	92.14	155.0	1,342.8	3,873.1	3,771.3	101.83	38.033		
11,600.0	7,740.0	8,038.5	7,816.0	74.5	29.0	92.15	155.0	1,342.8	3,888.2	3,786.1	102.10	38.083		
11,700.0	7,740.0	8,039.1	7,816.5	76.2	29.0	92.20	155.0	1,342.8	3,986.9	3,883.1	103.82	38.401		
11,800.0	7,740.0	8,039.7	7,817.1	77.9	29.0	92.25	155.0	1,342.8	4,085.6	3,980.1	105.55	38.710		
11,900.0	7,740.0	8,040.3	7,817.7	79.6	29.0	92.30	155.0	1,342.8	4,184.4	4,077.2	107.27	39.008		
12,000.0	7,740.0	8,040.9	7,818.3	81.3	29.0	92.35	155.0	1,342.8	4,283.3	4,174.3	109.00	39.298		
12,100.0	7,740.0	8,041.4	7,818.9	83.0	29.0	92.41	155.0	1,342.8	4,382.2	4,271.5	110.72	39.578		
12,200.0	7,740.0	8,042.0	7,819.4	84.8	29.0	92.46	155.0	1,342.8	4,481.1	4,368.7	112.45	39.850		
12,300.0	7,740.0	8,042.6	7,820.0	86.5	29.0	92.51	155.0	1,342.8	4,580.1	4,466.0	114.18	40.114		
12,400.0	7,740.0	8,043.2	7,820.6	88.2	29.0	92.56	155.0	1,342.8	4,679.2	4,563.3	115.91	40.370		
12,500.0	7,740.0	8,043.8	7,821.2	89.9	29.0	92.62	155.0	1,342.8	4,778.3	4,660.6	117.64	40.619		
12,600.0	7,740.0	8,044.4	7,821.8	91.6	29.0	92.67	155.0	1,342.8	4,877.4	4,758.0	119.36	40.861		
12,700.0	7,740.0	8,045.0	7,822.4	93.3	29.0	92.72	155.0	1,342.8	4,976.5	4,855.4	121.09	41.096		
12,800.0	7,740.0	8,045.6	7,823.0	95.1	29.0	92.77	155.0	1,342.8	5,075.7	4,952.9	122.83	41.325		
12,900.0	7,740.0	8,046.2	7,823.6	96.8	29.0	92.83	155.1	1,342.8	5,174.9	5,050.4	124.56	41.547		
13,000.0	7,740.0	8,046.8	7,824.2	98.5	29.0	92.88	155.1	1,342.8	5,274.2	5,147.9	126.29	41.763		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	103.8	103.7	0.0	0.2	35.47	1,584.2	1,128.9	1,946.0					
100.0	100.0	302.4	302.1	0.2	0.6	35.52	1,574.9	1,124.3	1,940.8	1,940.1	0.74	2,612.272		
200.0	200.0	501.0	499.5	0.3	1.1	35.74	1,554.1	1,118.3	1,930.6	1,929.1	1.43	1,352.134		
300.0	300.0	614.0	611.3	0.5	1.5	35.96	1,538.0	1,115.8	1,917.7	1,915.8	1.93	994.603		
400.0	400.0	754.3	749.4	0.7	1.9	36.33	1,513.8	1,113.2	1,902.5	1,899.9	2.55	745.917		
500.0	500.0	868.0	861.1	0.9	2.4	-57.49	1,492.0	1,111.8	1,885.7	1,883.1	2.56	736.050		
600.0	600.0	940.7	932.5	1.0	2.6	-57.45	1,478.5	1,111.3	1,868.9	1,866.0	2.91	641.486		
700.0	699.9	1,084.0	1,073.1	1.2	3.2	-57.28	1,451.0	1,110.3	1,850.9	1,847.5	3.45	535.945		
800.0	799.7	1,308.4	1,290.8	1.4	4.2	-56.95	1,397.3	1,104.9	1,827.1	1,822.9	4.26	429.322		
900.0	899.4	1,445.3	1,421.9	1.6	4.9	-56.84	1,357.9	1,099.7	1,797.6	1,792.8	4.85	370.282		
1,000.0	998.9	1,570.1	1,540.4	1.8	5.6	-56.78	1,319.3	1,094.8	1,765.5	1,760.0	5.45	323.925		
1,076.7	1,075.1	1,666.8	1,631.7	2.0	6.2	-56.75	1,287.7	1,091.0	1,739.2	1,733.3	5.93	293.364		
1,100.0	1,098.3	1,702.1	1,664.9	2.1	6.4	-56.66	1,275.7	1,089.5	1,730.9	1,724.8	6.11	283.508		
1,200.0	1,197.6	1,889.3	1,838.3	2.3	7.7	-55.99	1,205.9	1,080.2	1,691.9	1,684.8	7.05	240.035		
1,300.0	1,296.9	1,994.3	1,934.1	2.6	8.5	-55.49	1,163.1	1,075.2	1,650.6	1,642.8	7.73	213.497		
1,400.0	1,396.2	2,100.4	2,030.3	2.8	9.3	-54.94	1,118.8	1,069.6	1,608.2	1,599.8	8.44	190.549		
1,500.0	1,495.5	2,220.3	2,138.0	3.1	10.2	-54.20	1,066.5	1,064.0	1,565.0	1,555.7	9.28	168.713		
1,600.0	1,594.8	2,341.6	2,245.4	3.3	11.3	-53.31	1,010.4	1,057.7	1,519.3	1,509.2	10.16	149.512		
1,700.0	1,694.1	2,422.7	2,317.3	3.6	11.9	-52.71	973.1	1,052.7	1,473.6	1,462.8	10.83	136.011		
1,800.0	1,793.4	2,497.4	2,383.7	3.9	12.5	-52.14	939.2	1,048.1	1,428.6	1,417.1	11.48	124.410		
1,900.0	1,892.7	2,568.2	2,447.0	4.1	13.1	-51.58	907.8	1,044.2	1,384.8	1,372.7	12.12	114.286		
2,000.0	1,992.0	2,660.7	2,530.2	4.4	13.8	-50.87	867.7	1,038.5	1,341.6	1,328.7	12.86	104.323		
2,100.0	2,091.3	2,735.0	2,596.9	4.7	14.4	-50.26	835.5	1,033.8	1,298.5	1,284.9	13.53	95.965		
2,200.0	2,190.6	2,822.0	2,675.3	4.9	15.0	-49.46	797.9	1,029.6	1,256.6	1,242.3	14.31	87.841		
2,300.0	2,289.9	2,941.0	2,782.2	5.2	16.0	-48.32	746.1	1,022.6	1,214.0	1,198.7	15.29	79.416		
2,400.0	2,389.2	3,029.6	2,861.5	5.5	16.7	-47.42	707.2	1,016.3	1,170.6	1,154.5	16.09	72.756		
2,500.0	2,488.5	3,119.5	2,942.2	5.7	17.4	-46.50	668.2	1,009.0	1,127.1	1,110.2	16.90	66.692		
2,600.0	2,587.8	3,211.3	3,024.8	6.0	18.1	-45.51	628.8	1,001.4	1,084.2	1,066.4	17.75	61.090		
2,700.0	2,687.1	3,300.4	3,104.5	6.3	18.8	-44.44	589.7	993.8	1,040.6	1,022.0	18.62	55.877		
2,800.0	2,786.4	3,388.0	3,182.9	6.5	19.5	-43.24	551.1	987.5	998.3	978.7	19.53	51.114		
2,900.0	2,885.7	3,478.7	3,263.8	6.8	20.2	-41.92	510.9	980.0	955.4	934.9	20.49	46.625		
3,000.0	2,985.0	3,557.7	3,334.4	7.1	20.9	-40.63	475.8	974.5	913.8	892.4	21.41	42.688		
3,100.0	3,084.3	3,648.1	3,415.1	7.3	21.6	-39.01	435.6	968.8	873.2	850.8	22.46	38.884		
3,200.0	3,183.6	3,742.4	3,499.5	7.6	22.3	-37.23	394.1	961.5	832.5	809.0	23.55	35.352		
3,300.0	3,282.9	3,827.8	3,576.4	7.9	23.0	-35.59	357.6	953.9	792.4	767.8	24.55	32.280		
3,400.0	3,382.2	3,911.3	3,652.2	8.1	23.6	-33.98	323.7	945.9	753.5	728.0	25.52	29.529		
3,500.0	3,481.5	3,994.0	3,727.6	8.4	24.2	-32.24	290.5	938.5	716.0	689.5	26.52	26.995		
3,600.0	3,580.9	4,080.4	3,806.2	8.7	24.9	-30.17	255.3	932.1	680.2	652.6	27.63	24.619		
3,700.0	3,680.2	4,165.6	3,883.4	9.0	25.5	-27.85	219.8	926.2	645.5	616.7	28.80	22.416		
3,800.0	3,779.5	4,244.4	3,954.7	9.2	26.1	-25.36	186.3	922.7	613.7	583.8	29.95	20.489		
3,900.0	3,878.8	4,334.0	4,035.6	9.5	26.8	-22.26	148.0	919.2	584.1	552.8	31.26	18.684		
4,000.0	3,978.1	4,425.7	4,118.7	9.8	27.5	-18.84	109.4	915.8	556.7	524.1	32.61	17.072		
4,100.0	4,077.4	4,527.5	4,209.2	10.0	28.4	-14.33	62.9	911.2	530.0	495.8	34.17	15.508		
4,200.0	4,176.7	4,618.0	4,288.7	10.3	29.1	-9.80	20.2	905.8	504.9	469.3	35.56	14.198		
4,300.0	4,276.0	4,700.0	4,361.3	10.6	29.8	-5.49	-17.6	901.1	483.7	447.0	36.73	13.171		
4,400.0	4,375.3	4,784.3	4,437.4	10.8	30.4	-1.12	-53.9	897.4	467.7	429.9	37.76	12.385		
4,500.0	4,474.6	4,876.0	4,521.8	11.1	31.0	3.40	-89.7	893.8	455.5	416.8	38.69	11.773		
4,600.0	4,573.9	4,976.0	4,615.2	11.4	31.7	8.08	-125.0	889.7	445.7	406.3	39.48	11.292		
4,700.0	4,673.2	5,071.8	4,705.8	11.7	32.2	12.38	-155.9	884.8	437.3	397.2	40.08	10.911		
4,800.0	4,772.5	5,169.1	4,798.6	11.9	32.7	16.52	-184.5	880.5	431.3	390.7	40.51	10.645		
4,900.0	4,871.8	5,270.2	4,896.3	12.2	33.2	20.38	-210.2	876.6	426.3	385.5	40.81	10.447		
5,000.0	4,971.1	5,372.7	4,996.5	12.5	33.6	23.77	-231.6	873.3	421.8	380.8	40.97	10.294		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,070.4	5,474.8	5,097.0	12.7	33.9	26.73	-249.1	870.6	417.4	376.3	41.08	10.159	
5,200.0	5,169.7	5,581.5	5,202.5	13.0	34.2	29.62	-265.0	867.6	412.6	371.5	41.10	10.037	
5,300.0	5,269.0	5,688.5	5,308.9	13.3	34.4	32.06	-276.2	864.6	406.1	365.0	41.11	9.880	
5,400.0	5,368.3	5,793.9	5,414.0	13.5	34.6	34.19	-284.2	861.6	398.5	357.4	41.07	9.702	
5,500.0	5,467.6	5,895.6	5,515.5	13.8	34.7	35.89	-288.8	859.8	390.3	349.2	41.06	9.506	
5,600.0	5,566.9	6,001.8	5,621.6	14.1	34.8	37.44	-291.2	857.9	381.0	339.9	41.04	9.283	
5,700.0	5,666.2	6,103.7	5,723.5	14.4	34.8	38.80	-291.4	856.0	370.4	329.4	41.04	9.026	
5,800.0	5,765.5	6,202.3	5,822.1	14.6	34.9	40.13	-291.3	854.3	359.9	318.9	41.03	8.772	
5,900.0	5,864.8	6,301.0	5,920.8	14.9	34.9	41.57	-291.3	852.6	349.8	308.8	41.00	8.531	
6,000.0	5,964.1	6,399.8	6,019.6	15.2	35.0	43.10	-291.5	850.9	340.0	299.0	40.94	8.304	
6,100.0	6,063.4	6,498.7	6,118.5	15.4	35.1	44.70	-291.6	849.3	330.5	289.6	40.85	8.090	
6,200.0	6,162.7	6,597.8	6,217.6	15.7	35.1	46.31	-291.4	848.1	321.3	280.5	40.73	7.889	
6,300.0	6,262.0	6,696.8	6,316.6	16.0	35.2	47.89	-290.9	847.5	312.4	271.7	40.61	7.691	
6,400.0	6,361.3	6,795.4	6,415.2	16.2	35.2	49.56	-290.4	846.9	303.8	263.4	40.47	7.508	
6,500.0	6,460.7	6,894.3	6,514.1	16.5	35.3	51.37	-290.3	846.2	295.8	255.5	40.28	7.343	
6,600.0	6,560.0	6,993.4	6,613.1	16.8	35.3	53.32	-290.3	845.4	288.1	248.0	40.05	7.194	
6,700.0	6,659.3	7,092.7	6,712.4	17.1	35.4	55.41	-290.4	844.5	280.8	241.0	39.77	7.061	
6,800.0	6,758.6	7,191.9	6,811.6	17.3	35.5	57.68	-290.6	843.2	273.9	234.4	39.43	6.946	
6,900.0	6,857.9	7,291.1	6,910.9	17.6	35.5	60.09	-290.9	841.8	267.4	228.3	39.03	6.850	
7,000.0	6,957.2	7,390.5	7,010.2	17.9	35.6	62.65	-291.2	840.3	261.3	222.7	38.58	6.773	
7,100.0	7,056.5	7,490.2	7,109.9	18.1	35.7	65.36	-291.4	838.6	255.6	217.5	38.09	6.712	
7,200.0	7,155.8	7,589.6	7,209.3	18.4	35.8	68.20	-291.5	836.7	250.4	212.8	37.55	6.667	
7,210.0	7,165.7	7,599.6	7,219.3	18.4	35.8	68.49	-291.5	836.5	249.9	212.4	37.50	6.663 SF	
7,238.6	7,194.1	7,627.9	7,247.6	18.5	35.8	92.81	-291.4	836.0	249.2	211.8	37.38	6.665 CC, ES	
7,250.0	7,205.4	7,639.3	7,258.9	18.5	35.8	101.32	-291.4	835.8	249.3	212.0	37.31	6.680	
7,300.0	7,254.8	7,688.6	7,308.3	18.7	35.8	127.17	-291.4	834.8	252.5	215.6	36.88	6.845	
7,350.0	7,303.5	7,737.5	7,357.2	18.8	35.9	140.79	-291.3	833.9	260.1	223.9	36.23	7.179	
7,400.0	7,351.2	7,785.6	7,405.3	18.9	35.9	148.99	-291.2	833.0	272.2	236.8	35.39	7.692	
7,450.0	7,397.6	7,832.4	7,452.0	19.0	35.9	154.60	-290.9	832.1	288.6	254.2	34.37	8.398	
7,500.0	7,442.2	7,877.5	7,497.1	19.2	35.9	158.74	-290.7	831.2	309.2	276.0	33.20	9.314	
7,550.0	7,484.8	7,920.3	7,539.9	19.3	36.0	161.94	-290.3	830.4	333.9	302.0	31.90	10.465	
7,600.0	7,525.0	7,960.8	7,580.4	19.5	36.0	164.47	-290.0	829.7	362.4	331.9	30.52	11.876	
7,650.0	7,562.4	7,998.7	7,618.3	19.6	36.0	166.50	-289.7	829.3	394.5	365.4	29.05	13.577	
7,700.0	7,596.9	8,033.7	7,653.3	19.8	36.0	168.15	-289.3	828.9	429.9	402.3	27.54	15.607	
7,750.0	7,628.2	8,065.5	7,685.1	20.0	36.0	169.49	-289.0	828.7	468.2	442.2	26.01	18.003	
7,800.0	7,656.0	8,093.7	7,713.3	20.3	36.0	170.60	-288.7	828.5	509.3	484.8	24.48	20.803	
7,850.0	7,680.1	8,118.2	7,737.8	20.5	36.1	171.54	-288.5	828.4	552.7	529.7	23.00	24.031	
7,900.0	7,700.3	8,138.8	7,758.4	20.8	36.1	172.36	-288.3	828.3	598.1	576.5	21.61	27.683	
7,950.0	7,716.5	8,155.5	7,775.1	21.1	36.1	173.11	-288.1	828.2	645.2	624.9	20.35	31.703	
8,000.0	7,728.5	8,168.0	7,787.6	21.5	36.1	173.90	-288.0	828.1	693.6	674.3	19.28	35.972	
8,050.0	7,736.3	8,176.3	7,795.9	21.9	36.1	175.08	-287.9	828.1	742.9	724.5	18.40	40.368	
8,100.0	7,739.8	8,180.3	7,799.9	22.2	36.1	-179.89	-287.9	828.1	792.7	775.0	17.65	44.909	
8,115.3	7,740.0	8,180.7	7,800.3	22.4	36.1	-162.72	-287.8	828.1	808.0	784.4	23.68	34.128	
8,200.0	7,740.0	8,181.6	7,801.1	23.1	36.1	-164.26	-287.8	828.1	892.7	869.5	23.16	38.540	
8,300.0	7,740.0	8,182.6	7,802.2	24.1	36.1	-165.76	-287.8	828.1	992.7	969.9	22.74	43.659	
8,400.0	7,740.0	8,183.6	7,803.2	25.2	36.1	-167.00	-287.8	828.1	1,092.7	1,070.2	22.46	48.657	
8,500.0	7,740.0	8,184.6	7,804.2	26.3	36.1	-168.04	-287.8	828.1	1,192.7	1,170.4	22.28	53.525	
8,600.0	7,740.0	8,185.7	7,805.2	27.5	36.1	-168.92	-287.8	828.1	1,292.7	1,270.5	22.19	58.260	
8,700.0	7,740.0	8,186.7	7,806.3	28.7	36.1	-169.69	-287.8	828.1	1,392.7	1,370.5	22.15	62.863	
8,800.0	7,740.0	8,187.7	7,807.3	30.0	36.1	-170.35	-287.8	828.1	1,492.6	1,470.5	22.17	67.338	
8,900.0	7,740.0	8,188.7	7,808.3	31.4	36.1	-170.94	-287.8	828.1	1,592.6	1,570.4	22.22	71.690	
9,000.0	7,740.0	8,189.8	7,809.3	32.8	36.1	-171.45	-287.8	828.1	1,692.6	1,670.3	22.29	75.925	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
9,100.0	7,740.0	8,190.8	7,810.4	34.2	36.1	-171.91	-287.7	828.1	1,792.6	1,770.2	22.39	80.048		
9,200.0	7,740.0	8,191.8	7,811.4	35.6	36.1	-172.32	-287.7	828.1	1,892.6	1,870.1	22.51	84.065		
9,300.0	7,740.0	8,192.8	7,812.4	37.1	36.1	-172.70	-287.7	828.1	1,992.6	1,970.0	22.65	87.982		
9,400.0	7,740.0	8,193.8	7,813.4	38.6	36.1	-173.03	-287.7	828.1	2,092.6	2,069.8	22.79	91.803		
9,500.0	7,740.0	8,194.9	7,814.5	40.1	36.1	-173.34	-287.7	828.0	2,192.6	2,169.7	22.95	95.534		
9,600.0	7,740.0	8,195.9	7,815.5	41.7	36.1	-173.62	-287.7	828.0	2,292.6	2,269.5	23.12	99.179		
9,700.0	7,740.0	8,196.9	7,816.5	43.2	36.1	-173.88	-287.7	828.0	2,392.6	2,369.3	23.29	102.742		
9,800.0	7,740.0	8,197.9	7,817.5	44.8	36.1	-174.11	-287.7	828.0	2,492.6	2,469.1	23.46	106.227		
9,900.0	7,740.0	8,199.0	7,818.6	46.4	36.1	-174.33	-287.7	828.0	2,592.6	2,568.9	23.65	109.638		
10,000.0	7,740.0	8,200.0	7,819.6	48.0	36.1	-174.53	-287.6	828.0	2,692.6	2,668.8	23.83	112.977		
10,100.0	7,740.0	8,201.0	7,820.6	49.6	36.1	-174.72	-287.6	828.0	2,792.6	2,768.6	24.02	116.248		
10,200.0	7,740.0	8,202.0	7,821.6	51.2	36.1	-174.90	-287.6	828.0	2,892.6	2,868.4	24.22	119.453		
10,300.0	7,740.0	8,203.1	7,822.7	52.8	36.1	-175.06	-287.6	828.0	2,992.6	2,968.2	24.41	122.596		
10,400.0	7,740.0	8,204.1	7,823.7	54.5	36.1	-175.21	-287.6	828.0	3,092.6	3,068.0	24.61	125.678		
10,500.0	7,740.0	8,205.1	7,824.7	56.1	36.1	-175.36	-287.6	828.0	3,192.6	3,167.8	24.81	128.703		
10,600.0	7,740.0	8,206.1	7,825.7	57.7	36.1	-175.49	-287.6	828.0	3,292.6	3,267.5	25.01	131.671		
10,700.0	7,740.0	8,207.2	7,826.7	59.4	36.1	-175.62	-287.6	828.0	3,392.5	3,367.3	25.21	134.585		
10,800.0	7,740.0	8,208.2	7,827.8	61.1	36.1	-175.74	-287.6	828.0	3,492.5	3,467.1	25.41	137.448		
10,900.0	7,740.0	8,209.2	7,828.8	62.7	36.1	-175.85	-287.6	828.0	3,592.5	3,566.9	25.61	140.260		
11,000.0	7,740.0	8,210.2	7,829.8	64.4	36.1	-175.96	-287.5	828.0	3,692.5	3,666.7	25.82	143.023		
11,100.0	7,740.0	8,211.2	7,830.8	66.1	36.1	-176.06	-287.5	828.0	3,792.5	3,766.5	26.02	145.739		
11,200.0	7,740.0	8,212.3	7,831.9	67.7	36.1	-176.16	-287.5	828.0	3,892.5	3,866.3	26.23	148.410		
11,300.0	7,740.0	8,213.3	7,832.9	69.4	36.1	-176.25	-287.5	828.0	3,992.5	3,966.1	26.43	151.036		
11,395.3	7,740.0	8,214.3	7,833.8	71.0	36.1	-176.33	-287.5	828.0	4,087.9	4,061.2	26.63	153.501		
11,400.0	7,740.0	8,214.3	7,833.9	71.1	36.1	179.12	-287.5	828.0	4,092.5	4,066.7	25.85	158.307		
11,500.0	7,740.0	8,215.3	7,834.9	72.8	36.1	120.47	-287.5	828.0	4,192.5	4,099.1	93.41	44.881		
11,584.7	7,740.0	8,216.2	7,835.8	74.2	36.1	107.90	-287.5	828.0	4,277.1	4,173.1	104.06	41.103		
11,600.0	7,740.0	8,216.3	7,835.9	74.5	36.1	107.96	-287.5	828.0	4,292.5	4,188.2	104.28	41.164		
11,700.0	7,740.0	8,217.3	7,836.9	76.2	36.1	108.35	-287.5	828.0	4,392.4	4,286.7	105.70	41.555		
11,800.0	7,740.0	8,218.4	7,838.0	77.9	36.1	108.74	-287.5	828.0	4,492.4	4,385.2	107.12	41.939		
11,900.0	7,740.0	8,219.4	7,839.0	79.6	36.1	109.12	-287.5	828.0	4,592.3	4,483.8	108.52	42.316		
12,000.0	7,740.0	8,220.4	7,840.0	81.3	36.1	109.50	-287.4	828.0	4,692.3	4,582.3	109.92	42.688		
12,100.0	7,740.0	8,221.4	7,841.0	83.0	36.1	109.88	-287.4	828.0	4,792.2	4,680.9	111.30	43.055		
12,200.0	7,740.0	8,222.4	7,842.0	84.8	36.1	110.26	-287.4	828.0	4,892.2	4,779.5	112.68	43.416		
12,300.0	7,740.0	8,223.4	7,843.0	86.5	36.1	110.63	-287.4	828.0	4,992.1	4,878.1	114.05	43.773		
12,400.0	7,740.0	8,224.4	7,844.0	88.2	36.1	111.01	-287.4	828.0	5,092.1	4,976.7	115.40	44.125		
12,500.0	7,740.0	8,225.4	7,845.0	89.9	36.1	111.38	-287.4	828.0	5,192.0	5,075.3	116.74	44.474		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis			
0.0	0.0	49.8	49.8	0.0	0.1	34.99	1,615.2	1,130.7	1,971.7					
100.0	100.0	125.6	125.6	0.2	0.2	35.00	1,615.5	1,131.1	1,972.3	1,971.9	0.37		5,297.407	
200.0	200.0	190.7	190.7	0.3	0.3	35.02	1,616.2	1,132.5	1,974.4	1,973.8	0.66		2,969.693	
300.0	300.0	254.0	253.9	0.5	0.5	35.06	1,617.6	1,135.1	1,978.6	1,977.6	0.96		2,062.619	
400.0	400.0	308.2	308.0	0.7	0.6	35.10	1,619.5	1,138.4	1,984.8	1,983.5	1.25		1,590.079	
500.0	500.0	345.0	344.6	0.9	0.7	-58.81	1,621.2	1,141.0	1,992.8	1,991.4	1.46		1,361.526	
600.0	600.0	437.0	436.1	1.0	0.9	-58.70	1,627.4	1,149.1	2,002.1	2,000.3	1.81		1,107.300	
700.0	699.9	469.2	468.0	1.2	1.0	-58.62	1,630.4	1,152.4	2,012.6	2,010.6	2.05		981.944	
800.0	799.7	529.0	527.0	1.4	1.2	-58.56	1,636.8	1,159.2	2,024.7	2,022.4	2.35		863.164	
900.0	899.4	578.4	575.6	1.6	1.4	-58.49	1,643.0	1,165.6	2,038.1	2,035.5	2.64		772.883	
1,000.0	998.9	640.1	636.1	1.8	1.6	-58.44	1,651.5	1,174.4	2,052.6	2,049.7	2.96		693.080	
1,076.7	1,075.1	696.0	690.7	2.0	1.8	-58.43	1,659.7	1,182.8	2,064.2	2,060.9	3.24		637.851	
1,100.0	1,098.3	713.8	708.1	2.1	1.9	-58.46	1,662.4	1,185.6	2,067.7	2,064.4	3.32		622.476	
1,200.0	1,197.6	899.3	889.9	2.3	2.6	-58.82	1,688.5	1,211.2	2,081.3	2,077.4	3.89		534.734	
1,300.0	1,296.9	996.9	986.1	2.6	2.9	-59.00	1,700.3	1,223.3	2,092.3	2,088.0	4.31		485.674	
1,400.0	1,396.2	1,061.8	1,049.8	2.8	3.2	-59.11	1,708.5	1,232.0	2,104.4	2,099.7	4.67		450.785	
1,500.0	1,495.5	1,120.0	1,106.8	3.1	3.4	-59.20	1,716.6	1,240.8	2,118.5	2,113.5	5.02		422.024	
1,600.0	1,594.8	1,190.8	1,175.8	3.3	3.7	-59.31	1,727.4	1,252.1	2,134.2	2,128.8	5.39		395.606	
1,700.0	1,694.1	1,271.7	1,254.6	3.6	4.1	-59.44	1,740.6	1,265.2	2,150.9	2,145.1	5.79		371.332	
1,800.0	1,793.4	1,375.3	1,355.4	3.9	4.5	-59.61	1,757.9	1,281.9	2,168.0	2,161.8	6.23		347.928	
1,900.0	1,892.7	1,537.5	1,513.9	4.1	5.2	-59.93	1,783.9	1,304.8	2,183.3	2,176.6	6.78		322.122	
2,000.0	1,992.0	1,644.0	1,618.2	4.4	5.6	-60.09	1,798.3	1,320.2	2,196.8	2,189.6	7.24		303.479	
2,100.0	2,091.3	1,731.0	1,703.4	4.7	6.0	-60.21	1,810.4	1,333.2	2,210.9	2,203.2	7.65		288.986	
2,200.0	2,190.6	1,817.2	1,787.7	4.9	6.3	-60.37	1,823.7	1,345.2	2,225.7	2,217.6	8.06		276.210	
2,300.0	2,289.9	1,896.0	1,864.7	5.2	6.6	-60.50	1,835.8	1,356.8	2,240.9	2,232.5	8.47		264.689	
2,400.0	2,389.2	1,975.1	1,941.8	5.5	7.0	-60.58	1,847.4	1,370.5	2,257.0	2,248.1	8.89		253.995	
2,500.0	2,488.5	2,080.0	2,043.7	5.7	7.5	-60.63	1,862.1	1,390.3	2,273.5	2,264.1	9.36		242.836	
2,600.0	2,587.8	2,168.0	2,129.1	6.0	7.9	-60.67	1,874.5	1,407.3	2,290.1	2,280.3	9.81		233.480	
2,700.0	2,687.1	2,251.6	2,210.2	6.3	8.2	-60.70	1,886.5	1,423.9	2,307.4	2,297.1	10.24		225.252	
2,800.0	2,786.4	2,366.0	2,321.2	6.5	8.8	-60.75	1,903.2	1,446.0	2,324.5	2,313.7	10.74		216.347	
2,900.0	2,885.7	2,618.1	2,567.6	6.8	9.8	-60.97	1,936.2	1,487.6	2,340.3	2,328.8	11.53		202.920	
3,000.0	2,985.0	2,691.0	2,639.3	7.1	10.0	-61.05	1,943.9	1,497.9	2,351.2	2,339.2	11.93		197.023	
3,100.0	3,084.3	2,742.6	2,690.0	7.3	10.2	-61.11	1,950.3	1,505.4	2,363.6	2,351.3	12.29		192.267	
3,200.0	3,183.6	2,826.8	2,772.4	7.6	10.6	-61.19	1,961.4	1,518.7	2,377.6	2,364.9	12.73		186.760	
3,300.0	3,282.9	2,986.6	2,928.9	7.9	11.2	-61.28	1,979.4	1,545.3	2,390.6	2,377.3	13.34		179.228	
3,400.0	3,382.2	3,077.4	3,018.2	8.1	11.5	-61.35	1,988.5	1,558.7	2,401.5	2,387.7	13.79		174.179	
3,500.0	3,481.5	3,128.0	3,067.8	8.4	11.7	-61.39	1,994.6	1,566.7	2,414.4	2,400.3	14.15		170.643	
3,600.0	3,580.9	3,183.4	3,121.9	8.7	12.0	-61.44	2,002.3	1,575.7	2,429.2	2,414.7	14.52		167.347	
3,700.0	3,680.2	3,311.1	3,246.5	9.0	12.5	-61.56	2,020.4	1,597.2	2,444.8	2,429.8	15.05		162.401	
3,800.0	3,779.5	3,406.1	3,339.3	9.2	12.9	-61.63	2,032.8	1,612.8	2,459.2	2,443.7	15.51		158.550	
3,900.0	3,878.8	3,477.0	3,408.6	9.5	13.2	-61.70	2,043.0	1,624.3	2,474.4	2,458.5	15.91		155.499	
4,000.0	3,978.1	3,523.1	3,453.4	9.8	13.4	-61.74	2,050.1	1,632.2	2,491.2	2,474.9	16.27		153.081	
4,100.0	4,077.4	3,598.8	3,526.6	10.0	13.8	-61.78	2,062.4	1,647.1	2,509.9	2,493.2	16.70		150.322	
4,200.0	4,176.7	4,030.9	3,951.1	10.3	15.2	-62.44	2,119.0	1,701.2	2,522.7	2,504.9	17.81		141.660	
4,300.0	4,276.0	4,296.7	4,216.2	10.6	15.7	-63.08	2,135.6	1,710.7	2,523.7	2,505.1	18.56		135.975	
4,400.0	4,375.3	4,422.3	4,341.7	10.8	15.9	-63.39	2,140.1	1,712.8	2,522.3	2,503.3	19.04		132.443	
4,500.0	4,474.6	4,604.6	4,523.9	11.1	16.0	-63.82	2,142.0	1,714.2	2,518.0	2,498.3	19.65		128.147	
4,600.0	4,573.9	4,718.5	4,637.9	11.4	16.1	-64.10	2,141.8	1,714.2	2,512.6	2,492.5	20.12		124.898	
4,700.0	4,673.2	4,840.0	4,759.3	11.7	16.2	-64.40	2,141.1	1,713.1	2,506.5	2,485.9	20.60		121.700	
4,800.0	4,772.5	4,948.3	4,867.6	11.9	16.3	-64.69	2,140.1	1,711.4	2,499.8	2,478.8	21.06		118.716	
4,900.0	4,871.8	5,048.0	4,967.3	12.2	16.3	-64.95	2,138.8	1,710.0	2,493.0	2,471.5	21.50		115.941	
5,000.0	4,971.1	5,146.6	5,065.9	12.5	16.4	-65.20	2,137.5	1,708.8	2,486.2	2,464.2	21.94		113.295	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,070.4	5,241.7	5,161.0	12.7	16.5	-65.45	2,136.4	1,707.5	2,479.6	2,457.2	22.38	110.799	
5,200.0	5,169.7	5,336.2	5,255.5	13.0	16.6	-65.70	2,135.6	1,706.1	2,473.2	2,450.4	22.81	108.409	
5,300.0	5,269.0	5,429.0	5,348.3	13.3	16.6	-65.96	2,135.0	1,704.8	2,467.1	2,443.8	23.25	106.133	
5,400.0	5,368.3	5,518.6	5,437.8	13.5	16.7	-66.20	2,134.6	1,703.7	2,461.4	2,437.7	23.67	103.978	
5,500.0	5,467.6	5,610.7	5,529.9	13.8	16.8	-66.45	2,134.6	1,702.7	2,456.1	2,432.0	24.10	101.902	
5,600.0	5,566.9	5,706.5	5,625.8	14.1	16.9	-66.72	2,134.9	1,701.5	2,451.0	2,426.5	24.54	99.883	
5,700.0	5,666.2	5,801.4	5,720.6	14.4	17.0	-67.00	2,135.4	1,700.1	2,446.2	2,421.2	24.97	97.945	
5,800.0	5,765.5	5,895.6	5,814.8	14.6	17.1	-67.27	2,136.1	1,698.8	2,441.6	2,416.2	25.41	96.086	
5,900.0	5,864.8	5,989.8	5,909.0	14.9	17.2	-67.55	2,136.9	1,697.6	2,437.2	2,411.4	25.85	94.294	
6,000.0	5,964.1	6,084.1	6,003.2	15.2	17.3	-67.82	2,137.9	1,696.5	2,433.2	2,406.9	26.28	92.571	
6,100.0	6,063.4	6,172.7	6,091.8	15.4	17.4	-68.08	2,139.0	1,695.6	2,429.4	2,402.7	26.71	90.951	
6,200.0	6,162.7	6,260.5	6,179.6	15.7	17.5	-68.34	2,140.6	1,694.9	2,426.3	2,399.1	27.14	89.406	
6,300.0	6,262.0	6,363.1	6,282.3	16.0	17.6	-68.64	2,142.5	1,694.2	2,423.3	2,395.7	27.59	87.822	
6,400.0	6,361.3	6,467.8	6,386.9	16.2	17.7	-68.94	2,144.2	1,693.5	2,420.3	2,392.2	28.05	86.273	
6,500.0	6,460.7	6,572.7	6,491.8	16.5	17.8	-69.25	2,145.8	1,692.6	2,417.0	2,388.5	28.51	84.768	
6,600.0	6,560.0	6,670.7	6,589.7	16.8	17.9	-69.54	2,147.2	1,691.5	2,413.7	2,384.7	28.96	83.342	
6,700.0	6,659.3	6,763.1	6,682.2	17.1	18.1	-69.82	2,148.6	1,690.7	2,410.6	2,381.2	29.40	81.996	
6,800.0	6,758.6	6,867.5	6,786.5	17.3	18.2	-70.13	2,150.3	1,689.9	2,407.8	2,377.9	29.86	80.628	
6,900.0	6,857.9	6,969.0	6,888.1	17.6	18.3	-70.42	2,151.5	1,689.1	2,404.6	2,374.2	30.32	79.305	
7,000.0	6,957.2	7,051.6	6,970.6	17.9	18.4	-70.66	2,152.7	1,688.8	2,401.7	2,371.0	30.74	78.118	
7,100.0	7,056.5	7,144.0	7,063.0	18.1	18.6	-70.92	2,154.8	1,689.0	2,400.0	2,368.8	31.19	76.952	
7,200.0	7,155.8	7,222.4	7,141.4	18.4	18.7	-71.14	2,156.9	1,689.6	2,398.8	2,367.2	31.61	75.899	
7,210.0	7,165.7	7,232.3	7,151.3	18.4	18.7	-71.16	2,157.1	1,689.7	2,398.7	2,367.1	31.65	75.785	
7,250.0	7,205.4	7,271.9	7,190.8	18.5	18.8	-39.64	2,158.2	1,690.0	2,397.0	2,365.2	31.81	75.352	
7,300.0	7,254.8	7,321.5	7,240.4	18.7	18.8	-15.34	2,159.5	1,690.4	2,391.3	2,359.5	31.80	75.201	
7,350.0	7,303.5	7,374.4	7,293.3	18.8	18.9	-3.14	2,160.9	1,690.8	2,381.6	2,350.1	31.56	75.462	
7,400.0	7,351.2	7,426.2	7,345.1	18.9	19.0	3.89	2,162.1	1,691.2	2,368.0	2,336.9	31.09	76.155	
7,450.0	7,397.6	7,476.7	7,395.6	19.0	19.1	8.66	2,163.3	1,691.6	2,350.5	2,320.1	30.41	77.290	
7,500.0	7,442.2	7,521.0	7,439.9	19.2	19.1	12.38	2,164.3	1,691.8	2,329.3	2,299.8	29.53	78.885	
7,550.0	7,484.8	7,561.4	7,480.3	19.3	19.2	15.64	2,165.2	1,692.2	2,304.7	2,276.2	28.48	80.918	
7,600.0	7,525.0	7,599.7	7,518.6	19.5	19.2	18.79	2,166.1	1,692.6	2,276.9	2,249.6	27.33	83.320	
7,650.0	7,562.4	7,635.6	7,554.4	19.6	19.3	22.06	2,166.9	1,693.0	2,246.1	2,220.0	26.14	85.911	
7,700.0	7,596.9	7,668.9	7,587.7	19.8	19.3	25.66	2,167.7	1,693.5	2,212.6	2,187.5	25.05	88.309	
7,750.0	7,628.2	7,701.0	7,619.9	20.0	19.4	29.80	2,168.5	1,693.9	2,176.5	2,152.3	24.24	89.807	
7,800.0	7,656.0	7,729.8	7,648.6	20.3	19.4	34.65	2,169.2	1,694.3	2,138.3	2,114.3	23.91	89.425	
7,850.0	7,680.1	7,754.9	7,673.8	20.5	19.5	40.41	2,169.8	1,694.7	2,098.1	2,073.8	24.32	86.278	
7,900.0	7,700.3	7,776.3	7,695.1	20.8	19.5	47.25	2,170.3	1,695.0	2,056.4	2,030.8	25.60	80.339	
7,950.0	7,716.5	7,793.6	7,712.4	21.1	19.5	55.24	2,170.7	1,695.2	2,013.6	1,985.9	27.65	72.832	
8,000.0	7,728.5	7,806.8	7,725.6	21.5	19.6	64.29	2,171.0	1,695.4	1,969.9	1,939.8	30.05	65.547	
8,050.0	7,736.3	7,815.8	7,734.6	21.9	19.6	73.99	2,171.2	1,695.5	1,925.8	1,893.6	32.20	59.808	
8,100.0	7,739.8	7,820.5	7,739.3	22.2	19.6	83.74	2,171.4	1,695.6	1,881.6	1,848.0	33.54	56.099	
8,115.3	7,740.0	7,821.1	7,739.9	22.4	19.6	86.63	2,171.4	1,695.6	1,868.1	1,834.3	33.75	55.357	
8,200.0	7,740.0	7,823.1	7,741.9	23.1	19.6	86.77	2,171.4	1,695.6	1,794.0	1,759.3	34.72	51.666	
8,300.0	7,740.0	7,825.6	7,744.3	24.1	19.6	86.92	2,171.5	1,695.7	1,707.8	1,671.9	35.96	47.489	
8,400.0	7,740.0	7,828.0	7,746.8	25.2	19.6	87.08	2,171.5	1,695.7	1,623.2	1,586.0	37.28	43.544	
8,500.0	7,740.0	7,830.4	7,749.2	26.3	19.6	87.24	2,171.6	1,695.7	1,540.5	1,501.8	38.66	39.852	
8,600.0	7,740.0	7,832.9	7,751.6	27.5	19.6	87.39	2,171.7	1,695.8	1,459.9	1,419.8	40.08	36.420	
8,700.0	7,740.0	7,835.3	7,754.1	28.7	19.6	87.55	2,171.7	1,695.8	1,381.8	1,340.3	41.56	33.252	
8,800.0	7,740.0	7,837.7	7,756.5	30.0	19.6	87.71	2,171.8	1,695.8	1,306.7	1,263.7	43.06	30.345	
8,900.0	7,740.0	7,840.2	7,758.9	31.4	19.6	87.86	2,171.8	1,695.9	1,235.2	1,190.6	44.60	27.696	
9,000.0	7,740.0	7,842.6	7,761.4	32.8	19.6	88.02	2,171.9	1,695.9	1,167.8	1,121.7	46.16	25.299	
9,100.0	7,740.0	7,845.1	7,763.8	34.2	19.6	88.18	2,172.0	1,695.9	1,105.4	1,057.7	47.74	23.153	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,200.0	7,740.0	7,847.5	7,766.3	35.6	19.6	88.34	2,172.0	1,696.0	1,048.8	999.5	49.34	21.256	
9,300.0	7,740.0	7,850.0	7,768.8	37.1	19.6	88.50	2,172.1	1,696.0	999.0	948.1	50.96	19.605	
9,400.0	7,740.0	7,852.4	7,771.2	38.6	19.6	88.66	2,172.1	1,696.0	957.2	904.6	52.59	18.201	
9,500.0	7,740.0	7,854.9	7,773.6	40.1	19.6	88.81	2,172.2	1,696.1	924.2	870.0	54.23	17.043	
9,600.0	7,740.0	7,857.3	7,776.1	41.7	19.6	88.97	2,172.2	1,696.1	901.3	845.4	55.88	16.128	
9,700.0	7,740.0	7,859.7	7,778.5	43.2	19.6	89.13	2,172.3	1,696.1	889.0	831.5	57.54	15.450	
9,759.9	7,740.0	7,861.1	7,779.9	44.2	19.6	89.22	2,172.3	1,696.1	887.0	828.4	58.54	15.152 CC, ES	
9,800.0	7,740.0	7,862.1	7,780.9	44.8	19.6	89.28	2,172.4	1,696.1	887.9	828.7	59.21	14.996	
9,900.0	7,740.0	7,864.5	7,783.3	46.4	19.6	89.44	2,172.4	1,696.2	898.0	837.1	60.88	14.749	
10,000.0	7,740.0	7,866.9	7,785.6	48.0	19.6	89.59	2,172.5	1,696.2	918.9	856.3	62.56	14.688 SF	
10,100.0	7,740.0	7,869.3	7,788.0	49.6	19.7	89.74	2,172.5	1,696.2	949.9	885.7	64.25	14.785	
10,200.0	7,740.0	7,871.6	7,790.4	51.2	19.7	89.89	2,172.6	1,696.3	990.1	924.2	65.94	15.016	
10,300.0	7,740.0	7,874.0	7,792.7	52.8	19.7	90.05	2,172.6	1,696.3	1,038.4	970.8	67.63	15.354	
10,400.0	7,740.0	7,876.3	7,795.1	54.5	19.7	90.20	2,172.7	1,696.3	1,093.7	1,024.4	69.33	15.776	
10,500.0	7,740.0	7,878.6	7,797.4	56.1	19.7	90.35	2,172.8	1,696.4	1,155.1	1,084.0	71.03	16.262	
10,600.0	7,740.0	7,881.0	7,799.7	57.7	19.7	90.50	2,172.8	1,696.4	1,221.5	1,148.8	72.74	16.794	
10,700.0	7,740.0	7,883.3	7,802.0	59.4	19.7	90.65	2,172.9	1,696.4	1,292.3	1,217.9	74.44	17.360	
10,800.0	7,740.0	7,885.6	7,804.3	61.1	19.7	90.80	2,172.9	1,696.5	1,366.7	1,290.6	76.15	17.948	
10,900.0	7,740.0	7,887.9	7,806.6	62.7	19.7	90.94	2,173.0	1,696.5	1,444.3	1,366.4	77.86	18.549	
11,000.0	7,740.0	7,890.2	7,808.9	64.4	19.7	91.09	2,173.0	1,696.5	1,524.4	1,444.8	79.57	19.157	
11,100.0	7,740.0	7,892.4	7,811.2	66.1	19.7	91.24	2,173.1	1,696.6	1,606.8	1,525.5	81.29	19.766	
11,200.0	7,740.0	7,894.7	7,813.5	67.7	19.7	91.39	2,173.1	1,696.6	1,691.0	1,608.0	83.00	20.373	
11,300.0	7,740.0	7,897.0	7,815.7	69.4	19.7	91.53	2,173.2	1,696.6	1,776.9	1,692.2	84.72	20.974	
11,395.3	7,740.0	7,899.1	7,817.9	71.0	19.7	91.67	2,173.2	1,696.6	1,860.1	1,773.7	86.36	21.540	
11,400.0	7,740.0	7,899.2	7,818.0	71.1	19.7	91.67	2,173.2	1,696.6	1,864.2	1,777.7	86.45	21.563	
11,500.0	7,740.0	7,901.5	7,820.2	72.8	19.7	91.76	2,173.3	1,696.7	1,952.3	1,863.8	88.51	22.056	
11,584.7	7,740.0	7,903.4	7,822.1	74.2	19.7	91.83	2,173.3	1,696.7	2,027.1	1,936.9	90.24	22.463	
11,600.0	7,740.0	7,903.7	7,822.5	74.5	19.7	91.85	2,173.3	1,696.7	2,040.7	1,950.2	90.51	22.547	
11,700.0	7,740.0	7,906.0	7,824.7	76.2	19.7	91.99	2,173.4	1,696.7	2,129.8	2,037.6	92.23	23.093	
11,800.0	7,740.0	7,908.3	7,827.0	77.9	19.7	92.12	2,173.4	1,696.8	2,219.9	2,125.9	93.95	23.628	
11,900.0	7,740.0	7,910.5	7,829.2	79.6	19.7	92.26	2,173.5	1,696.8	2,310.8	2,215.1	95.67	24.153	
12,000.0	7,740.0	7,912.7	7,831.5	81.3	19.7	92.39	2,173.6	1,696.8	2,402.4	2,305.0	97.39	24.666	
12,100.0	7,740.0	7,915.0	7,833.7	83.0	19.7	92.53	2,173.6	1,696.9	2,494.6	2,395.5	99.12	25.168	
12,200.0	7,740.0	7,917.2	7,835.9	84.8	19.7	92.66	2,173.7	1,696.9	2,587.4	2,486.6	100.84	25.659	
12,300.0	7,740.0	7,919.4	7,838.1	86.5	19.7	92.80	2,173.7	1,696.9	2,680.8	2,578.2	102.56	26.137	
12,400.0	7,740.0	7,921.6	7,840.3	88.2	19.7	92.93	2,173.8	1,696.9	2,774.6	2,670.3	104.29	26.605	
12,500.0	7,740.0	7,923.8	7,842.5	89.9	19.7	93.06	2,173.8	1,697.0	2,868.8	2,762.8	106.01	27.061	
12,600.0	7,740.0	7,926.0	7,844.7	91.6	19.7	93.19	2,173.9	1,697.0	2,963.4	2,855.6	107.73	27.507	
12,700.0	7,740.0	7,928.1	7,846.9	93.3	19.7	93.33	2,173.9	1,697.0	3,058.3	2,948.8	109.46	27.941	
12,800.0	7,740.0	7,930.3	7,849.0	95.1	19.7	93.46	2,174.0	1,697.1	3,153.5	3,042.4	111.18	28.365	
12,900.0	7,740.0	7,932.5	7,851.2	96.8	19.7	93.59	2,174.0	1,697.1	3,249.1	3,136.2	112.90	28.778	
13,000.0	7,740.0	7,934.6	7,853.3	98.5	19.8	93.72	2,174.0	1,697.1	3,344.9	3,230.2	114.62	29.182	
13,100.0	7,740.0	7,936.7	7,855.5	100.2	19.8	93.85	2,174.1	1,697.1	3,440.9	3,324.6	116.34	29.575	
13,200.0	7,740.0	7,938.9	7,857.6	102.0	19.8	93.97	2,174.1	1,697.2	3,537.1	3,419.1	118.06	29.959	
13,300.0	7,740.0	7,941.0	7,859.7	103.7	19.8	94.10	2,174.2	1,697.2	3,633.6	3,513.8	119.78	30.334	
13,400.0	7,740.0	7,943.1	7,861.9	105.4	19.8	94.23	2,174.2	1,697.2	3,730.2	3,608.7	121.50	30.700	
13,500.0	7,740.0	7,945.2	7,864.0	107.2	19.8	94.36	2,174.3	1,697.3	3,827.0	3,703.8	123.22	31.058	
13,600.0	7,740.0	7,947.3	7,866.1	108.9	19.8	94.48	2,174.3	1,697.3	3,924.0	3,799.1	124.94	31.406	
13,700.0	7,740.0	7,949.4	7,868.1	110.6	19.8	94.61	2,174.4	1,697.3	4,021.1	3,894.5	126.66	31.747	
13,800.0	7,740.0	7,951.5	7,870.2	112.3	19.8	94.73	2,174.4	1,697.3	4,118.4	3,990.0	128.38	32.080	
13,900.0	7,740.0	7,953.6	7,872.3	114.1	19.8	94.86	2,174.5	1,697.4	4,215.7	4,085.6	130.09	32.405	
14,000.0	7,740.0	7,955.6	7,874.4	115.8	19.8	94.98	2,174.5	1,697.4	4,313.2	4,181.4	131.81	32.723	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program: 71-Geolink MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
14,100.0	7,740.0	7,957.7	7,876.4	117.5	19.8	95.11	2,174.6	1,697.4	4,410.8	4,277.3	133.53	33.034						
14,200.0	7,740.0	7,959.7	7,878.5	119.3	19.8	95.23	2,174.6	1,697.4	4,508.6	4,373.3	135.24	33.338						
14,300.0	7,740.0	7,961.8	7,880.5	121.0	19.8	95.35	2,174.7	1,697.5	4,606.4	4,469.4	136.95	33.635						
14,400.0	7,740.0	7,963.8	7,882.5	122.8	19.8	95.47	2,174.7	1,697.5	4,704.3	4,565.6	138.67	33.925						
14,500.0	7,740.0	7,965.8	7,884.6	124.5	19.8	95.60	2,174.7	1,697.5	4,802.2	4,661.9	140.38	34.210						
14,600.0	7,740.0	7,967.9	7,886.6	126.2	19.8	95.72	2,174.8	1,697.5	4,900.3	4,758.2	142.09	34.488						
14,696.1	7,740.0	7,969.8	7,888.5	127.9	19.8	95.83	2,174.8	1,697.6	4,994.6	4,850.9	143.73	34.750						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL											Offset Site Error: 0.0 ft		
Survey Program: 100-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	33.4	33.4	0.0	0.1	43.55	801.4	761.9	1,105.8				
100.0	100.0	122.9	122.9	0.2	0.2	43.58	801.6	762.9	1,106.8	1,106.4	0.37	3,006.567	
200.0	200.0	221.5	221.4	0.3	0.4	43.65	801.9	764.9	1,108.3	1,107.6	0.72	1,547.188	
300.0	300.0	333.1	333.1	0.5	0.6	43.69	802.1	766.2	1,109.2	1,108.1	1.09	1,021.885	
400.0	400.0	436.2	436.2	0.7	0.8	43.69	802.2	766.3	1,109.4	1,108.0	1.44	770.714	
500.0	500.0	535.8	535.8	0.9	0.9	-50.38	802.6	766.3	1,109.1	1,107.3	1.79	620.898	
600.0	600.0	639.5	639.5	1.0	1.1	-50.51	802.7	766.1	1,107.4	1,105.3	2.14	516.613	
700.0	699.9	744.0	744.0	1.2	1.3	-50.72	802.7	765.8	1,104.4	1,101.9	2.51	440.765	
800.0	799.7	847.6	847.5	1.4	1.5	-51.06	802.5	764.6	1,099.7	1,096.8	2.87	382.896	
900.0	899.4	947.2	947.2	1.6	1.7	-51.48	802.7	763.3	1,094.0	1,090.7	3.24	337.647	
1,000.0	998.9	1,048.8	1,048.7	1.8	1.8	-51.97	802.4	762.0	1,086.9	1,083.3	3.62	300.098	
1,076.7	1,075.1	1,125.3	1,125.3	2.0	2.0	-52.40	802.1	761.1	1,080.9	1,077.0	3.92	275.665	
1,100.0	1,098.3	1,149.3	1,149.2	2.1	2.0	-52.53	802.0	760.8	1,078.9	1,074.9	4.01	268.766	
1,200.0	1,197.6	1,250.3	1,250.2	2.3	2.2	-53.09	801.7	759.1	1,070.4	1,066.0	4.41	242.474	
1,300.0	1,296.9	1,346.1	1,346.0	2.6	2.4	-53.65	801.6	757.4	1,062.1	1,057.3	4.81	220.766	
1,400.0	1,396.2	1,440.7	1,440.5	2.8	2.5	-54.21	801.9	755.9	1,054.4	1,049.2	5.21	202.394	
1,500.0	1,495.5	1,540.5	1,540.3	3.1	2.7	-54.82	802.4	754.4	1,046.9	1,041.3	5.62	186.249	
1,600.0	1,594.8	1,639.0	1,638.8	3.3	2.9	-55.42	802.8	752.8	1,039.4	1,033.4	6.03	172.265	
1,700.0	1,694.1	1,733.3	1,733.2	3.6	3.0	-56.01	803.5	751.5	1,032.5	1,026.0	6.44	160.271	
1,800.0	1,793.4	1,832.0	1,831.8	3.9	3.2	-56.64	804.4	750.2	1,025.8	1,019.0	6.86	149.518	
1,900.0	1,892.7	1,930.1	1,929.9	4.1	3.4	-57.28	805.5	748.7	1,019.3	1,012.1	7.28	139.981	
2,000.0	1,992.0	2,024.2	2,024.0	4.4	3.5	-57.92	806.8	747.4	1,013.3	1,005.6	7.70	131.626	
2,100.0	2,091.3	2,116.5	2,116.3	4.7	3.7	-58.54	808.5	746.6	1,008.0	999.9	8.11	124.243	
2,200.0	2,190.6	2,211.8	2,211.5	4.9	3.9	-59.18	810.7	746.0	1,003.4	994.9	8.54	117.552	
2,300.0	2,289.9	2,310.3	2,310.1	5.2	4.0	-59.84	813.0	745.7	999.2	990.2	8.97	111.438	
2,400.0	2,389.2	2,414.9	2,414.6	5.5	4.2	-60.54	815.1	745.5	994.8	985.4	9.41	105.729	
2,500.0	2,488.5	2,518.9	2,518.6	5.7	4.4	-61.21	816.5	745.3	990.1	980.2	9.85	100.498	
2,600.0	2,587.8	2,619.8	2,619.5	6.0	4.6	-61.86	817.5	745.0	985.2	974.9	10.29	95.738	
2,700.0	2,687.1	2,721.1	2,720.8	6.3	4.8	-62.52	818.4	744.6	980.2	969.4	10.73	91.334	
2,800.0	2,786.4	2,819.7	2,819.4	6.5	4.9	-63.17	819.2	744.3	975.3	964.1	11.17	87.320	
2,900.0	2,885.7	2,921.4	2,921.0	6.8	5.1	-63.85	820.0	743.7	970.4	958.7	11.61	83.547	
3,000.0	2,985.0	3,021.0	3,020.7	7.1	5.3	-64.57	820.9	742.6	965.5	953.4	12.06	80.059	
3,100.0	3,084.3	3,121.7	3,121.4	7.3	5.5	-65.29	821.8	741.4	960.6	948.1	12.51	76.803	
3,200.0	3,183.6	3,222.7	3,222.3	7.6	5.7	-66.04	822.5	740.0	955.7	942.8	12.96	73.752	
3,300.0	3,282.9	3,319.7	3,319.4	7.9	5.8	-66.78	823.4	738.4	951.0	937.6	13.40	70.948	
3,400.0	3,382.2	3,414.7	3,414.3	8.1	6.0	-67.51	824.6	737.0	946.8	933.0	13.85	68.378	
3,500.0	3,481.5	3,510.5	3,510.1	8.4	6.2	-68.22	825.8	736.1	943.2	928.9	14.29	65.998	
3,600.0	3,580.9	3,600.0	3,599.6	8.7	6.3	-68.88	827.4	735.7	940.3	925.5	14.72	63.863	
3,700.0	3,680.2	3,693.8	3,693.3	9.0	6.5	-69.57	829.7	735.7	938.3	923.1	15.16	61.877	
3,800.0	3,779.5	3,799.5	3,799.0	9.2	6.7	-70.36	832.5	735.6	936.6	921.0	15.63	59.921	
3,900.0	3,878.8	3,909.0	3,908.5	9.5	6.9	-71.19	834.5	735.0	934.1	918.0	16.10	58.005	
4,000.0	3,978.1	4,013.7	4,013.2	9.8	7.0	-71.98	835.5	734.2	931.0	914.5	16.57	56.188	
4,100.0	4,077.4	4,122.0	4,121.4	10.0	7.2	-72.84	835.8	732.4	927.1	910.1	17.04	54.392	
4,200.0	4,176.7	4,218.1	4,217.5	10.3	7.4	-73.64	836.2	730.3	923.3	905.8	17.50	52.764	
4,300.0	4,276.0	4,319.7	4,319.1	10.6	7.6	-74.46	836.3	728.5	919.5	901.6	17.96	51.197	
4,400.0	4,375.3	4,417.1	4,416.6	10.8	7.8	-75.23	836.3	727.2	915.9	897.5	18.41	49.741	
4,500.0	4,474.6	4,513.1	4,512.5	11.1	7.9	-76.05	836.8	725.1	912.8	893.9	18.87	48.372	
4,600.0	4,573.9	4,602.7	4,602.1	11.4	8.1	-76.86	838.1	722.8	910.6	891.2	19.31	47.146	
4,700.0	4,673.2	4,708.9	4,708.2	11.7	8.3	-77.79	839.5	720.5	908.6	888.9	19.79	45.919	
4,800.0	4,772.5	4,810.6	4,809.9	11.9	8.5	-78.67	840.3	718.5	906.4	886.2	20.25	44.755	
4,900.0	4,871.8	4,915.5	4,914.8	12.2	8.6	-79.53	840.4	717.0	903.9	883.2	20.72	43.624	
5,000.0	4,971.1	5,015.8	5,015.1	12.5	8.8	-80.33	840.0	715.8	901.2	880.0	21.18	42.548	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL												Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,070.4	5,109.1	5,108.4	12.7	9.0	-81.11	840.0	714.4	898.9	877.3	21.63	41.568	
5,200.0	5,169.7	5,207.3	5,206.6	13.0	9.2	-81.95	840.5	712.7	897.3	875.2	22.08	40.633	
5,300.0	5,269.0	5,308.6	5,307.8	13.3	9.3	-82.85	840.9	710.5	895.7	873.1	22.54	39.730	
5,400.0	5,368.3	5,401.4	5,400.6	13.5	9.5	-83.63	841.5	709.1	894.6	871.6	22.99	38.917	
5,500.0	5,467.6	5,505.7	5,504.9	13.8	9.7	-84.49	842.0	708.1	893.7	870.2	23.45	38.111	
5,600.0	5,566.9	5,602.3	5,601.5	14.1	9.9	-85.29	842.4	706.9	892.9	869.0	23.90	37.363	
5,700.0	5,666.2	5,701.9	5,701.0	14.4	10.0	-86.15	843.0	705.4	892.3	868.0	24.35	36.646	
5,800.0	5,765.5	5,803.8	5,802.9	14.6	10.2	-87.06	843.5	703.2	891.8	867.0	24.81	35.950	
5,900.0	5,864.8	5,900.8	5,899.9	14.9	10.4	-87.93	843.9	701.2	891.5	866.3	25.25	35.302	
5,943.6	5,908.1	5,943.9	5,943.0	15.0	10.5	-88.31	844.2	700.3	891.5	866.1	25.45	35.030	
6,000.0	5,964.1	5,999.7	5,998.8	15.2	10.6	-88.80	844.5	699.2	891.5	865.8	25.70	34.687	
6,100.0	6,063.4	6,105.5	6,104.6	15.4	10.7	-89.75	844.7	696.9	891.4	865.2	26.16	34.072	
6,200.0	6,162.7	6,204.3	6,203.4	15.7	10.9	-90.66	844.5	694.4	891.1	864.5	26.61	33.492	
6,251.3	6,213.7	6,254.7	6,253.8	15.8	11.0	-91.12	844.4	693.2	891.0	864.2	26.83	33.207	
6,300.0	6,262.0	6,302.5	6,301.5	16.0	11.1	-91.55	844.4	692.1	891.1	864.0	27.05	32.945	
6,400.0	6,361.3	6,400.0	6,399.0	16.2	11.3	-92.41	844.4	690.1	891.4	864.0	27.48	32.434	
6,500.0	6,460.7	6,489.8	6,488.8	16.5	11.4	-93.20	845.0	688.3	892.6	864.7	27.91	31.985	
6,600.0	6,560.0	6,593.5	6,592.5	16.8	11.6	-94.10	845.9	686.6	894.3	866.0	28.35	31.546	
6,700.0	6,659.3	6,691.1	6,690.1	17.1	11.8	-94.91	846.6	685.4	895.9	867.1	28.78	31.130	
6,800.0	6,758.6	6,795.9	6,794.8	17.3	12.0	-95.78	847.1	684.0	897.6	868.4	29.22	30.719	
6,900.0	6,857.9	6,894.8	6,893.7	17.6	12.1	-96.61	847.3	682.5	899.1	869.4	29.65	30.325	
7,000.0	6,957.2	6,990.0	6,988.9	17.9	12.3	-97.45	847.6	680.4	901.0	870.9	30.07	29.964	
7,100.0	7,056.5	7,097.7	7,096.6	18.1	12.5	-98.38	847.8	678.3	902.9	872.4	30.50	29.601	
7,200.0	7,155.8	7,196.2	7,195.1	18.4	12.7	-99.24	847.4	676.4	904.5	873.6	30.92	29.250	
7,210.0	7,165.7	7,206.5	7,205.3	18.4	12.7	-99.33	847.3	676.1	904.7	873.7	30.97	29.215	
7,250.0	7,205.4	7,248.3	7,247.2	18.5	12.8	-68.17	847.1	674.9	904.0	872.9	31.10	29.068	
7,300.0	7,254.8	7,300.4	7,299.2	18.7	12.9	-44.61	846.6	673.2	899.1	868.0	31.10	28.906	
7,350.0	7,303.5	7,372.8	7,371.6	18.8	13.0	-33.71	844.8	670.3	889.2	858.3	30.97	28.715	
7,400.0	7,351.2	7,461.0	7,459.5	18.9	13.1	-28.64	839.6	667.4	873.7	843.0	30.68	28.476	
7,450.0	7,397.6	7,518.7	7,516.9	19.0	13.2	-25.81	834.1	667.7	852.3	822.1	30.20	28.221	
7,500.0	7,442.2	7,549.4	7,547.6	19.2	13.3	-24.13	831.4	668.3	827.5	797.9	29.54	28.010	
7,550.0	7,484.8	7,579.1	7,577.1	19.3	13.3	-23.41	829.3	669.2	799.7	770.9	28.77	27.798	
7,600.0	7,525.0	7,600.0	7,598.0	19.5	13.4	-23.27	828.1	669.9	769.1	741.2	27.89	27.574	
7,650.0	7,562.4	7,636.3	7,634.3	19.6	13.4	-24.19	826.4	671.2	735.6	708.6	27.00	27.239	
7,700.0	7,596.9	7,662.7	7,660.6	19.8	13.5	-25.67	825.4	671.9	699.6	673.5	26.12	26.786	
7,750.0	7,628.2	7,686.9	7,684.8	20.0	13.5	-27.99	824.7	672.4	661.3	635.9	25.33	26.102	
7,800.0	7,656.0	7,710.2	7,708.1	20.3	13.5	-31.47	824.2	672.8	620.8	596.0	24.78	25.049	
7,850.0	7,680.1	7,732.5	7,730.3	20.5	13.6	-36.54	823.8	673.2	578.5	553.8	24.66	23.462	
7,900.0	7,700.3	7,751.1	7,749.0	20.8	13.6	-43.54	823.5	673.6	534.5	509.4	25.12	21.275	
7,950.0	7,716.5	7,766.1	7,764.0	21.1	13.6	-52.87	823.3	673.9	489.4	463.1	26.29	18.616	
8,000.0	7,728.5	7,777.1	7,775.0	21.5	13.7	-64.51	823.2	674.1	443.5	415.6	27.94	15.877	
8,050.0	7,736.3	7,784.1	7,782.0	21.9	13.7	-77.36	823.1	674.2	397.4	368.0	29.47	13.486	
8,100.0	7,739.8	7,786.9	7,784.8	22.2	13.7	-89.41	823.0	674.3	351.7	321.3	30.39	11.572	
8,115.3	7,740.0	7,786.9	7,784.8	22.4	13.7	-92.65	823.0	674.3	337.8	307.3	30.55	11.058	
8,200.0	7,740.0	7,785.9	7,783.8	23.1	13.7	-92.25	823.1	674.3	264.1	232.6	31.52	8.379	
8,300.0	7,740.0	7,784.7	7,782.5	24.1	13.7	-91.77	823.1	674.2	189.3	156.6	32.76	5.780	
8,400.0	7,740.0	7,783.4	7,781.3	25.2	13.7	-91.28	823.1	674.2	148.1	114.0	34.07	4.347	
8,419.6	7,740.0	7,783.2	7,781.0	25.4	13.7	-91.19	823.1	674.2	146.8	112.5	34.34	4.275 CC, ES, SF	
8,500.0	7,740.0	7,782.2	7,780.0	26.3	13.7	-90.79	823.1	674.2	167.4	131.9	35.44	4.722	
8,600.0	7,740.0	7,780.9	7,778.7	27.5	13.7	-90.28	823.1	674.2	232.6	195.7	36.87	6.309	
8,700.0	7,740.0	7,779.5	7,777.4	28.7	13.7	-89.76	823.1	674.1	316.5	278.2	38.33	8.257	
8,800.0	7,740.0	7,778.2	7,776.0	30.0	13.7	-89.24	823.2	674.1	407.7	367.9	39.82	10.238	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL												Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)			
8,900.0	7,740.0	7,776.8	7,774.7	31.4	13.7	-88.70	823.2	674.1	502.3	460.9	41.35	12.148	
9,000.0	7,740.0	7,775.4	7,773.3	32.8	13.7	-88.15	823.2	674.0	598.6	555.7	42.89	13.957	
9,100.0	7,740.0	7,774.0	7,771.8	34.2	13.7	-87.60	823.2	674.0	696.0	651.6	44.45	15.658	
9,200.0	7,740.0	7,772.5	7,770.4	35.6	13.7	-87.03	823.2	674.0	794.0	748.0	46.02	17.253	
9,300.0	7,740.0	7,771.0	7,768.9	37.1	13.7	-86.45	823.2	674.0	892.5	844.9	47.61	18.747	
9,400.0	7,740.0	7,769.5	7,767.3	38.6	13.6	-85.86	823.3	673.9	991.2	942.1	49.20	20.149	
9,500.0	7,740.0	7,767.9	7,765.8	40.1	13.6	-85.25	823.3	673.9	1,090.2	1,039.4	50.79	21.465	
9,600.0	7,740.0	7,766.3	7,764.2	41.7	13.6	-84.64	823.3	673.9	1,189.4	1,137.0	52.39	22.704	
9,700.0	7,740.0	7,764.7	7,762.6	43.2	13.6	-84.01	823.3	673.8	1,288.7	1,234.7	53.98	23.872	
9,800.0	7,740.0	7,763.0	7,760.9	44.8	13.6	-83.37	823.4	673.8	1,388.1	1,332.5	55.58	24.976	
9,900.0	7,740.0	7,761.3	7,759.2	46.4	13.6	-82.72	823.4	673.8	1,487.5	1,430.4	57.16	26.022	
10,000.0	7,740.0	7,759.6	7,757.5	48.0	13.6	-82.06	823.4	673.7	1,587.1	1,528.3	58.75	27.015	
10,100.0	7,740.0	7,757.8	7,755.7	49.6	13.6	-81.38	823.4	673.7	1,686.6	1,626.3	60.32	27.961	
10,200.0	7,740.0	7,756.0	7,753.9	51.2	13.6	-80.70	823.5	673.7	1,786.3	1,724.4	61.88	28.865	
10,300.0	7,740.0	7,754.1	7,752.0	52.8	13.6	-79.99	823.5	673.6	1,885.9	1,822.5	63.44	29.730	
10,400.0	7,740.0	7,752.2	7,750.1	54.5	13.6	-79.28	823.5	673.6	1,985.6	1,920.7	64.97	30.561	
10,500.0	7,740.0	7,750.3	7,748.1	56.1	13.6	-78.55	823.5	673.5	2,085.4	2,018.9	66.50	31.361	
10,600.0	7,740.0	7,748.3	7,746.1	57.7	13.6	-77.81	823.6	673.5	2,185.1	2,117.1	68.00	32.134	
10,700.0	7,740.0	7,746.2	7,744.1	59.4	13.6	-77.05	823.6	673.5	2,284.9	2,215.4	69.49	32.883	
10,800.0	7,740.0	7,744.1	7,742.0	61.1	13.6	-76.29	823.6	673.4	2,384.7	2,313.7	70.95	33.611	
10,900.0	7,740.0	7,742.0	7,739.8	62.7	13.6	-75.50	823.7	673.4	2,484.5	2,412.1	72.39	34.321	
11,000.0	7,740.0	7,739.8	7,737.6	64.4	13.6	-74.71	823.7	673.4	2,584.3	2,510.5	73.80	35.016	
11,100.0	7,740.0	7,737.5	7,735.4	66.1	13.6	-73.90	823.8	673.3	2,684.1	2,608.9	75.19	35.698	
11,200.0	7,740.0	7,735.2	7,733.0	67.7	13.6	-73.07	823.8	673.3	2,784.0	2,707.4	76.55	36.370	
11,300.0	7,740.0	7,732.8	7,730.7	69.4	13.6	-72.23	823.8	673.2	2,883.8	2,806.0	77.87	37.033	
11,395.3	7,740.0	7,730.4	7,728.3	71.0	13.6	-71.42	823.9	673.2	2,979.0	2,899.9	79.10	37.660	
11,400.0	7,740.0	7,730.3	7,728.2	71.1	13.6	-71.09	823.9	673.2	2,983.7	2,904.6	79.05	37.743	
11,500.0	7,740.0	7,727.8	7,725.7	72.8	13.6	-69.53	823.9	673.1	3,083.6	3,008.4	75.17	41.023	
11,584.7	7,740.0	7,725.7	7,723.6	74.2	13.6	-40.44	824.0	673.1	3,168.2	3,108.5	59.74	53.031	
11,600.0	7,740.0	7,725.3	7,723.2	74.5	13.6	-40.24	824.0	673.1	3,183.6	3,123.8	59.72	53.307	
11,700.0	7,740.0	7,500.0	7,498.4	76.2	13.2	-10.60	835.9	667.4	3,283.3	3,253.5	29.76	110.312	
11,800.0	7,740.0	7,500.0	7,498.4	77.9	13.2	-10.60	835.9	667.4	3,382.9	3,352.8	30.13	112.264	
11,900.0	7,740.0	7,500.0	7,498.4	79.6	13.2	-10.60	835.9	667.4	3,482.6	3,452.1	30.50	114.168	
12,000.0	7,740.0	7,500.0	7,498.4	81.3	13.2	-10.60	835.9	667.4	3,582.2	3,551.4	30.87	116.026	
12,100.0	7,740.0	7,465.5	7,464.0	83.0	13.1	-9.49	839.2	667.4	3,681.5	3,651.2	30.24	121.749	
12,200.0	7,740.0	7,462.7	7,461.2	84.8	13.1	-9.40	839.4	667.4	3,781.1	3,750.6	30.50	123.953	
12,300.0	7,740.0	7,459.9	7,458.4	86.5	13.1	-9.31	839.7	667.4	3,880.7	3,850.0	30.77	126.120	
12,400.0	7,740.0	7,457.2	7,455.7	88.2	13.1	-9.23	839.9	667.5	3,980.4	3,949.4	31.04	128.250	
12,500.0	7,740.0	7,454.6	7,453.1	89.9	13.1	-9.16	840.1	667.5	4,080.1	4,048.8	31.30	130.345	
12,600.0	7,740.0	7,452.1	7,450.6	91.6	13.1	-9.08	840.3	667.5	4,179.7	4,148.2	31.57	132.406	
12,700.0	7,740.0	7,449.6	7,448.2	93.3	13.1	-9.01	840.5	667.6	4,279.4	4,247.6	31.83	134.433	
12,800.0	7,740.0	7,447.3	7,445.9	95.1	13.1	-8.94	840.6	667.6	4,379.1	4,347.0	32.10	136.427	
12,900.0	7,740.0	7,445.0	7,443.6	96.8	13.1	-8.87	840.8	667.7	4,478.8	4,446.5	32.36	138.390	
13,000.0	7,740.0	7,442.8	7,441.4	98.5	13.1	-8.81	841.0	667.7	4,578.6	4,545.9	32.63	140.321	
13,100.0	7,740.0	7,440.7	7,439.2	100.2	13.1	-8.75	841.1	667.8	4,678.3	4,645.4	32.89	142.223	
13,200.0	7,740.0	7,438.6	7,437.2	102.0	13.1	-8.69	841.3	667.8	4,778.0	4,744.9	33.16	144.094	
13,300.0	7,740.0	7,436.6	7,435.2	103.7	13.1	-8.63	841.4	667.9	4,877.8	4,844.3	33.42	145.937	
13,400.0	7,740.0	7,400.0	7,398.7	105.4	13.0	-7.63	843.6	669.1	4,977.9	4,945.3	32.68	152.335	
13,500.0	7,740.0	7,400.0	7,398.7	107.2	13.0	-7.63	843.6	669.1	5,077.7	5,044.7	32.98	153.952	
13,600.0	7,740.0	7,400.0	7,398.7	108.9	13.0	-7.63	843.6	669.1	5,177.4	5,144.1	33.29	155.540	
13,700.0	7,740.0	7,400.0	7,398.7	110.6	13.0	-7.63	843.6	669.1	5,277.1	5,243.5	33.59	157.099	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-40.0	40.0	39.7	0.30	131.789		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-40.0	40.0	39.4	0.65	61.314 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	-90.61	-0.4	-40.8	40.8	39.8	1.00	40.715		
400.0	400.0	398.7	398.7	0.7	0.7	-92.29	-1.7	-43.0	43.1	41.7	1.35	31.809		
500.0	500.0	497.9	497.8	0.9	0.9	171.40	-3.9	-46.7	47.8	46.1	1.70	28.127		
600.0	600.0	596.7	596.4	1.0	1.1	169.14	-6.9	-51.9	55.9	53.9	2.05	27.281		
700.0	699.9	696.2	695.7	1.2	1.3	168.16	-9.5	-58.0	66.5	64.1	2.40	27.763		
800.0	799.7	795.5	794.8	1.4	1.5	168.64	-10.9	-64.0	78.7	76.0	2.74	28.709		
900.0	899.4	894.5	893.6	1.6	1.7	169.22	-12.3	-70.1	92.6	89.6	3.09	30.000		
1,000.0	998.9	993.3	992.2	1.8	1.9	169.81	-13.6	-76.1	108.3	104.8	3.43	31.538		
1,076.7	1,075.1	1,068.8	1,067.5	2.0	2.0	170.25	-14.6	-80.8	121.4	117.7	3.70	32.843		
1,100.0	1,098.3	1,091.8	1,090.5	2.1	2.1	170.38	-14.9	-82.2	125.5	121.8	3.78	33.236		
1,200.0	1,197.6	1,190.2	1,188.7	2.3	2.3	170.87	-16.2	-88.2	143.3	139.2	4.12	34.746		
1,300.0	1,296.9	1,288.6	1,286.9	2.6	2.5	171.25	-17.6	-94.2	161.1	156.6	4.47	36.023		
1,400.0	1,396.2	1,387.0	1,385.1	2.8	2.7	171.55	-18.9	-100.2	178.9	174.1	4.82	37.117		
1,500.0	1,495.5	1,485.4	1,483.3	3.1	2.9	171.80	-20.2	-106.3	196.7	191.5	5.17	38.066		
1,600.0	1,594.8	1,583.8	1,581.5	3.3	3.1	172.00	-21.6	-112.3	214.5	209.0	5.51	38.895		
1,700.0	1,694.1	1,682.2	1,679.7	3.6	3.3	172.18	-22.9	-118.3	232.3	226.4	5.86	39.627		
1,800.0	1,793.4	1,780.6	1,777.9	3.9	3.5	172.33	-24.2	-124.3	250.1	243.9	6.21	40.278		
1,900.0	1,892.7	1,879.0	1,876.1	4.1	3.7	172.46	-25.5	-130.4	267.9	261.4	6.56	40.860		
2,000.0	1,992.0	1,977.4	1,974.3	4.4	3.9	172.57	-26.9	-136.4	285.7	278.8	6.90	41.384		
2,100.0	2,091.3	2,075.8	2,072.5	4.7	4.1	172.67	-28.2	-142.4	303.5	296.3	7.25	41.858		
2,200.0	2,190.6	2,174.2	2,170.7	4.9	4.3	172.76	-29.5	-148.4	321.4	313.8	7.60	42.288		
2,300.0	2,289.9	2,272.6	2,268.9	5.2	4.5	172.84	-30.8	-154.4	339.2	331.2	7.95	42.681		
2,400.0	2,389.2	2,371.0	2,367.1	5.5	4.7	172.92	-32.2	-160.5	357.0	348.7	8.29	43.042		
2,500.0	2,488.5	2,469.4	2,465.3	5.7	4.9	172.98	-33.5	-166.5	374.8	366.2	8.64	43.373		
2,600.0	2,587.8	2,567.8	2,563.5	6.0	5.1	173.04	-34.8	-172.5	392.6	383.6	8.99	43.679		
2,700.0	2,687.1	2,666.2	2,661.8	6.3	5.3	173.10	-36.1	-178.5	410.4	401.1	9.34	43.963		
2,800.0	2,786.4	2,764.6	2,760.0	6.5	5.5	173.14	-37.5	-184.6	428.2	418.6	9.68	44.226		
2,900.0	2,885.7	2,863.0	2,858.2	6.8	5.7	173.19	-38.8	-190.6	446.1	436.0	10.03	44.471		
3,000.0	2,985.0	2,961.4	2,956.4	7.1	5.9	173.23	-40.1	-196.6	463.9	453.5	10.38	44.699		
3,100.0	3,084.3	3,059.8	3,054.6	7.3	6.1	173.27	-41.4	-202.6	481.7	471.0	10.72	44.913		
3,200.0	3,183.6	3,158.2	3,152.8	7.6	6.3	173.31	-42.8	-208.7	499.5	488.4	11.07	45.114		
3,300.0	3,282.9	3,256.6	3,251.0	7.9	6.5	173.34	-44.1	-214.7	517.3	505.9	11.42	45.302		
3,400.0	3,382.2	3,355.0	3,349.2	8.1	6.7	173.37	-45.4	-220.7	535.1	523.4	11.77	45.479		
3,500.0	3,481.5	3,453.4	3,447.4	8.4	6.9	173.40	-46.8	-226.7	552.9	540.8	12.11	45.646		
3,600.0	3,580.9	3,551.8	3,545.6	8.7	7.1	173.43	-48.1	-232.8	570.8	558.3	12.46	45.804		
3,700.0	3,680.2	3,650.2	3,643.8	9.0	7.3	173.46	-49.4	-238.8	588.6	575.8	12.81	45.953		
3,800.0	3,779.5	3,748.6	3,742.0	9.2	7.5	173.48	-50.7	-244.8	606.4	593.2	13.16	46.095		
3,900.0	3,878.8	3,847.0	3,840.2	9.5	7.7	173.50	-52.1	-250.8	624.2	610.7	13.50	46.229		
4,000.0	3,978.1	3,945.4	3,938.4	9.8	7.9	173.53	-53.4	-256.8	642.0	628.2	13.85	46.356		
4,100.0	4,077.4	4,043.8	4,036.6	10.0	8.1	173.55	-54.7	-262.9	659.8	645.6	14.20	46.477		
4,200.0	4,176.7	4,142.2	4,134.8	10.3	8.3	173.57	-56.0	-268.9	677.7	663.1	14.54	46.593		
4,300.0	4,276.0	4,240.6	4,233.1	10.6	8.5	173.58	-57.4	-274.9	695.5	680.6	14.89	46.703		
4,400.0	4,375.3	4,339.0	4,331.3	10.8	8.7	173.60	-58.7	-280.9	713.3	698.1	15.24	46.808		
4,500.0	4,474.6	4,437.4	4,429.5	11.1	8.9	173.62	-60.0	-287.0	731.1	715.5	15.59	46.908		
4,600.0	4,573.9	4,535.8	4,527.7	11.4	9.1	173.63	-61.3	-293.0	748.9	733.0	15.93	47.004		
4,700.0	4,673.2	4,634.2	4,625.9	11.7	9.3	173.65	-62.7	-299.0	766.7	750.5	16.28	47.096		
4,800.0	4,772.5	4,732.6	4,724.1	11.9	9.5	173.66	-64.0	-305.0	784.6	767.9	16.63	47.184		
4,900.0	4,871.8	4,831.0	4,822.3	12.2	9.7	173.68	-65.3	-311.1	802.4	785.4	16.97	47.269		
5,000.0	4,971.1	4,929.4	4,920.5	12.5	10.0	173.69	-66.7	-317.1	820.2	802.9	17.32	47.350		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	5,070.4	5,027.8	5,018.7	12.7	10.2	173.70	-68.0	-323.1	838.0	820.3	17.67	47.428	
5,200.0	5,169.7	5,126.2	5,116.9	13.0	10.4	173.72	-69.3	-329.1	855.8	837.8	18.02	47.503	
5,300.0	5,269.0	5,224.6	5,215.1	13.3	10.6	173.73	-70.6	-335.2	873.6	855.3	18.36	47.575	
5,400.0	5,368.3	5,323.0	5,313.3	13.5	10.8	173.74	-72.0	-341.2	891.5	872.8	18.71	47.644	
5,500.0	5,467.6	5,421.4	5,411.5	13.8	11.0	173.75	-73.3	-347.2	909.3	890.2	19.06	47.711	
5,600.0	5,566.9	5,519.8	5,509.7	14.1	11.2	173.76	-74.6	-353.2	927.1	907.7	19.41	47.776	
5,700.0	5,666.2	5,618.2	5,607.9	14.4	11.4	173.77	-75.9	-359.3	944.9	925.2	19.75	47.838	
5,800.0	5,765.5	5,716.6	5,706.1	14.6	11.6	173.78	-77.3	-365.3	962.7	942.6	20.10	47.898	
5,900.0	5,864.8	5,815.0	5,804.4	14.9	11.8	173.79	-78.6	-371.3	980.6	960.1	20.45	47.956	
6,000.0	5,964.1	5,913.4	5,902.6	15.2	12.0	173.80	-79.9	-377.3	998.4	977.6	20.79	48.012	
6,100.0	6,063.4	6,011.8	6,000.8	15.4	12.2	173.81	-81.2	-383.3	1,016.2	995.0	21.14	48.067	
6,200.0	6,162.7	6,110.2	6,099.0	15.7	12.4	173.81	-82.6	-389.4	1,034.0	1,012.5	21.49	48.119	
6,300.0	6,262.0	6,208.6	6,197.2	16.0	12.6	173.82	-83.9	-395.4	1,051.8	1,030.0	21.84	48.170	
6,400.0	6,361.3	6,307.0	6,295.4	16.2	12.8	173.83	-85.2	-401.4	1,069.6	1,047.5	22.18	48.219	
6,500.0	6,460.7	6,405.4	6,393.6	16.5	13.0	173.84	-86.5	-407.4	1,087.5	1,064.9	22.53	48.267	
6,600.0	6,560.0	6,503.8	6,491.8	16.8	13.2	173.85	-87.9	-413.5	1,105.3	1,082.4	22.88	48.313	
6,700.0	6,659.3	6,602.2	6,590.0	17.1	13.4	173.85	-89.2	-419.5	1,123.1	1,099.9	23.22	48.358	
6,800.0	6,758.6	6,700.6	6,688.2	17.3	13.6	173.86	-90.5	-425.5	1,140.9	1,117.3	23.57	48.402	
6,900.0	6,857.9	6,799.0	6,786.4	17.6	13.8	173.87	-91.9	-431.5	1,158.7	1,134.8	23.92	48.444	
7,000.0	6,957.2	6,897.4	6,884.6	17.9	14.0	173.87	-93.2	-437.6	1,176.5	1,152.3	24.27	48.485	
7,100.0	7,056.5	6,995.8	6,982.8	18.1	14.2	173.88	-94.5	-443.6	1,194.4	1,169.7	24.61	48.525	
7,200.0	7,155.8	7,094.2	7,081.0	18.4	14.4	173.88	-95.8	-449.6	1,212.2	1,187.2	24.96	48.564	
7,210.0	7,165.7	7,104.0	7,090.9	18.4	14.4	173.89	-96.0	-450.2	1,214.0	1,189.0	25.00	48.568	
7,250.0	7,205.4	7,143.3	7,130.1	18.5	14.5	-153.90	-96.5	-452.6	1,221.1	1,196.0	25.12	48.611	
7,300.0	7,254.8	7,193.9	7,180.6	18.7	14.6	-129.09	-96.8	-455.7	1,230.1	1,204.9	25.28	48.660	
7,350.0	7,303.5	7,247.7	7,234.2	18.8	14.7	-116.63	-93.1	-459.0	1,239.0	1,213.6	25.44	48.708	
7,400.0	7,351.2	7,302.3	7,287.9	18.9	14.8	-109.59	-84.3	-462.3	1,247.8	1,222.2	25.60	48.744	
7,450.0	7,397.6	7,357.5	7,341.2	19.0	14.9	-105.06	-70.1	-465.6	1,256.2	1,230.4	25.77	48.752	
7,500.0	7,442.2	7,413.5	7,393.5	19.2	15.0	-101.88	-50.6	-468.8	1,264.3	1,238.3	25.96	48.708	
7,550.0	7,484.8	7,470.2	7,444.3	19.3	15.1	-99.50	-25.7	-471.9	1,271.9	1,245.8	26.17	48.594	
7,600.0	7,525.0	7,527.4	7,492.9	19.5	15.2	-97.62	4.4	-474.9	1,279.1	1,252.7	26.44	48.370	
7,650.0	7,562.4	7,585.3	7,538.7	19.6	15.3	-96.10	39.6	-477.7	1,285.8	1,259.0	26.77	48.034	
7,700.0	7,596.9	7,643.6	7,581.0	19.8	15.5	-94.84	79.6	-480.3	1,291.8	1,264.6	27.16	47.556	
7,750.0	7,628.2	7,702.4	7,619.4	20.0	15.7	-93.78	124.0	-482.6	1,297.2	1,269.5	27.65	46.922	
7,800.0	7,656.0	7,761.4	7,653.1	20.3	16.0	-92.88	172.4	-484.7	1,301.9	1,273.7	28.23	46.120	
7,850.0	7,680.1	7,820.7	7,681.8	20.5	16.3	-92.12	224.2	-486.5	1,305.8	1,276.9	28.91	45.166	
7,900.0	7,700.3	7,879.9	7,705.0	20.8	16.7	-91.48	278.7	-487.9	1,309.0	1,279.3	29.70	44.078	
7,950.0	7,716.5	7,939.1	7,722.5	21.1	17.1	-90.94	335.2	-488.9	1,311.4	1,280.8	30.58	42.879	
8,000.0	7,728.5	7,998.1	7,734.0	21.5	17.6	-90.52	393.0	-489.7	1,313.0	1,281.4	31.56	41.602	
8,050.0	7,736.3	8,056.7	7,739.5	21.9	18.1	-90.19	451.3	-490.0	1,313.8	1,281.1	32.62	40.274	
8,100.0	7,739.8	8,110.2	7,740.0	22.2	18.6	-90.00	504.8	-490.0	1,313.8	1,280.1	33.70	38.988	
8,115.3	7,740.0	8,125.5	7,740.0	22.4	18.8	-90.00	520.1	-490.0	1,313.6	1,279.6	34.03	38.602	
8,200.0	7,740.0	8,210.2	7,740.0	23.1	19.7	-90.00	604.8	-490.0	1,312.9	1,276.9	35.99	36.482	
8,300.0	7,740.0	8,310.2	7,740.0	24.1	20.8	-90.00	704.8	-490.0	1,312.0	1,273.6	38.47	34.103	
8,400.0	7,740.0	8,410.2	7,740.0	25.2	22.1	-90.00	804.8	-490.0	1,311.2	1,270.1	41.11	31.896	
8,500.0	7,740.0	8,510.2	7,740.0	26.3	23.3	-90.00	904.8	-490.0	1,310.3	1,266.4	43.86	29.871	
8,600.0	7,740.0	8,610.2	7,740.0	27.5	24.7	-90.00	1,004.8	-490.0	1,309.4	1,262.7	46.72	28.025	
8,700.0	7,740.0	8,710.2	7,740.0	28.7	26.1	-90.00	1,104.8	-490.0	1,308.5	1,258.9	49.66	26.348	
8,800.0	7,740.0	8,810.2	7,740.0	30.0	27.5	-90.00	1,204.8	-490.0	1,307.7	1,255.0	52.67	24.825	
8,900.0	7,740.0	8,910.2	7,740.0	31.4	29.0	-90.00	1,304.8	-490.0	1,306.8	1,251.1	55.74	23.443	
9,000.0	7,740.0	9,010.2	7,740.0	32.8	30.5	-90.00	1,404.8	-490.0	1,305.9	1,247.1	58.86	22.186	
9,100.0	7,740.0	9,110.2	7,740.0	34.2	32.0	-90.00	1,504.7	-490.0	1,305.1	1,243.0	62.02	21.042	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,200.0	7,740.0	9,210.2	7,740.0	35.6	33.6	-90.00	1,604.7	-490.0	1,304.2	1,239.0	65.22	19.997	
9,300.0	7,740.0	9,310.1	7,740.0	37.1	35.2	-90.00	1,704.7	-490.0	1,303.3	1,234.9	68.44	19.042	
9,400.0	7,740.0	9,410.1	7,740.0	38.6	36.7	-90.00	1,804.7	-490.0	1,302.4	1,230.7	71.70	18.166	
9,500.0	7,740.0	9,510.1	7,740.0	40.1	38.3	-90.00	1,904.7	-490.0	1,301.6	1,226.6	74.97	17.361	
9,600.0	7,740.0	9,610.1	7,740.0	41.7	40.0	-90.00	2,004.7	-490.0	1,300.7	1,222.4	78.27	16.619	
9,700.0	7,740.0	9,710.1	7,740.0	43.2	41.6	-90.00	2,104.7	-490.0	1,299.8	1,218.2	81.58	15.933	
9,800.0	7,740.0	9,810.1	7,740.0	44.8	43.2	-90.00	2,204.7	-490.0	1,298.9	1,214.0	84.91	15.298	
9,900.0	7,740.0	9,910.1	7,740.0	46.4	44.9	-90.00	2,304.7	-490.0	1,298.1	1,209.8	88.25	14.709	
10,000.0	7,740.0	10,010.1	7,740.0	48.0	46.5	-90.00	2,404.7	-490.0	1,297.2	1,205.6	91.61	14.160	
10,100.0	7,740.0	10,110.1	7,740.0	49.6	48.2	-90.00	2,504.7	-490.0	1,296.3	1,201.3	94.97	13.649	
10,200.0	7,740.0	10,210.1	7,740.0	51.2	49.8	-90.00	2,604.7	-490.0	1,295.4	1,197.1	98.35	13.172	
10,300.0	7,740.0	10,310.1	7,740.0	52.8	51.5	-90.00	2,704.7	-490.0	1,294.6	1,192.8	101.74	12.725	
10,400.0	7,740.0	10,410.1	7,740.0	54.5	53.2	-90.00	2,804.7	-490.0	1,293.7	1,188.6	105.13	12.306	
10,500.0	7,740.0	10,510.1	7,740.0	56.1	54.9	-90.00	2,904.7	-490.0	1,292.8	1,184.3	108.53	11.912	
10,600.0	7,740.0	10,610.1	7,740.0	57.7	56.6	-90.00	3,004.7	-490.0	1,292.0	1,180.0	111.94	11.542	
10,700.0	7,740.0	10,710.1	7,740.0	59.4	58.2	-90.00	3,104.7	-490.0	1,291.1	1,175.7	115.35	11.193	
10,800.0	7,740.0	10,810.1	7,740.0	61.1	59.9	-90.00	3,204.7	-490.0	1,290.2	1,171.4	118.77	10.863	
10,900.0	7,740.0	10,910.1	7,740.0	62.7	61.6	-90.00	3,304.7	-490.0	1,289.3	1,167.1	122.19	10.552	
11,000.0	7,740.0	11,010.1	7,740.0	64.4	63.3	-90.00	3,404.7	-490.0	1,288.5	1,162.8	125.62	10.257	
11,100.0	7,740.0	11,105.4	7,740.0	66.1	65.0	-90.00	3,500.0	-490.0	1,287.6	1,158.6	128.97	9.984	
11,158.5	7,740.0	11,157.0	7,740.0	67.0	65.8	-90.00	3,551.6	-490.2	1,287.4	1,156.5	130.87	9.837	
11,200.0	7,740.0	11,191.0	7,740.0	67.7	66.4	-90.00	3,585.6	-490.7	1,287.5	1,155.3	132.16	9.742	
11,300.0	7,740.0	11,290.8	7,740.0	69.4	68.1	-90.00	3,685.4	-492.1	1,288.1	1,152.5	135.60	9.499	
11,395.3	7,740.0	11,386.2	7,740.0	71.0	69.8	-90.00	3,780.7	-493.6	1,288.7	1,149.8	138.88	9.279	
11,400.0	7,740.0	11,390.8	7,740.0	71.1	69.8	-90.00	3,785.4	-493.6	1,288.7	1,149.7	139.05	9.268	
11,500.0	7,740.0	11,490.8	7,740.0	72.8	71.6	-90.00	3,885.4	-495.1	1,290.3	1,147.7	142.59	9.049	
11,584.7	7,740.0	11,575.5	7,740.0	74.2	73.0	-90.00	3,970.0	-496.4	1,293.0	1,147.5	145.57	8.883	
11,600.0	7,740.0	11,590.8	7,740.0	74.5	73.3	-90.00	3,985.3	-496.6	1,293.6	1,147.5	146.09	8.855	
11,700.0	7,740.0	11,690.7	7,740.0	76.2	75.0	-90.00	4,085.2	-498.1	1,297.5	1,148.0	149.54	8.677	
11,800.0	7,740.0	11,790.6	7,740.0	77.9	76.7	-90.00	4,185.1	-499.6	1,301.5	1,148.5	153.00	8.507	
11,900.0	7,740.0	11,890.5	7,740.0	79.6	78.4	-90.00	4,285.1	-501.1	1,305.4	1,148.9	156.45	8.344	
12,000.0	7,740.0	11,990.5	7,740.0	81.3	80.1	-90.00	4,385.0	-502.6	1,309.3	1,149.4	159.91	8.188	
12,100.0	7,740.0	12,090.4	7,740.0	83.0	81.9	-90.00	4,484.9	-504.1	1,313.2	1,149.9	163.37	8.039	
12,200.0	7,740.0	12,190.3	7,740.0	84.8	83.6	-90.00	4,584.8	-505.6	1,317.2	1,150.3	166.83	7.895	
12,300.0	7,740.0	12,290.2	7,740.0	86.5	85.3	-90.00	4,684.7	-507.1	1,321.1	1,150.8	170.29	7.758	
12,400.0	7,740.0	12,390.2	7,740.0	88.2	87.0	-90.00	4,784.6	-508.6	1,325.0	1,151.3	173.76	7.626	
12,500.0	7,740.0	12,490.1	7,740.0	89.9	88.8	-90.00	4,884.5	-510.1	1,328.9	1,151.7	177.23	7.499	
12,600.0	7,740.0	12,590.0	7,740.0	91.6	90.5	-90.00	4,984.4	-511.6	1,332.9	1,152.2	180.69	7.376	
12,700.0	7,740.0	12,689.9	7,740.0	93.3	92.2	-90.00	5,084.3	-513.0	1,336.8	1,152.6	184.16	7.259	
12,800.0	7,740.0	12,789.8	7,740.0	95.1	94.0	-90.00	5,184.3	-514.5	1,340.7	1,153.1	187.63	7.145	
12,900.0	7,740.0	12,889.8	7,740.0	96.8	95.7	-90.00	5,284.2	-516.0	1,344.6	1,153.5	191.11	7.036	
13,000.0	7,740.0	12,989.7	7,740.0	98.5	97.4	-90.00	5,384.1	-517.5	1,348.6	1,154.0	194.58	6.931	
13,100.0	7,740.0	13,089.6	7,740.0	100.2	99.2	-90.00	5,484.0	-519.0	1,352.5	1,154.4	198.05	6.829	
13,200.0	7,740.0	13,189.5	7,740.0	102.0	100.9	-90.00	5,583.9	-520.5	1,356.4	1,154.9	201.53	6.731	
13,300.0	7,740.0	13,289.5	7,740.0	103.7	102.6	-90.00	5,683.8	-522.0	1,360.3	1,155.3	205.01	6.636	
13,400.0	7,740.0	13,389.4	7,740.0	105.4	104.4	-90.00	5,783.7	-523.5	1,364.3	1,155.8	208.48	6.544	
13,500.0	7,740.0	13,489.3	7,740.0	107.2	106.1	-90.00	5,883.6	-525.0	1,368.2	1,156.2	211.96	6.455	
13,600.0	7,740.0	13,589.2	7,740.0	108.9	107.8	-90.00	5,983.6	-526.5	1,372.1	1,156.7	215.44	6.369	
13,700.0	7,740.0	13,689.2	7,740.0	110.6	109.6	-90.00	6,083.5	-528.0	1,376.0	1,157.1	218.92	6.286	
13,800.0	7,740.0	13,789.1	7,740.0	112.3	111.3	-90.00	6,183.4	-529.5	1,380.0	1,157.6	222.40	6.205	
13,900.0	7,740.0	13,889.0	7,740.0	114.1	113.0	-90.00	6,283.3	-531.0	1,383.9	1,158.0	225.89	6.127	
14,000.0	7,740.0	13,988.9	7,740.0	115.8	114.8	-90.00	6,383.2	-532.5	1,387.8	1,158.4	229.37	6.051	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
							+N/-S (ft)	+E/-W (ft)									
14,100.0	7,740.0	14,088.8	7,740.0	117.5	116.5	-90.00	6,483.1	-533.9	1,391.7	1,158.9	232.85	5.977					
14,200.0	7,740.0	14,188.8	7,740.0	119.3	118.3	-90.00	6,583.0	-535.4	1,395.7	1,159.3	236.34	5.905					
14,300.0	7,740.0	14,288.7	7,740.0	121.0	120.0	-90.00	6,682.9	-536.9	1,399.6	1,159.8	239.82	5.836					
14,400.0	7,740.0	14,388.6	7,740.0	122.8	121.7	-90.00	6,782.8	-538.4	1,403.5	1,160.2	243.30	5.769					
14,500.0	7,740.0	14,488.5	7,740.0	124.5	123.5	-90.00	6,882.8	-539.9	1,407.4	1,160.7	246.79	5.703					
14,600.0	7,740.0	14,588.5	7,740.0	126.2	125.2	-90.00	6,982.7	-541.4	1,411.4	1,161.1	250.28	5.639					
14,696.1	7,740.0	14,682.3	7,740.0	127.9	126.8	-90.00	7,076.5	-542.8	1,415.1	1,161.5	253.59	5.580 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-29.9	29.9	29.6	0.30	98.612		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-29.9	29.9	29.3	0.65	45.878		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-29.9	29.9	28.9	1.00	29.893 CC, ES		
400.0	400.0	399.7	399.7	0.7	0.7	-91.25	-0.7	-30.5	30.5	29.2	1.35	22.592		
500.0	500.0	499.2	499.2	0.9	0.9	171.50	-2.7	-32.2	33.2	31.5	1.70	19.493		
600.0	600.0	598.6	598.4	1.0	1.0	167.50	-6.0	-34.9	38.9	36.8	2.05	18.939		
700.0	699.9	698.9	698.7	1.2	1.2	164.87	-9.5	-37.7	46.4	44.0	2.41	19.277		
800.0	799.7	799.4	799.1	1.4	1.4	164.32	-11.9	-39.0	54.0	51.3	2.76	19.595		
900.0	899.4	899.7	899.4	1.6	1.6	165.04	-13.2	-39.0	61.9	58.8	3.11	19.917		
1,000.0	998.9	999.2	999.0	1.8	1.7	166.08	-14.3	-38.8	71.1	67.7	3.46	20.576		
1,076.7	1,075.1	1,075.4	1,075.2	2.0	1.9	166.90	-15.2	-38.6	79.3	75.6	3.72	21.313		
1,100.0	1,098.3	1,098.6	1,098.3	2.1	1.9	167.15	-15.5	-38.5	82.0	78.2	3.80	21.553		
1,200.0	1,197.6	1,198.0	1,197.7	2.3	2.1	168.05	-16.6	-38.2	93.4	89.3	4.16	22.477		
1,300.0	1,296.9	1,297.3	1,297.0	2.6	2.3	168.75	-17.7	-38.0	104.8	100.3	4.51	23.263		
1,400.0	1,396.2	1,396.6	1,396.3	2.8	2.4	169.32	-18.8	-37.7	116.3	111.4	4.86	23.939		
1,500.0	1,495.5	1,496.0	1,495.7	3.1	2.6	169.78	-19.9	-37.4	127.7	122.5	5.21	24.527		
1,600.0	1,594.8	1,595.3	1,595.0	3.3	2.8	170.17	-21.1	-37.2	139.2	133.6	5.56	25.042		
1,700.0	1,694.1	1,694.7	1,694.3	3.6	3.0	170.50	-22.2	-36.9	150.7	144.8	5.91	25.498		
1,800.0	1,793.4	1,794.0	1,793.7	3.9	3.1	170.78	-23.3	-36.7	162.1	155.9	6.26	25.904		
1,900.0	1,892.7	1,893.3	1,893.0	4.1	3.3	171.02	-24.4	-36.4	173.6	167.0	6.61	26.267		
2,000.0	1,992.0	1,992.7	1,992.3	4.4	3.5	171.24	-25.5	-36.1	185.1	178.1	6.96	26.594		
2,100.0	2,091.3	2,092.0	2,091.6	4.7	3.7	171.43	-26.7	-35.9	196.6	189.3	7.31	26.891		
2,200.0	2,190.6	2,191.3	2,191.0	4.9	3.8	171.60	-27.8	-35.6	208.0	200.4	7.66	27.161		
2,300.0	2,289.9	2,290.7	2,290.3	5.2	4.0	171.75	-28.9	-35.3	219.5	211.5	8.01	27.408		
2,400.0	2,389.2	2,390.0	2,389.6	5.5	4.2	171.88	-30.0	-35.1	231.0	222.6	8.36	27.634		
2,500.0	2,488.5	2,489.4	2,489.0	5.7	4.4	172.01	-31.1	-34.8	242.5	233.8	8.71	27.842		
2,600.0	2,587.8	2,588.7	2,588.3	6.0	4.5	172.12	-32.3	-34.6	254.0	244.9	9.06	28.034		
2,700.0	2,687.1	2,688.0	2,687.6	6.3	4.7	172.22	-33.4	-34.3	265.5	256.1	9.41	28.213		
2,800.0	2,786.4	2,787.4	2,787.0	6.5	4.9	172.31	-34.5	-34.0	276.9	267.2	9.76	28.378		
2,900.0	2,885.7	2,886.7	2,886.3	6.8	5.1	172.40	-35.6	-33.8	288.4	278.3	10.11	28.532		
3,000.0	2,985.0	2,986.0	2,985.6	7.1	5.2	172.48	-36.7	-33.5	299.9	289.5	10.46	28.676		
3,100.0	3,084.3	3,085.4	3,084.9	7.3	5.4	172.55	-37.9	-33.2	311.4	300.6	10.81	28.811		
3,200.0	3,183.6	3,184.7	3,184.3	7.6	5.6	172.62	-39.0	-33.0	322.9	311.7	11.16	28.938		
3,300.0	3,282.9	3,284.1	3,283.6	7.9	5.8	172.69	-40.1	-32.7	334.4	322.9	11.51	29.056		
3,400.0	3,382.2	3,383.4	3,382.9	8.1	5.9	172.75	-41.2	-32.5	345.9	334.0	11.86	29.168		
3,500.0	3,481.5	3,482.7	3,482.3	8.4	6.1	172.80	-42.3	-32.2	357.4	345.2	12.21	29.274		
3,600.0	3,580.9	3,582.1	3,581.6	8.7	6.3	172.85	-43.5	-31.9	368.9	356.3	12.56	29.373		
3,700.0	3,680.2	3,681.4	3,680.9	9.0	6.5	172.90	-44.6	-31.7	380.3	367.4	12.91	29.467		
3,800.0	3,779.5	3,780.7	3,780.3	9.2	6.6	172.95	-45.7	-31.4	391.8	378.6	13.26	29.557		
3,900.0	3,878.8	3,880.1	3,879.6	9.5	6.8	172.99	-46.8	-31.1	403.3	389.7	13.61	29.641		
4,000.0	3,978.1	3,979.4	3,978.9	9.8	7.0	173.03	-47.9	-30.9	414.8	400.9	13.96	29.722		
4,100.0	4,077.4	4,078.8	4,078.3	10.0	7.1	173.07	-49.1	-30.6	426.3	412.0	14.31	29.799		
4,200.0	4,176.7	4,178.1	4,177.6	10.3	7.3	173.11	-50.2	-30.3	437.8	423.1	14.66	29.871		
4,300.0	4,276.0	4,277.4	4,276.9	10.6	7.5	173.14	-51.3	-30.1	449.3	434.3	15.01	29.941		
4,400.0	4,375.3	4,376.8	4,376.2	10.8	7.7	173.18	-52.4	-29.8	460.8	445.4	15.36	30.008		
4,500.0	4,474.6	4,476.1	4,475.6	11.1	7.8	173.21	-53.5	-29.6	472.3	456.6	15.71	30.071		
4,600.0	4,573.9	4,575.4	4,574.9	11.4	8.0	173.24	-54.7	-29.3	483.8	467.7	16.05	30.132		
4,700.0	4,673.2	4,674.8	4,674.2	11.7	8.2	173.27	-55.8	-29.0	495.3	478.9	16.40	30.190		
4,800.0	4,772.5	4,774.1	4,773.6	11.9	8.4	173.30	-56.9	-28.8	506.7	490.0	16.75	30.246		
4,900.0	4,871.8	4,873.4	4,872.9	12.2	8.5	173.32	-58.0	-28.5	518.2	501.1	17.10	30.299		
5,000.0	4,971.1	4,972.8	4,972.2	12.5	8.7	173.35	-59.1	-28.2	529.7	512.3	17.45	30.350		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,070.4	5,072.1	5,071.6	12.7	8.9	173.37	-60.3	-28.0	541.2	523.4	17.80	30.400	
5,200.0	5,169.7	5,171.5	5,170.9	13.0	9.1	173.39	-61.4	-27.7	552.7	534.6	18.15	30.447	
5,300.0	5,269.0	5,270.8	5,270.2	13.3	9.2	173.42	-62.5	-27.5	564.2	545.7	18.50	30.493	
5,400.0	5,368.3	5,370.1	5,369.6	13.5	9.4	173.44	-63.6	-27.2	575.7	556.9	18.85	30.537	
5,500.0	5,467.6	5,469.5	5,468.9	13.8	9.6	173.46	-64.7	-26.9	587.2	568.0	19.20	30.579	
5,600.0	5,566.9	5,568.8	5,568.2	14.1	9.8	173.48	-65.9	-26.7	598.7	579.1	19.55	30.620	
5,700.0	5,666.2	5,668.1	5,667.5	14.4	9.9	173.50	-67.0	-26.4	610.2	590.3	19.90	30.660	
5,800.0	5,765.5	5,767.5	5,766.9	14.6	10.1	173.51	-68.1	-26.1	621.7	601.4	20.25	30.698	
5,900.0	5,864.8	5,866.8	5,866.2	14.9	10.3	173.53	-69.2	-25.9	633.2	612.6	20.60	30.734	
6,000.0	5,964.1	5,966.2	5,965.5	15.2	10.5	173.55	-70.3	-25.6	644.7	623.7	20.95	30.770	
6,100.0	6,063.4	6,065.5	6,064.9	15.4	10.6	173.57	-71.4	-25.4	656.2	634.9	21.30	30.804	
6,200.0	6,162.7	6,164.8	6,164.2	15.7	10.8	173.58	-72.6	-25.1	667.6	646.0	21.65	30.838	
6,300.0	6,262.0	6,264.2	6,263.5	16.0	11.0	173.60	-73.7	-24.8	679.1	657.1	22.00	30.870	
6,400.0	6,361.3	6,363.5	6,362.9	16.2	11.2	173.61	-74.8	-24.6	690.6	668.3	22.35	30.901	
6,500.0	6,460.7	6,462.8	6,462.2	16.5	11.3	173.63	-75.9	-24.3	702.1	679.4	22.70	30.931	
6,600.0	6,560.0	6,562.2	6,561.5	16.8	11.5	173.64	-77.0	-24.0	713.6	690.6	23.05	30.961	
6,700.0	6,659.3	6,661.5	6,660.8	17.1	11.7	173.65	-78.2	-23.8	725.1	701.7	23.40	30.989	
6,800.0	6,758.6	6,760.9	6,760.2	17.3	11.9	173.67	-79.3	-23.5	736.6	712.9	23.75	31.017	
6,900.0	6,857.9	6,860.2	6,859.5	17.6	12.0	173.68	-80.4	-23.3	748.1	724.0	24.10	31.044	
7,000.0	6,957.2	6,960.6	6,959.9	17.9	12.2	173.79	-80.2	-23.0	759.6	735.1	24.44	31.077	
7,100.0	7,056.5	7,060.2	7,058.3	18.1	12.3	174.96	-65.9	-23.0	770.9	746.2	24.73	31.173	
7,200.0	7,155.8	7,152.0	7,145.7	18.4	12.5	177.10	-37.8	-23.3	783.0	758.0	24.99	31.330	
7,210.0	7,165.7	7,160.7	7,153.6	18.4	12.5	177.35	-34.4	-23.3	784.4	759.3	25.02	31.349	
7,250.0	7,205.4	7,194.5	7,184.3	18.5	12.5	-149.57	-20.1	-23.5	789.8	764.7	25.13	31.426	
7,300.0	7,254.8	7,235.9	7,220.5	18.7	12.6	-123.55	-0.3	-23.8	797.1	771.8	25.31	31.497	
7,350.0	7,303.5	7,276.3	7,254.5	18.8	12.7	-109.88	21.7	-24.1	804.6	779.1	25.52	31.528	
7,400.0	7,351.2	7,316.0	7,286.2	18.9	12.8	-101.68	45.4	-24.4	812.3	786.6	25.78	31.514	
7,450.0	7,397.6	7,354.9	7,315.7	19.0	12.9	-96.08	70.9	-24.8	820.2	794.1	26.07	31.457	
7,500.0	7,442.2	7,393.2	7,343.0	19.2	13.0	-91.89	97.8	-25.2	828.0	801.6	26.41	31.353	
7,550.0	7,484.8	7,431.0	7,368.1	19.3	13.2	-88.57	126.0	-25.6	835.7	808.9	26.78	31.207	
7,600.0	7,525.0	7,468.3	7,390.9	19.5	13.4	-85.84	155.5	-26.1	843.2	816.0	27.17	31.030	
7,650.0	7,562.4	7,500.0	7,408.8	19.6	13.5	-83.63	181.7	-26.5	850.3	822.8	27.55	30.865	
7,700.0	7,596.9	7,541.8	7,430.1	19.8	13.8	-81.60	217.6	-27.1	857.0	829.0	28.01	30.594	
7,750.0	7,628.2	7,578.0	7,446.4	20.0	14.0	-79.95	249.9	-27.6	863.3	834.8	28.46	30.335	
7,800.0	7,656.0	7,614.0	7,460.6	20.3	14.3	-78.54	283.0	-28.1	869.0	840.1	28.91	30.054	
7,850.0	7,680.1	7,650.0	7,472.7	20.5	14.6	-77.35	316.9	-28.7	874.1	844.7	29.38	29.747	
7,900.0	7,700.3	7,685.3	7,482.4	20.8	14.9	-76.38	350.8	-29.3	878.5	848.6	29.87	29.406	
7,950.0	7,716.5	7,720.7	7,490.0	21.1	15.2	-75.60	385.4	-29.8	882.1	851.7	30.38	29.033	
8,000.0	7,728.5	7,750.0	7,494.7	21.5	15.5	-75.03	414.3	-30.3	885.1	854.2	30.86	28.682	
8,050.0	7,736.3	7,791.2	7,498.8	21.9	15.9	-74.59	455.3	-31.0	887.2	855.7	31.48	28.180	
8,100.0	7,739.8	7,827.7	7,500.0	22.2	16.3	-74.36	491.8	-31.7	888.5	856.4	32.09	27.685	
8,115.3	7,740.0	7,841.2	7,500.0	22.4	16.5	-74.33	505.2	-31.9	888.7	856.4	32.32	27.499	
8,200.0	7,740.0	7,925.8	7,500.0	23.1	17.5	-74.34	589.8	-33.4	889.4	855.2	34.23	25.986	
8,300.0	7,740.0	8,025.8	7,500.0	24.1	18.7	-74.36	689.8	-35.1	890.2	853.6	36.63	24.301	
8,400.0	7,740.0	8,125.8	7,500.0	25.2	20.1	-74.37	789.8	-36.9	891.1	851.9	39.19	22.739	
8,500.0	7,740.0	8,225.8	7,500.0	26.3	21.4	-74.39	889.8	-38.6	891.9	850.1	41.86	21.308	
8,600.0	7,740.0	8,325.8	7,500.0	27.5	22.9	-74.40	989.8	-40.4	892.8	848.1	44.63	20.005	
8,700.0	7,740.0	8,425.8	7,500.0	28.7	24.4	-74.42	1,089.7	-42.1	893.6	846.1	47.48	18.822	
8,800.0	7,740.0	8,525.8	7,500.0	30.0	25.9	-74.43	1,189.7	-43.9	894.4	844.0	50.39	17.750	
8,900.0	7,740.0	8,625.8	7,500.0	31.4	27.4	-74.45	1,289.7	-45.6	895.3	841.9	53.36	16.777	
9,000.0	7,740.0	8,725.8	7,500.0	32.8	29.0	-74.46	1,389.7	-47.3	896.1	839.7	56.38	15.894	
9,100.0	7,740.0	8,825.8	7,500.0	34.2	30.6	-74.48	1,489.7	-49.1	897.0	837.5	59.44	15.091	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,200.0	7,740.0	8,925.8	7,500.0	35.6	32.2	-74.49	1,589.6	-50.8	897.8	835.3	62.53	14.358	
9,300.0	7,740.0	9,025.8	7,500.0	37.1	33.8	-74.51	1,689.6	-52.6	898.6	833.0	65.65	13.688	
9,400.0	7,740.0	9,125.8	7,500.0	38.6	35.4	-74.52	1,789.6	-54.3	899.5	830.7	68.80	13.074	
9,500.0	7,740.0	9,212.9	7,500.0	40.1	36.9	-74.55	1,876.7	-56.5	901.0	829.3	71.77	12.555	
9,600.0	7,740.0	9,300.0	7,500.0	41.7	38.3	-74.59	1,963.7	-60.0	904.0	829.3	74.76	12.093	
9,700.0	7,740.0	9,386.3	7,500.0	43.2	39.7	-74.66	2,049.9	-64.7	908.5	830.7	77.76	11.683	
9,800.0	7,740.0	9,479.8	7,500.0	44.8	41.3	-74.75	2,143.2	-71.1	914.2	833.3	80.90	11.300	
9,900.0	7,740.0	9,579.6	7,500.0	46.4	43.0	-74.85	2,242.8	-78.0	920.1	835.9	84.16	10.932	
10,000.0	7,740.0	9,679.4	7,500.0	48.0	44.6	-74.95	2,342.3	-85.0	926.0	838.6	87.44	10.590	
10,100.0	7,740.0	9,779.2	7,500.0	49.6	46.3	-75.05	2,441.9	-92.0	931.9	841.2	90.73	10.271	
10,200.0	7,740.0	9,879.1	7,500.0	51.2	48.0	-75.15	2,541.5	-98.9	937.8	843.8	94.03	9.973	
10,300.0	7,740.0	9,978.9	7,500.0	52.8	49.7	-75.24	2,641.0	-105.9	943.7	846.4	97.34	9.695	
10,400.0	7,740.0	10,078.7	7,500.0	54.5	51.4	-75.33	2,740.6	-112.8	949.6	848.9	100.66	9.433	
10,500.0	7,740.0	10,178.5	7,500.0	56.1	53.1	-75.43	2,840.2	-119.8	955.5	851.5	104.00	9.188	
10,600.0	7,740.0	10,278.3	7,500.0	57.7	54.8	-75.52	2,939.7	-126.8	961.4	854.1	107.33	8.957	
10,700.0	7,740.0	10,378.1	7,500.0	59.4	56.5	-75.61	3,039.3	-133.7	967.3	856.6	110.68	8.740	
10,800.0	7,740.0	10,477.9	7,500.0	61.1	58.2	-75.70	3,138.9	-140.7	973.2	859.2	114.04	8.535	
10,900.0	7,740.0	10,577.7	7,500.0	62.7	59.9	-75.79	3,238.5	-147.7	979.2	861.8	117.40	8.341	
11,000.0	7,740.0	10,687.5	7,500.0	64.4	61.8	-75.88	3,348.0	-155.0	984.8	863.9	120.93	8.144	
11,100.0	7,740.0	10,807.5	7,500.0	66.1	63.9	-75.95	3,467.8	-160.9	988.7	864.1	124.63	7.933	
11,200.0	7,740.0	10,927.6	7,500.0	67.7	65.9	-75.98	3,587.9	-164.2	990.6	862.3	128.32	7.720	
11,300.0	7,740.0	11,043.6	7,500.0	69.4	67.9	-75.98	3,703.9	-165.1	990.5	858.5	131.93	7.508	
11,395.3	7,740.0	11,138.9	7,500.0	71.0	69.6	-75.97	3,799.2	-165.2	989.7	854.6	135.11	7.325	
11,400.0	7,740.0	11,143.6	7,500.0	71.1	69.7	-75.97	3,803.9	-165.2	989.7	854.4	135.28	7.316	
11,440.7	7,740.0	11,184.3	7,500.0	71.8	70.4	-75.96	3,844.5	-165.2	989.6	852.8	136.72	7.238	
11,500.0	7,740.0	11,243.6	7,500.0	72.8	71.4	-75.97	3,903.9	-165.3	989.9	851.0	138.82	7.131	
11,584.7	7,740.0	11,328.3	7,500.0	74.2	72.8	-75.99	3,988.5	-165.4	991.3	849.5	141.80	6.991	
11,600.0	7,740.0	11,343.6	7,500.0	74.5	73.1	-75.99	4,003.9	-165.4	991.7	849.4	142.32	6.968	
11,700.0	7,740.0	11,443.6	7,500.0	76.2	74.8	-76.03	4,103.8	-165.4	994.1	848.4	145.69	6.824	
11,800.0	7,740.0	11,543.5	7,500.0	77.9	76.6	-76.06	4,203.8	-165.5	996.6	847.5	149.06	6.686	
11,900.0	7,740.0	11,643.5	7,500.0	79.6	78.3	-76.10	4,303.8	-165.6	999.0	846.6	152.44	6.553	
12,000.0	7,740.0	11,743.5	7,500.0	81.3	80.0	-76.13	4,403.7	-165.7	1,001.4	845.6	155.82	6.427	
12,100.0	7,740.0	11,843.4	7,500.0	83.0	81.7	-76.16	4,503.7	-165.8	1,003.9	844.7	159.21	6.305	
12,200.0	7,740.0	11,943.4	7,500.0	84.8	83.5	-76.20	4,603.7	-165.9	1,006.3	843.7	162.60	6.189	
12,300.0	7,740.0	12,043.4	7,500.0	86.5	85.2	-76.23	4,703.6	-165.9	1,008.8	842.8	165.99	6.077	
12,400.0	7,740.0	12,143.3	7,500.0	88.2	86.9	-76.27	4,803.6	-166.0	1,011.2	841.8	169.38	5.970	
12,500.0	7,740.0	12,243.3	7,500.0	89.9	88.7	-76.30	4,903.6	-166.1	1,013.7	840.9	172.77	5.867	
12,600.0	7,740.0	12,343.3	7,500.0	91.6	90.4	-76.33	5,003.5	-166.2	1,016.1	839.9	176.17	5.768	
12,700.0	7,740.0	12,443.2	7,500.0	93.3	92.1	-76.37	5,103.5	-166.3	1,018.5	839.0	179.57	5.672	
12,800.0	7,740.0	12,543.2	7,500.0	95.1	93.9	-76.40	5,203.5	-166.3	1,021.0	838.0	182.97	5.580	
12,900.0	7,740.0	12,643.2	7,500.0	96.8	95.6	-76.43	5,303.4	-166.4	1,023.4	837.1	186.37	5.491	
13,000.0	7,740.0	12,743.1	7,500.0	98.5	97.4	-76.47	5,403.4	-166.5	1,025.9	836.1	189.78	5.406	
13,100.0	7,740.0	12,843.1	7,500.0	100.2	99.1	-76.50	5,503.4	-166.6	1,028.3	835.1	193.19	5.323	
13,200.0	7,740.0	12,943.1	7,500.0	102.0	100.8	-76.53	5,603.3	-166.7	1,030.8	834.2	196.59	5.243	
13,300.0	7,740.0	13,043.0	7,500.0	103.7	102.6	-76.56	5,703.3	-166.8	1,033.2	833.2	200.00	5.166	
13,400.0	7,740.0	13,143.0	7,500.0	105.4	104.3	-76.60	5,803.3	-166.8	1,035.6	832.2	203.42	5.091	
13,500.0	7,740.0	13,243.0	7,500.0	107.2	106.0	-76.63	5,903.3	-166.9	1,038.1	831.3	206.83	5.019	
13,600.0	7,740.0	13,343.0	7,500.0	108.9	107.8	-76.66	6,003.2	-167.0	1,040.5	830.3	210.24	4.949	
13,700.0	7,740.0	13,442.9	7,500.0	110.6	109.5	-76.69	6,103.2	-167.1	1,043.0	829.3	213.66	4.881	
13,800.0	7,740.0	13,542.9	7,500.0	112.3	111.3	-76.72	6,203.2	-167.2	1,045.4	828.3	217.08	4.816	
13,900.0	7,740.0	13,642.9	7,500.0	114.1	113.0	-76.76	6,303.1	-167.2	1,047.9	827.4	220.50	4.752	
14,000.0	7,740.0	13,742.8	7,500.0	115.8	114.8	-76.79	6,403.1	-167.3	1,050.3	826.4	223.92	4.691	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S	+E/-W	(ft)	(ft)	Axis	Factor					
14,100.0	7,740.0	13,842.8	7,500.0	117.5	116.5	-76.82	6,503.1	-167.4	1,052.8	825.4	227.34	4.631					
14,200.0	7,740.0	13,942.8	7,500.0	119.3	118.2	-76.85	6,603.0	-167.5	1,055.2	824.5	230.77	4.573					
14,300.0	7,740.0	14,042.7	7,500.0	121.0	120.0	-76.88	6,703.0	-167.6	1,057.7	823.5	234.19	4.516					
14,400.0	7,740.0	14,142.7	7,500.0	122.8	121.7	-76.91	6,803.0	-167.7	1,060.1	822.5	237.62	4.461					
14,500.0	7,740.0	14,242.7	7,500.0	124.5	123.5	-76.94	6,902.9	-167.7	1,062.6	821.5	241.04	4.408					
14,600.0	7,740.0	14,342.6	7,500.0	126.2	125.2	-76.97	7,002.9	-167.8	1,065.0	820.5	244.47	4.356					
14,696.1	7,740.0	14,422.4	7,500.0	127.9	126.6	-77.00	7,082.7	-167.9	1,067.5	820.0	247.48	4.313 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.9	19.9	19.6	0.30	65.434		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.9	19.9	19.2	0.65	30.442		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-19.9	19.9	18.9	1.00	19.835		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-19.9	19.9	18.5	1.35	14.710	CC, ES	
500.0	500.0	500.0	500.0	0.9	0.8	176.15	0.0	-19.9	20.7	19.0	1.70	12.203		
600.0	600.0	600.0	600.0	1.0	1.0	176.58	0.0	-19.9	23.4	21.3	2.05	11.402		
700.0	699.9	700.3	700.3	1.2	1.2	176.94	-0.1	-19.0	26.8	24.4	2.40	11.197		
800.0	799.7	800.8	800.7	1.4	1.4	177.06	-0.4	-16.4	30.3	27.6	2.75	11.046		
900.0	899.4	901.3	901.1	1.6	1.6	177.01	-0.9	-12.0	33.8	30.7	3.09	10.929		
1,000.0	998.9	1,001.2	1,000.9	1.8	1.7	176.98	-1.5	-6.9	38.2	34.8	3.44	11.112		
1,076.7	1,075.1	1,077.7	1,077.3	2.0	1.9	177.05	-2.0	-2.9	42.8	39.1	3.70	11.549		
1,100.0	1,098.3	1,101.0	1,100.6	2.1	1.9	177.08	-2.1	-1.7	44.3	40.5	3.79	11.708		
1,200.0	1,197.6	1,200.7	1,200.2	2.3	2.1	177.18	-2.7	3.4	51.0	46.8	4.14	12.319		
1,300.0	1,296.9	1,300.5	1,299.8	2.6	2.3	177.26	-3.4	8.6	57.6	53.1	4.49	12.836		
1,400.0	1,396.2	1,400.3	1,399.5	2.8	2.5	177.33	-4.0	13.7	64.2	59.4	4.83	13.278		
1,500.0	1,495.5	1,500.1	1,499.1	3.1	2.7	177.38	-4.6	18.9	70.8	65.6	5.18	13.660		
1,600.0	1,594.8	1,599.9	1,598.8	3.3	2.9	177.42	-5.2	24.0	77.4	71.9	5.53	13.994		
1,700.0	1,694.1	1,699.6	1,698.4	3.6	3.1	177.46	-5.8	29.2	84.1	78.2	5.88	14.289		
1,800.0	1,793.4	1,799.4	1,798.1	3.9	3.3	177.49	-6.4	34.3	90.7	84.4	6.23	14.551		
1,900.0	1,892.7	1,899.2	1,897.7	4.1	3.5	177.51	-7.0	39.5	97.3	90.7	6.58	14.784		
2,000.0	1,992.0	1,999.0	1,997.4	4.4	3.7	177.54	-7.6	44.6	103.9	97.0	6.93	14.995		
2,100.0	2,091.3	2,098.8	2,097.0	4.7	3.9	177.56	-8.2	49.7	110.5	103.3	7.28	15.185		
2,200.0	2,190.6	2,198.6	2,196.7	4.9	4.0	177.58	-8.8	54.9	117.2	109.5	7.63	15.358		
2,300.0	2,289.9	2,298.3	2,296.3	5.2	4.2	177.59	-9.4	60.0	123.8	115.8	7.98	15.515		
2,400.0	2,389.2	2,398.1	2,396.0	5.5	4.4	177.61	-10.0	65.2	130.4	122.1	8.33	15.660		
2,500.0	2,488.5	2,497.9	2,495.6	5.7	4.6	177.62	-10.6	70.3	137.0	128.3	8.68	15.792		
2,600.0	2,587.8	2,597.7	2,595.2	6.0	4.8	177.63	-11.2	75.5	143.6	134.6	9.03	15.915		
2,700.0	2,687.1	2,697.5	2,694.9	6.3	5.0	177.64	-11.8	80.6	150.3	140.9	9.37	16.028		
2,800.0	2,786.4	2,797.2	2,794.5	6.5	5.2	177.65	-12.4	85.8	156.9	147.2	9.72	16.134		
2,900.0	2,885.7	2,897.0	2,894.2	6.8	5.4	177.66	-13.1	90.9	163.5	153.4	10.07	16.232		
3,000.0	2,985.0	2,996.8	2,993.8	7.1	5.6	177.67	-13.7	96.1	170.1	159.7	10.42	16.323		
3,100.0	3,084.3	3,096.6	3,093.5	7.3	5.8	177.68	-14.3	101.2	176.7	166.0	10.77	16.409		
3,200.0	3,183.6	3,196.4	3,193.1	7.6	6.0	177.68	-14.9	106.4	183.4	172.2	11.12	16.489		
3,300.0	3,282.9	3,296.1	3,292.8	7.9	6.2	177.69	-15.5	111.5	190.0	178.5	11.47	16.564		
3,400.0	3,382.2	3,395.9	3,392.4	8.1	6.4	177.70	-16.1	116.6	196.6	184.8	11.82	16.635		
3,500.0	3,481.5	3,495.7	3,492.1	8.4	6.6	177.70	-16.7	121.8	203.2	191.0	12.17	16.702		
3,600.0	3,580.9	3,595.5	3,591.7	8.7	6.8	177.71	-17.3	126.9	209.8	197.3	12.52	16.765		
3,700.0	3,680.2	3,695.3	3,691.4	9.0	7.0	177.71	-17.9	132.1	216.5	203.6	12.87	16.824		
3,800.0	3,779.5	3,795.0	3,791.0	9.2	7.2	177.72	-18.5	137.2	223.1	209.9	13.21	16.881		
3,900.0	3,878.8	3,894.8	3,890.6	9.5	7.4	177.72	-19.1	142.4	229.7	216.1	13.56	16.934		
4,000.0	3,978.1	3,994.6	3,990.3	9.8	7.6	177.73	-19.7	147.5	236.3	222.4	13.91	16.985		
4,100.0	4,077.4	4,094.4	4,089.9	10.0	7.8	177.73	-20.3	152.7	242.9	228.7	14.26	17.033		
4,200.0	4,176.7	4,194.2	4,189.6	10.3	8.0	177.74	-20.9	157.8	249.6	234.9	14.61	17.080		
4,300.0	4,276.0	4,293.9	4,289.2	10.6	8.2	177.74	-21.5	163.0	256.2	241.2	14.96	17.123		
4,400.0	4,375.3	4,393.7	4,388.9	10.8	8.3	177.74	-22.1	168.1	262.8	247.5	15.31	17.165		
4,500.0	4,474.6	4,493.5	4,488.5	11.1	8.5	177.75	-22.8	173.2	269.4	253.8	15.66	17.205		
4,600.0	4,573.9	4,593.3	4,588.2	11.4	8.7	177.75	-23.4	178.4	276.0	260.0	16.01	17.244		
4,700.0	4,673.2	4,693.1	4,687.8	11.7	8.9	177.75	-24.0	183.5	282.7	266.3	16.36	17.280		
4,800.0	4,772.5	4,792.8	4,787.5	11.9	9.1	177.76	-24.6	188.7	289.3	272.6	16.71	17.316		
4,900.0	4,871.8	4,892.6	4,887.1	12.2	9.3	177.76	-25.2	193.8	295.9	278.8	17.06	17.349		
5,000.0	4,971.1	4,992.4	4,986.8	12.5	9.5	177.76	-25.8	199.0	302.5	285.1	17.40	17.382		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4										Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,100.0	5,070.4	5,092.2	5,086.4	12.7	9.7	177.76	-26.4	204.1	309.1	291.4	17.75	17.413	
5,200.0	5,169.7	5,192.0	5,186.0	13.0	9.9	177.77	-27.0	209.3	315.8	297.7	18.10	17.443	
5,300.0	5,269.0	5,291.8	5,285.7	13.3	10.1	177.77	-27.6	214.4	322.4	303.9	18.45	17.471	
5,400.0	5,368.3	5,391.5	5,385.3	13.5	10.3	177.77	-28.2	219.6	329.0	310.2	18.80	17.499	
5,500.0	5,467.6	5,491.3	5,485.0	13.8	10.5	177.77	-28.8	224.7	335.6	316.5	19.15	17.526	
5,600.0	5,566.9	5,591.1	5,584.6	14.1	10.7	177.77	-29.4	229.8	342.2	322.7	19.50	17.551	
5,700.0	5,666.2	5,690.9	5,684.3	14.4	10.9	177.78	-30.0	235.0	348.9	329.0	19.85	17.576	
5,800.0	5,765.5	5,790.7	5,783.9	14.6	11.1	177.78	-30.6	240.1	355.5	335.3	20.20	17.600	
5,900.0	5,864.8	5,890.4	5,883.6	14.9	11.3	177.78	-31.2	245.3	362.1	341.6	20.55	17.623	
6,000.0	5,964.1	5,990.2	5,983.2	15.2	11.5	177.78	-31.8	250.4	368.7	347.8	20.90	17.646	
6,100.0	6,063.4	6,090.0	6,082.9	15.4	11.7	177.78	-32.5	255.6	375.3	354.1	21.24	17.667	
6,200.0	6,162.7	6,189.8	6,182.5	15.7	11.9	177.79	-33.1	260.7	382.0	360.4	21.59	17.688	
6,300.0	6,262.0	6,289.6	6,282.1	16.0	12.1	177.79	-33.7	265.9	388.6	366.6	21.94	17.709	
6,400.0	6,361.3	6,389.3	6,381.8	16.2	12.3	177.79	-34.3	271.0	395.2	372.9	22.29	17.728	
6,500.0	6,460.7	6,489.1	6,481.4	16.5	12.5	177.79	-34.9	276.2	401.8	379.2	22.64	17.747	
6,600.0	6,560.0	6,588.9	6,581.1	16.8	12.7	177.79	-35.5	281.3	408.4	385.5	22.99	17.766	
6,700.0	6,659.3	6,688.7	6,680.7	17.1	12.9	177.79	-36.1	286.5	415.1	391.7	23.34	17.784	
6,800.0	6,758.6	6,788.5	6,780.4	17.3	13.1	177.79	-36.7	291.6	421.7	398.0	23.69	17.801	
6,900.0	6,857.9	6,888.2	6,880.0	17.6	13.2	177.80	-37.3	296.7	428.3	404.3	24.04	17.818	
7,000.0	6,957.2	6,988.0	6,979.7	17.9	13.4	177.80	-37.9	301.9	434.9	410.5	24.39	17.834	
7,100.0	7,056.5	7,087.8	7,079.3	18.1	13.6	177.80	-38.5	307.0	441.5	416.8	24.74	17.850	
7,200.0	7,155.8	7,187.0	7,178.4	18.4	13.8	177.82	-38.9	312.1	448.2	423.1	25.08	17.867	
7,210.0	7,165.7	7,196.6	7,188.0	18.4	13.9	177.86	-38.7	312.6	448.9	423.7	25.12	17.871	
7,250.0	7,205.4	7,234.9	7,226.1	18.5	13.9	-150.11	-36.0	314.6	451.6	426.3	25.25	17.887	
7,300.0	7,254.8	7,282.7	7,273.3	18.7	14.0	-125.39	-29.1	316.9	455.0	429.6	25.41	17.906	
7,350.0	7,303.5	7,330.3	7,319.6	18.8	14.1	-113.01	-18.4	319.1	458.5	432.9	25.59	17.917	
7,400.0	7,351.2	7,377.7	7,364.7	18.9	14.2	-106.05	-3.9	321.1	461.9	436.1	25.78	17.916	
7,450.0	7,397.6	7,425.1	7,408.4	19.0	14.3	-101.65	14.3	323.1	465.2	439.2	26.00	17.893	
7,500.0	7,442.2	7,472.4	7,450.4	19.2	14.4	-98.62	36.0	324.9	468.4	442.2	26.25	17.845	
7,550.0	7,484.8	7,519.6	7,490.4	19.3	14.5	-96.40	61.0	326.5	471.5	445.0	26.54	17.768	
7,600.0	7,525.0	7,566.7	7,528.2	19.5	14.6	-94.72	89.2	327.9	474.5	447.6	26.87	17.657	
7,650.0	7,562.4	7,613.9	7,563.5	19.6	14.8	-93.42	120.3	329.2	477.3	450.1	27.26	17.510	
7,700.0	7,596.9	7,661.0	7,596.1	19.8	15.0	-92.39	154.3	330.3	479.9	452.2	27.70	17.324	
7,750.0	7,628.2	7,708.1	7,625.8	20.0	15.2	-91.58	190.9	331.2	482.3	454.1	28.21	17.101	
7,800.0	7,656.0	7,755.3	7,652.5	20.3	15.5	-90.95	229.8	331.9	484.5	455.7	28.77	16.841	
7,850.0	7,680.1	7,802.5	7,675.9	20.5	15.8	-90.48	270.8	332.4	486.5	457.1	29.40	16.546	
7,900.0	7,700.3	7,850.0	7,695.9	20.8	16.1	-90.14	313.8	332.7	488.1	458.0	30.10	16.219	
7,950.0	7,716.5	7,897.2	7,712.2	21.1	16.5	-89.91	358.0	332.7	489.6	458.7	30.85	15.866	
8,000.0	7,728.5	7,944.6	7,724.9	21.5	16.9	-89.81	403.7	332.6	490.7	459.0	31.68	15.491	
8,050.0	7,736.3	7,992.2	7,733.8	21.9	17.3	-89.80	450.5	332.2	491.6	459.0	32.55	15.099	
8,100.0	7,739.8	8,039.9	7,738.8	22.2	17.8	-89.90	497.9	331.7	492.1	458.6	33.49	14.696	
8,115.3	7,740.0	8,054.6	7,739.6	22.4	18.0	-89.95	512.5	331.4	492.2	458.5	33.78	14.572	
8,200.0	7,740.0	8,138.2	7,740.0	23.1	18.9	-90.00	596.2	330.0	493.0	457.2	35.74	13.795	
8,300.0	7,740.0	8,238.2	7,740.0	24.1	20.0	-90.00	696.2	328.3	493.8	455.6	38.21	12.924	
8,400.0	7,740.0	8,338.2	7,740.0	25.2	21.3	-90.00	796.1	326.5	494.7	453.9	40.84	12.114	
8,500.0	7,740.0	8,438.2	7,740.0	26.3	22.6	-90.00	896.1	324.8	495.6	452.0	43.59	11.369	
8,600.0	7,740.0	8,538.2	7,740.0	27.5	24.0	-90.00	996.1	323.0	496.4	450.0	46.44	10.689	
8,700.0	7,740.0	8,638.2	7,740.0	28.7	25.4	-90.00	1,096.1	321.3	497.3	447.9	49.38	10.071	
8,800.0	7,740.0	8,738.2	7,740.0	30.0	26.9	-90.00	1,196.1	319.5	498.2	445.8	52.39	9.509	
8,900.0	7,740.0	8,838.2	7,740.0	31.4	28.3	-90.00	1,296.0	317.8	499.1	443.6	55.46	8.999	
9,000.0	7,740.0	8,938.2	7,740.0	32.8	29.9	-90.00	1,396.0	316.0	499.9	441.4	58.57	8.535	
9,100.0	7,740.0	9,038.2	7,740.0	34.2	31.4	-90.00	1,496.0	314.3	500.8	439.1	61.73	8.112	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,200.0	7,740.0	9,138.2	7,740.0	35.6	33.0	-90.00	1,596.0	312.6	501.7	436.8	64.93	7.727	
9,300.0	7,740.0	9,238.2	7,740.0	37.1	34.6	-90.00	1,696.0	310.8	502.6	434.4	68.15	7.374	
9,400.0	7,740.0	9,338.2	7,740.0	38.6	36.2	-90.00	1,796.0	309.1	503.4	432.0	71.41	7.050	
9,500.0	7,740.0	9,438.2	7,740.0	40.1	37.8	-90.00	1,895.9	307.3	504.3	429.6	74.68	6.753	
9,600.0	7,740.0	9,538.2	7,740.0	41.7	39.4	-90.00	1,995.9	305.6	505.2	427.2	77.98	6.478	
9,700.0	7,740.0	9,638.2	7,740.0	43.2	41.0	-90.00	2,095.9	303.8	506.0	424.8	81.29	6.225	
9,800.0	7,740.0	9,738.2	7,740.0	44.8	42.7	-90.00	2,195.9	302.1	506.9	422.3	84.62	5.990	
9,900.0	7,740.0	9,838.2	7,740.0	46.4	44.3	-90.00	2,295.9	300.3	507.8	419.8	87.96	5.773	
10,000.0	7,740.0	9,938.2	7,740.0	48.0	46.0	-90.00	2,395.8	298.6	508.7	417.3	91.32	5.570	
10,100.0	7,740.0	10,038.2	7,740.0	49.6	47.7	-90.00	2,495.8	296.8	509.5	414.8	94.69	5.381	
10,200.0	7,740.0	10,138.2	7,740.0	51.2	49.3	-90.00	2,595.8	295.1	510.4	412.3	98.06	5.205	
10,300.0	7,740.0	10,238.2	7,740.0	52.8	51.0	-90.00	2,695.8	293.4	511.3	409.8	101.45	5.040	
10,400.0	7,740.0	10,338.2	7,740.0	54.5	52.7	-90.00	2,795.8	291.6	512.2	407.3	104.84	4.885	
10,500.0	7,740.0	10,438.2	7,740.0	56.1	54.4	-90.00	2,895.7	289.9	513.0	404.8	108.24	4.740	
10,600.0	7,740.0	10,538.2	7,740.0	57.7	56.1	-90.00	2,995.7	288.1	513.9	402.2	111.65	4.603	
10,700.0	7,740.0	10,638.2	7,740.0	59.4	57.8	-90.00	3,095.7	286.4	514.8	399.7	115.07	4.474	
10,800.0	7,740.0	10,738.2	7,740.0	61.1	59.5	-90.00	3,195.7	284.6	515.6	397.2	118.48	4.352	
10,900.0	7,740.0	10,838.1	7,740.0	62.7	61.2	-90.00	3,295.7	282.9	516.5	394.6	121.91	4.237	
11,000.0	7,740.0	10,938.1	7,740.0	64.4	62.9	-90.00	3,395.6	281.1	517.4	392.0	125.34	4.128	
11,100.0	7,740.0	11,038.1	7,740.0	66.1	64.6	-90.00	3,495.6	279.4	518.3	389.5	128.77	4.025	
11,200.0	7,740.0	11,138.1	7,740.0	67.7	66.3	-90.00	3,595.6	277.7	519.1	386.9	132.21	3.927	
11,300.0	7,740.0	11,238.1	7,740.0	69.4	68.0	-90.00	3,695.6	275.9	520.0	384.4	135.65	3.833	
11,395.3	7,740.0	11,333.5	7,740.0	71.0	69.7	-90.00	3,790.9	274.2	520.8	381.9	138.93	3.749	
11,400.0	7,740.0	11,338.1	7,740.0	71.1	69.7	-90.00	3,795.6	274.2	520.9	381.8	139.11	3.744	
11,500.0	7,740.0	11,438.1	7,740.0	72.8	71.4	-90.00	3,895.5	272.4	522.7	379.8	142.88	3.658	
11,584.7	7,740.0	11,522.7	7,740.0	74.2	72.9	-90.00	3,980.2	270.9	525.6	379.6	146.03	3.599	
11,600.0	7,740.0	11,538.0	7,740.0	74.5	73.2	-90.00	3,995.5	270.7	526.3	379.7	146.56	3.591	
11,700.0	7,740.0	11,638.0	7,740.0	76.2	74.9	-90.00	4,095.4	268.9	530.4	380.4	150.01	3.536	
11,800.0	7,740.0	11,737.9	7,740.0	77.9	76.6	-90.00	4,195.3	267.2	534.6	381.1	153.47	3.484	
11,900.0	7,740.0	11,837.8	7,740.0	79.6	78.3	-90.00	4,295.2	265.4	538.8	381.9	156.92	3.433	
12,000.0	7,740.0	11,937.7	7,740.0	81.3	80.1	-90.00	4,395.0	263.7	543.0	382.6	160.38	3.385	
12,100.0	7,740.0	12,037.6	7,740.0	83.0	81.8	-90.00	4,494.9	262.0	547.1	383.3	163.84	3.339	
12,200.0	7,740.0	12,137.5	7,740.0	84.8	83.5	-90.00	4,594.8	260.2	551.3	384.0	167.30	3.295	
12,300.0	7,740.0	12,237.4	7,740.0	86.5	85.2	-90.00	4,694.7	258.5	555.5	384.7	170.77	3.253	
12,400.0	7,740.0	12,337.3	7,740.0	88.2	87.0	-90.00	4,794.6	256.7	559.7	385.4	174.23	3.212	
12,500.0	7,740.0	12,437.3	7,740.0	89.9	88.7	-90.00	4,894.5	255.0	563.8	386.1	177.70	3.173	
12,600.0	7,740.0	12,537.2	7,740.0	91.6	90.4	-90.00	4,994.4	253.2	568.0	386.8	181.17	3.135	
12,700.0	7,740.0	12,637.1	7,740.0	93.3	92.1	-90.00	5,094.3	251.5	572.2	387.6	184.64	3.099	
12,800.0	7,740.0	12,737.0	7,740.0	95.1	93.9	-90.00	5,194.2	249.7	576.4	388.3	188.11	3.064	
12,900.0	7,740.0	12,836.9	7,740.0	96.8	95.6	-90.00	5,294.1	248.0	580.5	389.0	191.58	3.030	
13,000.0	7,740.0	12,936.8	7,740.0	98.5	97.3	-90.00	5,394.0	246.3	584.7	389.7	195.06	2.998	
13,100.0	7,740.0	13,036.7	7,740.0	100.2	99.1	-90.00	5,493.9	244.5	588.9	390.4	198.53	2.966	
13,200.0	7,740.0	13,136.6	7,740.0	102.0	100.8	-90.00	5,593.8	242.8	593.1	391.1	202.01	2.936	
13,300.0	7,740.0	13,236.6	7,740.0	103.7	102.5	-90.00	5,693.7	241.0	597.2	391.8	205.48	2.907	
13,400.0	7,740.0	13,336.5	7,740.0	105.4	104.3	-90.00	5,793.6	239.3	601.4	392.5	208.96	2.878	
13,500.0	7,740.0	13,436.4	7,740.0	107.2	106.0	-90.00	5,893.5	237.5	605.6	393.2	212.44	2.851	
13,600.0	7,740.0	13,536.3	7,740.0	108.9	107.8	-90.00	5,993.4	235.8	609.8	393.9	215.92	2.824	
13,700.0	7,740.0	13,636.2	7,740.0	110.6	109.5	-90.00	6,093.3	234.1	614.0	394.6	219.40	2.798	
13,800.0	7,740.0	13,736.1	7,740.0	112.3	111.2	-90.00	6,193.2	232.3	618.1	395.2	222.88	2.773	
13,900.0	7,740.0	13,836.0	7,740.0	114.1	113.0	-90.00	6,293.1	230.6	622.3	395.9	226.36	2.749	
14,000.0	7,740.0	13,936.0	7,740.0	115.8	114.7	-90.00	6,393.0	228.8	626.5	396.6	229.85	2.726	
14,100.0	7,740.0	14,035.9	7,740.0	117.5	116.4	-90.00	6,492.9	227.1	630.7	397.3	233.33	2.703	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4					Offset Site Error:		0.0 ft
Survey Program: 0-Geolink MWD																Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)								
14,200.0	7,740.0	14,129.9	7,740.0	119.3	118.1	-90.00	6,586.9	225.2	635.1	398.4	236.71	2.683						
14,300.0	7,740.0	14,219.7	7,740.0	121.0	119.6	-90.00	6,676.6	222.1	641.0	401.0	240.02	2.671						
14,400.0	7,740.0	14,309.3	7,740.0	122.8	121.2	-90.00	6,766.2	217.6	648.5	405.1	243.32	2.665						
14,500.0	7,740.0	14,405.6	7,740.0	124.5	122.9	-90.00	6,862.3	211.6	657.1	410.4	246.74	2.663						
14,600.0	7,740.0	14,505.3	7,740.0	126.2	124.6	-90.00	6,961.7	205.3	665.8	415.6	250.22	2.661						
14,696.1	7,740.0	14,601.0	7,740.0	127.9	126.3	-90.00	7,057.2	199.2	674.2	420.7	253.56	2.659 SF						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-10.1	10.1	9.8	0.30	33.178		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-10.1	10.1	9.4	0.65	15.436		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-10.1	10.1	9.1	1.00	10.057		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-10.1	10.1	8.7	1.35	7.459 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	176.31	0.0	-10.1	10.9	9.2	1.70	6.440		
600.0	600.0	600.2	600.2	1.0	1.0	176.65	-0.1	-9.2	12.7	10.6	2.05	6.194		
700.0	699.9	700.4	700.4	1.2	1.2	176.62	-0.4	-6.6	14.4	12.0	2.40	6.022		
800.0	799.7	800.7	800.5	1.4	1.4	176.34	-0.9	-2.2	16.2	13.4	2.75	5.894		
900.0	899.4	900.9	900.6	1.6	1.6	175.88	-1.6	3.9	17.9	14.8	3.09	5.796		
1,000.0	998.9	1,001.3	1,000.6	1.8	1.8	175.29	-2.4	11.7	19.7	16.2	3.44	5.719		
1,076.7	1,075.1	1,078.0	1,077.0	2.0	1.9	174.86	-3.2	18.6	21.3	17.6	3.71	5.733		
1,100.0	1,098.3	1,101.3	1,100.3	2.1	2.0	174.77	-3.5	20.8	21.9	18.1	3.79	5.772		
1,200.0	1,197.6	1,201.3	1,199.8	2.3	2.2	174.44	-4.5	29.9	24.5	20.4	4.14	5.922		
1,300.0	1,296.9	1,301.2	1,299.3	2.6	2.4	174.18	-5.5	39.0	27.2	22.7	4.50	6.048		
1,400.0	1,396.2	1,401.2	1,398.9	2.8	2.7	173.96	-6.5	48.1	29.8	25.0	4.85	6.156		
1,500.0	1,495.5	1,501.2	1,498.4	3.1	2.9	173.78	-7.5	57.2	32.5	27.3	5.20	6.249		
1,600.0	1,594.8	1,601.1	1,598.0	3.3	3.1	173.63	-8.6	66.3	35.2	29.6	5.55	6.330		
1,700.0	1,694.1	1,701.1	1,697.5	3.6	3.3	173.50	-9.6	75.5	37.8	31.9	5.91	6.401		
1,800.0	1,793.4	1,801.1	1,797.1	3.9	3.6	173.38	-10.6	84.6	40.5	34.2	6.26	6.464		
1,900.0	1,892.7	1,901.0	1,896.6	4.1	3.8	173.28	-11.6	93.7	43.1	36.5	6.61	6.521		
2,000.0	1,992.0	2,001.0	1,996.1	4.4	4.0	173.19	-12.7	102.8	45.8	38.8	6.97	6.571		
2,100.0	2,091.3	2,101.0	2,095.7	4.7	4.3	173.11	-13.7	111.9	48.4	41.1	7.32	6.617		
2,200.0	2,190.6	2,200.9	2,195.2	4.9	4.5	173.04	-14.7	121.0	51.1	43.4	7.67	6.658		
2,300.0	2,289.9	2,300.9	2,294.8	5.2	4.7	172.98	-15.7	130.2	53.7	45.7	8.03	6.695		
2,400.0	2,389.2	2,400.9	2,394.3	5.5	5.0	172.92	-16.7	139.3	56.4	48.0	8.38	6.730		
2,500.0	2,488.5	2,500.8	2,493.9	5.7	5.2	172.87	-17.8	148.4	59.0	50.3	8.73	6.761		
2,600.0	2,587.8	2,600.8	2,593.4	6.0	5.4	172.82	-18.8	157.5	61.7	52.6	9.09	6.790		
2,700.0	2,687.1	2,700.7	2,692.9	6.3	5.7	172.77	-19.8	166.6	64.4	54.9	9.44	6.817		
2,800.0	2,786.4	2,800.7	2,792.5	6.5	5.9	172.73	-20.8	175.7	67.0	57.2	9.79	6.842		
2,900.0	2,885.7	2,900.7	2,892.0	6.8	6.1	172.70	-21.8	184.9	69.7	59.5	10.15	6.865		
3,000.0	2,985.0	3,000.6	2,991.6	7.1	6.4	172.66	-22.9	194.0	72.3	61.8	10.50	6.886		
3,100.0	3,084.3	3,100.6	3,091.1	7.3	6.6	172.63	-23.9	203.1	75.0	64.1	10.86	6.907		
3,200.0	3,183.6	3,200.6	3,190.7	7.6	6.8	172.60	-24.9	212.2	77.6	66.4	11.21	6.925		
3,300.0	3,282.9	3,300.5	3,290.2	7.9	7.1	172.57	-25.9	221.3	80.3	68.7	11.56	6.943		
3,400.0	3,382.2	3,400.5	3,389.7	8.1	7.3	172.54	-27.0	230.4	82.9	71.0	11.92	6.960		
3,500.0	3,481.5	3,500.5	3,489.3	8.4	7.6	172.52	-28.0	239.5	85.6	73.3	12.27	6.975		
3,600.0	3,580.9	3,600.4	3,588.8	8.7	7.8	172.50	-29.0	248.7	88.3	75.6	12.63	6.990		
3,700.0	3,680.2	3,700.4	3,688.4	9.0	8.0	172.48	-30.0	257.8	90.9	77.9	12.98	7.004		
3,800.0	3,779.5	3,800.4	3,787.9	9.2	8.3	172.45	-31.0	266.9	93.6	80.2	13.33	7.017		
3,900.0	3,878.8	3,900.3	3,887.5	9.5	8.5	172.44	-32.1	276.0	96.2	82.5	13.69	7.030		
4,000.0	3,978.1	4,000.3	3,987.0	9.8	8.7	172.42	-33.1	285.1	98.9	84.8	14.04	7.041		
4,100.0	4,077.4	4,100.3	4,086.5	10.0	9.0	172.40	-34.1	294.2	101.5	87.1	14.40	7.053		
4,200.0	4,176.7	4,200.2	4,186.1	10.3	9.2	172.38	-35.1	303.4	104.2	89.4	14.75	7.063		
4,300.0	4,276.0	4,300.2	4,285.6	10.6	9.4	172.37	-36.1	312.5	106.9	91.7	15.11	7.074		
4,400.0	4,375.3	4,400.1	4,385.2	10.8	9.7	172.35	-37.2	321.6	109.5	94.0	15.46	7.083		
4,500.0	4,474.6	4,500.1	4,484.7	11.1	9.9	172.34	-38.2	330.7	112.2	96.3	15.81	7.093		
4,600.0	4,573.9	4,600.1	4,584.3	11.4	10.2	172.32	-39.2	339.8	114.8	98.7	16.17	7.102		
4,700.0	4,673.2	4,700.0	4,683.8	11.7	10.4	172.31	-40.2	348.9	117.5	101.0	16.52	7.110		
4,800.0	4,772.5	4,800.0	4,783.3	11.9	10.6	172.30	-41.3	358.0	120.1	103.3	16.88	7.118		
4,900.0	4,871.8	4,900.0	4,882.9	12.2	10.9	172.29	-42.3	367.2	122.8	105.6	17.23	7.126		
5,000.0	4,971.1	4,999.9	4,982.4	12.5	11.1	172.28	-43.3	376.3	125.4	107.9	17.59	7.133		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						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	5,070.4	5,099.9	5,082.0	12.7	11.3	172.26	-44.3	385.4	128.1	110.2	17.94	7.141	
5,200.0	5,169.7	5,199.9	5,181.5	13.0	11.6	172.25	-45.3	394.5	130.8	112.5	18.29	7.148	
5,300.0	5,269.0	5,299.8	5,281.1	13.3	11.8	172.24	-46.4	403.6	133.4	114.8	18.65	7.154	
5,400.0	5,368.3	5,399.8	5,380.6	13.5	12.0	172.23	-47.4	412.7	136.1	117.1	19.00	7.161	
5,500.0	5,467.6	5,499.8	5,480.1	13.8	12.3	172.22	-48.4	421.9	138.7	119.4	19.36	7.167	
5,600.0	5,566.9	5,599.7	5,579.7	14.1	12.5	172.22	-49.4	431.0	141.4	121.7	19.71	7.173	
5,700.0	5,666.2	5,699.7	5,679.2	14.4	12.8	172.21	-50.5	440.1	144.0	124.0	20.07	7.178	
5,800.0	5,765.5	5,799.7	5,778.8	14.6	13.0	172.20	-51.5	449.2	146.7	126.3	20.42	7.184	
5,900.0	5,864.8	5,899.6	5,878.3	14.9	13.2	172.19	-52.5	458.3	149.3	128.6	20.77	7.189	
6,000.0	5,964.1	5,999.6	5,977.9	15.2	13.5	172.18	-53.5	467.4	152.0	130.9	21.13	7.194	
6,100.0	6,063.4	6,099.5	6,077.4	15.4	13.7	172.18	-54.5	476.6	154.7	133.2	21.48	7.199	
6,200.0	6,162.7	6,199.5	6,176.9	15.7	13.9	172.17	-55.6	485.7	157.3	135.5	21.84	7.204	
6,300.0	6,262.0	6,299.5	6,276.5	16.0	14.2	172.16	-56.6	494.8	160.0	137.8	22.19	7.209	
6,400.0	6,361.3	6,399.4	6,376.0	16.2	14.4	172.15	-57.6	503.9	162.6	140.1	22.55	7.213	
6,500.0	6,460.7	6,499.4	6,475.6	16.5	14.7	172.15	-58.6	513.0	165.3	142.4	22.90	7.218	
6,600.0	6,560.0	6,599.4	6,575.1	16.8	14.9	172.14	-59.6	522.1	167.9	144.7	23.25	7.222	
6,700.0	6,659.3	6,699.3	6,674.7	17.1	15.1	172.14	-60.7	531.2	170.6	147.0	23.61	7.226	
6,800.0	6,758.6	6,799.3	6,774.2	17.3	15.4	172.13	-61.7	540.4	173.3	149.3	23.96	7.230	
6,900.0	6,857.9	6,899.3	6,873.7	17.6	15.6	172.12	-62.7	549.5	175.9	151.6	24.32	7.234	
7,000.0	6,957.2	7,000.3	6,974.3	17.9	15.8	172.83	-61.5	558.7	178.4	153.8	24.62	7.245	
7,100.0	7,056.5	7,099.5	7,071.6	18.1	16.0	178.27	-45.3	567.8	180.7	156.0	24.77	7.297	
7,200.0	7,155.8	7,190.4	7,157.1	18.4	16.2	-172.45	-15.9	575.9	187.4	162.0	25.38	7.383	
7,210.0	7,165.7	7,200.0	7,165.9	18.4	16.3	-171.27	-12.0	576.8	188.5	163.0	25.49	7.395	
7,250.0	7,205.4	7,232.3	7,194.8	18.5	16.3	-135.32	2.2	579.6	193.9	167.9	26.03	7.450	
7,300.0	7,254.8	7,273.1	7,230.1	18.7	16.4	-105.94	22.4	583.0	202.1	175.2	26.92	7.506	
7,350.0	7,303.5	7,313.0	7,263.1	18.8	16.6	-89.35	44.6	586.3	211.4	183.6	27.84	7.594	
7,400.0	7,351.2	7,350.0	7,292.2	18.9	16.7	-78.83	67.1	589.2	221.5	192.8	28.64	7.732	
7,450.0	7,397.6	7,390.5	7,322.4	19.0	16.8	-70.98	93.9	592.3	231.9	202.6	29.38	7.895	
7,500.0	7,442.2	7,428.3	7,348.8	19.2	16.9	-65.08	120.8	595.0	242.5	212.6	29.88	8.116	
7,550.0	7,484.8	7,465.5	7,373.0	19.3	17.1	-60.36	148.9	597.5	253.0	222.8	30.17	8.385	
7,600.0	7,525.0	7,500.0	7,393.8	19.5	17.3	-56.61	176.4	599.7	263.1	232.9	30.22	8.707	
7,650.0	7,562.4	7,538.5	7,415.0	19.6	17.5	-53.33	208.4	601.9	272.7	242.5	30.11	9.055	
7,700.0	7,596.9	7,574.4	7,432.8	19.8	17.7	-50.68	239.5	603.9	281.6	251.8	29.80	9.449	
7,750.0	7,628.2	7,610.0	7,448.5	20.0	17.9	-48.47	271.4	605.7	289.8	260.4	29.34	9.876	
7,800.0	7,656.0	7,650.0	7,463.8	20.3	18.2	-46.51	308.3	607.5	297.1	268.3	28.79	10.321	
7,850.0	7,680.1	7,680.4	7,473.7	20.5	18.4	-45.11	337.1	608.7	303.4	275.3	28.09	10.800	
7,900.0	7,700.3	7,715.3	7,483.1	20.8	18.6	-43.88	370.7	609.9	308.8	281.4	27.38	11.276	
7,950.0	7,716.5	7,750.0	7,490.4	21.1	18.9	-42.90	404.5	610.9	313.1	286.4	26.67	11.741	
8,000.0	7,728.5	7,784.7	7,495.7	21.5	19.2	-42.16	438.8	611.7	316.3	290.3	25.99	12.170	
8,050.0	7,736.3	7,819.2	7,498.9	21.9	19.5	-41.63	473.2	612.4	318.4	293.0	25.39	12.542	
8,100.0	7,739.8	7,853.7	7,500.0	22.2	19.8	-41.32	507.7	612.9	319.3	294.4	24.89	12.831	
8,115.3	7,740.0	7,868.4	7,500.0	22.4	20.0	-41.26	522.3	613.0	319.3	294.5	24.80	12.878	
8,200.0	7,740.0	7,953.0	7,500.0	23.1	20.8	-41.04	607.0	613.9	318.2	292.2	26.08	12.202	
8,300.0	7,740.0	8,053.0	7,500.0	24.1	21.9	-40.78	706.9	615.0	317.0	289.3	27.67	11.455	
8,400.0	7,740.0	8,153.0	7,500.0	25.2	23.1	-40.52	806.9	616.0	315.7	286.4	29.33	10.764	
8,500.0	7,740.0	8,253.0	7,500.0	26.3	24.3	-40.25	906.9	617.0	314.5	283.4	31.04	10.131	
8,600.0	7,740.0	8,353.0	7,500.0	27.5	25.7	-39.98	1,006.9	618.1	313.3	280.5	32.79	9.553	
8,700.0	7,740.0	8,453.0	7,500.0	28.7	27.0	-39.71	1,106.9	619.1	312.0	277.5	34.57	9.026	
8,800.0	7,740.0	8,552.9	7,500.0	30.0	28.4	-39.44	1,206.8	620.2	310.8	274.4	36.36	8.547	
8,900.0	7,740.0	8,652.9	7,500.0	31.4	29.8	-39.17	1,306.8	621.2	309.6	271.4	38.17	8.111	
9,000.0	7,740.0	8,752.9	7,500.0	32.8	31.3	-38.89	1,406.8	622.3	308.4	268.4	39.98	7.713	
9,100.0	7,740.0	8,852.9	7,500.0	34.2	32.8	-38.61	1,506.8	623.3	307.2	265.4	41.79	7.351	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4										Offset Site Error: 0.0 ft			
Survey Program: O-Geolink MWD										Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,200.0	7,740.0	8,952.9	7,500.0	35.6	34.3	-38.33	1,606.7	624.4	306.0	262.4	43.59	7.019	
9,300.0	7,740.0	9,052.8	7,500.0	37.1	35.9	-38.05	1,706.7	625.4	304.8	259.4	45.39	6.715	
9,400.0	7,740.0	9,152.8	7,500.0	38.6	37.4	-37.76	1,806.7	626.5	303.6	256.4	47.18	6.435	
9,500.0	7,740.0	9,252.8	7,500.0	40.1	39.0	-37.48	1,906.7	627.5	302.4	253.5	48.95	6.178	
9,600.0	7,740.0	9,352.8	7,500.0	41.7	40.6	-37.19	2,006.6	628.6	301.3	250.6	50.71	5.941	
9,700.0	7,740.0	9,452.8	7,500.0	43.2	42.2	-36.89	2,106.6	629.6	300.1	247.7	52.44	5.723	
9,800.0	7,740.0	9,552.7	7,500.0	44.8	43.8	-36.60	2,206.6	630.7	299.0	244.8	54.16	5.520	
9,900.0	7,740.0	9,652.7	7,500.0	46.4	45.5	-36.30	2,306.6	631.7	297.8	242.0	55.86	5.332	
10,000.0	7,740.0	9,752.7	7,500.0	48.0	47.1	-36.00	2,406.5	632.8	296.7	239.2	57.53	5.157	
10,100.0	7,740.0	9,852.7	7,500.0	49.6	48.7	-35.70	2,506.5	633.8	295.6	236.4	59.18	4.994	
10,200.0	7,740.0	9,952.7	7,500.0	51.2	50.4	-35.40	2,606.5	634.8	294.5	233.7	60.80	4.843	
10,300.0	7,740.0	10,052.5	7,500.0	52.8	52.0	-35.10	2,706.3	635.9	293.3	230.9	62.40	4.701	
10,400.0	7,740.0	10,149.6	7,500.0	54.5	53.6	-34.95	2,803.4	636.0	292.8	228.7	64.14	4.565	
10,406.8	7,740.0	10,156.2	7,500.0	54.6	53.8	-34.95	2,810.0	635.9	292.8	228.5	64.27	4.556	
10,500.0	7,740.0	10,246.8	7,500.0	56.1	55.3	-35.06	2,900.6	634.4	293.2	227.0	66.23	4.427	
10,600.0	7,740.0	10,343.9	7,500.0	57.7	56.9	-35.44	2,997.6	631.2	294.6	225.9	68.70	4.289	
10,700.0	7,740.0	10,440.9	7,500.0	59.4	58.5	-36.06	3,094.5	626.4	297.0	225.5	71.56	4.151	
10,800.0	7,740.0	10,537.7	7,500.0	61.1	60.1	-36.93	3,191.1	619.9	300.5	225.7	74.82	4.016	
10,900.0	7,740.0	10,634.3	7,500.0	62.7	61.7	-38.02	3,287.3	611.8	305.1	226.6	78.49	3.887	
11,000.0	7,740.0	10,730.6	7,500.0	64.4	63.3	-39.31	3,383.2	602.1	310.8	228.3	82.54	3.766	
11,100.0	7,740.0	10,826.6	7,500.0	66.1	64.8	-40.76	3,478.5	590.9	317.8	230.9	86.93	3.656	
11,200.0	7,740.0	10,922.9	7,500.0	67.7	66.4	-42.37	3,573.9	578.1	326.1	234.5	91.65	3.558	
11,300.0	7,740.0	11,022.0	7,500.0	69.4	68.1	-44.01	3,672.1	564.3	335.1	238.5	96.55	3.471	
11,395.3	7,740.0	11,116.6	7,500.0	71.0	69.6	-45.50	3,765.7	551.1	343.9	242.7	101.17	3.399	
11,400.0	7,740.0	11,121.2	7,500.0	71.1	69.7	-45.56	3,770.3	550.5	344.3	242.9	101.40	3.396	
11,500.0	7,740.0	11,220.2	7,500.0	72.8	71.4	-47.07	3,868.3	536.7	354.5	248.0	106.54	3.327	
11,584.7	7,740.0	11,306.2	7,500.0	74.2	72.8	-48.43	3,953.6	524.9	364.2	253.1	111.09	3.278	
11,600.0	7,740.0	11,322.1	7,500.0	74.5	73.1	-48.68	3,969.3	522.9	365.9	254.0	111.89	3.271	
11,700.0	7,740.0	11,426.3	7,500.0	76.2	74.8	-50.19	4,072.7	510.5	376.8	259.9	116.92	3.223	
11,800.0	7,740.0	11,530.9	7,500.0	77.9	76.6	-51.43	4,176.8	500.0	386.5	264.9	121.60	3.179	
11,900.0	7,740.0	11,636.0	7,500.0	79.6	78.4	-52.45	4,281.6	491.3	395.0	269.0	125.99	3.135	
12,000.0	7,740.0	11,741.4	7,500.0	81.3	80.2	-53.26	4,386.8	484.6	402.0	271.9	130.10	3.090	
12,100.0	7,740.0	11,847.2	7,500.0	83.0	82.0	-53.88	4,492.5	479.7	407.6	273.7	133.96	3.043	
12,200.0	7,740.0	11,953.2	7,500.0	84.8	83.8	-54.33	4,598.5	476.8	411.8	274.2	137.57	2.993	
12,300.0	7,740.0	12,059.4	7,500.0	86.5	85.7	-54.61	4,704.6	475.9	414.5	273.6	140.94	2.941	
12,400.0	7,740.0	12,165.7	7,500.0	88.2	87.5	-54.73	4,810.9	477.0	415.7	271.6	144.07	2.885	
12,500.0	7,740.0	12,265.9	7,500.0	89.9	89.2	-54.77	4,911.1	478.9	416.1	269.1	146.98	2.831	
12,600.0	7,740.0	12,365.9	7,500.0	91.6	91.0	-54.81	5,011.1	480.9	416.4	266.6	149.89	2.778	
12,700.0	7,740.0	12,465.9	7,500.0	93.3	92.7	-54.84	5,111.0	482.9	416.8	264.0	152.80	2.728	
12,800.0	7,740.0	12,565.9	7,500.0	95.1	94.4	-54.88	5,211.0	484.8	417.2	261.5	155.71	2.679	
12,900.0	7,740.0	12,665.9	7,500.0	96.8	96.2	-54.92	5,311.0	486.8	417.6	258.9	158.63	2.632	
13,000.0	7,740.0	12,765.9	7,500.0	98.5	97.9	-54.95	5,411.0	488.8	417.9	256.4	161.55	2.587	
13,100.0	7,740.0	12,865.9	7,500.0	100.2	99.6	-54.99	5,511.0	490.8	418.3	253.8	164.47	2.543	
13,200.0	7,740.0	12,965.9	7,500.0	102.0	101.4	-55.03	5,610.9	492.7	418.7	251.3	167.40	2.501	
13,300.0	7,740.0	13,065.9	7,500.0	103.7	103.1	-55.06	5,710.9	494.7	419.1	248.7	170.33	2.460	
13,400.0	7,740.0	13,165.9	7,500.0	105.4	104.9	-55.10	5,810.9	496.7	419.5	246.2	173.26	2.421	
13,500.0	7,740.0	13,265.9	7,500.0	107.2	106.6	-55.13	5,910.9	498.7	419.8	243.6	176.20	2.383	
13,600.0	7,740.0	13,365.9	7,500.0	108.9	108.3	-55.17	6,010.9	500.6	420.2	241.1	179.14	2.346	
13,700.0	7,740.0	13,465.9	7,500.0	110.6	110.1	-55.21	6,110.8	502.6	420.6	238.5	182.08	2.310	
13,800.0	7,740.0	13,565.9	7,500.0	112.3	111.8	-55.24	6,210.8	504.6	421.0	235.9	185.02	2.275	
13,900.0	7,740.0	13,665.9	7,500.0	114.1	113.5	-55.28	6,310.8	506.5	421.3	233.4	187.97	2.241	
14,000.0	7,740.0	13,765.9	7,500.0	115.8	115.3	-55.31	6,410.8	508.5	421.7	230.8	190.92	2.209	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,100.0	7,740.0	13,865.9	7,500.0	117.5	117.0	-55.35	6,510.8	510.5	422.1	228.2	193.88	2.177		
14,200.0	7,740.0	13,965.9	7,500.0	119.3	118.8	-55.38	6,610.7	512.5	422.5	225.6	196.83	2.146		
14,300.0	7,740.0	14,065.9	7,500.0	121.0	120.5	-55.42	6,710.7	514.4	422.8	223.1	199.79	2.116		
14,400.0	7,740.0	14,165.9	7,500.0	122.8	122.3	-55.45	6,810.7	516.4	423.2	220.5	202.75	2.087		
14,500.0	7,740.0	14,265.9	7,500.0	124.5	124.0	-55.49	6,910.7	518.4	423.6	217.9	205.72	2.059		
14,600.0	7,740.0	14,365.9	7,500.0	126.2	125.7	-55.52	7,010.6	520.3	424.0	215.3	208.69	2.032		
14,696.1	7,740.0	14,455.0	7,500.0	127.9	127.3	-55.56	7,099.8	522.1	424.4	213.0	211.43	2.007 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3													Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	92.07	-0.4	10.1	10.1							
100.0	100.0	100.0	100.0	0.2	0.2	92.07	-0.4	10.1	10.1	9.8	0.30	33.199				
200.0	200.0	200.0	200.0	0.3	0.3	92.07	-0.4	10.1	10.1	9.4	0.65	15.446				
300.0	300.0	300.0	300.0	0.5	0.5	92.07	-0.4	10.1	10.1	9.1	1.00	10.064	CC, ES			
400.0	400.0	399.8	399.8	0.7	0.7	91.28	-0.2	10.9	10.9	9.6	1.35	8.097				
500.0	500.0	499.6	499.6	0.9	0.9	-4.79	0.1	13.5	12.7	11.0	1.70	7.449				
600.0	600.0	599.3	599.2	1.0	1.0	-7.80	0.7	17.8	14.4	12.3	2.05	7.027				
700.0	699.9	699.1	698.7	1.2	1.2	-11.42	1.5	23.8	16.2	13.8	2.40	6.752				
800.0	799.7	798.7	798.1	1.4	1.4	-15.44	2.6	31.6	18.1	15.3	2.75	6.581				
900.0	899.4	898.4	897.3	1.6	1.7	-19.68	3.9	41.0	20.1	17.0	3.10	6.486				
1,000.0	998.9	998.0	996.3	1.8	1.9	-24.00	5.5	52.1	22.3	18.9	3.47	6.445				
1,076.7	1,075.1	1,074.3	1,071.9	2.0	2.1	-27.30	6.8	61.8	24.2	20.5	3.76	6.438				
1,100.0	1,098.3	1,097.5	1,095.0	2.1	2.2	-28.24	7.2	65.0	24.9	21.0	3.85	6.450				
1,200.0	1,197.6	1,197.0	1,193.3	2.3	2.5	-31.06	9.2	79.5	28.7	24.4	4.25	6.739				
1,300.0	1,296.9	1,296.3	1,291.3	2.6	2.8	-32.14	11.5	95.7	34.2	29.5	4.66	7.335				
1,400.0	1,396.2	1,395.5	1,388.8	2.8	3.1	-32.07	13.9	113.5	41.3	36.2	5.05	8.167				
1,500.0	1,495.5	1,495.0	1,486.4	3.1	3.5	-31.52	16.6	132.6	49.5	44.1	5.44	9.098				
1,600.0	1,594.8	1,594.6	1,584.2	3.3	3.9	-31.12	19.2	151.7	57.9	52.0	5.84	9.910				
1,700.0	1,694.1	1,694.3	1,681.9	3.6	4.2	-30.81	21.9	170.9	66.2	59.9	6.23	10.618				
1,800.0	1,793.4	1,793.9	1,779.7	3.9	4.6	-30.58	24.5	190.0	74.5	67.9	6.63	11.240				
1,900.0	1,892.7	1,893.6	1,877.5	4.1	5.0	-30.39	27.2	209.2	82.8	75.8	7.02	11.790				
2,000.0	1,992.0	1,993.2	1,975.2	4.4	5.3	-30.24	29.8	228.4	91.1	83.7	7.42	12.281				
2,100.0	2,091.3	2,092.9	2,073.0	4.7	5.7	-30.11	32.5	247.5	99.4	91.6	7.82	12.722				
2,200.0	2,190.6	2,192.5	2,170.7	4.9	6.1	-30.00	35.1	266.7	107.8	99.5	8.21	13.119				
2,300.0	2,289.9	2,292.2	2,268.5	5.2	6.5	-29.91	37.8	285.8	116.1	107.5	8.61	13.478				
2,400.0	2,389.2	2,391.9	2,366.3	5.5	6.8	-29.83	40.4	305.0	124.4	115.4	9.01	13.806				
2,500.0	2,488.5	2,491.5	2,464.0	5.7	7.2	-29.75	43.1	324.1	132.7	123.3	9.41	14.105				
2,600.0	2,587.8	2,591.2	2,561.8	6.0	7.6	-29.69	45.7	343.3	141.0	131.2	9.81	14.380				
2,700.0	2,687.1	2,690.8	2,659.5	6.3	8.0	-29.64	48.4	362.5	149.4	139.2	10.21	14.632				
2,800.0	2,786.4	2,790.5	2,757.3	6.5	8.4	-29.59	51.0	381.6	157.7	147.1	10.61	14.866				
2,900.0	2,885.7	2,890.1	2,855.1	6.8	8.7	-29.54	53.6	400.8	166.0	155.0	11.01	15.082				
3,000.0	2,985.0	2,989.8	2,952.8	7.1	9.1	-29.50	56.3	419.9	174.3	162.9	11.41	15.283				
3,100.0	3,084.3	3,089.4	3,050.6	7.3	9.5	-29.47	58.9	439.1	182.6	170.8	11.81	15.470				
3,200.0	3,183.6	3,189.1	3,148.3	7.6	9.9	-29.43	61.6	458.2	191.0	178.8	12.21	15.645				
3,300.0	3,282.9	3,288.7	3,246.1	7.9	10.3	-29.40	64.2	477.4	199.3	186.7	12.61	15.808				
3,400.0	3,382.2	3,388.4	3,343.8	8.1	10.7	-29.38	66.9	496.6	207.6	194.6	13.01	15.962				
3,500.0	3,481.5	3,488.0	3,441.6	8.4	11.0	-29.35	69.5	515.7	215.9	202.5	13.41	16.106				
3,600.0	3,580.9	3,587.7	3,539.4	8.7	11.4	-29.33	72.2	534.9	224.3	210.4	13.81	16.241				
3,700.0	3,680.2	3,687.3	3,637.1	9.0	11.8	-29.30	74.8	554.0	232.6	218.4	14.21	16.369				
3,800.0	3,779.5	3,787.0	3,734.9	9.2	12.2	-29.28	77.5	573.2	240.9	226.3	14.61	16.490				
3,900.0	3,878.8	3,886.7	3,832.6	9.5	12.6	-29.26	80.1	592.3	249.2	234.2	15.01	16.604				
4,000.0	3,978.1	3,986.3	3,930.4	9.8	13.0	-29.24	82.8	611.5	257.5	242.1	15.41	16.712				
4,100.0	4,077.4	4,086.0	4,028.2	10.0	13.3	-29.23	85.4	630.6	265.9	250.0	15.81	16.815				
4,200.0	4,176.7	4,185.6	4,125.9	10.3	13.7	-29.21	88.1	649.8	274.2	258.0	16.21	16.912				
4,300.0	4,276.0	4,285.3	4,223.7	10.6	14.1	-29.20	90.7	669.0	282.5	265.9	16.61	17.005				
4,400.0	4,375.3	4,384.9	4,321.4	10.8	14.5	-29.18	93.4	688.1	290.8	273.8	17.01	17.093				
4,500.0	4,474.6	4,484.6	4,419.2	11.1	14.9	-29.17	96.0	707.3	299.1	281.7	17.41	17.177				
4,600.0	4,573.9	4,584.2	4,517.0	11.4	15.3	-29.16	98.7	726.4	307.5	289.6	17.82	17.258				
4,700.0	4,673.2	4,683.9	4,614.7	11.7	15.6	-29.14	101.3	745.6	315.8	297.6	18.22	17.335				
4,800.0	4,772.5	4,783.5	4,712.5	11.9	16.0	-29.13	104.0	764.7	324.1	305.5	18.62	17.408				
4,900.0	4,871.8	4,883.2	4,810.2	12.2	16.4	-29.12	106.6	783.9	332.4	313.4	19.02	17.478				
5,000.0	4,971.1	4,982.8	4,908.0	12.5	16.8	-29.11	109.3	803.1	340.8	321.3	19.42	17.546				

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,070.4	5,082.5	5,005.7	12.7	17.2	-29.10	111.9	822.2	349.1	329.3	19.82	17.610	
5,200.0	5,169.7	5,182.1	5,103.5	13.0	17.6	-29.09	114.6	841.4	357.4	337.2	20.22	17.673	
5,300.0	5,269.0	5,281.8	5,201.3	13.3	17.9	-29.08	117.2	860.5	365.7	345.1	20.62	17.732	
5,400.0	5,368.3	5,381.4	5,299.0	13.5	18.3	-29.08	119.9	879.7	374.0	353.0	21.03	17.789	
5,500.0	5,467.6	5,481.1	5,396.8	13.8	18.7	-29.07	122.5	898.8	382.4	360.9	21.43	17.845	
5,600.0	5,566.9	5,580.8	5,494.5	14.1	19.1	-29.06	125.2	918.0	390.7	368.9	21.83	17.898	
5,700.0	5,666.2	5,680.4	5,592.3	14.4	19.5	-29.05	127.8	937.2	399.0	376.8	22.23	17.949	
5,800.0	5,765.5	5,780.1	5,690.1	14.6	19.9	-29.05	130.5	956.3	407.3	384.7	22.63	17.998	
5,900.0	5,864.8	5,879.7	5,787.8	14.9	20.2	-29.04	133.1	975.5	415.6	392.6	23.03	18.046	
6,000.0	5,964.1	5,979.4	5,885.6	15.2	20.6	-29.03	135.7	994.6	424.0	400.5	23.43	18.092	
6,100.0	6,063.4	6,079.0	5,983.3	15.4	21.0	-29.03	138.4	1,013.8	432.3	408.5	23.84	18.136	
6,200.0	6,162.7	6,178.7	6,081.1	15.7	21.4	-29.02	141.0	1,032.9	440.6	416.4	24.24	18.179	
6,300.0	6,262.0	6,278.3	6,178.8	16.0	21.8	-29.01	143.7	1,052.1	448.9	424.3	24.64	18.221	
6,400.0	6,361.3	6,378.0	6,276.6	16.2	22.2	-29.01	146.3	1,071.2	457.3	432.2	25.04	18.261	
6,500.0	6,460.7	6,477.6	6,374.4	16.5	22.6	-29.00	149.0	1,090.4	465.6	440.1	25.44	18.300	
6,600.0	6,560.0	6,577.3	6,472.1	16.8	22.9	-29.00	151.6	1,109.6	473.9	448.1	25.84	18.338	
6,700.0	6,659.3	6,676.9	6,569.9	17.1	23.3	-28.99	154.3	1,128.7	482.2	456.0	26.24	18.374	
6,800.0	6,758.6	6,776.6	6,667.6	17.3	23.7	-28.99	156.9	1,147.9	490.5	463.9	26.65	18.409	
6,900.0	6,857.9	6,876.2	6,765.4	17.6	24.1	-28.98	159.6	1,167.0	498.9	471.8	27.05	18.444	
7,000.0	6,957.2	6,975.9	6,863.2	17.9	24.5	-28.98	162.2	1,186.2	507.2	479.7	27.45	18.477	
7,100.0	7,056.5	7,073.5	6,958.9	18.1	24.9	-28.98	164.8	1,204.9	515.5	487.7	27.85	18.514	
7,200.0	7,155.8	7,150.0	7,033.5	18.4	25.2	-29.55	172.7	1,219.6	527.0	498.7	28.29	18.629	
7,210.0	7,165.7	7,150.0	7,033.5	18.4	25.2	-29.55	172.7	1,219.6	528.4	500.1	28.31	18.665	
7,250.0	7,205.4	7,179.3	7,061.7	18.5	25.3	1.10	178.4	1,225.2	534.1	505.5	28.62	18.665	
7,300.0	7,254.8	7,213.9	7,094.6	18.7	25.4	24.29	187.0	1,231.7	540.8	512.0	28.85	18.749	
7,350.0	7,303.5	7,250.0	7,128.3	18.8	25.6	35.32	198.1	1,238.4	547.0	518.1	28.91	18.924	
7,400.0	7,351.2	7,282.6	7,158.1	18.9	25.8	41.13	209.9	1,244.3	552.5	523.7	28.78	19.195	
7,450.0	7,397.6	7,316.8	7,188.6	19.0	25.9	44.57	224.2	1,250.4	557.4	528.9	28.51	19.551	
7,500.0	7,442.2	7,350.0	7,217.2	19.2	26.1	46.82	239.8	1,256.2	561.6	533.5	28.10	19.984	
7,550.0	7,484.8	7,385.2	7,246.6	19.3	26.3	48.45	258.2	1,262.1	565.0	537.4	27.59	20.480	
7,600.0	7,525.0	7,419.3	7,274.1	19.5	26.4	49.73	277.7	1,267.6	567.7	540.6	27.03	21.005	
7,650.0	7,562.4	7,450.0	7,297.7	19.6	26.6	50.80	296.7	1,272.4	569.6	543.1	26.47	21.517	
7,700.0	7,596.9	7,487.8	7,325.4	19.8	26.8	51.83	321.8	1,278.1	570.8	544.8	25.99	21.962	
7,750.0	7,628.2	7,522.2	7,349.2	20.0	27.0	52.81	346.2	1,282.9	571.2	545.6	25.66	22.261	
7,800.0	7,656.0	7,550.0	7,367.2	20.3	27.2	53.69	367.0	1,286.6	571.0	545.5	25.53	22.370	
7,850.0	7,680.1	7,591.5	7,392.4	20.5	27.5	54.82	399.5	1,291.8	570.0	544.3	25.72	22.162	
7,900.0	7,700.3	7,626.4	7,411.7	20.8	27.7	55.90	428.3	1,295.9	568.4	542.2	26.21	21.683	
7,950.0	7,716.5	7,661.6	7,429.3	21.1	27.9	57.05	458.5	1,299.6	566.2	539.2	27.04	20.940	
8,000.0	7,728.5	7,700.0	7,446.5	21.5	28.2	58.34	492.7	1,303.2	563.5	535.3	28.21	19.971	
8,050.0	7,736.3	7,732.9	7,459.4	21.9	28.4	59.57	522.8	1,306.0	560.2	530.6	29.60	18.929	
8,100.0	7,739.8	7,769.1	7,471.6	22.2	28.7	60.96	556.8	1,308.7	556.6	525.4	31.23	17.826	
8,115.3	7,740.0	7,780.3	7,475.0	22.4	28.8	61.41	567.4	1,309.5	555.5	523.7	31.76	17.491	
8,200.0	7,740.0	7,844.1	7,490.1	23.1	29.3	62.99	629.3	1,313.0	550.7	517.1	33.54	16.418	
8,292.7	7,740.0	7,917.2	7,499.0	24.0	29.9	63.96	701.7	1,315.3	549.0	513.5	35.54	15.449	
8,300.0	7,740.0	7,923.0	7,499.3	24.1	29.9	64.00	707.6	1,315.4	549.0	513.3	35.69	15.383	
8,400.0	7,740.0	8,015.9	7,500.0	25.2	30.8	64.14	800.5	1,316.4	550.4	512.4	37.97	14.493	
8,500.0	7,740.0	8,115.9	7,500.0	26.3	31.7	64.22	900.4	1,317.3	551.9	511.5	40.44	13.649	
8,600.0	7,740.0	8,215.9	7,500.0	27.5	32.7	64.30	1,000.4	1,318.1	553.5	510.5	43.00	12.872	
8,700.0	7,740.0	8,315.9	7,500.0	28.7	33.8	64.38	1,100.4	1,319.0	555.1	509.4	45.64	12.161	
8,800.0	7,740.0	8,415.8	7,500.0	30.0	34.9	64.46	1,200.4	1,319.9	556.7	508.3	48.36	11.512	
8,900.0	7,740.0	8,515.8	7,500.0	31.4	36.1	64.53	1,300.4	1,320.8	558.2	507.1	51.13	10.919	
9,000.0	7,740.0	8,615.8	7,500.0	32.8	37.3	64.61	1,400.3	1,321.6	559.8	505.9	53.95	10.377	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,100.0	7,740.0	8,715.8	7,500.0	34.2	38.5	64.69	1,500.3	1,322.5	561.4	504.6	56.81	9.881	
9,200.0	7,740.0	8,815.8	7,500.0	35.6	39.8	64.76	1,600.3	1,323.4	563.0	503.2	59.71	9.428	
9,300.0	7,740.0	8,915.8	7,500.0	37.1	41.2	64.84	1,700.3	1,324.3	564.5	501.9	62.65	9.011	
9,400.0	7,740.0	9,015.7	7,500.0	38.6	42.5	64.91	1,800.3	1,325.1	566.1	500.5	65.61	8.628	
9,500.0	7,740.0	9,115.7	7,500.0	40.1	43.9	64.99	1,900.2	1,326.0	567.7	499.1	68.60	8.275	
9,600.0	7,740.0	9,215.7	7,500.0	41.7	45.3	65.06	2,000.2	1,326.9	569.3	497.7	71.61	7.949	
9,700.0	7,740.0	9,315.7	7,500.0	43.2	46.8	65.14	2,100.2	1,327.7	570.9	496.2	74.65	7.648	
9,800.0	7,740.0	9,415.7	7,500.0	44.8	48.2	65.21	2,200.2	1,328.6	572.5	494.8	77.70	7.368	
9,900.0	7,740.0	9,515.7	7,500.0	46.4	49.7	65.28	2,300.2	1,329.5	574.0	493.3	80.77	7.107	
10,000.0	7,740.0	9,622.1	7,500.0	48.0	51.3	65.34	2,406.6	1,330.0	575.3	491.3	83.94	6.853	
10,100.0	7,740.0	9,732.1	7,500.0	49.6	52.9	65.32	2,516.6	1,328.5	574.9	487.7	87.13	6.597	
10,200.0	7,740.0	9,842.1	7,500.0	51.2	54.6	65.21	2,626.5	1,325.0	572.7	482.4	90.28	6.344	
10,300.0	7,740.0	9,951.9	7,500.0	52.8	56.2	65.01	2,736.2	1,319.3	568.8	475.5	93.37	6.092	
10,400.0	7,740.0	10,061.5	7,500.0	54.5	57.9	64.72	2,845.5	1,311.6	563.2	466.9	96.38	5.844	
10,500.0	7,740.0	10,170.8	7,500.0	56.1	59.5	64.33	2,954.4	1,301.8	555.9	456.6	99.31	5.598	
10,600.0	7,740.0	10,273.1	7,500.0	57.7	61.1	63.89	3,056.1	1,291.2	547.4	445.3	102.07	5.363	
10,700.0	7,740.0	10,372.6	7,500.0	59.4	62.6	63.44	3,155.1	1,280.8	538.8	434.0	104.75	5.143	
10,800.0	7,740.0	10,472.2	7,500.0	61.1	64.1	62.98	3,254.1	1,270.4	530.2	422.8	107.40	4.937	
10,900.0	7,740.0	10,571.7	7,500.0	62.7	65.7	62.50	3,353.1	1,260.0	521.7	411.7	110.01	4.742	
11,000.0	7,740.0	10,671.3	7,500.0	64.4	67.2	62.01	3,452.1	1,249.6	513.2	400.6	112.58	4.558	
11,100.0	7,740.0	10,770.8	7,500.0	66.1	68.8	61.50	3,551.1	1,239.2	504.7	389.6	115.10	4.385	
11,200.0	7,740.0	10,870.3	7,500.0	67.7	70.3	60.97	3,650.1	1,228.8	496.3	378.8	117.57	4.222	
11,300.0	7,740.0	10,969.9	7,500.0	69.4	71.9	60.42	3,749.1	1,218.4	488.0	368.0	119.98	4.067	
11,395.3	7,740.0	11,064.8	7,500.0	71.0	73.4	59.89	3,843.5	1,208.4	480.0	357.8	122.22	3.927	
11,400.0	7,740.0	11,069.4	7,500.0	71.1	73.5	59.86	3,848.1	1,208.0	479.6	357.3	122.35	3.920	
11,500.0	7,740.0	11,168.9	7,500.0	72.8	75.1	59.17	3,947.0	1,197.6	470.5	345.5	124.99	3.765	
11,584.7	7,740.0	11,252.9	7,500.0	74.2	76.5	58.47	4,030.6	1,188.8	461.7	334.7	127.00	3.636	
11,600.0	7,740.0	11,268.1	7,500.0	74.5	76.7	58.34	4,045.7	1,187.2	460.0	332.8	127.29	3.614	
11,700.0	7,740.0	11,367.3	7,500.0	76.2	78.3	57.48	4,144.3	1,176.8	449.1	320.0	129.09	3.479	
11,800.0	7,740.0	11,466.4	7,500.0	77.9	79.9	56.58	4,242.9	1,166.5	438.3	307.5	130.75	3.352	
11,900.0	7,740.0	11,565.6	7,500.0	79.6	81.5	55.63	4,341.5	1,156.1	427.6	295.3	132.26	3.233	
12,000.0	7,740.0	11,664.8	7,500.0	81.3	83.2	54.64	4,440.2	1,145.7	417.0	283.4	133.60	3.121	
12,100.0	7,740.0	11,764.0	7,500.0	83.0	84.8	53.59	4,538.8	1,135.4	406.5	271.8	134.75	3.017	
12,200.0	7,740.0	11,859.9	7,500.0	84.8	86.4	52.55	4,634.3	1,125.6	396.5	260.7	135.77	2.920	
12,300.0	7,740.0	11,954.2	7,500.0	86.5	87.9	51.61	4,728.2	1,117.5	387.7	250.9	136.82	2.834	
12,400.0	7,740.0	12,048.8	7,500.0	88.2	89.5	50.78	4,822.6	1,110.9	380.4	242.4	137.97	2.757	
12,500.0	7,740.0	12,143.7	7,500.0	89.9	91.1	50.07	4,917.3	1,105.8	374.4	235.2	139.26	2.689	
12,600.0	7,740.0	12,238.8	7,500.0	91.6	92.7	49.49	5,012.4	1,102.3	369.7	229.0	140.75	2.627	
12,700.0	7,740.0	12,334.1	7,500.0	93.3	94.3	49.06	5,107.6	1,100.4	366.4	223.9	142.48	2.571	
12,800.0	7,740.0	12,429.4	7,500.0	95.1	95.9	48.78	5,203.0	1,100.1	364.3	219.8	144.49	2.521	
12,900.0	7,740.0	12,524.9	7,500.0	96.8	97.6	48.67	5,298.4	1,101.3	363.4	216.6	146.82	2.475	
12,917.1	7,740.0	12,541.2	7,500.0	97.1	97.8	48.67	5,314.8	1,101.7	363.4	216.2	147.25	2.468	
13,000.0	7,740.0	12,620.3	7,500.0	98.5	99.2	48.73	5,393.8	1,104.2	363.8	214.4	149.49	2.434	
13,100.0	7,740.0	12,715.7	7,500.0	100.2	100.9	48.94	5,489.1	1,108.6	365.5	213.0	152.52	2.396	
13,200.0	7,740.0	12,811.3	7,500.0	102.0	102.5	49.32	5,584.4	1,114.6	368.4	212.5	155.92	2.363	
13,300.0	7,740.0	12,911.2	7,500.0	103.7	104.2	49.79	5,684.1	1,121.7	372.0	212.4	159.59	2.331	
13,400.0	7,740.0	13,011.0	7,500.0	105.4	106.0	50.24	5,783.7	1,128.7	375.5	212.2	163.26	2.300	
13,500.0	7,740.0	13,110.9	7,500.0	107.2	107.7	50.69	5,883.4	1,135.8	379.1	212.1	166.95	2.271	
13,600.0	7,740.0	13,210.8	7,500.0	108.9	109.4	51.13	5,983.0	1,142.8	382.7	212.0	170.64	2.243	
13,700.0	7,740.0	13,310.7	7,500.0	110.6	111.2	51.56	6,082.7	1,149.8	386.3	212.0	174.34	2.216	
13,800.0	7,740.0	13,410.6	7,500.0	112.3	112.9	51.98	6,182.3	1,156.9	389.9	211.9	178.04	2.190	
13,900.0	7,740.0	13,510.5	7,500.0	114.1	114.6	52.40	6,282.0	1,163.9	393.6	211.8	181.75	2.166	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3			Offset Site Error:		0.0 ft
Survey Program:											0-Geolink MWD			Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)						
14,000.0	7,740.0	13,610.4	7,500.0	115.8	116.4	52.80	6,381.6	1,171.0	397.3	211.8	185.46	2.142				
14,100.0	7,740.0	13,710.3	7,500.0	117.5	118.1	53.20	6,481.2	1,178.0	401.0	211.8	189.18	2.119				
14,200.0	7,740.0	13,810.2	7,500.0	119.3	119.8	53.60	6,580.9	1,185.1	404.7	211.8	192.90	2.098				
14,300.0	7,740.0	13,910.1	7,500.0	121.0	121.6	53.98	6,680.5	1,192.1	408.4	211.8	196.62	2.077				
14,400.0	7,740.0	14,010.0	7,500.0	122.8	123.3	54.36	6,780.2	1,199.2	412.2	211.8	200.35	2.057				
14,500.0	7,740.0	14,109.9	7,500.0	124.5	125.1	54.73	6,879.8	1,206.2	415.9	211.8	204.08	2.038				
14,600.0	7,740.0	14,209.8	7,500.0	126.2	126.8	55.09	6,979.5	1,213.3	419.7	211.9	207.81	2.020				
14,696.1	7,740.0	14,305.7	7,500.0	127.9	128.5	55.44	7,075.2	1,220.0	423.4	212.0	211.40	2.003 SF				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	91.06	-0.4	19.9	19.9						
100.0	100.0	100.0	100.0	0.2	0.2	91.06	-0.4	19.9	19.9	19.6	0.30	65.445			
200.0	200.0	200.0	200.0	0.3	0.3	91.06	-0.4	19.9	19.9	19.2	0.65	30.448			
233.3	233.3	233.3	233.3	0.4	0.4	91.06	-0.4	19.9	19.9	19.1	0.77	25.840 CC			
300.0	300.0	299.8	299.8	0.5	0.5	91.16	-0.4	20.1	20.1	19.1	1.00	20.058 ES			
400.0	400.0	399.5	399.4	0.7	0.7	91.86	-0.7	21.8	21.8	20.5	1.35	16.132			
500.0	500.0	499.0	498.9	0.9	0.9	-1.08	-1.3	25.2	24.4	22.7	1.70	14.358			
600.0	600.0	598.5	598.3	1.0	1.0	0.17	-2.2	30.3	26.9	24.9	2.05	13.169			
700.0	699.9	698.0	697.6	1.2	1.3	1.56	-3.4	37.1	29.5	27.1	2.39	12.326			
800.0	799.7	797.5	796.6	1.4	1.5	3.04	-4.9	45.6	32.1	29.3	2.74	11.700			
900.0	899.4	896.8	895.5	1.6	1.7	4.60	-6.7	55.8	34.7	31.6	3.09	11.220			
1,000.0	998.9	996.2	994.1	1.8	2.0	6.22	-8.8	67.7	37.3	33.8	3.44	10.842			
1,076.7	1,075.1	1,072.3	1,069.5	2.0	2.2	7.49	-10.6	77.9	39.3	35.6	3.70	10.603			
1,100.0	1,098.3	1,095.5	1,092.4	2.1	2.2	7.88	-11.2	81.2	39.9	36.1	3.79	10.548			
1,200.0	1,197.6	1,194.7	1,190.4	2.3	2.6	9.30	-13.9	96.4	43.9	39.7	4.14	10.595			
1,300.0	1,296.9	1,293.7	1,287.9	2.6	2.9	10.33	-16.8	113.2	49.5	45.0	4.49	11.019			
1,400.0	1,396.2	1,392.5	1,384.9	2.8	3.2	10.99	-20.1	131.7	56.9	52.1	4.85	11.735			
1,500.0	1,495.5	1,491.0	1,481.3	3.1	3.6	11.35	-23.6	151.7	66.0	60.8	5.21	12.683			
1,600.0	1,594.8	1,589.2	1,577.1	3.3	4.0	11.50	-27.4	173.3	76.9	71.3	5.56	13.817			
1,700.0	1,694.1	1,687.0	1,672.0	3.6	4.5	11.51	-31.5	196.4	89.4	83.5	5.92	15.103			
1,800.0	1,793.4	1,785.1	1,766.8	3.9	4.9	11.37	-35.7	221.1	103.4	97.2	6.27	16.493			
1,900.0	1,892.7	1,884.4	1,862.8	4.1	5.4	10.58	-38.7	246.6	117.6	111.0	6.62	17.764			
2,000.0	1,992.0	1,983.7	1,958.7	4.4	5.9	9.22	-40.0	272.2	131.6	124.6	6.96	18.898			
2,100.0	2,091.3	2,085.2	2,057.0	4.7	6.3	7.84	-40.5	297.5	144.6	137.3	7.31	19.794			
2,200.0	2,190.6	2,187.0	2,166.0	4.9	6.8	6.79	-40.9	321.2	156.0	148.4	7.65	20.384			
2,300.0	2,289.9	2,286.4	2,252.9	5.2	7.2	5.96	-41.4	343.6	166.6	158.6	8.00	20.836			
2,400.0	2,389.2	2,385.8	2,349.7	5.5	7.6	5.22	-41.8	365.9	177.3	169.0	8.34	21.253			
2,500.0	2,488.5	2,485.3	2,446.6	5.7	8.1	4.57	-42.2	388.3	188.0	179.3	8.69	21.639			
2,600.0	2,587.8	2,584.7	2,543.5	6.0	8.5	3.99	-42.6	410.6	198.7	189.7	9.03	21.996			
2,700.0	2,687.1	2,684.1	2,640.3	6.3	8.9	3.47	-43.0	433.0	209.4	200.0	9.38	22.328			
2,800.0	2,786.4	2,783.5	2,737.2	6.5	9.3	3.00	-43.4	455.3	220.2	210.4	9.73	22.637			
2,900.0	2,885.7	2,882.9	2,834.0	6.8	9.8	2.57	-43.8	477.7	230.9	220.8	10.07	22.925			
3,000.0	2,985.0	2,982.3	2,930.9	7.1	10.2	2.18	-44.3	500.0	241.7	231.3	10.42	23.195			
3,100.0	3,084.3	3,081.7	3,027.7	7.3	10.6	1.82	-44.7	522.4	252.5	241.7	10.77	23.447			
3,200.0	3,183.6	3,181.1	3,124.6	7.6	11.1	1.50	-45.1	544.7	263.2	252.1	11.11	23.684			
3,300.0	3,282.9	3,280.5	3,221.5	7.9	11.5	1.20	-45.5	567.1	274.0	262.6	11.46	23.907			
3,400.0	3,382.2	3,379.9	3,318.3	8.1	11.9	0.92	-45.9	589.4	284.8	273.0	11.81	24.117			
3,500.0	3,481.5	3,479.3	3,415.2	8.4	12.4	0.66	-46.3	611.8	295.6	283.5	12.16	24.315			
3,600.0	3,580.9	3,578.7	3,512.0	8.7	12.8	0.42	-46.7	634.1	306.5	293.9	12.51	24.501			
3,700.0	3,680.2	3,678.1	3,608.9	9.0	13.2	0.20	-47.1	656.5	317.3	304.4	12.86	24.678			
3,800.0	3,779.5	3,777.5	3,705.8	9.2	13.7	-0.01	-47.6	678.8	328.1	314.9	13.21	24.846			
3,900.0	3,878.8	3,876.9	3,802.6	9.5	14.1	-0.21	-48.0	701.2	338.9	325.4	13.55	25.005			
4,000.0	3,978.1	3,976.3	3,899.5	9.8	14.5	-0.39	-48.4	723.5	349.7	335.8	13.90	25.156			
4,100.0	4,077.4	4,075.7	3,996.3	10.0	15.0	-0.56	-48.8	745.9	360.6	346.3	14.25	25.299			
4,200.0	4,176.7	4,175.2	4,093.2	10.3	15.4	-0.73	-49.2	768.2	371.4	356.8	14.60	25.436			
4,300.0	4,276.0	4,274.6	4,190.1	10.6	15.8	-0.88	-49.6	790.6	382.2	367.3	14.95	25.567			
4,400.0	4,375.3	4,374.0	4,286.9	10.8	16.3	-1.02	-50.0	812.9	393.1	377.8	15.30	25.691			
4,500.0	4,474.6	4,473.4	4,383.8	11.1	16.7	-1.16	-50.5	835.3	403.9	388.3	15.65	25.810			
4,600.0	4,573.9	4,572.8	4,480.6	11.4	17.1	-1.29	-50.9	857.6	414.8	398.8	16.00	25.924			
4,700.0	4,673.2	4,672.2	4,577.5	11.7	17.6	-1.41	-51.3	880.0	425.6	409.3	16.35	26.032			
4,800.0	4,772.5	4,771.6	4,674.4	11.9	18.0	-1.53	-51.7	902.3	436.5	419.8	16.70	26.137			
4,900.0	4,871.8	4,871.0	4,771.2	12.2	18.4	-1.64	-52.1	924.7	447.3	430.3	17.05	26.237			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,000.0	4,971.1	4,970.4	4,868.1	12.5	18.9	-1.75	-52.5	947.0	458.2	440.8	17.40	26.333	
5,100.0	5,070.4	5,069.8	4,964.9	12.7	19.3	-1.85	-52.9	969.4	469.0	451.3	17.75	26.425	
5,200.0	5,169.7	5,169.2	5,061.8	13.0	19.8	-1.95	-53.4	991.7	479.9	461.8	18.10	26.513	
5,300.0	5,269.0	5,268.6	5,158.7	13.3	20.2	-2.04	-53.8	1,014.1	490.7	472.3	18.45	26.598	
5,400.0	5,368.3	5,368.0	5,255.5	13.5	20.6	-2.13	-54.2	1,036.5	501.6	482.8	18.80	26.680	
5,500.0	5,467.6	5,467.4	5,352.4	13.8	21.1	-2.21	-54.6	1,058.8	512.5	493.3	19.15	26.759	
5,600.0	5,566.9	5,566.8	5,449.2	14.1	21.5	-2.29	-55.0	1,081.2	523.3	503.8	19.50	26.836	
5,700.0	5,666.2	5,666.2	5,546.1	14.4	21.9	-2.37	-55.4	1,103.5	534.2	514.3	19.85	26.909	
5,800.0	5,765.5	5,765.7	5,643.0	14.6	22.4	-2.44	-55.8	1,125.9	545.0	524.8	20.20	26.980	
5,900.0	5,864.8	5,865.1	5,739.8	14.9	22.8	-2.52	-56.3	1,148.2	555.9	535.3	20.55	27.048	
6,000.0	5,964.1	5,964.5	5,836.7	15.2	23.2	-2.58	-56.7	1,170.6	566.8	545.9	20.90	27.115	
6,100.0	6,063.4	6,063.9	5,933.5	15.4	23.7	-2.65	-57.1	1,192.9	577.6	556.4	21.25	27.179	
6,200.0	6,162.7	6,163.3	6,030.4	15.7	24.1	-2.71	-57.5	1,215.3	588.5	566.9	21.60	27.241	
6,300.0	6,262.0	6,262.7	6,127.3	16.0	24.5	-2.78	-57.9	1,237.6	599.4	577.4	21.95	27.300	
6,400.0	6,361.3	6,362.1	6,224.1	16.2	25.0	-2.84	-58.3	1,260.0	610.2	587.9	22.30	27.359	
6,500.0	6,460.7	6,461.5	6,321.0	16.5	25.4	-2.89	-58.7	1,282.3	621.1	598.4	22.66	27.415	
6,600.0	6,560.0	6,560.9	6,417.8	16.8	25.8	-2.95	-59.2	1,304.7	632.0	608.9	23.01	27.469	
6,700.0	6,659.3	6,660.3	6,514.7	17.1	26.3	-3.00	-59.6	1,327.0	642.8	619.5	23.36	27.522	
6,800.0	6,758.6	6,759.7	6,611.6	17.3	26.7	-3.05	-60.0	1,349.4	653.7	630.0	23.71	27.573	
6,900.0	6,857.9	6,859.1	6,708.4	17.6	27.1	-3.10	-60.4	1,371.7	664.6	640.5	24.06	27.623	
7,000.0	6,957.2	6,958.5	6,805.3	17.9	27.6	-3.15	-60.8	1,394.1	675.4	651.0	24.41	27.672	
7,100.0	7,056.5	7,057.9	6,902.1	18.1	28.0	-3.20	-61.2	1,416.4	686.3	661.5	24.76	27.719	
7,200.0	7,155.8	7,157.3	6,999.0	18.4	28.5	-3.24	-61.6	1,438.8	697.2	672.1	25.11	27.764	
7,210.0	7,165.7	7,167.3	7,008.7	18.4	28.5	-3.25	-61.7	1,441.0	698.3	673.1	25.15	27.769	
7,250.0	7,205.4	7,207.0	7,047.4	18.5	28.7	27.96	-61.8	1,449.9	702.6	677.3	25.30	27.776	
7,300.0	7,254.8	7,256.4	7,095.5	18.7	28.9	51.99	-62.1	1,461.1	708.2	682.7	25.47	27.806	
7,350.0	7,303.5	7,305.1	7,143.0	18.8	29.1	64.03	-62.3	1,472.0	713.9	688.2	25.62	27.861	
7,400.0	7,351.2	7,353.7	7,190.3	18.9	29.3	70.96	-62.3	1,482.9	719.8	694.1	25.77	27.932	
7,450.0	7,397.6	7,405.6	7,240.8	19.0	29.5	75.49	-59.1	1,494.6	726.0	700.1	25.94	27.992	
7,500.0	7,442.2	7,459.1	7,292.3	19.2	29.8	78.70	-50.9	1,506.4	732.3	706.1	26.13	28.022	
7,550.0	7,484.8	7,514.4	7,344.5	19.3	30.0	81.11	-37.3	1,518.4	738.5	712.2	26.37	28.009	
7,600.0	7,525.0	7,571.6	7,396.9	19.5	30.2	83.02	-17.9	1,530.4	744.8	718.1	26.66	27.932	
7,650.0	7,562.4	7,630.7	7,448.8	19.6	30.4	84.58	7.7	1,542.2	750.9	723.9	27.00	27.811	
7,700.0	7,596.9	7,691.8	7,499.5	19.8	30.7	85.88	39.8	1,553.7	756.7	729.3	27.42	27.598	
7,750.0	7,628.2	7,754.9	7,548.0	20.0	30.9	86.96	78.6	1,564.7	762.2	734.3	27.92	27.306	
7,800.0	7,656.0	7,820.0	7,593.4	20.3	31.2	87.87	124.1	1,575.0	767.3	738.8	28.50	26.927	
7,850.0	7,680.1	7,887.0	7,634.6	20.5	31.5	88.61	176.1	1,584.2	771.8	742.7	29.16	26.468	
7,900.0	7,700.3	7,955.8	7,670.4	20.8	31.8	89.20	234.2	1,592.2	775.7	745.8	29.91	25.932	
7,950.0	7,716.5	8,026.0	7,699.8	21.1	32.1	89.63	297.6	1,598.6	778.8	748.0	30.76	25.322	
8,000.0	7,728.5	8,097.3	7,721.6	21.5	32.4	89.92	365.2	1,603.3	781.1	749.4	31.67	24.660	
8,050.0	7,736.3	8,169.3	7,735.1	21.9	32.8	90.04	435.8	1,606.0	782.5	749.8	32.68	23.947	
8,100.0	7,739.8	8,241.5	7,740.0	22.2	33.2	90.02	507.9	1,606.8	783.0	749.3	33.74	23.208	
8,115.3	7,740.0	8,257.9	7,740.0	22.4	33.3	90.00	524.2	1,606.7	783.1	749.1	34.02	23.020	
8,200.0	7,740.0	8,342.5	7,740.0	23.1	33.8	90.00	608.9	1,606.2	783.4	747.4	35.97	21.776	
8,300.0	7,740.0	8,442.5	7,740.0	24.1	34.4	90.00	708.9	1,605.7	783.7	745.3	38.44	20.388	
8,400.0	7,740.0	8,542.5	7,740.0	25.2	35.2	90.00	808.9	1,605.2	784.1	743.0	41.06	19.096	
8,500.0	7,740.0	8,642.5	7,740.0	26.3	36.0	90.00	908.9	1,604.7	784.4	740.6	43.80	17.908	
8,600.0	7,740.0	8,742.5	7,740.0	27.5	36.8	90.00	1,008.9	1,604.1	784.8	738.1	46.65	16.823	
8,700.0	7,740.0	8,842.5	7,740.0	28.7	37.8	90.00	1,108.9	1,603.6	785.1	735.5	49.58	15.835	
8,800.0	7,740.0	8,942.5	7,740.0	30.0	38.8	90.00	1,208.9	1,603.1	785.5	732.9	52.58	14.938	
8,900.0	7,740.0	9,042.5	7,740.0	31.4	39.8	90.00	1,308.9	1,602.6	785.8	730.2	55.64	14.122	
9,000.0	7,740.0	9,142.5	7,740.0	32.8	40.9	90.00	1,408.9	1,602.1	786.2	727.4	58.76	13.380	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,740.0	9,242.5	7,740.0	34.2	42.1	90.00	1,508.9	1,601.5	786.5	724.6	61.91	12.704	
9,200.0	7,740.0	9,342.5	7,740.0	35.6	43.2	90.00	1,608.9	1,601.0	786.9	721.8	65.10	12.087	
9,300.0	7,740.0	9,442.5	7,740.0	37.1	44.4	90.00	1,708.9	1,600.5	787.2	718.9	68.32	11.522	
9,400.0	7,740.0	9,542.5	7,740.0	38.6	45.7	90.00	1,808.9	1,600.0	787.6	716.0	71.57	11.004	
9,500.0	7,740.0	9,642.5	7,740.0	40.1	47.0	90.00	1,908.9	1,599.4	787.9	713.1	74.84	10.528	
9,600.0	7,740.0	9,742.5	7,740.0	41.7	48.3	90.00	2,008.9	1,598.9	788.3	710.1	78.13	10.088	
9,700.0	7,740.0	9,842.5	7,740.0	43.2	49.6	90.00	2,108.9	1,598.4	788.6	707.2	81.44	9.683	
9,800.0	7,740.0	9,942.5	7,740.0	44.8	51.0	90.00	2,208.9	1,597.9	789.0	704.2	84.77	9.307	
9,900.0	7,740.0	10,042.5	7,740.0	46.4	52.4	90.00	2,308.9	1,597.3	789.3	701.2	88.11	8.958	
10,000.0	7,740.0	10,142.5	7,740.0	48.0	53.8	90.00	2,408.8	1,596.8	789.7	698.2	91.46	8.633	
10,100.0	7,740.0	10,242.5	7,740.0	49.6	55.3	90.00	2,508.8	1,596.3	790.0	695.2	94.83	8.331	
10,200.0	7,740.0	10,342.5	7,740.0	51.2	56.7	90.00	2,608.8	1,595.8	790.3	692.1	98.20	8.048	
10,300.0	7,740.0	10,442.5	7,740.0	52.8	58.2	90.00	2,708.8	1,595.2	790.7	689.1	101.59	7.784	
10,400.0	7,740.0	10,542.5	7,740.0	54.5	59.7	90.00	2,808.8	1,594.7	791.0	686.1	104.98	7.535	
10,500.0	7,740.0	10,642.5	7,740.0	56.1	61.2	90.00	2,908.8	1,594.2	791.4	683.0	108.38	7.302	
10,600.0	7,740.0	10,742.5	7,740.0	57.7	62.7	90.00	3,008.8	1,593.7	791.7	680.0	111.78	7.083	
10,700.0	7,740.0	10,842.5	7,740.0	59.4	64.2	90.00	3,108.8	1,593.2	792.1	676.9	115.19	6.876	
10,800.0	7,740.0	10,942.5	7,740.0	61.1	65.7	90.00	3,208.8	1,592.6	792.4	673.8	118.61	6.681	
10,900.0	7,740.0	11,042.5	7,740.0	62.7	67.3	90.00	3,308.8	1,592.1	792.8	670.8	122.03	6.496	
11,000.0	7,740.0	11,142.5	7,740.0	64.4	68.8	90.00	3,408.8	1,591.6	793.1	667.7	125.46	6.322	
11,100.0	7,740.0	11,242.5	7,740.0	66.1	70.4	90.00	3,508.8	1,591.1	793.5	664.6	128.89	6.156	
11,200.0	7,740.0	11,342.5	7,740.0	67.7	72.0	90.00	3,608.8	1,590.5	793.8	661.5	132.33	5.999	
11,300.0	7,740.0	11,442.5	7,740.0	69.4	73.6	90.00	3,708.8	1,590.0	794.2	658.4	135.77	5.850	
11,395.3	7,740.0	11,537.8	7,740.0	71.0	75.1	90.00	3,804.2	1,589.5	794.5	655.5	139.05	5.714	
11,400.0	7,740.0	11,542.5	7,740.0	71.1	75.2	90.00	3,808.8	1,589.5	794.5	655.3	139.25	5.706	
11,500.0	7,740.0	11,642.5	7,740.0	72.8	76.8	90.00	3,908.8	1,589.0	793.9	650.5	143.39	5.537	
11,584.7	7,740.0	11,727.2	7,740.0	74.2	78.1	90.00	3,993.5	1,588.5	792.1	645.2	146.87	5.393	
11,600.0	7,740.0	11,742.5	7,740.0	74.5	78.4	90.00	4,008.8	1,588.4	791.6	644.2	147.40	5.370	
11,700.0	7,740.0	11,842.4	7,740.0	76.2	80.0	90.00	4,108.7	1,587.9	788.6	637.8	150.85	5.228	
11,800.0	7,740.0	11,942.4	7,740.0	77.9	81.6	90.00	4,208.7	1,587.4	785.7	631.4	154.31	5.092	
11,900.0	7,740.0	12,042.3	7,740.0	79.6	83.2	90.00	4,308.7	1,586.9	782.7	625.0	157.76	4.961	
12,000.0	7,740.0	12,142.3	7,740.0	81.3	84.8	90.00	4,408.6	1,586.3	779.8	618.6	161.22	4.837	
12,100.0	7,740.0	12,242.3	7,740.0	83.0	86.5	90.00	4,508.6	1,585.8	776.8	612.1	164.68	4.717	
12,200.0	7,740.0	12,342.2	7,740.0	84.8	88.1	90.00	4,608.5	1,585.3	773.9	605.7	168.15	4.602	
12,300.0	7,740.0	12,442.2	7,740.0	86.5	89.8	90.00	4,708.5	1,584.8	770.9	599.3	171.61	4.492	
12,400.0	7,740.0	12,542.1	7,740.0	88.2	91.4	90.00	4,808.4	1,584.3	768.0	592.9	175.08	4.386	
12,500.0	7,740.0	12,642.1	7,740.0	89.9	93.1	90.00	4,908.4	1,583.7	765.0	586.5	178.54	4.285	
12,600.0	7,740.0	12,742.0	7,740.0	91.6	94.7	90.00	5,008.3	1,583.2	762.0	580.0	182.01	4.187	
12,700.0	7,740.0	12,842.0	7,740.0	93.3	96.4	90.00	5,108.3	1,582.7	759.1	573.6	185.49	4.092	
12,800.0	7,740.0	12,942.0	7,740.0	95.1	98.0	90.00	5,208.2	1,582.2	756.1	567.2	188.96	4.002	
12,900.0	7,740.0	13,041.9	7,740.0	96.8	99.7	90.00	5,308.2	1,581.6	753.2	560.8	192.43	3.914	
13,000.0	7,740.0	13,141.9	7,740.0	98.5	101.4	90.00	5,408.2	1,581.1	750.2	554.3	195.91	3.830	
13,100.0	7,740.0	13,241.8	7,740.0	100.2	103.0	90.00	5,508.1	1,580.6	747.3	547.9	199.38	3.748	
13,200.0	7,740.0	13,341.8	7,740.0	102.0	104.7	90.00	5,608.1	1,580.1	744.3	541.5	202.86	3.669	
13,300.0	7,740.0	13,441.7	7,740.0	103.7	106.4	90.00	5,708.0	1,579.5	741.4	535.0	206.34	3.593	
13,400.0	7,740.0	13,541.7	7,740.0	105.4	108.0	90.00	5,808.0	1,579.0	738.4	528.6	209.82	3.519	
13,500.0	7,740.0	13,641.6	7,740.0	107.2	109.7	90.00	5,907.9	1,578.5	735.5	522.2	213.30	3.448	
13,600.0	7,740.0	13,741.6	7,740.0	108.9	111.4	90.00	6,007.9	1,578.0	732.5	515.7	216.78	3.379	
13,700.0	7,740.0	13,841.6	7,740.0	110.6	113.1	90.00	6,107.8	1,577.4	729.5	509.3	220.26	3.312	
13,800.0	7,740.0	13,941.5	7,740.0	112.3	114.8	90.00	6,207.8	1,576.9	726.6	502.8	223.74	3.247	
13,900.0	7,740.0	14,041.5	7,740.0	114.1	116.5	90.00	6,307.8	1,576.4	723.6	496.4	227.22	3.185	
14,000.0	7,740.0	14,141.4	7,740.0	115.8	118.2	90.00	6,407.7	1,575.9	720.7	490.0	230.71	3.124	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
							+N/-S (ft)	+E/-W (ft)										
14,100.0	7,740.0	14,241.4	7,740.0	117.5	119.9	90.00	6,507.7	1,575.4	717.7	483.5	234.19	3.065						
14,200.0	7,740.0	14,341.3	7,740.0	119.3	121.5	90.00	6,607.6	1,574.8	714.8	477.1	237.68	3.007						
14,300.0	7,740.0	14,441.3	7,740.0	121.0	123.2	90.00	6,707.6	1,574.3	711.8	470.6	241.16	2.952						
14,400.0	7,740.0	14,541.3	7,740.0	122.8	124.9	90.00	6,807.5	1,573.8	708.9	464.2	244.65	2.897						
14,500.0	7,740.0	14,641.2	7,740.0	124.5	126.6	90.00	6,907.5	1,573.3	705.9	457.8	248.14	2.845						
14,600.0	7,740.0	14,741.2	7,740.0	126.2	128.3	90.00	7,007.4	1,572.7	702.9	451.3	251.62	2.794						
14,696.1	7,740.0	14,837.2	7,740.0	127.9	130.0	90.00	7,103.5	1,572.2	700.1	445.1	254.97	2.746 SF						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	90.70	-0.4	29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	90.70	-0.4	29.9	29.9	29.6	0.30	98.619	
200.0	200.0	200.0	200.0	0.3	0.3	90.70	-0.4	29.9	29.9	29.3	0.65	45.882	CC, ES
300.0	300.0	299.5	299.5	0.5	0.5	90.73	-0.4	30.8	30.8	29.8	1.00	30.762	
400.0	400.0	398.9	398.8	0.7	0.7	90.81	-0.5	33.4	33.4	32.1	1.35	24.665	
500.0	500.0	498.2	498.1	0.9	0.9	-3.16	-0.6	37.7	36.9	35.2	1.70	21.738	
600.0	600.0	597.5	597.2	1.0	1.1	-3.22	-0.8	43.7	40.3	38.3	2.04	19.733	
700.0	699.9	696.7	696.1	1.2	1.3	-3.36	-1.0	51.5	43.8	41.4	2.39	18.308	
800.0	799.7	795.8	794.8	1.4	1.5	-3.56	-1.3	60.9	47.2	44.5	2.74	17.242	
900.0	899.4	894.9	893.2	1.6	1.8	-3.81	-1.7	72.0	50.6	47.6	3.09	16.413	
1,000.0	998.9	994.0	991.4	1.8	2.0	-4.09	-2.1	84.8	54.1	50.6	3.43	15.749	
1,076.7	1,075.1	1,069.9	1,066.5	2.0	2.3	-4.34	-2.4	95.8	56.7	53.0	3.70	15.322	
1,100.0	1,098.3	1,093.0	1,089.3	2.1	2.3	-4.41	-2.5	99.4	57.5	53.7	3.78	15.214	
1,200.0	1,197.6	1,191.8	1,186.9	2.3	2.6	-4.66	-3.1	115.5	62.2	58.0	4.13	15.054	
1,300.0	1,296.9	1,290.5	1,283.9	2.6	3.0	-4.81	-3.6	133.4	68.5	64.1	4.48	15.304	
1,400.0	1,396.2	1,388.9	1,380.4	2.8	3.4	-4.87	-4.2	152.8	76.6	71.8	4.83	15.873	
1,500.0	1,495.5	1,487.0	1,476.2	3.1	3.8	-4.87	-4.9	173.8	86.4	81.3	5.18	16.697	
1,600.0	1,594.8	1,584.8	1,571.4	3.3	4.2	-4.82	-5.6	196.4	97.9	92.4	5.52	17.727	
1,700.0	1,694.1	1,682.2	1,665.7	3.6	4.6	-4.75	-6.3	220.5	111.1	105.2	5.87	18.925	
1,800.0	1,793.4	1,779.1	1,759.1	3.9	5.1	-4.65	-7.1	246.1	126.0	119.8	6.22	20.262	
1,900.0	1,892.7	1,875.4	1,851.6	4.1	5.6	-4.55	-8.0	273.0	142.5	135.9	6.56	21.715	
2,000.0	1,992.0	1,971.2	1,943.1	4.4	6.2	-4.45	-8.9	301.4	160.7	153.8	6.91	23.265	
2,100.0	2,091.3	2,067.8	2,034.9	4.7	6.7	-4.35	-9.8	331.4	180.3	173.1	7.25	24.866	
2,200.0	2,190.6	2,165.8	2,128.0	4.9	7.3	-4.26	-10.8	362.0	200.2	192.6	7.60	26.345	
2,300.0	2,289.9	2,263.8	2,221.1	5.2	7.8	-4.19	-11.8	392.7	220.1	212.2	7.95	27.695	
2,400.0	2,389.2	2,361.8	2,314.2	5.5	8.4	-4.13	-12.7	423.3	240.0	231.7	8.29	28.932	
2,500.0	2,488.5	2,459.8	2,407.3	5.7	9.0	-4.08	-13.7	453.9	259.9	251.2	8.64	30.070	
2,600.0	2,587.8	2,557.8	2,500.4	6.0	9.6	-4.04	-14.6	484.6	279.7	270.8	8.99	31.120	
2,700.0	2,687.1	2,655.8	2,593.4	6.3	10.1	-4.00	-15.6	515.2	299.6	290.3	9.34	32.092	
2,800.0	2,786.4	2,753.8	2,686.5	6.5	10.7	-3.97	-16.6	545.9	319.5	309.8	9.68	32.995	
2,900.0	2,885.7	2,851.8	2,779.6	6.8	11.3	-3.94	-17.5	576.5	339.4	329.4	10.03	33.835	
3,000.0	2,985.0	2,949.8	2,872.7	7.1	11.9	-3.92	-18.5	607.1	359.3	348.9	10.38	34.619	
3,100.0	3,084.3	3,047.8	2,965.8	7.3	12.4	-3.90	-19.4	637.8	379.2	368.4	10.73	35.353	
3,200.0	3,183.6	3,145.8	3,058.9	7.6	13.0	-3.88	-20.4	668.4	399.0	388.0	11.07	36.041	
3,300.0	3,282.9	3,243.8	3,152.0	7.9	13.6	-3.86	-21.4	699.1	418.9	407.5	11.42	36.687	
3,400.0	3,382.2	3,341.8	3,245.0	8.1	14.2	-3.84	-22.3	729.7	438.8	427.0	11.77	37.294	
3,500.0	3,481.5	3,439.8	3,338.1	8.4	14.8	-3.82	-23.3	760.3	458.7	446.6	12.11	37.868	
3,600.0	3,580.9	3,537.8	3,431.2	8.7	15.3	-3.81	-24.3	791.0	478.6	466.1	12.46	38.409	
3,700.0	3,680.2	3,635.8	3,524.3	9.0	15.9	-3.80	-25.2	821.6	498.5	485.7	12.81	38.921	
3,800.0	3,779.5	3,733.8	3,617.4	9.2	16.5	-3.79	-26.2	852.3	518.3	505.2	13.15	39.406	
3,900.0	3,878.8	3,831.8	3,710.5	9.5	17.1	-3.77	-27.1	882.9	538.2	524.7	13.50	39.867	
4,000.0	3,978.1	3,929.8	3,803.6	9.8	17.7	-3.76	-28.1	913.5	558.1	544.3	13.85	40.304	
4,100.0	4,077.4	4,027.8	3,896.6	10.0	18.3	-3.76	-29.1	944.2	578.0	563.8	14.19	40.720	
4,200.0	4,176.7	4,125.9	3,989.7	10.3	18.8	-3.75	-30.0	974.8	597.9	583.3	14.54	41.116	
4,300.0	4,276.0	4,223.9	4,082.8	10.6	19.4	-3.74	-31.0	1,005.5	617.8	602.9	14.89	41.494	
4,400.0	4,375.3	4,321.9	4,175.9	10.8	20.0	-3.73	-31.9	1,036.1	637.6	622.4	15.23	41.854	
4,500.0	4,474.6	4,419.9	4,269.0	11.1	20.6	-3.72	-32.9	1,066.7	657.5	641.9	15.58	42.199	
4,600.0	4,573.9	4,517.9	4,362.1	11.4	21.2	-3.72	-33.9	1,097.4	677.4	661.5	15.93	42.528	
4,700.0	4,673.2	4,615.9	4,455.2	11.7	21.8	-3.71	-34.8	1,128.0	697.3	681.0	16.28	42.844	
4,800.0	4,772.5	4,713.9	4,548.2	11.9	22.3	-3.70	-35.8	1,158.7	717.2	700.6	16.62	43.146	
4,900.0	4,871.8	4,811.9	4,641.3	12.2	22.9	-3.70	-36.8	1,189.3	737.1	720.1	16.97	43.436	
5,000.0	4,971.1	4,909.9	4,734.4	12.5	23.5	-3.69	-37.7	1,219.9	756.9	739.6	17.32	43.715	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	5,070.4	5,007.9	4,827.5	12.7	24.1	-3.69	-38.7	1,250.6	776.8	759.2	17.66	43.983	
5,200.0	5,169.7	5,105.9	4,920.6	13.0	24.7	-3.68	-39.6	1,281.2	796.7	778.7	18.01	44.240	
5,300.0	5,269.0	5,203.9	5,013.7	13.3	25.3	-3.68	-40.6	1,311.8	816.6	798.2	18.36	44.487	
5,400.0	5,368.3	5,301.9	5,106.8	13.5	25.9	-3.67	-41.6	1,342.5	836.5	817.8	18.70	44.726	
5,500.0	5,467.6	5,399.9	5,199.8	13.8	26.4	-3.67	-42.5	1,373.1	856.4	837.3	19.05	44.956	
5,600.0	5,566.9	5,497.9	5,292.9	14.1	27.0	-3.66	-43.5	1,403.8	876.2	856.9	19.40	45.177	
5,700.0	5,666.2	5,595.9	5,386.0	14.4	27.6	-3.66	-44.5	1,434.4	896.1	876.4	19.74	45.391	
5,800.0	5,765.5	5,693.9	5,479.1	14.6	28.2	-3.66	-45.4	1,465.0	916.0	895.9	20.09	45.597	
5,900.0	5,864.8	5,791.9	5,572.2	14.9	28.8	-3.65	-46.4	1,495.7	935.9	915.5	20.44	45.797	
6,000.0	5,964.1	5,889.9	5,665.3	15.2	29.4	-3.65	-47.3	1,526.3	955.8	935.0	20.78	45.990	
6,100.0	6,063.4	5,987.9	5,758.4	15.4	29.9	-3.65	-48.3	1,557.0	975.7	954.5	21.13	46.176	
6,200.0	6,162.7	6,085.9	5,851.4	15.7	30.5	-3.64	-49.3	1,587.6	995.6	974.1	21.48	46.357	
6,300.0	6,262.0	6,183.9	5,944.5	16.0	31.1	-3.64	-50.2	1,618.2	1,015.4	993.6	21.82	46.531	
6,400.0	6,361.3	6,281.9	6,037.6	16.2	31.7	-3.64	-51.2	1,648.9	1,035.3	1,013.1	22.17	46.701	
6,500.0	6,460.7	6,379.9	6,130.7	16.5	32.3	-3.63	-52.1	1,679.5	1,055.2	1,032.7	22.52	46.865	
6,600.0	6,560.0	6,477.9	6,223.8	16.8	32.9	-3.63	-53.1	1,710.2	1,075.1	1,052.2	22.86	47.024	
6,700.0	6,659.3	6,575.9	6,316.9	17.1	33.5	-3.63	-54.1	1,740.8	1,095.0	1,071.8	23.21	47.178	
6,800.0	6,758.6	6,673.9	6,410.0	17.3	34.0	-3.63	-55.0	1,771.4	1,114.9	1,091.3	23.56	47.328	
6,900.0	6,857.9	6,771.9	6,503.0	17.6	34.6	-3.62	-56.0	1,802.1	1,134.7	1,110.8	23.90	47.473	
7,000.0	6,957.2	6,869.9	6,596.1	17.9	35.2	-3.62	-57.0	1,832.7	1,154.6	1,130.4	24.25	47.615	
7,100.0	7,056.5	6,967.9	6,689.2	18.1	35.8	-3.62	-57.9	1,863.4	1,174.5	1,149.9	24.60	47.752	
7,200.0	7,155.8	7,065.9	6,782.3	18.4	36.4	-3.62	-58.9	1,894.0	1,194.4	1,169.4	24.94	47.886	
7,210.0	7,165.7	7,075.8	6,791.6	18.4	36.4	-3.62	-59.0	1,897.1	1,196.4	1,171.4	24.98	47.899	
7,250.0	7,205.4	7,114.9	6,828.8	18.5	36.7	27.19	-59.4	1,909.3	1,204.3	1,179.2	25.16	47.861	
7,300.0	7,254.8	7,163.6	6,875.0	18.7	37.0	50.59	-59.8	1,924.5	1,214.3	1,188.9	25.40	47.814	
7,350.0	7,303.5	7,211.5	6,920.6	18.8	37.3	61.89	-60.3	1,939.5	1,224.3	1,198.7	25.62	47.796	
7,400.0	7,351.2	7,270.0	6,976.2	18.9	37.6	68.06	-59.2	1,957.6	1,234.2	1,208.4	25.81	47.819	
7,450.0	7,397.6	7,335.3	7,037.9	19.0	38.0	71.79	-51.0	1,977.1	1,243.4	1,217.5	25.98	47.856	
7,500.0	7,442.2	7,403.3	7,101.0	19.2	38.3	74.21	-34.9	1,996.3	1,252.0	1,225.8	26.14	47.886	
7,550.0	7,484.8	7,473.7	7,164.3	19.3	38.6	75.85	-10.1	2,014.6	1,259.6	1,233.3	26.31	47.874	
7,600.0	7,525.0	7,546.4	7,226.2	19.5	39.0	76.99	23.8	2,031.7	1,266.3	1,239.8	26.51	47.772	
7,650.0	7,562.4	7,621.0	7,285.3	19.6	39.3	77.80	66.7	2,047.0	1,271.9	1,245.1	26.76	47.526	
7,700.0	7,596.9	7,697.0	7,339.7	19.8	39.6	78.34	118.1	2,059.9	1,276.3	1,249.2	27.10	47.093	
7,750.0	7,628.2	7,773.8	7,387.9	20.0	39.8	78.69	177.0	2,070.0	1,279.4	1,251.8	27.57	46.405	
7,800.0	7,656.0	7,850.8	7,428.3	20.3	40.1	78.87	242.0	2,077.0	1,281.3	1,253.1	28.18	45.471	
7,850.0	7,680.1	7,927.1	7,460.0	20.5	40.3	78.93	311.3	2,080.7	1,281.9	1,252.9	28.96	44.264	
7,900.0	7,700.3	8,002.1	7,482.4	20.8	40.6	78.89	382.8	2,081.2	1,281.2	1,251.3	29.90	42.851	
7,950.0	7,716.5	8,075.4	7,495.6	21.1	40.8	78.78	454.8	2,078.6	1,279.4	1,248.4	31.01	41.260	
8,000.0	7,728.5	8,146.4	7,500.0	21.5	41.0	78.60	525.4	2,073.3	1,276.4	1,244.1	32.25	39.577	
8,050.0	7,736.3	8,196.0	7,500.0	21.9	41.1	78.68	574.8	2,068.5	1,272.6	1,239.2	33.43	38.063	
8,100.0	7,739.8	8,245.6	7,500.0	22.2	41.3	78.93	624.2	2,063.8	1,268.6	1,233.9	34.73	36.530	
8,115.3	7,740.0	8,260.9	7,500.0	22.4	41.4	79.04	639.4	2,062.3	1,267.3	1,232.2	35.14	36.069	
8,200.0	7,740.0	8,345.2	7,500.0	23.1	41.7	78.98	723.3	2,054.2	1,260.1	1,223.0	37.11	33.955	
8,300.0	7,740.0	8,444.9	7,500.0	24.1	42.2	78.90	822.5	2,044.7	1,251.5	1,211.9	39.59	31.613	
8,400.0	7,740.0	8,544.5	7,500.0	25.2	42.8	78.83	921.7	2,035.1	1,243.0	1,200.8	42.20	29.453	
8,500.0	7,740.0	8,644.1	7,500.0	26.3	43.4	78.75	1,020.8	2,025.6	1,234.4	1,189.5	44.92	27.478	
8,600.0	7,740.0	8,743.7	7,500.0	27.5	44.0	78.67	1,120.0	2,016.0	1,225.9	1,178.1	47.73	25.681	
8,700.0	7,740.0	8,843.3	7,500.0	28.7	44.8	78.59	1,219.2	2,006.5	1,217.3	1,166.7	50.62	24.048	
8,800.0	7,740.0	8,943.0	7,500.0	30.0	45.5	78.51	1,318.3	1,996.9	1,208.8	1,155.2	53.57	22.565	
8,900.0	7,740.0	9,042.6	7,500.0	31.4	46.4	78.42	1,417.5	1,987.4	1,200.2	1,143.7	56.57	21.218	
9,000.0	7,740.0	9,142.2	7,500.0	32.8	47.3	78.34	1,516.6	1,977.8	1,191.7	1,132.1	59.61	19.992	
9,100.0	7,740.0	9,241.8	7,500.0	34.2	48.2	78.25	1,615.8	1,968.3	1,183.2	1,120.5	62.69	18.873	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,200.0	7,740.0	9,341.4	7,500.0	35.6	49.2	78.17	1,715.0	1,958.7	1,174.6	1,108.8	65.80	17.852	
9,300.0	7,740.0	9,441.1	7,500.0	37.1	50.2	78.08	1,814.1	1,949.2	1,166.1	1,097.2	68.94	16.915	
9,400.0	7,740.0	9,540.7	7,500.0	38.6	51.3	77.99	1,913.3	1,939.6	1,157.6	1,085.5	72.10	16.056	
9,500.0	7,740.0	9,640.3	7,500.0	40.1	52.4	77.90	2,012.4	1,930.1	1,149.1	1,073.8	75.27	15.265	
9,600.0	7,740.0	9,739.9	7,500.0	41.7	53.5	77.81	2,111.6	1,920.5	1,140.5	1,062.1	78.47	14.535	
9,700.0	7,740.0	9,839.5	7,500.0	43.2	54.7	77.71	2,210.8	1,911.0	1,132.0	1,050.3	81.68	13.859	
9,800.0	7,740.0	9,939.2	7,500.0	44.8	55.9	77.62	2,309.9	1,901.4	1,123.5	1,038.6	84.90	13.233	
9,900.0	7,740.0	10,038.8	7,500.0	46.4	57.1	77.52	2,409.1	1,891.9	1,115.0	1,026.9	88.13	12.651	
10,000.0	7,740.0	10,138.4	7,500.0	48.0	58.4	77.43	2,508.2	1,882.3	1,106.5	1,015.1	91.37	12.110	
10,100.0	7,740.0	10,238.0	7,500.0	49.6	59.7	77.33	2,607.4	1,872.8	1,098.0	1,003.3	94.62	11.604	
10,200.0	7,740.0	10,337.6	7,500.0	51.2	61.0	77.23	2,706.6	1,863.2	1,089.5	991.6	97.87	11.131	
10,300.0	7,740.0	10,437.3	7,500.0	52.8	62.3	77.12	2,805.7	1,853.7	1,081.0	979.8	101.13	10.689	
10,400.0	7,740.0	10,536.9	7,500.0	54.5	63.6	77.02	2,904.9	1,844.1	1,072.5	968.1	104.39	10.273	
10,500.0	7,740.0	10,636.5	7,500.0	56.1	65.0	76.92	3,004.0	1,834.6	1,064.0	956.3	107.66	9.883	
10,600.0	7,740.0	10,731.1	7,500.0	57.7	66.3	76.81	3,098.2	1,825.6	1,055.6	944.7	110.85	9.523	
10,700.0	7,740.0	10,815.7	7,500.0	59.4	67.5	76.74	3,182.5	1,818.5	1,048.3	934.4	113.88	9.205	
10,800.0	7,740.0	10,900.0	7,500.0	61.1	68.8	76.67	3,266.6	1,812.7	1,042.4	925.5	116.92	8.916	
10,900.0	7,740.0	10,985.4	7,500.0	62.7	70.0	76.62	3,351.9	1,808.1	1,038.0	918.0	119.98	8.651	
11,000.0	7,740.0	11,070.4	7,500.0	64.4	71.3	76.59	3,436.8	1,804.7	1,035.0	912.0	123.04	8.412	
11,100.0	7,740.0	11,155.4	7,500.0	66.1	72.6	76.57	3,521.8	1,802.7	1,033.5	907.4	126.12	8.194	
11,157.1	7,740.0	11,204.0	7,500.0	67.0	73.3	76.57	3,570.4	1,802.0	1,033.3	905.4	127.88	8.080	
11,200.0	7,740.0	11,240.5	7,500.0	67.7	73.9	76.57	3,606.9	1,801.8	1,033.4	904.2	129.21	7.998	
11,300.0	7,740.0	11,338.3	7,500.0	69.4	75.4	76.58	3,704.7	1,801.8	1,034.2	901.7	132.51	7.805	
11,395.3	7,740.0	11,433.6	7,500.0	71.0	76.9	76.59	3,800.0	1,801.8	1,035.0	899.3	135.70	7.627	
11,400.0	7,740.0	11,438.3	7,500.0	71.1	76.9	76.59	3,804.7	1,801.8	1,035.1	899.2	135.89	7.617	
11,500.0	7,740.0	11,538.3	7,500.0	72.8	78.5	76.59	3,904.7	1,801.8	1,035.0	895.0	139.98	7.394	
11,584.7	7,740.0	11,622.9	7,500.0	74.2	79.8	76.57	3,989.3	1,801.8	1,033.6	890.2	143.40	7.208	
11,600.0	7,740.0	11,638.2	7,500.0	74.5	80.1	76.56	4,004.6	1,801.8	1,033.2	889.3	143.91	7.180	
11,700.0	7,740.0	11,738.2	7,500.0	76.2	81.6	76.53	4,104.6	1,801.8	1,030.9	883.6	147.24	7.001	
11,800.0	7,740.0	11,838.2	7,500.0	77.9	83.2	76.50	4,204.6	1,801.8	1,028.5	877.9	150.58	6.830	
11,900.0	7,740.0	11,938.2	7,500.0	79.6	84.8	76.47	4,304.6	1,801.8	1,026.1	872.2	153.91	6.667	
12,000.0	7,740.0	12,038.1	7,500.0	81.3	86.4	76.44	4,404.5	1,801.8	1,023.8	866.5	157.25	6.510	
12,100.0	7,740.0	12,138.1	7,500.0	83.0	88.0	76.41	4,504.5	1,801.8	1,021.4	860.8	160.59	6.360	
12,200.0	7,740.0	12,238.1	7,500.0	84.8	89.6	76.37	4,604.5	1,801.8	1,019.1	855.1	163.93	6.216	
12,300.0	7,740.0	12,338.0	7,500.0	86.5	91.2	76.34	4,704.4	1,801.8	1,016.7	849.4	167.28	6.078	
12,400.0	7,740.0	12,438.0	7,500.0	88.2	92.8	76.31	4,804.4	1,801.8	1,014.3	843.7	170.62	5.945	
12,500.0	7,740.0	12,538.0	7,500.0	89.9	94.5	76.28	4,904.4	1,801.8	1,012.0	838.0	173.96	5.817	
12,600.0	7,740.0	12,637.9	7,500.0	91.6	96.1	76.24	5,004.3	1,801.8	1,009.6	832.3	177.30	5.694	
12,700.0	7,740.0	12,737.9	7,500.0	93.3	97.7	76.21	5,104.3	1,801.8	1,007.2	826.6	180.65	5.576	
12,800.0	7,740.0	12,837.9	7,500.0	95.1	99.3	76.18	5,204.3	1,801.8	1,004.9	820.9	183.99	5.461	
12,900.0	7,740.0	12,937.9	7,500.0	96.8	101.0	76.15	5,304.3	1,801.8	1,002.5	815.2	187.34	5.351	
13,000.0	7,740.0	13,037.8	7,500.0	98.5	102.6	76.11	5,404.2	1,801.8	1,000.2	809.5	190.68	5.245	
13,100.0	7,740.0	13,137.8	7,500.0	100.2	104.3	76.08	5,504.2	1,801.8	997.8	803.8	194.03	5.143	
13,200.0	7,740.0	13,237.8	7,500.0	102.0	105.9	76.04	5,604.2	1,801.8	995.4	798.1	197.37	5.043	
13,300.0	7,740.0	13,337.7	7,500.0	103.7	107.6	76.01	5,704.1	1,801.8	993.1	792.4	200.72	4.948	
13,400.0	7,740.0	13,437.7	7,500.0	105.4	109.2	75.98	5,804.1	1,801.8	990.7	786.7	204.06	4.855	
13,500.0	7,740.0	13,537.7	7,500.0	107.2	110.9	75.94	5,904.1	1,801.8	988.4	780.9	207.41	4.765	
13,600.0	7,740.0	13,637.6	7,500.0	108.9	112.6	75.91	6,004.1	1,801.8	986.0	775.2	210.75	4.678	
13,700.0	7,740.0	13,737.6	7,500.0	110.6	114.2	75.87	6,104.0	1,801.8	983.6	769.5	214.10	4.594	
13,800.0	7,740.0	13,824.6	7,500.0	112.3	115.7	75.85	6,191.0	1,802.3	981.8	764.6	217.23	4.520	
13,865.8	7,740.0	13,880.2	7,500.0	113.5	116.6	75.85	6,246.6	1,803.4	981.5	762.2	219.28	4.476	
13,900.0	7,740.0	13,909.2	7,500.0	114.1	117.1	75.85	6,275.5	1,804.2	981.6	761.2	220.35	4.455	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3					Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD																		Offset Well Error:		0.0 ft	
Reference				Offset			Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation		Warning							
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor									
14,000.0	7,740.0	14,000.0	7,500.0	115.8	118.7	75.87	6,366.3	1,807.7	982.9	759.3	223.59	4.396									
14,100.0	7,740.0	14,078.3	7,500.0	117.5	120.0	75.90	6,444.5	1,811.9	985.8	759.2	226.64	4.350									
14,200.0	7,740.0	14,162.7	7,500.0	119.3	121.5	75.95	6,528.7	1,817.9	990.3	760.5	229.81	4.309									
14,300.0	7,740.0	14,246.9	7,500.0	121.0	122.9	76.03	6,612.6	1,825.1	996.3	763.3	233.00	4.276									
14,400.0	7,740.0	14,331.0	7,500.0	122.8	124.4	76.12	6,696.2	1,833.7	1,003.9	767.7	236.20	4.250									
14,500.0	7,740.0	14,414.9	7,500.0	124.5	125.8	76.23	6,779.5	1,843.7	1,013.0	773.6	239.42	4.231									
14,600.0	7,740.0	14,500.0	7,500.0	126.2	127.3	76.35	6,863.9	1,855.1	1,023.7	781.0	242.68	4.218									
14,696.1	7,740.0	14,578.4	7,500.0	127.9	128.7	76.48	6,941.4	1,866.9	1,035.5	789.7	245.77	4.213 SF									

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.79	0.4	-99.9	99.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.79	0.4	-99.9	99.9	99.6	0.30	329.015		
200.0	200.0	200.0	200.0	0.3	0.3	-89.79	0.4	-99.9	99.9	99.3	0.65	153.071		
300.0	300.0	300.0	300.0	0.5	0.5	-89.79	0.4	-99.9	99.9	98.9	1.00	99.736 CC, ES		
400.0	400.0	398.9	398.9	0.7	0.7	-89.42	1.0	-100.5	100.5	99.1	1.35	74.473		
500.0	500.0	497.7	497.6	0.9	0.9	177.67	3.0	-102.1	103.1	101.4	1.70	60.676		
600.0	600.0	596.2	596.1	1.0	1.0	179.41	6.2	-104.8	108.6	106.5	2.05	52.970		
700.0	699.9	694.4	694.1	1.2	1.2	-178.46	10.8	-108.6	117.2	114.8	2.40	48.732		
800.0	799.7	793.6	793.1	1.4	1.4	-176.35	16.1	-113.1	128.3	125.6	2.76	46.486		
900.0	899.4	892.7	891.9	1.6	1.6	-174.64	21.4	-117.5	141.3	138.2	3.12	45.366		
1,000.0	998.9	991.5	990.5	1.8	1.8	-173.29	26.6	-122.0	156.2	152.7	3.47	45.013		
1,076.7	1,075.1	1,067.1	1,065.9	2.0	2.0	-172.46	30.7	-125.3	168.8	165.0	3.74	45.117		
1,100.0	1,098.3	1,090.1	1,088.8	2.1	2.0	-172.24	31.9	-126.4	172.8	168.9	3.82	45.175		
1,200.0	1,197.6	1,188.6	1,187.1	2.3	2.2	-171.42	37.2	-130.8	189.9	185.7	4.18	45.397		
1,300.0	1,296.9	1,288.8	1,287.1	2.6	2.5	-170.56	43.0	-134.8	206.7	202.1	4.55	45.413		
1,400.0	1,396.2	1,389.5	1,387.5	2.8	2.7	-169.44	50.0	-137.5	222.5	217.6	4.93	45.166		
1,500.0	1,495.5	1,489.5	1,487.1	3.1	2.9	-168.14	58.2	-139.1	237.7	232.4	5.31	44.770		
1,600.0	1,594.8	1,588.2	1,585.5	3.3	3.1	-166.95	66.4	-140.3	252.7	247.1	5.69	44.415		
1,700.0	1,694.1	1,687.0	1,683.9	3.6	3.3	-165.90	74.6	-141.6	267.9	261.8	6.07	44.104		
1,800.0	1,793.4	1,785.7	1,782.3	3.9	3.5	-164.95	82.9	-142.9	283.2	276.7	6.46	43.830		
1,900.0	1,892.7	1,884.4	1,880.6	4.1	3.7	-164.11	91.1	-144.1	298.5	291.6	6.85	43.585		
2,000.0	1,992.0	1,983.2	1,979.0	4.4	4.0	-163.34	99.3	-145.4	313.8	306.6	7.24	43.365		
2,100.0	2,091.3	2,081.9	2,077.4	4.7	4.2	-162.65	107.5	-146.7	329.3	321.6	7.63	43.167		
2,200.0	2,190.6	2,180.6	2,175.8	4.9	4.4	-162.02	115.8	-148.0	344.7	336.7	8.02	42.987		
2,300.0	2,289.9	2,279.4	2,274.1	5.2	4.6	-161.44	124.0	-149.2	360.2	351.8	8.41	42.822		
2,400.0	2,389.2	2,378.1	2,372.5	5.5	4.8	-160.91	132.2	-150.5	375.8	367.0	8.81	42.672		
2,500.0	2,488.5	2,476.8	2,470.9	5.7	5.1	-160.43	140.5	-151.8	391.3	382.1	9.20	42.534		
2,600.0	2,587.8	2,575.5	2,569.3	6.0	5.3	-159.98	148.7	-153.1	406.9	397.3	9.60	42.406		
2,700.0	2,687.1	2,674.3	2,667.7	6.3	5.5	-159.56	156.9	-154.3	422.5	412.5	9.99	42.288		
2,800.0	2,786.4	2,773.0	2,766.0	6.5	5.7	-159.17	165.2	-155.6	438.2	427.8	10.39	42.178		
2,900.0	2,885.7	2,871.7	2,864.4	6.8	6.0	-158.81	173.4	-156.9	453.8	443.0	10.79	42.076		
3,000.0	2,985.0	2,970.5	2,962.8	7.1	6.2	-158.48	181.6	-158.2	469.5	458.3	11.18	41.980		
3,100.0	3,084.3	3,069.2	3,061.2	7.3	6.4	-158.16	189.9	-159.4	485.2	473.6	11.58	41.891		
3,200.0	3,183.6	3,167.9	3,159.5	7.6	6.6	-157.87	198.1	-160.7	500.9	488.9	11.98	41.808		
3,300.0	3,282.9	3,266.6	3,257.9	7.9	6.8	-157.59	206.3	-162.0	516.6	504.2	12.38	41.729		
3,400.0	3,382.2	3,365.4	3,356.3	8.1	7.1	-157.33	214.6	-163.3	532.3	519.5	12.78	41.655		
3,500.0	3,481.5	3,464.1	3,454.7	8.4	7.3	-157.08	222.8	-164.5	548.0	534.8	13.18	41.586		
3,600.0	3,580.9	3,562.8	3,553.0	8.7	7.5	-156.85	231.0	-165.8	563.7	550.2	13.58	41.520		
3,700.0	3,680.2	3,661.6	3,651.4	9.0	7.7	-156.63	239.2	-167.1	579.5	565.5	13.98	41.458		
3,800.0	3,779.5	3,760.3	3,749.8	9.2	8.0	-156.43	247.5	-168.4	595.2	580.9	14.38	41.399		
3,900.0	3,878.8	3,859.0	3,848.2	9.5	8.2	-156.23	255.7	-169.6	611.0	596.2	14.78	41.343		
4,000.0	3,978.1	3,957.7	3,946.6	9.8	8.4	-156.04	263.9	-170.9	626.8	611.6	15.18	41.290		
4,100.0	4,077.4	4,056.5	4,044.9	10.0	8.6	-155.86	272.2	-172.2	642.5	627.0	15.58	41.239		
4,200.0	4,176.7	4,155.2	4,143.3	10.3	8.9	-155.69	280.4	-173.4	658.3	642.3	15.98	41.191		
4,300.0	4,276.0	4,253.9	4,241.7	10.6	9.1	-155.53	288.6	-174.7	674.1	657.7	16.38	41.145		
4,400.0	4,375.3	4,352.7	4,340.1	10.8	9.3	-155.38	296.9	-176.0	689.9	673.1	16.79	41.102		
4,500.0	4,474.6	4,451.4	4,438.4	11.1	9.5	-155.23	305.1	-177.3	705.7	688.5	17.19	41.060		
4,600.0	4,573.9	4,550.1	4,536.8	11.4	9.8	-155.09	313.3	-178.5	721.5	703.9	17.59	41.020		
4,700.0	4,673.2	4,648.8	4,635.2	11.7	10.0	-154.96	321.6	-179.8	737.3	719.3	17.99	40.982		
4,800.0	4,772.5	4,747.6	4,733.6	11.9	10.2	-154.83	329.8	-181.1	753.1	734.7	18.39	40.945		
4,900.0	4,871.8	4,846.3	4,831.9	12.2	10.4	-154.70	338.0	-182.4	768.9	750.1	18.80	40.910		
5,000.0	4,971.1	4,945.0	4,930.3	12.5	10.7	-154.58	346.3	-183.6	784.7	765.5	19.20	40.876		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/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	
5,100.0	5,070.4	5,043.8	5,028.7	12.7	10.9	-154.47	354.5	-184.9	800.5	780.9	19.60	40.844	
5,200.0	5,169.7	5,142.5	5,127.1	13.0	11.1	-154.36	362.7	-186.2	816.4	796.4	20.00	40.813	
5,300.0	5,269.0	5,241.2	5,225.5	13.3	11.3	-154.26	370.9	-187.5	832.2	811.8	20.41	40.783	
5,400.0	5,368.3	5,340.0	5,323.8	13.5	11.6	-154.15	379.2	-188.7	848.0	827.2	20.81	40.754	
5,500.0	5,467.6	5,438.7	5,422.2	13.8	11.8	-154.06	387.4	-190.0	863.8	842.6	21.21	40.726	
5,600.0	5,566.9	5,537.4	5,520.6	14.1	12.0	-153.96	395.6	-191.3	879.7	858.0	21.61	40.699	
5,700.0	5,666.2	5,636.1	5,619.0	14.4	12.2	-153.87	403.9	-192.6	895.5	873.5	22.02	40.674	
5,800.0	5,765.5	5,734.9	5,717.3	14.6	12.5	-153.78	412.1	-193.8	911.3	888.9	22.42	40.649	
5,900.0	5,864.8	5,833.6	5,815.7	14.9	12.7	-153.70	420.3	-195.1	927.2	904.3	22.82	40.625	
6,000.0	5,964.1	5,932.3	5,914.1	15.2	12.9	-153.62	428.6	-196.4	943.0	919.8	23.23	40.601	
6,100.0	6,063.4	6,031.1	6,012.5	15.4	13.1	-153.54	436.8	-197.7	958.8	935.2	23.63	40.579	
6,200.0	6,162.7	6,129.8	6,110.8	15.7	13.4	-153.46	445.0	-198.9	974.7	950.6	24.03	40.557	
6,300.0	6,262.0	6,228.5	6,209.2	16.0	13.6	-153.39	453.3	-200.2	990.5	966.1	24.44	40.536	
6,400.0	6,361.3	6,327.2	6,307.6	16.2	13.8	-153.31	461.5	-201.5	1,006.4	981.5	24.84	40.516	
6,500.0	6,460.7	6,426.0	6,406.0	16.5	14.0	-153.24	469.7	-202.7	1,022.2	997.0	25.24	40.496	
6,600.0	6,560.0	6,524.7	6,504.4	16.8	14.3	-153.18	478.0	-204.0	1,038.1	1,012.4	25.65	40.477	
6,700.0	6,659.3	6,623.4	6,602.7	17.1	14.5	-153.11	486.2	-205.3	1,053.9	1,027.9	26.05	40.458	
6,800.0	6,758.6	6,722.2	6,701.1	17.3	14.7	-153.05	494.4	-206.6	1,069.8	1,043.3	26.45	40.440	
6,900.0	6,857.9	6,820.9	6,799.5	17.6	14.9	-152.99	502.6	-207.8	1,085.6	1,058.8	26.86	40.422	
7,000.0	6,957.2	6,919.6	6,897.9	17.9	15.1	-152.93	510.8	-209.0	1,101.4	1,074.6	27.26	40.404	
7,100.0	7,056.5	7,018.4	6,996.7	18.1	15.3	-152.87	519.0	-210.2	1,117.2	1,090.4	27.66	40.386	
7,200.0	7,155.8	7,117.3	7,095.4	18.4	15.5	-152.81	527.2	-211.4	1,133.0	1,106.2	28.06	40.368	
7,300.0	7,255.1	7,216.3	7,194.4	18.7	15.7	-152.75	535.4	-212.6	1,148.8	1,122.0	28.46	40.350	
7,400.0	7,354.4	7,315.3	7,293.9	19.0	15.9	-152.69	543.6	-213.8	1,164.6	1,137.8	28.86	40.332	
7,500.0	7,453.7	7,414.3	7,393.9	19.3	16.1	-152.63	551.8	-215.0	1,180.4	1,153.6	29.26	40.314	
7,600.0	7,553.0	7,513.4	7,493.9	19.6	16.3	-152.57	560.0	-216.2	1,196.2	1,169.4	29.66	40.296	
7,700.0	7,652.3	7,612.5	7,593.9	19.9	16.5	-152.51	568.2	-217.4	1,212.0	1,185.2	30.06	40.278	
7,800.0	7,751.6	7,711.6	7,693.9	20.2	16.7	-152.45	576.4	-218.6	1,227.8	1,201.0	30.46	40.260	
7,900.0	7,850.9	7,810.7	7,793.9	20.5	16.9	-152.39	584.6	-219.8	1,243.6	1,216.8	30.86	40.242	
8,000.0	7,950.2	7,909.8	7,893.9	20.8	17.1	-152.33	592.8	-221.0	1,259.4	1,232.6	31.26	40.224	
8,100.0	8,049.5	8,008.9	7,993.9	21.1	17.3	-152.27	601.0	-222.2	1,275.2	1,248.4	31.66	40.206	
8,200.0	8,148.8	8,108.1	8,093.9	21.4	17.5	-152.21	609.2	-223.4	1,291.0	1,264.2	32.06	40.188	
8,300.0	8,248.1	8,207.2	8,193.9	21.7	17.7	-152.15	617.4	-224.6	1,306.8	1,280.0	32.46	40.170	
8,400.0	8,347.4	8,306.3	8,293.9	22.0	17.9	-152.09	625.6	-225.8	1,322.6	1,295.8	32.86	40.152	
8,500.0	8,446.7	8,405.4	8,393.9	22.3	18.1	-152.03	633.8	-227.0	1,338.4	1,311.6	33.26	40.134	
8,600.0	8,546.0	8,504.5	8,493.9	22.6	18.3	-151.97	642.0	-228.2	1,354.2	1,327.4	33.66	40.116	
8,700.0	8,645.3	8,603.6	8,593.9	22.9	18.5	-151.91	650.2	-229.4	1,370.0	1,343.2	34.06	40.098	
8,800.0	8,744.6	8,702.7	8,693.9	23.2	18.7	-151.85	658.4	-230.6	1,385.8	1,359.0	34.46	40.080	
8,900.0	8,843.9	8,801.9	8,793.9	23.5	18.9	-151.79	666.6	-231.8	1,401.6	1,374.8	34.86	40.062	
9,000.0	8,943.2	8,901.1	8,893.9	23.8	19.1	-151.73	674.8	-233.0	1,417.4	1,390.6	35.26	40.044	
9,100.0	9,042.5	9,000.3	8,993.9	24.1	19.3	-151.67	683.0	-234.2	1,433.2	1,406.4	35.66	40.026	
9,200.0	9,141.8	9,099.5	9,093.9	24.4	19.5	-151.61	691.2	-235.4	1,449.0	1,422.2	36.06	40.008	
9,300.0	9,241.1	9,198.8	9,193.9	24.7	19.7	-151.55	699.4	-236.6	1,464.8	1,438.0	36.46	39.990	
9,400.0	9,340.4	9,298.1	9,293.9	25.0	19.9	-151.49	707.6	-237.8	1,480.6	1,453.8	36.86	39.972	
9,500.0	9,439.7	9,397.4	9,393.9	25.3	20.1	-151.43	715.8	-239.0	1,496.4	1,469.6	37.26	39.954	
9,600.0	9,539.0	9,496.7	9,493.9	25.6	20.3	-151.37	724.0	-240.2	1,512.2	1,485.4	37.66	39.936	
9,700.0	9,638.3	9,596.0	9,593.9	25.9	20.5	-151.31	732.2	-241.4	1,528.0	1,501.2	38.06	39.918	
9,800.0	9,737.6	9,695.3	9,693.9	26.2	20.7	-151.25	740.4	-242.6	1,543.8	1,517.0	38.46	39.900	
9,900.0	9,836.9	9,794.6	9,793.9	26.5	20.9	-151.19	748.6	-243.8	1,559.6	1,532.8	38.86	39.882	
10,000.0	9,936.2	9,893.9	9,893.9	26.8	21.1	-151.13	756.8	-245.0	1,575.4	1,548.6	39.26	39.864	
10,100.0	10,035.5	9,993.6	9,993.9	27.1	21.3	-151.07	765.0	-246.2	1,591.2	1,564.4	39.66	39.846	
10,200.0	10,134.8	10,092.7	10,093.9	27.4	21.5	-151.01	773.2	-247.4	1,607.0	1,580.2	40.06	39.828	
10,300.0	10,234.1	10,192.0	10,193.9	27.7	21.7	-150.95	781.4	-248.6	1,622.8	1,596.0	40.46	39.810	
10,400.0	10,333.4	10,291.1	10,293.9	28.0	21.9	-150.89	789.6	-249.8	1,638.6	1,611.8	40.86	39.792	
10,500.0	10,432.7	10,390.4	10,393.9	28.3	22.1	-150.83	797.8	-251.0	1,654.4	1,627.6	41.26	39.774	
10,600.0	10,532.0	10,489.7	10,493.9	28.6	22.3	-150.77	806.0	-252.2	1,670.2	1,643.4	41.66	39.756	
10,700.0	10,631.3	10,589.0	10,593.9	28.9	22.5	-150.71	814.2	-253.4	1,686.0	1,659.2	42.06	39.738	
10,800.0	10,730.6	10,687.7	10,693.9	29.2	22.7	-150.65	822.4	-254.6	1,701.8	1,675.0	42.46	39.720	
10,900.0	10,829.9	10,786.8	10,793.9	29.5	22.9	-150.59	830.6	-255.8	1,717.6	1,690.8	42.86	39.702	
11,000.0	10,929.2	10,886.1	10,893.9	29.8	23.1	-150.53	838.8	-257.0	1,733.4	1,706.6	43.26	39.684	
11,100.0	11,028.5	10,985.0	10,993.9	30.1	23.3	-150.47	847.0	-258.2	1,749.2	1,722.4	43.66	39.666	
11,200.0	11,127.8	11,083.9	11,093.9	30.4	23.5	-150.41	855.2	-259.4	1,765.0	1,738.2	44.06	39.648	
11,300.0	11,227.1	11,181.0	11,193.9	30.7	23.7	-150.35	863.4	-260.6	1,780.8	1,754.0	44.46	39.630	
11,400.0	11,326.4	11,279.9	11,293.9	31.0	23.9	-150.29	871.6	-261.8	1,796.6	1,769.8	44.86	39.612	
11,500.0	11,425.7	11,378.8	11,393.9	31.3	24.1	-150.23	879.8	-263.0	1,812.4	1,785.6	45.26	39.594	
11,600.0	11,525.0	11,477.7	11,493.9	31.6	24.3	-150.17	888.0	-264.2	1,828.2	1,801.4	45.66	39.576	
11,700.0	11,624.3	11,576.6	11,593.9	31.9	24.5	-150.11	896.2	-265.4	1,844.0	1,817.2	46.06	39.558	
11,800.0	11,723.6	11,675.5	11,693.9	32.2	24.7	-150.05	904.4	-266.6	1,859.8	1,833.0	46.46	39.540	
11,900.0	11,822.9	11,774.4	11,793.9	32.5	24.9	-149.99	912.6	-267.8	1,875.6	1,848.8	46.86	39.522	
12,000.0	11,922.2	11,873.3	11,893.9	32.8	25.1	-149.93	920.8	-269.0	1,891.4	1,864.6	47.26	39.504	
12,100.0	12,021.5	11,											

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
9,100.0	7,740.0	7,219.3	7,187.6	34.2	14.9	-61.96	448.7	-212.9	1,573.9	1,532.8	41.10	38.292		
9,200.0	7,740.0	7,200.0	7,170.3	35.6	14.9	-61.21	457.1	-212.6	1,641.9	1,599.6	42.32	38.797		
9,300.0	7,740.0	7,200.0	7,170.3	37.1	14.9	-61.21	457.1	-212.6	1,712.8	1,669.0	43.74	39.159		
9,400.0	7,740.0	7,180.8	7,152.7	38.6	15.0	-60.46	465.0	-212.4	1,786.1	1,741.1	44.94	39.745		
9,500.0	7,740.0	7,170.1	7,142.9	40.1	15.0	-60.05	469.1	-212.3	1,861.7	1,815.4	46.23	40.269		
9,600.0	7,740.0	7,150.0	7,124.1	41.7	15.0	-59.27	476.4	-212.0	1,939.4	1,892.0	47.39	40.926		
9,700.0	7,740.0	7,150.0	7,124.1	43.2	15.0	-59.27	476.4	-212.0	2,018.7	1,969.8	48.82	41.353		
9,800.0	7,740.0	7,150.0	7,124.1	44.8	15.0	-59.27	476.4	-212.0	2,099.7	2,049.5	50.25	41.785		
9,900.0	7,740.0	7,150.0	7,124.1	46.4	15.0	-59.27	476.4	-212.0	2,182.4	2,130.7	51.69	42.219		
10,000.0	7,740.0	7,128.5	7,103.8	48.0	15.1	-58.44	483.4	-211.8	2,265.9	2,213.2	52.77	42.936		
10,100.0	7,740.0	7,121.9	7,097.5	49.6	15.1	-58.18	485.4	-211.7	2,350.9	2,296.8	54.10	43.458		
10,200.0	7,740.0	7,100.0	7,076.5	51.2	15.1	-57.34	491.5	-211.4	2,437.2	2,382.1	55.13	44.209		
10,300.0	7,740.0	7,100.0	7,076.5	52.8	15.1	-57.34	491.5	-211.4	2,524.0	2,467.5	56.56	44.628		
10,400.0	7,740.0	7,100.0	7,076.5	54.5	15.1	-57.34	491.5	-211.4	2,611.8	2,553.8	57.99	45.039		
10,500.0	7,740.0	7,100.0	7,076.5	56.1	15.1	-57.34	491.5	-211.4	2,700.5	2,641.0	59.43	45.443		
10,600.0	7,740.0	7,100.0	7,076.5	57.7	15.1	-57.34	491.5	-211.4	2,789.9	2,729.0	60.86	45.838		
10,700.0	7,740.0	7,100.0	7,076.5	59.4	15.1	-57.34	491.5	-211.4	2,880.0	2,817.7	62.30	46.224		
10,800.0	7,740.0	7,100.0	7,076.5	61.1	15.1	-57.34	491.5	-211.4	2,970.7	2,906.9	63.75	46.601		
10,900.0	7,740.0	7,100.0	7,076.5	62.7	15.1	-57.34	491.5	-211.4	3,062.0	2,996.8	65.19	46.968		
11,000.0	7,740.0	7,078.8	7,055.9	64.4	15.2	-56.54	496.7	-211.2	3,153.4	3,087.3	66.12	47.690		
11,100.0	7,740.0	7,075.2	7,052.5	66.1	15.2	-56.40	497.4	-211.1	3,245.6	3,178.1	67.47	48.104		
11,200.0	7,740.0	7,071.9	7,049.2	67.7	15.2	-56.28	498.2	-211.1	3,338.1	3,269.3	68.82	48.506		
11,300.0	7,740.0	7,050.0	7,027.7	69.4	15.2	-55.45	502.4	-210.8	3,431.5	3,361.8	69.67	49.253		
11,395.3	7,740.0	7,050.0	7,027.7	71.0	15.2	-55.45	502.4	-210.8	3,520.4	3,449.3	71.03	49.564		
11,400.0	7,740.0	7,050.0	7,027.7	71.1	15.2	-55.38	502.4	-210.8	3,524.7	3,453.7	71.05	49.609		
11,500.0	7,740.0	7,050.0	7,027.7	72.8	15.2	-53.80	502.4	-210.8	3,618.6	3,547.2	71.42	50.668		
11,584.7	7,740.0	7,050.0	7,027.7	74.2	15.2	-52.32	502.4	-210.8	3,698.7	3,627.2	71.51	51.723		
11,600.0	7,740.0	7,050.0	7,027.7	74.5	15.2	-52.32	502.4	-210.8	3,713.3	3,641.5	71.72	51.774		
11,700.0	7,740.0	7,050.0	7,027.7	76.2	15.2	-52.32	502.4	-210.8	3,808.3	3,735.2	73.09	52.104		
11,800.0	7,740.0	7,050.0	7,027.7	77.9	15.2	-52.32	502.4	-210.8	3,903.7	3,829.2	74.46	52.424		
11,900.0	7,740.0	7,050.0	7,027.7	79.6	15.2	-52.32	502.4	-210.8	3,999.2	3,923.4	75.84	52.735		
12,000.0	7,740.0	7,050.0	7,027.7	81.3	15.2	-52.32	502.4	-210.8	4,095.0	4,017.8	77.21	53.037		
12,100.0	7,740.0	7,050.0	7,027.7	83.0	15.2	-52.32	502.4	-210.8	4,190.9	4,112.4	78.59	53.330		
12,200.0	7,740.0	7,050.0	7,027.7	84.8	15.2	-52.32	502.4	-210.8	4,287.1	4,207.1	79.96	53.615		
12,300.0	7,740.0	7,050.0	7,027.7	86.5	15.2	-52.32	502.4	-210.8	4,383.4	4,302.1	81.34	53.892		
12,400.0	7,740.0	7,050.0	7,027.7	88.2	15.2	-52.32	502.4	-210.8	4,479.9	4,397.2	82.71	54.161		
12,500.0	7,740.0	7,050.0	7,027.7	89.9	15.2	-52.32	502.4	-210.8	4,576.5	4,492.4	84.09	54.423		
12,600.0	7,740.0	7,050.0	7,027.7	91.6	15.2	-52.32	502.4	-210.8	4,673.3	4,587.8	85.47	54.677		
12,700.0	7,740.0	7,050.0	7,027.7	93.3	15.2	-52.32	502.4	-210.8	4,770.2	4,683.4	86.85	54.925		
12,800.0	7,740.0	7,050.0	7,027.7	95.1	15.2	-52.32	502.4	-210.8	4,867.2	4,779.0	88.23	55.166		
12,900.0	7,740.0	7,050.0	7,027.7	96.8	15.2	-52.32	502.4	-210.8	4,964.4	4,874.8	89.61	55.401		
13,000.0	7,740.0	7,050.0	7,027.7	98.5	15.2	-52.32	502.4	-210.8	5,061.6	4,970.7	90.99	55.629		
13,100.0	7,740.0	7,050.0	7,027.7	100.2	15.2	-52.32	502.4	-210.8	5,159.0	5,066.6	92.37	55.852		
13,200.0	7,740.0	7,050.0	7,027.7	102.0	15.2	-52.32	502.4	-210.8	5,256.5	5,162.7	93.75	56.068		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.77	0.4	-90.1	90.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.77	0.4	-90.1	90.1	89.8	0.30	296.759		
200.0	200.0	200.0	200.0	0.3	0.3	-89.77	0.4	-90.1	90.1	89.5	0.65	138.064		
300.0	300.0	300.0	300.0	0.5	0.5	-89.77	0.4	-90.1	90.1	89.1	1.00	89.958		
400.0	400.0	400.0	400.0	0.7	0.7	-89.77	0.4	-90.1	90.1	88.8	1.35	66.713 CC, ES		
500.0	500.0	500.7	500.7	0.9	0.9	176.76	1.2	-89.7	90.6	88.9	1.70	53.258		
600.0	600.0	601.3	601.3	1.0	1.0	178.34	3.5	-88.6	92.1	90.1	2.05	44.858		
700.0	699.9	701.8	701.7	1.2	1.2	-179.14	7.5	-86.6	94.8	92.4	2.41	39.320		
800.0	799.7	802.1	801.8	1.4	1.4	-175.86	13.0	-83.9	98.9	96.1	2.78	35.591		
900.0	899.4	902.2	901.6	1.6	1.6	-172.03	20.1	-80.5	104.5	101.4	3.16	33.098		
1,000.0	998.9	1,001.7	1,000.7	1.8	1.8	-168.40	27.9	-76.7	112.2	108.6	3.55	31.634		
1,076.7	1,075.1	1,077.9	1,076.5	2.0	2.0	-166.07	33.9	-73.8	119.4	115.6	3.85	31.039		
1,100.0	1,098.3	1,101.0	1,099.6	2.1	2.0	-165.43	35.7	-72.9	121.8	117.9	3.94	30.912		
1,200.0	1,197.6	1,200.3	1,198.6	2.3	2.3	-162.99	43.4	-69.2	132.2	127.9	4.34	30.431		
1,300.0	1,296.9	1,299.7	1,297.5	2.6	2.5	-160.90	51.2	-65.4	142.8	138.1	4.75	30.039		
1,400.0	1,396.2	1,399.0	1,396.4	2.8	2.7	-159.10	58.9	-61.6	153.6	148.4	5.17	29.713		
1,500.0	1,495.5	1,498.3	1,495.4	3.1	2.9	-157.54	66.7	-57.8	164.5	158.9	5.59	29.437		
1,600.0	1,594.8	1,597.6	1,594.3	3.3	3.2	-156.17	74.4	-54.1	175.5	169.5	6.01	29.201		
1,700.0	1,694.1	1,696.9	1,693.3	3.6	3.4	-154.96	82.2	-50.3	186.6	180.2	6.44	28.996		
1,800.0	1,793.4	1,796.2	1,792.2	3.9	3.6	-153.90	89.9	-46.5	197.8	190.9	6.86	28.816		
1,900.0	1,892.7	1,895.5	1,891.1	4.1	3.8	-152.94	97.7	-42.8	209.0	201.7	7.29	28.658		
2,000.0	1,992.0	1,994.8	1,990.1	4.4	4.1	-152.08	105.5	-39.0	220.3	212.5	7.72	28.516		
2,100.0	2,091.3	2,094.1	2,089.0	4.7	4.3	-151.31	113.2	-35.2	231.6	223.4	8.16	28.390		
2,200.0	2,190.6	2,193.5	2,187.9	4.9	4.5	-150.61	121.0	-31.4	242.9	234.4	8.59	28.277		
2,300.0	2,289.9	2,292.8	2,286.9	5.2	4.7	-149.97	128.7	-27.7	254.3	245.3	9.03	28.174		
2,400.0	2,389.2	2,392.1	2,385.8	5.5	5.0	-149.38	136.5	-23.9	265.8	256.3	9.46	28.081		
2,500.0	2,488.5	2,491.4	2,484.7	5.7	5.2	-148.85	144.2	-20.1	277.2	267.3	9.90	27.995		
2,600.0	2,587.8	2,590.7	2,583.7	6.0	5.4	-148.35	152.0	-16.3	288.7	278.3	10.34	27.917		
2,700.0	2,687.1	2,690.0	2,682.6	6.3	5.6	-147.90	159.7	-12.6	300.2	289.4	10.78	27.846		
2,800.0	2,786.4	2,789.3	2,781.5	6.5	5.9	-147.48	167.5	-8.8	311.7	300.5	11.22	27.780		
2,900.0	2,885.7	2,888.6	2,880.5	6.8	6.1	-147.08	175.2	-5.0	323.2	311.5	11.66	27.719		
3,000.0	2,985.0	2,987.9	2,979.4	7.1	6.3	-146.72	183.0	-1.2	334.7	322.6	12.10	27.662		
3,100.0	3,084.3	3,087.2	3,078.3	7.3	6.6	-146.38	190.8	2.5	346.3	333.7	12.54	27.609		
3,200.0	3,183.6	3,186.6	3,177.3	7.6	6.8	-146.06	198.5	6.3	357.8	344.9	12.98	27.560		
3,300.0	3,282.9	3,285.9	3,276.2	7.9	7.0	-145.76	206.3	10.1	369.4	356.0	13.43	27.515		
3,400.0	3,382.2	3,385.2	3,375.2	8.1	7.2	-145.48	214.0	13.8	381.0	367.1	13.87	27.472		
3,500.0	3,481.5	3,484.5	3,474.1	8.4	7.5	-145.21	221.8	17.6	392.6	378.3	14.31	27.432		
3,600.0	3,580.9	3,583.8	3,573.0	8.7	7.7	-144.97	229.5	21.4	404.2	389.4	14.75	27.394		
3,700.0	3,680.2	3,683.1	3,672.0	9.0	7.9	-144.73	237.3	25.2	415.8	400.6	15.20	27.358		
3,800.0	3,779.5	3,782.4	3,770.9	9.2	8.2	-144.51	245.0	28.9	427.4	411.7	15.64	27.325		
3,900.0	3,878.8	3,881.7	3,869.8	9.5	8.4	-144.30	252.8	32.7	439.0	422.9	16.08	27.293		
4,000.0	3,978.1	3,981.0	3,968.8	9.8	8.6	-144.10	260.5	36.5	450.6	434.1	16.53	27.263		
4,100.0	4,077.4	4,080.4	4,067.7	10.0	8.8	-143.91	268.3	40.3	462.3	445.3	16.97	27.235		
4,200.0	4,176.7	4,179.7	4,166.6	10.3	9.1	-143.73	276.0	44.0	473.9	456.5	17.42	27.208		
4,300.0	4,276.0	4,279.0	4,265.6	10.6	9.3	-143.56	283.8	47.8	485.5	467.7	17.86	27.183		
4,400.0	4,375.3	4,378.3	4,364.5	10.8	9.5	-143.39	291.6	51.6	497.2	478.8	18.31	27.158		
4,500.0	4,474.6	4,477.6	4,463.4	11.1	9.8	-143.24	299.3	55.4	508.8	490.0	18.75	27.135		
4,600.0	4,573.9	4,576.9	4,562.4	11.4	10.0	-143.09	307.1	59.1	520.4	501.3	19.20	27.113		
4,700.0	4,673.2	4,676.2	4,661.3	11.7	10.2	-142.94	314.8	62.9	532.1	512.5	19.64	27.092		
4,800.0	4,772.5	4,775.5	4,760.3	11.9	10.5	-142.81	322.6	66.7	543.7	523.7	20.09	27.072		
4,900.0	4,871.8	4,874.8	4,859.2	12.2	10.7	-142.68	330.3	70.5	555.4	534.9	20.53	27.053		
5,000.0	4,971.1	4,974.1	4,958.1	12.5	10.9	-142.55	338.1	74.2	567.1	546.1	20.98	27.035		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,070.4	5,073.5	5,057.1	12.7	11.1	-142.43	345.8	78.0	578.7	557.3	21.42	27.017	
5,200.0	5,169.7	5,172.8	5,156.0	13.0	11.4	-142.32	353.6	81.8	590.4	568.5	21.87	27.000	
5,300.0	5,269.0	5,272.1	5,254.9	13.3	11.6	-142.20	361.3	85.5	602.1	579.7	22.31	26.984	
5,400.0	5,368.3	5,371.4	5,353.9	13.5	11.8	-142.10	369.1	89.3	613.7	591.0	22.76	26.969	
5,500.0	5,467.6	5,470.7	5,452.8	13.8	12.1	-141.99	376.9	93.1	625.4	602.2	23.20	26.954	
5,600.0	5,566.9	5,570.0	5,551.7	14.1	12.3	-141.90	384.6	96.9	637.1	613.4	23.65	26.939	
5,700.0	5,666.2	5,669.3	5,650.7	14.4	12.5	-141.80	392.4	100.6	648.7	624.6	24.09	26.926	
5,800.0	5,765.5	5,768.6	5,749.6	14.6	12.7	-141.71	400.1	104.4	660.4	635.9	24.54	26.912	
5,900.0	5,864.8	5,867.9	5,848.5	14.9	13.0	-141.62	407.9	108.2	672.1	647.1	24.99	26.900	
6,000.0	5,964.1	5,967.3	5,947.5	15.2	13.2	-141.53	415.6	112.0	683.8	658.3	25.43	26.887	
6,100.0	6,063.4	6,066.6	6,046.4	15.4	13.4	-141.45	423.4	115.7	695.5	669.6	25.88	26.875	
6,200.0	6,162.7	6,165.9	6,145.3	15.7	13.7	-141.37	431.1	119.5	707.1	680.8	26.32	26.864	
6,300.0	6,262.0	6,265.2	6,244.3	16.0	13.9	-141.29	438.9	123.3	718.8	692.0	26.77	26.853	
6,400.0	6,361.3	6,364.5	6,343.2	16.2	14.1	-141.22	446.6	127.1	730.5	703.3	27.21	26.842	
6,500.0	6,460.7	6,463.8	6,442.2	16.5	14.3	-141.14	454.4	130.8	742.2	714.5	27.66	26.832	
6,600.0	6,560.0	6,563.1	6,541.1	16.8	14.6	-141.07	462.2	134.6	753.9	725.8	28.11	26.821	
6,700.0	6,659.3	6,662.4	6,640.0	17.1	14.8	-141.00	469.9	138.4	765.6	737.0	28.55	26.812	
6,800.0	6,758.6	6,761.7	6,739.0	17.3	15.0	-140.94	477.7	142.1	777.2	748.2	29.00	26.802	
6,900.0	6,857.9	6,861.0	6,837.9	17.6	15.3	-140.87	485.4	145.9	788.9	759.5	29.45	26.793	
7,000.0	6,957.2	6,960.4	6,936.8	17.9	15.5	-140.81	493.2	149.7	800.6	770.7	29.89	26.784	
7,100.0	7,056.5	7,059.7	7,035.8	18.1	15.7	-140.75	500.9	153.5	812.3	782.0	30.34	26.776	
7,200.0	7,155.8	7,700.0	7,611.3	18.4	15.0	-154.73	298.5	175.4	820.0	791.3	28.70	28.574	
7,210.0	7,165.7	7,850.0	7,689.8	18.4	14.7	-164.35	171.2	178.4	814.9	787.6	27.32	29.825	
7,250.0	7,205.4	7,988.2	7,730.7	18.5	14.7	-146.76	39.5	180.0	791.9	765.3	26.58	29.796	
7,300.0	7,254.8	8,007.4	7,733.8	18.7	14.7	-127.69	20.6	180.1	763.8	737.1	26.68	28.626	
7,350.0	7,303.5	7,999.3	7,732.6	18.8	14.7	-118.14	28.6	180.0	738.0	711.2	26.77	27.571	
7,400.0	7,351.2	7,983.3	7,729.8	18.9	14.7	-112.89	44.4	179.9	714.7	687.9	26.83	26.644	
7,450.0	7,397.6	7,963.8	7,725.8	19.0	14.7	-109.49	63.5	179.8	694.3	667.5	26.86	25.848	
7,500.0	7,442.2	7,942.5	7,720.7	19.2	14.7	-106.89	84.1	179.6	676.9	650.0	26.90	25.160	
7,550.0	7,484.8	7,920.2	7,714.5	19.3	14.7	-104.63	105.5	179.4	662.6	635.6	26.99	24.553	
7,600.0	7,525.0	7,897.3	7,707.3	19.5	14.7	-102.48	127.3	179.1	651.6	624.5	27.12	24.025	
7,650.0	7,562.4	7,873.9	7,699.1	19.6	14.7	-100.30	149.1	178.8	643.8	616.4	27.34	23.548	
7,700.0	7,596.9	7,850.3	7,689.9	19.8	14.7	-98.03	170.9	178.4	639.1	611.5	27.63	23.133	
7,750.0	7,628.2	7,826.4	7,679.7	20.0	14.7	-95.65	192.5	178.0	637.6	609.6	28.01	22.764	
7,751.9	7,629.3	7,825.5	7,679.3	20.0	14.7	-95.56	193.4	178.0	637.6	609.5	28.02	22.750	
7,800.0	7,656.0	7,802.3	7,668.5	20.3	14.8	-93.15	213.8	177.6	638.9	610.4	28.44	22.465	
7,850.0	7,680.1	7,778.1	7,656.3	20.5	14.8	-90.53	234.8	177.1	642.7	613.8	28.90	22.236	
7,900.0	7,700.3	7,753.8	7,643.3	20.8	14.9	-87.82	255.2	176.6	648.9	619.6	29.36	22.103	
7,950.0	7,716.5	7,729.5	7,629.3	21.1	14.9	-85.05	275.2	176.1	657.1	627.4	29.77	22.072 SF	
8,000.0	7,728.5	7,700.0	7,611.3	21.5	15.0	-81.93	298.5	175.4	667.0	636.9	30.11	22.156	
8,050.0	7,736.3	7,680.5	7,598.8	21.9	15.1	-79.48	313.3	174.9	678.2	647.8	30.33	22.360	
8,100.0	7,739.8	7,650.0	7,578.1	22.2	15.2	-76.41	335.8	174.2	690.4	660.0	30.42	22.696	
8,115.3	7,740.0	7,650.0	7,578.1	22.4	15.2	-76.03	335.8	174.2	694.3	663.8	30.45	22.800	
8,200.0	7,740.0	7,609.7	7,549.1	23.1	15.3	-73.68	363.7	173.0	718.9	687.7	31.25	23.008	
8,300.0	7,740.0	7,570.5	7,518.9	24.1	15.4	-71.29	388.8	171.9	755.9	723.6	32.23	23.456	
8,400.0	7,740.0	7,537.1	7,492.0	25.2	15.5	-69.22	408.6	170.9	800.8	767.6	33.23	24.098	
8,500.0	7,740.0	7,500.0	7,460.8	26.3	15.6	-66.91	428.6	169.7	853.2	819.0	34.18	24.959	
8,600.0	7,740.0	7,483.9	7,446.9	27.5	15.7	-65.90	436.6	169.2	911.9	876.5	35.33	25.811	
8,700.0	7,740.0	7,450.0	7,416.9	28.7	15.8	-63.78	452.3	168.0	976.4	940.1	36.25	26.932	
8,800.0	7,740.0	7,450.0	7,416.9	30.0	15.8	-63.78	452.3	168.0	1,045.3	1,007.7	37.61	27.793	
8,900.0	7,740.0	7,427.6	7,396.5	31.4	15.8	-62.39	461.6	167.2	1,118.4	1,079.7	38.65	28.934	
9,000.0	7,740.0	7,400.0	7,371.0	32.8	15.9	-60.71	472.1	166.3	1,195.0	1,155.5	39.58	30.195	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,740.0	7,400.0	7,371.0	34.2	15.9	-60.71	472.1	166.3	1,274.2	1,233.2	40.96	31.107		
9,200.0	7,740.0	7,400.0	7,371.0	35.6	15.9	-60.71	472.1	166.3	1,356.1	1,313.7	42.36	32.013		
9,300.0	7,740.0	7,378.4	7,350.6	37.1	15.9	-59.40	479.4	165.5	1,439.7	1,396.4	43.33	33.226		
9,400.0	7,740.0	7,369.0	7,341.7	38.6	15.9	-58.85	482.3	165.1	1,525.3	1,480.7	44.53	34.249		
9,500.0	7,740.0	7,350.0	7,323.6	40.1	16.0	-57.73	487.8	164.4	1,612.4	1,566.9	45.51	35.431		
9,600.0	7,740.0	7,350.0	7,323.6	41.7	16.0	-57.73	487.8	164.4	1,700.6	1,653.7	46.91	36.255		
9,700.0	7,740.0	7,350.0	7,323.6	43.2	16.0	-57.73	487.8	164.4	1,790.1	1,741.8	48.31	37.052		
9,800.0	7,740.0	7,350.0	7,323.6	44.8	16.0	-57.73	487.8	164.4	1,880.6	1,830.9	49.72	37.821		
9,900.0	7,740.0	7,350.0	7,323.6	46.4	16.0	-57.73	487.8	164.4	1,972.0	1,920.9	51.14	38.560		
10,000.0	7,740.0	7,327.7	7,302.0	48.0	16.0	-56.44	493.4	163.6	2,063.7	2,011.8	51.94	39.735		
10,100.0	7,740.0	7,322.6	7,297.1	49.6	16.0	-56.15	494.6	163.4	2,156.4	2,103.2	53.19	40.538		
10,200.0	7,740.0	7,300.0	7,275.0	51.2	16.0	-54.88	499.3	162.6	2,249.9	2,196.0	53.91	41.732		
10,300.0	7,740.0	7,300.0	7,275.0	52.8	16.0	-54.88	499.3	162.6	2,343.5	2,288.2	55.30	42.376		
10,400.0	7,740.0	7,300.0	7,275.0	54.5	16.0	-54.88	499.3	162.6	2,437.6	2,381.0	56.70	42.996		
10,500.0	7,740.0	7,300.0	7,275.0	56.1	16.0	-54.88	499.3	162.6	2,532.2	2,474.1	58.09	43.591		
10,600.0	7,740.0	7,300.0	7,275.0	57.7	16.0	-54.88	499.3	162.6	2,627.2	2,567.7	59.49	44.163		
10,700.0	7,740.0	7,300.0	7,275.0	59.4	16.0	-54.88	499.3	162.6	2,722.5	2,661.6	60.89	44.713		
10,800.0	7,740.0	7,300.0	7,275.0	61.1	16.0	-54.88	499.3	162.6	2,818.1	2,755.8	62.29	45.242		
10,900.0	7,740.0	7,300.0	7,275.0	62.7	16.0	-54.88	499.3	162.6	2,914.1	2,850.4	63.69	45.750		
11,000.0	7,740.0	7,300.0	7,275.0	64.4	16.0	-54.88	499.3	162.6	3,010.3	2,945.2	65.10	46.240		
11,100.0	7,740.0	7,300.0	7,275.0	66.1	16.0	-54.88	499.3	162.6	3,106.7	3,040.2	66.51	46.711		
11,200.0	7,740.0	7,300.0	7,275.0	67.7	16.0	-54.88	499.3	162.6	3,203.4	3,135.5	67.92	47.165		
11,300.0	7,740.0	7,300.0	7,275.0	69.4	16.0	-54.88	499.3	162.6	3,300.2	3,230.9	69.33	47.602		
11,395.3	7,740.0	7,300.0	7,275.0	71.0	16.0	-54.88	499.3	162.6	3,392.8	3,322.1	70.68	48.004		
11,400.0	7,740.0	7,300.0	7,275.0	71.1	16.0	-54.77	499.3	162.6	3,397.3	3,326.6	70.67	48.072		
11,500.0	7,740.0	7,277.2	7,252.6	72.8	16.0	-50.95	503.1	161.7	3,494.2	3,425.0	69.18	50.512		
11,584.7	7,740.0	7,275.5	7,250.8	74.2	16.0	-48.34	503.4	161.7	3,576.9	3,508.7	68.16	52.480		
11,600.0	7,740.0	7,275.2	7,250.5	74.5	16.0	-48.32	503.4	161.7	3,591.9	3,523.5	68.34	52.559		
11,700.0	7,740.0	7,273.2	7,248.6	76.2	16.0	-48.22	503.7	161.6	3,689.8	3,620.3	69.53	53.066		
11,800.0	7,740.0	7,250.0	7,225.5	77.9	16.0	-46.96	506.5	160.7	3,788.3	3,718.7	69.60	54.426		
11,900.0	7,740.0	7,250.0	7,225.5	79.6	16.0	-46.96	506.5	160.7	3,886.3	3,815.5	70.87	54.834		
12,000.0	7,740.0	7,250.0	7,225.5	81.3	16.0	-46.96	506.5	160.7	3,984.5	3,912.3	72.14	55.229		
12,100.0	7,740.0	7,250.0	7,225.5	83.0	16.0	-46.96	506.5	160.7	4,082.7	4,009.3	73.42	55.611		
12,200.0	7,740.0	7,250.0	7,225.5	84.8	16.0	-46.96	506.5	160.7	4,181.0	4,106.4	74.69	55.980		
12,300.0	7,740.0	7,250.0	7,225.5	86.5	16.0	-46.96	506.5	160.7	4,279.4	4,203.5	75.96	56.338		
12,400.0	7,740.0	7,250.0	7,225.5	88.2	16.0	-46.96	506.5	160.7	4,377.9	4,300.7	77.23	56.684		
12,500.0	7,740.0	7,250.0	7,225.5	89.9	16.0	-46.96	506.5	160.7	4,476.5	4,397.9	78.51	57.019		
12,600.0	7,740.0	7,250.0	7,225.5	91.6	16.0	-46.96	506.5	160.7	4,575.1	4,495.3	79.78	57.344		
12,700.0	7,740.0	7,250.0	7,225.5	93.3	16.0	-46.96	506.5	160.7	4,673.7	4,592.7	81.06	57.660		
12,800.0	7,740.0	7,250.0	7,225.5	95.1	16.0	-46.96	506.5	160.7	4,772.4	4,690.1	82.33	57.965		
12,900.0	7,740.0	7,250.0	7,225.5	96.8	16.0	-46.96	506.5	160.7	4,871.2	4,787.6	83.61	58.262		
13,000.0	7,740.0	7,250.0	7,225.5	98.5	16.0	-46.96	506.5	160.7	4,970.0	4,885.1	84.89	58.550		
13,100.0	7,740.0	7,250.0	7,225.5	100.2	16.0	-46.96	506.5	160.7	5,068.9	4,982.7	86.16	58.830		
13,200.0	7,740.0	7,250.0	7,225.5	102.0	16.0	-46.96	506.5	160.7	5,167.8	5,080.4	87.44	59.102		
13,300.0	7,740.0	7,250.0	7,225.5	103.7	16.0	-46.96	506.5	160.7	5,266.8	5,178.0	88.72	59.366		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.74	0.4	-80.0	80.0				
100.0	100.0	100.0	100.0	0.2	0.2	-89.74	0.4	-80.0	80.0	79.7	0.30	263.581	
200.0	200.0	200.0	200.0	0.3	0.3	-89.74	0.4	-80.0	80.0	79.4	0.65	122.629	
300.0	300.0	300.0	300.0	0.5	0.5	-89.74	0.4	-80.0	80.0	79.0	1.00	79.901	
400.0	400.0	400.0	400.0	0.7	0.7	-89.74	0.4	-80.0	80.0	78.7	1.35	59.255 CC, ES	
500.0	500.0	500.0	500.0	0.9	0.8	176.29	0.4	-80.0	80.9	79.2	1.70	47.604	
600.0	600.0	600.9	600.9	1.0	1.0	176.88	1.0	-79.5	83.0	80.9	2.05	40.474	
700.0	699.9	701.7	701.7	1.2	1.2	178.43	3.1	-77.8	85.7	83.3	2.40	35.691	
800.0	799.7	802.5	802.4	1.4	1.4	-179.19	6.5	-75.0	89.2	86.5	2.76	32.374	
900.0	899.4	903.2	902.8	1.6	1.6	-176.14	11.3	-71.0	93.7	90.6	3.12	30.052	
1,000.0	998.9	1,003.7	1,003.0	1.8	1.8	-172.59	17.4	-66.0	99.3	95.8	3.49	28.438	
1,076.7	1,075.1	1,080.6	1,079.6	2.0	2.0	-169.67	23.1	-61.4	104.5	100.7	3.79	27.555	
1,100.0	1,098.3	1,104.0	1,102.9	2.1	2.0	-168.75	24.9	-59.8	106.2	102.3	3.89	27.325	
1,200.0	1,197.6	1,204.1	1,202.4	2.3	2.3	-164.64	33.7	-52.6	113.4	109.1	4.31	26.305	
1,300.0	1,296.9	1,303.5	1,301.0	2.6	2.5	-160.69	43.1	-44.9	120.8	116.1	4.75	25.432	
1,400.0	1,396.2	1,402.9	1,399.7	2.8	2.7	-157.20	52.5	-37.1	128.8	123.6	5.21	24.732	
1,500.0	1,495.5	1,502.3	1,498.3	3.1	3.0	-154.13	61.8	-29.4	137.1	131.5	5.67	24.167	
1,600.0	1,594.8	1,601.7	1,597.0	3.3	3.3	-151.42	71.2	-21.7	145.9	139.7	6.15	23.708	
1,700.0	1,694.1	1,701.1	1,695.6	3.6	3.5	-149.02	80.6	-14.0	154.9	148.2	6.64	23.331	
1,800.0	1,793.4	1,800.5	1,794.3	3.9	3.8	-146.88	89.9	-6.3	164.1	157.0	7.13	23.021	
1,900.0	1,892.7	1,899.9	1,892.9	4.1	4.0	-144.98	99.3	1.4	173.5	165.9	7.62	22.764	
2,000.0	1,992.0	1,999.3	1,991.6	4.4	4.3	-143.27	108.7	9.2	183.2	175.0	8.12	22.549	
2,100.0	2,091.3	2,098.7	2,090.2	4.7	4.6	-141.73	118.0	16.9	192.9	184.3	8.62	22.369	
2,200.0	2,190.6	2,198.1	2,188.9	4.9	4.8	-140.34	127.4	24.6	202.8	193.7	9.13	22.217	
2,300.0	2,289.9	2,297.5	2,287.5	5.2	5.1	-139.08	136.8	32.3	212.8	203.2	9.63	22.089	
2,400.0	2,389.2	2,396.9	2,386.2	5.5	5.4	-137.94	146.1	40.0	222.9	212.8	10.14	21.980	
2,500.0	2,488.5	2,496.3	2,484.8	5.7	5.6	-136.89	155.5	47.7	233.1	222.4	10.65	21.886	
2,600.0	2,587.8	2,595.7	2,583.5	6.0	5.9	-135.93	164.9	55.4	243.3	232.2	11.16	21.806	
2,700.0	2,687.1	2,695.1	2,682.1	6.3	6.2	-135.05	174.2	63.2	253.6	241.9	11.67	21.738	
2,800.0	2,786.4	2,794.5	2,780.8	6.5	6.5	-134.24	183.6	70.9	264.0	251.8	12.18	21.678	
2,900.0	2,885.7	2,893.9	2,879.4	6.8	6.7	-133.49	193.0	78.6	274.4	261.7	12.69	21.627	
3,000.0	2,985.0	2,993.2	2,978.1	7.1	7.0	-132.79	202.3	86.3	284.8	271.6	13.20	21.583	
3,100.0	3,084.3	3,092.6	3,076.7	7.3	7.3	-132.14	211.7	94.0	295.3	281.6	13.71	21.544	
3,200.0	3,183.6	3,192.0	3,175.4	7.6	7.5	-131.54	221.1	101.7	305.8	291.6	14.22	21.510	
3,300.0	3,282.9	3,291.4	3,274.0	7.9	7.8	-130.98	230.4	109.5	316.4	301.7	14.73	21.481	
3,400.0	3,382.2	3,390.8	3,372.7	8.1	8.1	-130.45	239.8	117.2	327.0	311.7	15.24	21.455	
3,500.0	3,481.5	3,490.2	3,471.3	8.4	8.4	-129.96	249.2	124.9	337.6	321.8	15.75	21.433	
3,600.0	3,580.9	3,589.6	3,570.0	8.7	8.6	-129.50	258.5	132.6	348.2	332.0	16.26	21.413	
3,700.0	3,680.2	3,689.0	3,668.7	9.0	8.9	-129.06	267.9	140.3	358.9	342.1	16.77	21.396	
3,800.0	3,779.5	3,788.4	3,767.3	9.2	9.2	-128.65	277.3	148.0	369.5	352.3	17.28	21.381	
3,900.0	3,878.8	3,887.8	3,866.0	9.5	9.4	-128.26	286.6	155.7	380.2	362.4	17.79	21.368	
4,000.0	3,978.1	3,987.2	3,964.6	9.8	9.7	-127.90	296.0	163.5	390.9	372.6	18.31	21.356	
4,100.0	4,077.4	4,086.6	4,063.3	10.0	10.0	-127.55	305.4	171.2	401.7	382.8	18.82	21.346	
4,200.0	4,176.7	4,186.0	4,161.9	10.3	10.3	-127.22	314.7	178.9	412.4	393.1	19.33	21.337	
4,300.0	4,276.0	4,285.4	4,260.6	10.6	10.5	-126.91	324.1	186.6	423.1	403.3	19.84	21.330	
4,400.0	4,375.3	4,384.8	4,359.2	10.8	10.8	-126.61	333.5	194.3	433.9	413.5	20.35	21.323	
4,500.0	4,474.6	4,484.2	4,457.9	11.1	11.1	-126.33	342.8	202.0	444.7	423.8	20.86	21.317	
4,600.0	4,573.9	4,583.6	4,556.5	11.4	11.4	-126.06	352.2	209.8	455.4	434.1	21.37	21.312	
4,700.0	4,673.2	4,683.0	4,655.2	11.7	11.6	-125.81	361.6	217.5	466.2	444.3	21.88	21.308	
4,800.0	4,772.5	4,782.4	4,753.8	11.9	11.9	-125.56	370.9	225.2	477.0	454.6	22.39	21.304	
4,900.0	4,871.8	4,881.8	4,852.5	12.2	12.2	-125.33	380.3	232.9	487.8	464.9	22.90	21.301	
5,000.0	4,971.1	4,981.2	4,951.1	12.5	12.5	-125.10	389.7	240.6	498.6	475.2	23.41	21.299	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,070.4	5,080.5	5,049.8	12.7	12.7	-124.89	399.0	248.3	509.5	485.5	23.92	21.296		
5,200.0	5,169.7	5,179.9	5,148.4	13.0	13.0	-124.68	408.4	256.0	520.3	495.9	24.43	21.295		
5,300.0	5,269.0	5,279.3	5,247.1	13.3	13.3	-124.49	417.8	263.8	531.1	506.2	24.94	21.293		
5,400.0	5,368.3	5,378.7	5,345.7	13.5	13.5	-124.30	427.1	271.5	542.0	516.5	25.45	21.292		
5,500.0	5,467.6	5,478.1	5,444.4	13.8	13.8	-124.11	436.5	279.2	552.8	526.9	25.96	21.291		
5,600.0	5,566.9	5,577.5	5,543.0	14.1	14.1	-123.94	445.9	286.9	563.7	537.2	26.47	21.291		
5,700.0	5,666.2	5,676.9	5,641.7	14.4	14.4	-123.77	455.2	294.6	574.5	547.5	26.98	21.290		
5,800.0	5,765.5	5,776.3	5,740.3	14.6	14.6	-123.61	464.6	302.3	585.4	557.9	27.50	21.290		
5,900.0	5,864.8	5,875.7	5,839.0	14.9	14.9	-123.45	474.0	310.1	596.2	568.2	28.01	21.290		
6,000.0	5,964.1	5,975.1	5,937.6	15.2	15.2	-123.30	483.3	317.8	607.1	578.6	28.52	21.291		
6,100.0	6,063.4	6,074.5	6,036.3	15.4	15.5	-123.16	492.7	325.5	618.0	589.0	29.03	21.291		
6,200.0	6,162.7	6,173.9	6,134.9	15.7	15.7	-123.02	502.1	333.2	628.9	599.3	29.54	21.292		
6,300.0	6,262.0	6,273.3	6,233.6	16.0	16.0	-122.88	511.4	340.9	639.7	609.7	30.05	21.292		
6,400.0	6,361.3	6,372.7	6,332.2	16.2	16.3	-122.75	520.8	348.6	650.6	620.1	30.56	21.293		
6,500.0	6,460.7	6,472.1	6,430.9	16.5	16.6	-122.63	530.2	356.3	661.5	630.5	31.07	21.294		
6,600.0	6,560.0	6,571.5	6,529.5	16.8	16.8	-122.50	539.5	364.1	672.4	640.8	31.58	21.295		
6,700.0	6,659.3	6,670.9	6,628.2	17.1	17.1	-122.38	548.9	371.8	683.3	651.2	32.09	21.296		
6,800.0	6,758.6	6,770.3	6,726.8	17.3	17.4	-122.27	558.3	379.5	694.2	661.6	32.60	21.297		
6,900.0	6,857.9	7,926.3	7,500.0	17.6	16.6	176.81	-50.8	440.0	702.3	676.3	25.94	23.071		
7,000.0	6,957.2	7,927.1	7,500.0	17.9	16.6	176.68	-51.6	440.0	618.3	592.2	26.12	23.670		
7,100.0	7,056.5	7,928.0	7,500.0	18.1	16.6	176.55	-52.5	440.0	539.9	513.6	26.30	20.524		
7,200.0	7,155.8	7,928.8	7,500.0	18.4	16.6	176.42	-53.3	440.0	469.7	443.2	26.49	17.733		
7,210.0	7,165.7	7,928.9	7,500.0	18.4	16.6	176.40	-53.4	440.0	463.3	436.8	26.51	17.478		
7,250.0	7,205.4	7,927.8	7,500.0	18.5	16.6	-154.93	-52.3	440.0	439.0	412.3	26.67	16.458		
7,300.0	7,254.8	7,922.6	7,500.0	18.7	16.6	-133.14	-47.1	440.0	412.1	385.3	26.83	15.360		
7,350.0	7,303.5	7,913.0	7,500.0	18.8	16.6	-122.26	-37.5	440.0	390.0	363.1	26.88	14.507		
7,400.0	7,351.2	7,899.2	7,500.0	18.9	16.5	-115.47	-23.7	440.0	373.3	346.5	26.84	13.908		
7,450.0	7,397.6	7,881.3	7,500.0	19.0	16.5	-109.98	-5.8	440.0	362.5	335.7	26.79	13.534		
7,500.0	7,442.2	7,858.6	7,499.8	19.2	16.5	-104.60	16.9	439.9	357.5	330.7	26.78	13.348		
7,520.2	7,459.6	7,848.9	7,499.5	19.2	16.4	-102.45	26.6	439.9	357.1	330.3	26.82	13.312		
7,550.0	7,484.8	7,834.5	7,498.7	19.3	16.4	-99.32	41.0	439.9	358.0	331.1	26.93	13.296 SF		
7,600.0	7,525.0	7,810.3	7,496.5	19.5	16.4	-94.11	65.0	439.7	363.6	336.4	27.21	13.361		
7,650.0	7,562.4	7,786.0	7,493.4	19.6	16.4	-88.91	89.1	439.4	373.6	346.0	27.61	13.531		
7,700.0	7,596.9	7,761.7	7,489.1	19.8	16.4	-83.73	113.1	439.1	387.2	359.2	28.02	13.818		
7,750.0	7,628.2	7,737.2	7,483.9	20.0	16.4	-78.64	137.0	438.7	403.7	375.3	28.37	14.231		
7,800.0	7,656.0	7,712.8	7,477.6	20.3	16.4	-73.73	160.6	438.2	422.3	393.7	28.56	14.788		
7,850.0	7,680.1	7,688.2	7,470.4	20.5	16.4	-69.07	184.1	437.6	442.3	413.8	28.53	15.502		
7,900.0	7,700.3	7,663.6	7,462.1	20.8	16.5	-64.73	207.2	437.0	463.2	434.9	28.28	16.380		
7,950.0	7,716.5	7,639.0	7,452.8	21.1	16.5	-60.76	230.0	436.3	484.4	456.6	27.80	17.423		
8,000.0	7,728.5	7,614.4	7,442.6	21.5	16.6	-57.17	252.3	435.5	505.6	478.4	27.15	18.620		
8,050.0	7,736.3	7,589.8	7,431.3	21.9	16.6	-53.98	274.3	434.6	526.4	500.0	26.38	19.952		
8,100.0	7,739.8	7,565.1	7,419.2	22.2	16.7	-51.16	295.7	433.6	546.5	520.9	25.56	21.378		
8,115.3	7,740.0	7,550.0	7,411.3	22.4	16.7	-50.05	308.6	433.0	552.6	527.3	25.25	21.884		
8,200.0	7,740.0	7,517.6	7,393.2	23.1	16.8	-48.62	335.5	431.6	588.1	562.4	25.74	22.849		
8,300.0	7,740.0	7,475.0	7,367.3	24.1	17.0	-46.69	369.1	429.6	636.9	610.6	26.26	24.250		
8,400.0	7,740.0	7,437.2	7,342.2	25.2	17.1	-44.95	397.3	427.6	692.2	665.4	26.81	25.821		
8,500.0	7,740.0	7,400.0	7,315.7	26.3	17.2	-43.24	423.4	425.5	753.3	726.0	27.33	27.566		
8,600.0	7,740.0	7,373.7	7,296.0	27.5	17.3	-42.04	440.8	424.0	819.5	791.5	27.96	29.309		
8,700.0	7,740.0	7,350.0	7,277.7	28.7	17.4	-40.98	455.6	422.6	889.9	861.3	28.61	31.107		
8,800.0	7,740.0	7,323.4	7,256.3	30.0	17.5	-39.81	471.4	420.9	964.0	934.8	29.19	33.026		
8,900.0	7,740.0	7,300.0	7,236.9	31.4	17.5	-38.80	484.4	419.4	1,041.2	1,011.4	29.80	34.943		
9,000.0	7,740.0	7,283.2	7,222.6	32.8	17.6	-38.09	493.3	418.3	1,121.0	1,090.5	30.49	36.768		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,740.0	7,250.0	7,193.8	34.2	17.7	-36.74	509.5	416.0	1,203.4	1,172.5	30.88	38.973		
9,200.0	7,740.0	7,250.0	7,193.8	35.6	17.7	-36.74	509.5	416.0	1,287.0	1,255.2	31.84	40.425		
9,300.0	7,740.0	7,250.0	7,193.8	37.1	17.7	-36.74	509.5	416.0	1,372.9	1,340.1	32.81	41.848		
9,400.0	7,740.0	7,223.7	7,170.3	38.6	17.7	-35.71	521.1	414.2	1,459.7	1,426.4	33.25	43.899		
9,500.0	7,740.0	7,200.0	7,148.7	40.1	17.8	-34.80	530.7	412.5	1,548.1	1,514.4	33.72	45.908		
9,600.0	7,740.0	7,200.0	7,148.7	41.7	17.8	-34.80	530.7	412.5	1,637.3	1,602.7	34.67	47.228		
9,700.0	7,740.0	7,200.0	7,148.7	43.2	17.8	-34.80	530.7	412.5	1,727.7	1,692.1	35.62	48.504		
9,800.0	7,740.0	7,200.0	7,148.7	44.8	17.8	-34.80	530.7	412.5	1,819.1	1,782.5	36.58	49.735		
9,900.0	7,740.0	7,174.2	7,124.7	46.4	17.8	-33.86	540.1	410.6	1,910.6	1,873.6	36.92	51.747		
10,000.0	7,740.0	7,150.0	7,101.9	48.0	17.9	-33.01	547.9	408.8	2,003.4	1,966.1	37.29	53.728		
10,100.0	7,740.0	7,150.0	7,101.9	49.6	17.9	-33.01	547.9	408.8	2,096.2	2,058.0	38.21	54.859		
10,200.0	7,740.0	7,150.0	7,101.9	51.2	17.9	-33.01	547.9	408.8	2,189.7	2,150.5	39.14	55.949		
10,300.0	7,740.0	7,150.0	7,101.9	52.8	17.9	-33.01	547.9	408.8	2,283.7	2,243.6	40.07	56.998		
10,400.0	7,740.0	7,150.0	7,101.9	54.5	17.9	-33.01	547.9	408.8	2,378.2	2,337.2	41.00	58.008		
10,500.0	7,740.0	7,150.0	7,101.9	56.1	17.9	-33.01	547.9	408.8	2,473.2	2,431.3	41.93	58.980		
10,600.0	7,740.0	7,150.0	7,101.9	57.7	17.9	-33.01	547.9	408.8	2,568.5	2,525.6	42.87	59.916		
10,700.0	7,740.0	7,125.1	7,078.1	59.4	17.9	-32.17	555.0	407.0	2,663.5	2,620.5	43.08	61.824		
10,800.0	7,740.0	7,100.0	7,053.8	61.1	17.9	-31.36	561.0	405.1	2,759.7	2,716.4	43.28	63.767		
10,900.0	7,740.0	7,100.0	7,053.8	62.7	17.9	-31.36	561.0	405.1	2,855.5	2,811.4	44.18	64.637		
11,000.0	7,740.0	7,100.0	7,053.8	64.4	17.9	-31.36	561.0	405.1	2,951.6	2,906.5	45.08	65.475		
11,100.0	7,740.0	7,100.0	7,053.8	66.1	17.9	-31.36	561.0	405.1	3,048.0	3,002.0	45.98	66.285		
11,200.0	7,740.0	7,100.0	7,053.8	67.7	17.9	-31.36	561.0	405.1	3,144.5	3,097.7	46.89	67.066		
11,300.0	7,740.0	7,100.0	7,053.8	69.4	17.9	-31.36	561.0	405.1	3,241.3	3,193.5	47.79	67.820		
11,395.3	7,740.0	7,100.0	7,053.8	71.0	17.9	-31.36	561.0	405.1	3,333.8	3,285.1	48.66	68.516		
11,400.0	7,740.0	7,100.0	7,053.8	71.1	17.9	-31.20	561.0	405.1	3,338.3	3,289.8	48.54	68.777		
11,500.0	7,740.0	7,100.0	7,053.8	72.8	17.9	-27.56	561.0	405.1	3,435.5	3,389.9	49.64	75.282		
11,584.7	7,740.0	7,100.0	7,053.8	74.2	17.9	-24.17	561.0	405.1	3,518.2	3,475.5	42.66	82.473		
11,600.0	7,740.0	7,100.0	7,053.8	74.5	17.9	-24.17	561.0	405.1	3,533.1	3,490.4	42.77	82.610		
11,700.0	7,740.0	7,100.0	7,053.8	76.2	17.9	-24.17	561.0	405.1	3,630.9	3,587.4	43.49	83.485		
11,800.0	7,740.0	7,100.0	7,053.8	77.9	17.9	-24.17	561.0	405.1	3,728.8	3,684.6	44.22	84.332		
11,900.0	7,740.0	7,100.0	7,053.8	79.6	17.9	-24.17	561.0	405.1	3,826.8	3,781.8	44.94	85.154		
12,000.0	7,740.0	7,100.0	7,053.8	81.3	17.9	-24.17	561.0	405.1	3,924.9	3,879.2	45.66	85.950		
12,100.0	7,740.0	7,100.0	7,053.8	83.0	17.9	-24.17	561.0	405.1	4,023.1	3,976.7	46.39	86.723		
12,200.0	7,740.0	7,077.1	7,031.5	84.8	17.9	-23.62	565.6	403.3	4,120.8	4,074.4	46.41	88.799		
12,300.0	7,740.0	7,075.0	7,029.4	86.5	17.9	-23.57	565.9	403.2	4,219.1	4,172.0	47.05	89.669		
12,400.0	7,740.0	7,073.0	7,027.4	88.2	17.9	-23.52	566.3	403.0	4,317.4	4,269.7	47.70	90.514		
12,500.0	7,740.0	7,050.0	7,004.8	89.9	17.9	-22.99	569.8	401.2	4,416.3	4,368.6	47.69	92.601		
12,600.0	7,740.0	7,050.0	7,004.8	91.6	17.9	-22.99	569.8	401.2	4,514.6	4,466.3	48.39	93.301		
12,700.0	7,740.0	7,050.0	7,004.8	93.3	17.9	-22.99	569.8	401.2	4,613.1	4,564.0	49.09	93.982		
12,800.0	7,740.0	7,050.0	7,004.8	95.1	17.9	-22.99	569.8	401.2	4,711.6	4,661.8	49.78	94.644		
12,900.0	7,740.0	7,050.0	7,004.8	96.8	17.9	-22.99	569.8	401.2	4,810.2	4,759.7	50.48	95.289		
13,000.0	7,740.0	7,050.0	7,004.8	98.5	17.9	-22.99	569.8	401.2	4,908.9	4,857.7	51.18	95.916		
13,100.0	7,740.0	7,050.0	7,004.8	100.2	17.9	-22.99	569.8	401.2	5,007.5	4,955.7	51.88	96.527		
13,200.0	7,740.0	7,050.0	7,004.8	102.0	17.9	-22.99	569.8	401.2	5,106.3	5,053.7	52.58	97.122		
13,300.0	7,740.0	7,050.0	7,004.8	103.7	17.9	-22.99	569.8	401.2	5,205.1	5,151.8	53.28	97.702		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-70.0	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-70.0	70.0	69.7	0.30	230.401		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-70.0	70.0	69.3	0.65	107.192		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-70.0	70.0	69.0	1.00	69.843		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-70.0	70.0	68.6	1.35	51.796 CC		
500.0	500.0	500.0	500.0	0.9	0.8	176.03	0.0	-70.0	70.8	69.1	1.70	41.676		
600.0	600.0	600.0	600.0	1.0	1.0	176.17	0.0	-70.0	73.5	71.4	2.05	35.861		
700.0	699.9	699.9	699.9	1.2	1.2	176.38	0.0	-70.0	77.8	75.4	2.40	32.471		
800.0	799.7	799.7	799.7	1.4	1.4	176.64	0.0	-70.0	83.9	81.2	2.74	30.584		
900.0	899.4	899.4	899.4	1.6	1.5	176.93	0.0	-70.0	91.7	88.6	3.09	29.693		
1,000.0	998.9	998.9	998.9	1.8	1.7	177.21	0.0	-70.0	101.3	97.9	3.43	29.497		
1,076.7	1,075.1	1,076.2	1,076.2	2.0	1.9	177.60	0.3	-69.6	109.4	105.7	3.70	29.578		
1,100.0	1,098.3	1,099.7	1,099.7	2.1	1.9	177.78	0.5	-69.3	111.9	108.1	3.78	29.594		
1,200.0	1,197.6	1,200.8	1,200.7	2.3	2.1	178.82	2.2	-67.2	121.7	117.6	4.13	29.453		
1,300.0	1,296.9	1,302.0	1,301.9	2.6	2.3	-179.77	5.0	-63.8	130.3	125.8	4.49	29.039		
1,400.0	1,396.2	1,403.4	1,403.0	2.8	2.4	-178.01	8.9	-58.9	137.7	132.8	4.85	28.414		
1,500.0	1,495.5	1,504.8	1,504.1	3.1	2.6	-175.91	14.0	-52.7	144.0	138.7	5.21	27.622		
1,600.0	1,594.8	1,606.2	1,605.0	3.3	2.9	-173.47	20.1	-45.1	149.3	143.7	5.59	26.696		
1,700.0	1,694.1	1,707.5	1,705.7	3.6	3.1	-170.69	27.4	-36.1	153.7	147.7	5.99	25.665		
1,800.0	1,793.4	1,808.7	1,806.0	3.9	3.3	-167.54	35.8	-25.7	157.5	151.1	6.41	24.552		
1,900.0	1,892.7	1,909.7	1,905.9	4.1	3.6	-164.02	45.3	-13.9	160.8	153.9	6.88	23.385		
2,000.0	1,992.0	2,009.1	2,004.1	4.4	3.9	-160.44	55.2	-1.7	164.2	156.9	7.36	22.309		
2,100.0	2,091.3	2,108.5	2,102.2	4.7	4.1	-157.02	65.1	10.5	168.3	160.4	7.87	21.376		
2,200.0	2,190.6	2,208.0	2,200.4	4.9	4.4	-153.77	75.0	22.7	173.0	164.6	8.41	20.572		
2,300.0	2,289.9	2,307.4	2,298.6	5.2	4.7	-150.70	84.8	34.9	178.2	169.2	8.96	19.882		
2,400.0	2,389.2	2,406.8	2,396.7	5.5	5.0	-147.81	94.7	47.1	183.8	174.3	9.53	19.294		
2,500.0	2,488.5	2,506.2	2,494.9	5.7	5.3	-145.10	104.6	59.3	190.0	179.8	10.11	18.794		
2,600.0	2,587.8	2,605.6	2,593.1	6.0	5.6	-142.56	114.5	71.5	196.5	185.8	10.69	18.372		
2,700.0	2,687.1	2,705.0	2,691.3	6.3	5.9	-140.19	124.3	83.7	203.3	192.1	11.29	18.016		
2,800.0	2,786.4	2,804.5	2,789.4	6.5	6.2	-137.97	134.2	95.9	210.5	198.7	11.88	17.719		
2,900.0	2,885.7	2,903.9	2,887.6	6.8	6.5	-135.90	144.1	108.1	218.0	205.6	12.48	17.470		
3,000.0	2,985.0	3,003.3	2,985.8	7.1	6.9	-133.98	154.0	120.3	225.8	212.7	13.08	17.263		
3,100.0	3,084.3	3,102.7	3,083.9	7.3	7.2	-132.18	163.8	132.5	233.8	220.1	13.68	17.092		
3,200.0	3,183.6	3,202.1	3,182.1	7.6	7.5	-130.50	173.7	144.7	242.0	227.7	14.28	16.951		
3,300.0	3,282.9	3,301.6	3,280.3	7.9	7.8	-128.93	183.6	156.9	250.4	235.6	14.87	16.837		
3,400.0	3,382.2	3,401.0	3,378.5	8.1	8.1	-127.47	193.4	169.1	259.0	243.5	15.47	16.744		
3,500.0	3,481.5	3,500.4	3,476.6	8.4	8.4	-126.09	203.3	181.3	267.8	251.7	16.06	16.671		
3,600.0	3,580.9	3,599.8	3,574.8	8.7	8.7	-124.81	213.2	193.5	276.6	260.0	16.65	16.613		
3,700.0	3,680.2	3,699.2	3,673.0	9.0	9.1	-123.61	223.1	205.7	285.7	268.4	17.24	16.569		
3,800.0	3,779.5	3,798.7	3,771.1	9.2	9.4	-122.48	232.9	217.9	294.8	277.0	17.83	16.536		
3,900.0	3,878.8	3,898.1	3,869.3	9.5	9.7	-121.42	242.8	230.1	304.0	285.6	18.41	16.513		
4,000.0	3,978.1	3,997.5	3,967.5	9.8	10.0	-120.42	252.7	242.3	313.4	294.4	18.99	16.499		
4,100.0	4,077.4	4,096.9	4,065.7	10.0	10.3	-119.48	262.6	254.5	322.8	303.2	19.57	16.492		
4,200.0	4,176.7	4,196.3	4,163.8	10.3	10.6	-118.59	272.4	266.7	332.3	312.1	20.15	16.491		
4,300.0	4,276.0	4,295.7	4,262.0	10.6	11.0	-117.75	282.3	278.9	341.9	321.1	20.73	16.495		
4,400.0	4,375.3	4,395.2	4,360.2	10.8	11.3	-116.96	292.2	291.1	351.5	330.2	21.30	16.503		
4,500.0	4,474.6	4,494.6	4,458.3	11.1	11.6	-116.21	302.1	303.3	361.2	339.4	21.87	16.515		
4,600.0	4,573.9	4,594.0	4,556.5	11.4	11.9	-115.50	311.9	315.5	371.0	348.6	22.44	16.531		
4,700.0	4,673.2	4,693.4	4,654.7	11.7	12.3	-114.82	321.8	327.7	380.8	357.8	23.01	16.549		
4,800.0	4,772.5	4,792.8	4,752.8	11.9	12.6	-114.18	331.7	339.9	390.7	367.1	23.58	16.569		
4,900.0	4,871.8	4,892.3	4,851.0	12.2	12.9	-113.57	341.6	352.1	400.6	376.5	24.15	16.591		
5,000.0	4,971.1	4,991.7	4,949.2	12.5	13.2	-112.99	351.4	364.4	410.6	385.9	24.71	16.615		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,070.4	5,091.1	5,047.4	12.7	13.5	-112.44	361.3	376.6	420.6	395.3	25.28	16.640		
5,200.0	5,169.7	5,190.5	5,145.5	13.0	13.9	-111.92	371.2	388.8	430.6	404.8	25.84	16.666		
5,300.0	5,269.0	5,289.9	5,243.7	13.3	14.2	-111.41	381.1	401.0	440.7	414.3	26.40	16.693		
5,400.0	5,368.3	5,389.3	5,341.9	13.5	14.5	-110.93	390.9	413.2	450.8	423.9	26.96	16.721		
5,500.0	5,467.6	5,488.8	5,440.0	13.8	14.8	-110.48	400.8	425.4	461.0	433.4	27.52	16.749		
5,600.0	5,566.9	5,588.2	5,538.2	14.1	15.2	-110.04	410.7	437.6	471.1	443.1	28.08	16.778		
5,700.0	5,666.2	5,687.6	5,636.4	14.4	15.5	-109.62	420.6	449.8	481.3	452.7	28.64	16.807		
5,800.0	5,765.5	5,787.0	5,734.6	14.6	15.8	-109.21	430.4	462.0	491.5	462.3	29.20	16.836		
5,900.0	5,864.8	5,886.4	5,832.7	14.9	16.1	-108.83	440.3	474.2	501.8	472.0	29.75	16.866		
6,000.0	5,964.1	5,985.9	5,930.9	15.2	16.4	-108.46	450.2	486.4	512.0	481.7	30.31	16.895		
6,100.0	6,063.4	6,085.3	6,029.1	15.4	16.8	-108.10	460.1	498.6	522.3	491.5	30.86	16.924		
6,200.0	6,162.7	6,184.7	6,127.2	15.7	17.1	-107.76	469.9	510.8	532.6	501.2	31.42	16.953		
6,300.0	6,262.0	6,284.1	6,225.4	16.0	17.4	-107.43	479.8	523.0	542.9	511.0	31.97	16.983		
6,400.0	6,361.3	6,383.5	6,323.6	16.2	17.7	-107.11	489.7	535.2	553.3	520.8	32.52	17.011		
6,500.0	6,460.7	6,482.9	6,421.8	16.5	18.1	-106.80	499.6	547.4	563.6	530.6	33.08	17.040		
6,600.0	6,560.0	6,582.4	6,519.9	16.8	18.4	-106.51	509.4	559.6	574.0	540.4	33.63	17.069		
6,700.0	6,659.3	6,681.8	6,618.1	17.1	18.7	-106.23	519.3	571.8	584.4	550.2	34.18	17.097		
6,800.0	6,758.6	6,781.2	6,716.3	17.3	19.0	-105.95	529.2	584.0	594.8	560.0	34.73	17.125		
6,900.0	6,857.9	6,880.6	6,814.4	17.6	19.4	-105.69	539.1	596.2	605.2	569.9	35.28	17.153		
7,000.0	6,957.2	6,980.0	6,912.6	17.9	19.7	-105.43	548.9	608.4	615.6	579.8	35.83	17.180		
7,100.0	7,056.5	7,079.5	7,010.8	18.1	20.0	-105.18	558.8	620.6	626.0	589.7	36.38	17.207		
7,200.0	7,155.8	8,202.2	7,740.0	18.4	20.5	179.96	-53.3	759.2	584.2	557.3	26.88	21.736		
7,210.0	7,165.7	8,202.4	7,740.0	18.4	20.5	179.83	-53.5	759.2	574.3	547.4	26.90	21.351		
7,250.0	7,205.4	8,201.7	7,740.0	18.5	20.5	-178.11	-52.8	759.2	534.6	504.2	30.44	17.563		
7,300.0	7,254.8	8,196.8	7,740.0	18.7	20.5	-174.68	-47.9	758.8	485.4	450.9	34.50	14.068		
7,350.0	7,303.5	8,187.7	7,740.0	18.8	20.5	-172.41	-38.8	758.2	436.9	401.1	35.74	12.223		
7,400.0	7,351.2	8,174.3	7,740.0	18.9	20.4	-170.57	-25.5	757.3	389.6	353.9	35.71	10.909		
7,450.0	7,397.6	8,156.8	7,740.0	19.0	20.4	-168.69	-8.0	756.0	343.9	308.8	35.04	9.814		
7,500.0	7,442.2	8,127.9	7,739.8	19.2	20.3	-165.26	20.8	754.0	300.2	266.4	33.76	8.890		
7,550.0	7,484.8	8,085.4	7,737.2	19.3	20.2	-159.12	63.1	750.7	257.6	225.7	31.86	8.086		
7,600.0	7,525.0	8,047.1	7,732.1	19.5	20.2	-152.78	100.9	747.4	216.3	186.5	29.87	7.242		
7,650.0	7,562.4	8,011.6	7,725.2	19.6	20.2	-145.59	135.6	744.1	177.1	149.1	28.02	6.321		
7,700.0	7,596.9	7,978.1	7,716.8	19.8	20.1	-136.83	167.8	740.7	141.2	114.6	26.63	5.302		
7,750.0	7,628.2	7,946.1	7,707.0	20.0	20.1	-125.78	198.1	737.3	111.2	84.9	26.25	4.235		
7,800.0	7,656.0	7,915.1	7,695.9	20.3	20.1	-112.04	226.8	733.8	91.8	64.6	27.24	3.372		
7,832.4	7,672.0	7,895.6	7,688.1	20.4	20.2	-101.95	244.6	731.5	88.0	59.6	28.35	3.103 ES		
7,850.0	7,680.1	7,885.0	7,683.6	20.5	20.2	-96.23	254.0	730.3	89.1	60.2	28.94	3.079 SF		
7,900.0	7,700.3	7,855.6	7,670.3	20.8	20.2	-80.32	280.0	726.7	103.1	73.2	29.91	3.447		
7,950.0	7,716.5	7,826.6	7,655.9	21.1	20.2	-66.42	304.9	723.1	127.4	98.0	29.36	4.339		
8,000.0	7,728.5	7,800.0	7,641.5	21.5	20.2	-55.88	327.0	719.7	156.4	128.7	27.76	5.635		
8,050.0	7,736.3	7,770.0	7,624.1	21.9	20.3	-47.18	351.2	715.7	187.1	161.6	25.58	7.317		
8,100.0	7,739.8	7,742.1	7,606.9	22.2	20.3	-41.02	372.7	711.9	218.2	194.7	23.50	9.284		
8,115.3	7,740.0	7,733.6	7,601.4	22.4	20.3	-39.46	379.1	710.8	227.7	204.7	22.92	9.932		
8,200.0	7,740.0	7,690.0	7,571.9	23.1	20.4	-35.49	410.7	704.7	282.7	260.2	22.54	12.545		
8,300.0	7,740.0	7,650.0	7,542.8	24.1	20.5	-32.44	437.5	699.0	354.3	331.8	22.43	15.791		
8,400.0	7,740.0	7,600.0	7,503.8	25.2	20.5	-29.27	468.0	691.7	431.2	409.0	22.22	19.403		
8,500.0	7,740.0	7,577.2	7,485.2	26.3	20.6	-28.02	480.7	688.4	512.0	489.4	22.52	22.730		
8,600.0	7,740.0	7,550.0	7,462.4	27.5	20.6	-26.67	494.9	684.4	596.0	573.2	22.76	26.184		
8,700.0	7,740.0	7,526.9	7,442.5	28.7	20.6	-25.63	506.1	681.0	682.5	659.4	23.07	29.587		
8,800.0	7,740.0	7,500.0	7,418.7	30.0	20.7	-24.53	518.2	677.0	771.0	747.7	23.32	33.063		
8,900.0	7,740.0	7,500.0	7,418.7	31.4	20.7	-24.53	518.2	677.0	861.1	837.1	23.97	35.929		
9,000.0	7,740.0	7,473.6	7,394.9	32.8	20.7	-23.54	528.8	673.2	952.2	928.0	24.21	39.328		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,100.0	7,740.0	7,450.0	7,373.2	34.2	20.7	-22.74	537.4	669.7	1,044.7	1,020.2	24.50	42.638	
9,200.0	7,740.0	7,450.0	7,373.2	35.6	20.7	-22.74	537.4	669.7	1,137.8	1,112.7	25.13	45.276	
9,300.0	7,740.0	7,450.0	7,373.2	37.1	20.7	-22.74	537.4	669.7	1,232.0	1,206.2	25.76	47.817	
9,400.0	7,740.0	7,426.8	7,351.5	38.6	20.7	-22.01	545.0	666.3	1,326.4	1,300.3	26.03	50.953	
9,500.0	7,740.0	7,417.9	7,343.1	40.1	20.7	-21.75	547.6	665.1	1,421.5	1,395.0	26.51	53.611	
9,600.0	7,740.0	7,400.0	7,326.1	41.7	20.7	-21.24	552.6	662.5	1,517.2	1,490.4	26.85	56.499	
9,700.0	7,740.0	7,400.0	7,326.1	43.2	20.7	-21.24	552.6	662.5	1,613.1	1,585.6	27.47	58.728	
9,800.0	7,740.0	7,400.0	7,326.1	44.8	20.7	-21.24	552.6	662.5	1,709.4	1,681.4	28.08	60.869	
9,900.0	7,740.0	7,400.0	7,326.1	46.4	20.7	-21.24	552.6	662.5	1,806.2	1,777.5	28.70	62.925	
10,000.0	7,740.0	7,400.0	7,326.1	48.0	20.7	-21.24	552.6	662.5	1,903.3	1,874.0	29.33	64.901	
10,100.0	7,740.0	7,378.5	7,305.5	49.6	20.7	-20.67	557.9	659.4	2,000.2	1,970.6	29.56	67.674	
10,200.0	7,740.0	7,373.6	7,300.8	51.2	20.7	-20.54	558.9	658.7	2,097.5	2,067.4	30.08	69.735	
10,300.0	7,740.0	7,350.0	7,277.9	52.8	20.7	-19.96	563.6	655.4	2,195.5	2,165.2	30.26	72.545	
10,400.0	7,740.0	7,350.0	7,277.9	54.5	20.7	-19.96	563.6	655.4	2,293.1	2,262.2	30.86	74.302	
10,500.0	7,740.0	7,350.0	7,277.9	56.1	20.7	-19.96	563.6	655.4	2,390.8	2,359.4	31.46	75.996	
10,600.0	7,740.0	7,350.0	7,277.9	57.7	20.7	-19.96	563.6	655.4	2,488.8	2,456.7	32.06	77.629	
10,700.0	7,740.0	7,350.0	7,277.9	59.4	20.7	-19.96	563.6	655.4	2,586.9	2,554.2	32.66	79.203	
10,800.0	7,740.0	7,350.0	7,277.9	61.1	20.7	-19.96	563.6	655.4	2,685.1	2,651.9	33.26	80.721	
10,900.0	7,740.0	7,350.0	7,277.9	62.7	20.7	-19.96	563.6	655.4	2,783.5	2,749.6	33.87	82.186	
11,000.0	7,740.0	7,350.0	7,277.9	64.4	20.7	-19.96	563.6	655.4	2,882.0	2,847.5	34.47	83.601	
11,100.0	7,740.0	7,350.0	7,277.9	66.1	20.7	-19.96	563.6	655.4	2,980.6	2,945.5	35.08	84.967	
11,200.0	7,740.0	7,350.0	7,277.9	67.7	20.7	-19.96	563.6	655.4	3,079.2	3,043.5	35.69	86.287	
11,300.0	7,740.0	7,350.0	7,277.9	69.4	20.7	-19.96	563.6	655.4	3,178.0	3,141.7	36.29	87.564	
11,395.3	7,740.0	7,350.0	7,277.9	71.0	20.7	-19.96	563.6	655.4	3,272.2	3,235.3	36.87	88.741	
11,400.0	7,740.0	7,350.0	7,277.9	71.1	20.7	-19.68	563.6	655.4	3,276.8	3,240.2	36.62	89.490	
11,500.0	7,740.0	7,350.0	7,277.9	72.8	20.7	-13.13	563.6	655.4	3,375.8	3,344.8	30.98	108.956	
11,584.7	7,740.0	7,350.0	7,277.9	74.2	20.7	-7.13	563.6	655.4	3,459.6	3,432.8	26.82	128.993	
11,600.0	7,740.0	7,350.0	7,277.9	74.5	20.7	-7.13	563.6	655.4	3,474.8	3,448.0	26.87	129.341	
11,700.0	7,740.0	7,328.2	7,256.6	76.2	20.6	-7.18	567.1	652.3	3,573.5	3,546.3	27.17	131.503	
11,800.0	7,740.0	7,326.4	7,254.8	77.9	20.6	-7.18	567.3	652.1	3,672.5	3,645.1	27.47	133.686	
11,900.0	7,740.0	7,324.6	7,253.0	79.6	20.6	-7.19	567.5	651.8	3,771.7	3,743.9	27.77	135.824	
12,000.0	7,740.0	7,322.9	7,251.4	81.3	20.6	-7.19	567.8	651.6	3,870.8	3,842.8	28.07	137.918	
12,100.0	7,740.0	7,300.0	7,228.8	83.0	20.6	-7.23	570.3	648.5	3,970.5	3,942.1	28.37	139.960	
12,200.0	7,740.0	7,300.0	7,228.8	84.8	20.6	-7.23	570.3	648.5	4,069.7	4,041.0	28.67	141.969	
12,300.0	7,740.0	7,300.0	7,228.8	86.5	20.6	-7.23	570.3	648.5	4,168.9	4,139.9	28.96	143.938	
12,400.0	7,740.0	7,300.0	7,228.8	88.2	20.6	-7.23	570.3	648.5	4,268.1	4,238.9	29.26	145.869	
12,500.0	7,740.0	7,300.0	7,228.8	89.9	20.6	-7.23	570.3	648.5	4,367.4	4,337.9	29.56	147.762	
12,600.0	7,740.0	7,300.0	7,228.8	91.6	20.6	-7.23	570.3	648.5	4,466.7	4,436.9	29.85	149.619	
12,700.0	7,740.0	7,300.0	7,228.8	93.3	20.6	-7.23	570.3	648.5	4,566.1	4,535.9	30.15	151.442	
12,800.0	7,740.0	7,300.0	7,228.8	95.1	20.6	-7.23	570.3	648.5	4,665.5	4,635.0	30.45	153.230	
12,900.0	7,740.0	7,300.0	7,228.8	96.8	20.6	-7.23	570.3	648.5	4,764.9	4,734.1	30.74	154.984	
13,000.0	7,740.0	7,300.0	7,228.8	98.5	20.6	-7.23	570.3	648.5	4,864.3	4,833.3	31.04	156.707	
13,100.0	7,740.0	7,300.0	7,228.8	100.2	20.6	-7.23	570.3	648.5	4,963.7	4,932.4	31.34	158.398	
13,200.0	7,740.0	7,300.0	7,228.8	102.0	20.6	-7.23	570.3	648.5	5,063.2	5,031.6	31.63	160.058	
13,300.0	7,740.0	7,300.0	7,228.8	103.7	20.6	-7.23	570.3	648.5	5,162.7	5,130.8	31.93	161.688	
13,400.0	7,740.0	7,300.0	7,228.8	105.4	20.6	-7.23	570.3	648.5	5,262.2	5,230.0	32.23	163.290	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/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	-90.00	0.0	-59.9	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-59.9	59.9	59.6	0.30	197.223		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-59.9	59.9	59.2	0.65	91.756		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-59.9	59.9	58.9	1.00	59.785		
400.0	400.0	401.0	400.9	0.7	0.7	-89.65	0.4	-59.1	59.1	57.7	1.35	43.667		
500.0	500.0	501.9	501.8	0.9	0.9	177.48	1.4	-56.6	57.6	55.9	1.70	33.779		
600.0	600.0	602.7	602.6	1.0	1.0	179.54	3.2	-52.6	56.2	54.2	2.06	27.339		
700.0	699.9	703.5	703.2	1.2	1.2	-177.46	5.7	-46.9	55.2	52.8	2.41	22.872		
800.0	799.7	804.3	803.6	1.4	1.5	-173.51	9.0	-39.6	54.6	51.8	2.78	19.655		
851.2	850.7	855.8	855.0	1.5	1.6	-171.13	10.9	-35.3	54.5	51.5	2.97	18.352 CC		
900.0	899.4	905.0	903.8	1.6	1.7	-168.67	12.9	-30.7	54.6	51.4	3.16	17.292 ES		
1,000.0	998.9	1,005.5	1,003.7	1.8	1.9	-163.11	17.5	-20.2	55.4	51.8	3.56	15.543		
1,076.7	1,075.1	1,082.6	1,080.1	2.0	2.1	-158.51	21.6	-11.1	56.7	52.8	3.90	14.517		
1,100.0	1,098.3	1,106.0	1,103.3	2.1	2.2	-157.06	22.9	-8.1	57.1	53.1	4.01	14.239		
1,200.0	1,197.6	1,206.3	1,202.6	2.3	2.5	-150.26	28.9	5.5	59.0	54.4	4.52	13.038		
1,300.0	1,296.9	1,306.5	1,301.3	2.6	2.8	-142.48	35.7	20.8	60.8	55.7	5.11	11.910		
1,400.0	1,396.2	1,406.4	1,399.5	2.8	3.2	-133.79	43.1	37.5	63.2	57.4	5.76	10.964		
1,500.0	1,495.5	1,506.0	1,497.1	3.1	3.5	-124.49	51.1	55.7	66.7	60.2	6.47	10.306		
1,600.0	1,594.8	1,605.3	1,594.3	3.3	3.9	-115.90	59.4	74.4	71.7	64.6	7.16	10.018		
1,700.0	1,694.1	1,704.6	1,691.5	3.6	4.3	-108.57	67.6	93.0	78.2	70.4	7.82	10.007 SF		
1,800.0	1,793.4	1,804.0	1,788.7	3.9	4.7	-102.43	75.9	111.6	85.8	77.3	8.43	10.174		
1,900.0	1,892.7	1,903.3	1,886.0	4.1	5.1	-97.33	84.1	130.3	94.1	85.1	9.01	10.448		
2,000.0	1,992.0	2,002.6	1,983.2	4.4	5.5	-93.09	92.3	148.9	103.1	93.6	9.56	10.784		
2,100.0	2,091.3	2,101.9	2,080.4	4.7	5.8	-89.54	100.6	167.6	112.6	102.5	10.10	11.151		
2,200.0	2,190.6	2,201.3	2,177.6	4.9	6.2	-86.54	108.8	186.2	122.4	111.8	10.62	11.530		
2,300.0	2,289.9	2,300.6	2,274.8	5.2	6.6	-84.00	117.1	204.8	132.5	121.4	11.13	11.909		
2,400.0	2,389.2	2,399.9	2,372.0	5.5	7.0	-81.82	125.3	223.5	142.9	131.2	11.63	12.282		
2,500.0	2,488.5	2,499.3	2,469.2	5.7	7.4	-79.94	133.6	242.1	153.4	141.2	12.13	12.644		
2,600.0	2,587.8	2,598.6	2,566.5	6.0	7.8	-78.29	141.8	260.8	164.0	151.4	12.63	12.992		
2,700.0	2,687.1	2,697.9	2,663.7	6.3	8.2	-76.85	150.0	279.4	174.8	161.7	13.12	13.326		
2,800.0	2,786.4	2,797.2	2,760.9	6.5	8.6	-75.58	158.3	298.0	185.7	172.1	13.61	13.644		
2,900.0	2,885.7	2,896.6	2,858.1	6.8	9.0	-74.45	166.5	316.7	196.6	182.5	14.10	13.947		
3,000.0	2,985.0	2,995.9	2,955.3	7.1	9.4	-73.43	174.8	335.3	207.6	193.1	14.59	14.236		
3,100.0	3,084.3	3,095.2	3,052.5	7.3	9.8	-72.52	183.0	353.9	218.7	203.6	15.07	14.510		
3,200.0	3,183.6	3,194.6	3,149.7	7.6	10.2	-71.70	191.2	372.6	229.8	214.3	15.56	14.771		
3,300.0	3,282.9	3,293.9	3,247.0	7.9	10.6	-70.96	199.5	391.2	241.0	225.0	16.05	15.019		
3,400.0	3,382.2	3,393.2	3,344.2	8.1	11.0	-70.27	207.7	409.9	252.2	235.7	16.53	15.255		
3,500.0	3,481.5	3,492.5	3,441.4	8.4	11.4	-69.65	216.0	428.5	263.5	246.4	17.02	15.479		
3,600.0	3,580.9	3,591.9	3,538.6	8.7	11.8	-69.08	224.2	447.1	274.7	257.2	17.51	15.693		
3,700.0	3,680.2	3,691.2	3,635.8	9.0	12.2	-68.55	232.5	465.8	286.0	268.0	17.99	15.897		
3,800.0	3,779.5	3,790.5	3,733.0	9.2	12.6	-68.07	240.7	484.4	297.3	278.8	18.48	16.091		
3,900.0	3,878.8	3,889.8	3,830.2	9.5	13.0	-67.62	248.9	503.1	308.6	289.7	18.96	16.276		
4,000.0	3,978.1	3,989.2	3,927.5	9.8	13.4	-67.20	257.2	521.7	320.0	300.5	19.45	16.453		
4,100.0	4,077.4	4,088.5	4,024.7	10.0	13.8	-66.81	265.4	540.3	331.4	311.4	19.94	16.622		
4,200.0	4,176.7	4,187.8	4,121.9	10.3	14.2	-66.44	273.7	559.0	342.7	322.3	20.42	16.783		
4,300.0	4,276.0	4,287.2	4,219.1	10.6	14.6	-66.10	281.9	577.6	354.1	333.2	20.91	16.938		
4,400.0	4,375.3	4,386.5	4,316.3	10.8	15.0	-65.78	290.2	596.3	365.5	344.1	21.39	17.086		
4,500.0	4,474.6	4,485.8	4,413.5	11.1	15.4	-65.48	298.4	614.9	376.9	355.1	21.88	17.228		
4,600.0	4,573.9	4,585.1	4,510.7	11.4	15.8	-65.20	306.6	633.5	388.4	366.0	22.37	17.364		
4,700.0	4,673.2	4,684.5	4,608.0	11.7	16.2	-64.93	314.9	652.2	399.8	376.9	22.85	17.495		
4,800.0	4,772.5	4,783.8	4,705.2	11.9	16.6	-64.68	323.1	670.8	411.2	387.9	23.34	17.621		
4,900.0	4,871.8	4,883.1	4,802.4	12.2	17.0	-64.44	331.4	689.5	422.7	398.9	23.82	17.741		

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/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	
5,000.0	4,971.1	4,982.5	4,899.6	12.5	17.4	-64.22	339.6	708.1	434.1	409.8	24.31	17.858	
5,100.0	5,070.4	5,081.8	4,996.8	12.7	17.8	-64.00	347.9	726.7	445.6	420.8	24.80	17.969	
5,200.0	5,169.7	5,181.1	5,094.0	13.0	18.2	-63.80	356.1	745.4	457.1	431.8	25.28	18.077	
5,300.0	5,269.0	5,280.4	5,191.2	13.3	18.6	-63.61	364.3	764.0	468.5	442.8	25.77	18.181	
5,400.0	5,368.3	5,379.8	5,288.5	13.5	19.0	-63.42	372.6	782.7	480.0	453.8	26.26	18.281	
5,500.0	5,467.6	5,479.1	5,385.7	13.8	19.4	-63.25	380.8	801.3	491.5	464.7	26.74	18.378	
5,600.0	5,566.9	5,578.4	5,482.9	14.1	19.8	-63.08	389.1	819.9	503.0	475.7	27.23	18.471	
5,700.0	5,666.2	5,677.7	5,580.1	14.4	20.2	-62.92	397.3	838.6	514.5	486.8	27.72	18.561	
5,800.0	5,765.5	5,777.1	5,677.3	14.6	20.6	-62.77	405.6	857.2	526.0	497.8	28.20	18.648	
5,900.0	5,864.8	5,876.4	5,774.5	14.9	21.0	-62.62	413.8	875.9	537.5	508.8	28.69	18.733	
6,000.0	5,964.1	5,975.7	5,871.7	15.2	21.4	-62.48	422.0	894.5	549.0	519.8	29.18	18.814	
6,100.0	6,063.4	6,075.1	5,969.0	15.4	21.8	-62.35	430.3	913.1	560.5	530.8	29.67	18.893	
6,200.0	6,162.7	6,174.4	6,066.2	15.7	22.2	-62.22	438.5	931.8	572.0	541.8	30.15	18.969	
6,300.0	6,262.0	6,273.7	6,163.4	16.0	22.6	-62.09	446.8	950.4	583.5	552.8	30.64	19.044	
6,400.0	6,361.3	6,373.0	6,260.6	16.2	23.0	-61.98	455.0	969.1	595.0	563.9	31.13	19.115	
6,500.0	6,460.7	6,472.4	6,357.8	16.5	23.4	-61.86	463.3	987.7	606.5	574.9	31.61	19.185	
6,600.0	6,560.0	6,571.7	6,455.0	16.8	23.8	-61.75	471.5	1,006.3	618.0	585.9	32.10	19.253	
6,700.0	6,659.3	6,671.0	6,552.2	17.1	24.2	-61.64	479.7	1,025.0	629.5	596.9	32.59	19.318	
6,800.0	6,758.6	6,770.3	6,649.5	17.3	24.6	-61.54	488.0	1,043.6	641.1	608.0	33.07	19.382	
6,900.0	6,857.9	6,869.7	6,746.7	17.6	25.0	-61.44	496.2	1,062.2	652.6	619.0	33.56	19.444	
7,000.0	6,957.2	6,969.0	6,843.9	17.9	25.4	-61.35	504.5	1,080.9	664.1	630.1	34.05	19.504	
7,100.0	7,056.5	7,852.4	7,489.3	18.1	26.4	-18.61	48.7	1,204.6	637.4	609.6	27.76	22.959	
7,200.0	7,155.8	7,929.2	7,498.9	18.4	26.4	-8.11	-27.4	1,206.5	564.1	537.3	26.78	21.068	
7,210.0	7,165.7	7,931.7	7,499.1	18.4	26.4	-7.76	-29.9	1,206.5	557.2	530.4	26.77	20.812	
7,250.0	7,205.4	7,935.1	7,499.3	18.5	26.5	27.88	-33.3	1,206.5	530.4	503.8	26.59	19.950	
7,300.0	7,254.8	7,928.9	7,498.9	18.7	26.4	55.09	-27.2	1,206.5	499.5	472.9	26.63	18.755	
7,350.0	7,303.5	7,916.5	7,498.0	18.8	26.4	68.48	-14.7	1,206.3	472.0	445.2	26.76	17.640	
7,400.0	7,351.2	7,900.5	7,496.5	18.9	26.4	75.37	1.2	1,206.0	448.5	421.7	26.85	16.703	
7,450.0	7,397.6	7,882.2	7,494.2	19.0	26.4	78.85	19.3	1,205.6	429.6	402.7	26.93	15.956	
7,500.0	7,442.2	7,862.5	7,491.1	19.2	26.4	80.25	38.7	1,205.0	415.7	388.7	26.96	15.419	
7,550.0	7,484.8	7,841.8	7,487.2	19.3	26.3	80.21	59.1	1,204.2	407.0	380.0	27.00	15.071	
7,600.0	7,525.0	7,820.3	7,482.3	19.5	26.3	79.09	80.0	1,203.3	403.5	376.5	27.04	14.926	
7,608.5	7,531.5	7,816.6	7,481.4	19.5	26.3	78.80	83.6	1,203.1	403.5	376.4	27.04	14.919	
7,650.0	7,562.4	7,798.3	7,476.5	19.6	26.3	77.11	101.2	1,202.2	405.2	378.1	27.06	14.972	
7,700.0	7,596.9	7,775.8	7,469.8	19.8	26.3	74.47	122.6	1,200.9	411.4	384.3	27.09	15.188	
7,750.0	7,628.2	7,750.0	7,461.1	20.0	26.3	70.96	146.8	1,199.2	421.7	394.7	27.04	15.598	
7,800.0	7,656.0	7,729.9	7,453.6	20.3	26.3	67.78	165.4	1,197.8	435.3	408.4	26.98	16.138	
7,850.0	7,680.1	7,706.7	7,444.1	20.5	26.3	64.02	186.5	1,196.0	451.7	424.9	26.80	16.854	
7,900.0	7,700.3	7,683.2	7,433.6	20.8	26.3	60.16	207.4	1,194.0	470.0	443.4	26.55	17.703	
7,950.0	7,716.5	7,659.6	7,422.3	21.1	26.3	56.31	228.0	1,191.8	489.6	463.4	26.26	18.648	
8,000.0	7,728.5	7,635.9	7,410.1	21.5	26.3	52.58	248.2	1,189.4	510.2	484.2	26.01	19.617	
8,050.0	7,736.3	7,612.1	7,397.0	21.9	26.3	49.02	267.9	1,186.9	531.1	505.2	25.89	20.513	
8,100.0	7,739.8	7,588.2	7,383.0	22.2	26.3	45.69	287.1	1,184.3	551.9	525.9	26.01	21.223	
8,115.3	7,740.0	7,580.8	7,378.6	22.4	26.3	44.71	292.9	1,183.4	558.3	532.2	26.10	21.386	
8,200.0	7,740.0	7,550.0	7,359.2	23.1	26.3	42.93	316.6	1,179.7	596.1	569.8	26.37	22.604	
8,300.0	7,740.0	7,500.0	7,325.1	24.1	26.3	39.99	352.6	1,173.2	647.7	621.2	26.45	24.482	
8,400.0	7,740.0	7,467.5	7,301.4	25.2	26.3	38.08	374.3	1,168.6	706.0	679.3	26.74	26.406	
8,500.0	7,740.0	7,450.0	7,288.1	26.3	26.3	37.06	385.4	1,166.1	770.4	743.1	27.24	28.279	
8,600.0	7,740.0	7,400.0	7,248.4	27.5	26.3	34.19	414.9	1,158.5	839.4	812.3	27.11	30.960	
8,700.0	7,740.0	7,400.0	7,248.4	28.7	26.3	34.19	414.9	1,158.5	912.8	884.9	27.91	32.705	
8,800.0	7,740.0	7,365.6	7,219.7	30.0	26.3	32.27	433.0	1,152.9	989.3	961.3	27.99	35.350	
8,900.0	7,740.0	7,350.0	7,206.4	31.4	26.3	31.43	440.7	1,150.4	1,069.0	1,040.6	28.43	37.601	

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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/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			
9,000.0	7,740.0	7,330.4	7,189.3	32.8	26.3	30.38	449.7	1,147.1	1,151.1	1,122.3	28.76		40.026	
9,100.0	7,740.0	7,300.0	7,162.3	34.2	26.2	28.81	462.6	1,141.9	1,235.6	1,206.8	28.80		42.899	
9,200.0	7,740.0	7,300.0	7,162.3	35.6	26.2	28.81	462.6	1,141.9	1,321.2	1,291.7	29.55		44.707	
9,300.0	7,740.0	7,300.0	7,162.3	37.1	26.2	28.81	462.6	1,141.9	1,408.8	1,378.5	30.31		46.473	
9,400.0	7,740.0	7,279.0	7,143.3	38.6	26.2	27.77	470.6	1,138.3	1,497.4	1,466.9	30.51		49.073	
9,500.0	7,740.0	7,269.0	7,134.1	40.1	26.2	27.28	474.2	1,136.5	1,587.2	1,556.2	30.98		51.225	
9,600.0	7,740.0	7,250.0	7,116.5	41.7	26.2	26.37	480.6	1,133.2	1,678.0	1,646.8	31.19		53.802	
9,700.0	7,740.0	7,250.0	7,116.5	43.2	26.2	26.37	480.6	1,133.2	1,769.5	1,737.6	31.92		55.442	
9,800.0	7,740.0	7,250.0	7,116.5	44.8	26.2	26.37	480.6	1,133.2	1,861.9	1,829.2	32.65		57.027	
9,900.0	7,740.0	7,250.0	7,116.5	46.4	26.2	26.37	480.6	1,133.2	1,955.0	1,921.6	33.39		58.558	
10,000.0	7,740.0	7,229.9	7,097.6	48.0	26.1	25.44	486.7	1,129.5	2,048.3	2,014.8	33.47		61.190	
10,100.0	7,740.0	7,223.7	7,091.8	49.6	26.1	25.16	488.4	1,128.4	2,142.3	2,108.3	33.99		63.022	
10,200.0	7,740.0	7,200.0	7,069.3	51.2	26.1	24.12	494.4	1,124.1	2,237.1	2,203.2	33.92		65.948	
10,300.0	7,740.0	7,200.0	7,069.3	52.8	26.1	24.12	494.4	1,124.1	2,331.8	2,297.2	34.62		67.364	
10,400.0	7,740.0	7,200.0	7,069.3	54.5	26.1	24.12	494.4	1,124.1	2,426.9	2,391.6	35.31		68.731	
10,500.0	7,740.0	7,200.0	7,069.3	56.1	26.1	24.12	494.4	1,124.1	2,522.4	2,486.4	36.01		70.052	
10,600.0	7,740.0	7,200.0	7,069.3	57.7	26.1	24.12	494.4	1,124.1	2,618.2	2,581.5	36.71		71.327	
10,700.0	7,740.0	7,200.0	7,069.3	59.4	26.1	24.12	494.4	1,124.1	2,714.4	2,676.9	37.41		72.559	
10,800.0	7,740.0	7,200.0	7,069.3	61.1	26.1	24.12	494.4	1,124.1	2,810.7	2,772.6	38.11		73.749	
10,900.0	7,740.0	7,200.0	7,069.3	62.7	26.1	24.12	494.4	1,124.1	2,907.4	2,868.6	38.82		74.898	
11,000.0	7,740.0	7,200.0	7,069.3	64.4	26.1	24.12	494.4	1,124.1	3,004.2	2,964.7	39.52		76.009	
11,100.0	7,740.0	7,200.0	7,069.3	66.1	26.1	24.12	494.4	1,124.1	3,101.3	3,061.1	40.23		77.084	
11,200.0	7,740.0	7,177.1	7,047.4	67.7	26.1	23.15	499.3	1,119.9	3,198.0	3,158.1	39.96		80.033	
11,300.0	7,740.0	7,174.2	7,044.5	69.4	26.0	23.02	499.9	1,119.4	3,295.3	3,254.8	40.52		81.330	
11,395.3	7,740.0	7,171.5	7,041.9	71.0	26.0	22.91	500.4	1,118.9	3,388.1	3,347.1	41.05		82.533	
11,400.0	7,740.0	7,171.4	7,041.8	71.1	26.0	23.09	500.4	1,118.8	3,392.7	3,351.4	41.28		82.188	
11,500.0	7,740.0	7,150.0	7,021.1	72.8	26.0	26.10	504.0	1,114.9	3,490.5	3,445.1	45.35		76.971	
11,584.7	7,740.0	7,150.0	7,021.1	74.2	26.0	29.28	504.0	1,114.9	3,572.9	3,523.2	49.66		71.947	
11,600.0	7,740.0	7,150.0	7,021.1	74.5	26.0	29.28	504.0	1,114.9	3,587.8	3,538.0	49.79		72.058	
11,700.0	7,740.0	7,150.0	7,021.1	76.2	26.0	29.28	504.0	1,114.9	3,685.2	3,634.6	50.64		72.770	
11,800.0	7,740.0	7,150.0	7,021.1	77.9	26.0	29.28	504.0	1,114.9	3,782.7	3,731.2	51.49		73.459	
11,900.0	7,740.0	7,150.0	7,021.1	79.6	26.0	29.28	504.0	1,114.9	3,880.4	3,828.0	52.35		74.128	
12,000.0	7,740.0	7,150.0	7,021.1	81.3	26.0	29.28	504.0	1,114.9	3,978.2	3,925.0	53.20		74.775	
12,100.0	7,740.0	7,150.0	7,021.1	83.0	26.0	29.28	504.0	1,114.9	4,076.1	4,022.0	54.06		75.403	
12,200.0	7,740.0	7,150.0	7,021.1	84.8	26.0	29.28	504.0	1,114.9	4,174.0	4,119.1	54.91		76.012	
12,300.0	7,740.0	7,150.0	7,021.1	86.5	26.0	29.28	504.0	1,114.9	4,272.1	4,216.3	55.77		76.604	
12,400.0	7,740.0	7,150.0	7,021.1	88.2	26.0	29.28	504.0	1,114.9	4,370.3	4,313.6	56.63		77.178	
12,500.0	7,740.0	7,150.0	7,021.1	89.9	26.0	29.28	504.0	1,114.9	4,468.5	4,411.0	57.48		77.735	
12,600.0	7,740.0	7,150.0	7,021.1	91.6	26.0	29.28	504.0	1,114.9	4,566.8	4,508.5	58.34		78.276	
12,700.0	7,740.0	7,150.0	7,021.1	93.3	26.0	29.28	504.0	1,114.9	4,665.2	4,606.0	59.20		78.802	
12,800.0	7,740.0	7,150.0	7,021.1	95.1	26.0	29.28	504.0	1,114.9	4,763.7	4,703.6	60.06		79.314	
12,900.0	7,740.0	7,150.0	7,021.1	96.8	26.0	29.28	504.0	1,114.9	4,862.2	4,801.3	60.92		79.811	
13,000.0	7,740.0	7,150.0	7,021.1	98.5	26.0	29.28	504.0	1,114.9	4,960.8	4,899.0	61.78		80.295	
13,100.0	7,740.0	7,150.0	7,021.1	100.2	26.0	29.28	504.0	1,114.9	5,059.4	4,996.8	62.64		80.766	
13,200.0	7,740.0	7,150.0	7,021.1	102.0	26.0	29.28	504.0	1,114.9	5,158.1	5,094.6	63.50		81.224	
13,300.0	7,740.0	7,150.0	7,021.1	103.7	26.0	29.28	504.0	1,114.9	5,256.9	5,192.5	64.37		81.671	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-50.1	50.1					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-50.1	50.1	49.8	0.30	164.967		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-50.1	50.1	49.4	0.65	76.749		
300.0	300.0	300.8	300.8	0.5	0.5	-89.66	0.3	-49.3	49.3	48.3	1.00	49.063		
400.0	400.0	401.6	401.5	0.7	0.7	-88.58	1.2	-46.7	46.8	45.4	1.36	34.414		
500.0	500.0	502.3	502.1	0.9	0.9	179.49	2.6	-42.6	43.6	41.9	1.71	25.525		
600.0	600.0	602.9	602.5	1.0	1.1	-177.12	4.6	-36.7	40.6	38.5	2.06	19.670		
700.0	699.9	703.4	702.7	1.2	1.3	-172.21	7.2	-29.2	37.9	35.5	2.43	15.639		
800.0	799.7	803.8	802.7	1.4	1.5	-165.61	10.4	-20.0	35.9	33.1	2.81	12.792		
900.0	899.4	904.1	902.4	1.6	1.8	-157.37	14.1	-9.2	34.8	31.6	3.23	10.787		
942.2	941.4	946.4	944.3	1.7	1.9	-153.50	15.8	-4.2	34.7	31.3	3.42	10.138 CC		
1,000.0	998.9	1,004.4	1,001.7	1.8	2.1	-147.95	18.4	3.2	34.9	31.2	3.71	9.427 ES		
1,076.7	1,075.1	1,081.1	1,077.6	2.0	2.3	-140.43	22.0	13.8	36.0	31.9	4.12	8.738		
1,100.0	1,098.3	1,104.5	1,100.7	2.1	2.4	-138.12	23.2	17.3	36.5	32.2	4.26	8.574		
1,200.0	1,197.6	1,204.4	1,199.3	2.3	2.7	-127.46	28.6	32.9	38.9	34.0	4.88	7.966		
1,300.0	1,296.9	1,304.1	1,297.3	2.6	3.0	-115.99	34.6	50.2	42.3	36.7	5.55	7.623 SF		
1,400.0	1,396.2	1,403.6	1,394.7	2.8	3.4	-104.48	41.0	69.0	47.3	41.1	6.20	7.634		
1,500.0	1,495.5	1,502.6	1,491.4	3.1	3.8	-93.77	48.0	89.3	54.5	47.7	6.79	8.017		
1,600.0	1,594.8	1,601.3	1,587.4	3.3	4.3	-84.39	55.6	111.1	63.8	56.5	7.31	8.738		
1,700.0	1,694.1	1,700.3	1,683.5	3.6	4.7	-77.03	63.3	133.7	74.9	67.2	7.75	9.665		
1,800.0	1,793.4	1,799.3	1,779.5	3.9	5.1	-71.62	71.1	156.3	86.9	78.8	8.18	10.633		
1,900.0	1,892.7	1,898.3	1,875.6	4.1	5.6	-67.54	78.9	178.8	99.5	90.9	8.59	11.584		
2,000.0	1,992.0	1,997.3	1,971.7	4.4	6.0	-64.38	86.7	201.4	112.5	103.5	9.00	12.491		
2,100.0	2,091.3	2,096.3	2,067.7	4.7	6.5	-61.89	94.4	224.0	125.7	116.3	9.42	13.345		
2,200.0	2,190.6	2,195.3	2,163.8	4.9	6.9	-59.87	102.2	246.5	139.1	129.3	9.84	14.143		
2,300.0	2,289.9	2,294.3	2,259.9	5.2	7.4	-58.20	110.0	269.1	152.7	142.4	10.26	14.886		
2,400.0	2,389.2	2,393.2	2,355.9	5.5	7.8	-56.81	117.8	291.7	166.3	155.7	10.68	15.576		
2,500.0	2,488.5	2,492.2	2,452.0	5.7	8.3	-55.63	125.5	314.2	180.1	169.0	11.10	16.218		
2,600.0	2,587.8	2,591.2	2,548.1	6.0	8.7	-54.62	133.3	336.8	193.9	182.4	11.53	16.816		
2,700.0	2,687.1	2,690.2	2,644.1	6.3	9.2	-53.74	141.1	359.4	207.8	195.8	11.96	17.373		
2,800.0	2,786.4	2,789.2	2,740.2	6.5	9.7	-52.97	148.9	382.0	221.7	209.3	12.39	17.892		
2,900.0	2,885.7	2,888.2	2,836.3	6.8	10.1	-52.29	156.6	404.5	235.6	222.8	12.82	18.378		
3,000.0	2,985.0	2,987.2	2,932.3	7.1	10.6	-51.69	164.4	427.1	249.6	236.3	13.25	18.832		
3,100.0	3,084.3	3,086.2	3,028.4	7.3	11.0	-51.15	172.2	449.7	263.6	249.9	13.69	19.259		
3,200.0	3,183.6	3,185.1	3,124.5	7.6	11.5	-50.67	180.0	472.2	277.6	263.5	14.12	19.659		
3,300.0	3,282.9	3,284.1	3,220.5	7.9	11.9	-50.23	187.8	494.8	291.6	277.1	14.55	20.036		
3,400.0	3,382.2	3,383.1	3,316.6	8.1	12.4	-49.84	195.5	517.4	305.7	290.7	14.99	20.391		
3,500.0	3,481.5	3,482.1	3,412.7	8.4	12.9	-49.47	203.3	540.0	319.7	304.3	15.43	20.726		
3,600.0	3,580.9	3,581.1	3,508.7	8.7	13.3	-49.14	211.1	562.5	333.8	317.9	15.86	21.042		
3,700.0	3,680.2	3,680.1	3,604.8	9.0	13.8	-48.84	218.9	585.1	347.9	331.6	16.30	21.342		
3,800.0	3,779.5	3,779.1	3,700.9	9.2	14.2	-48.56	226.6	607.7	362.0	345.2	16.74	21.626		
3,900.0	3,878.8	3,878.1	3,796.9	9.5	14.7	-48.30	234.4	630.2	376.1	358.9	17.18	21.895		
4,000.0	3,978.1	3,977.0	3,893.0	9.8	15.1	-48.05	242.2	652.8	390.2	372.5	17.61	22.151		
4,100.0	4,077.4	4,076.0	3,989.1	10.0	15.6	-47.83	250.0	675.4	404.3	386.2	18.05	22.395		
4,200.0	4,176.7	4,175.0	4,085.1	10.3	16.1	-47.62	257.7	697.9	418.4	399.9	18.49	22.627		
4,300.0	4,276.0	4,274.0	4,181.2	10.6	16.5	-47.43	265.5	720.5	432.5	413.6	18.93	22.848		
4,400.0	4,375.3	4,373.0	4,277.3	10.8	17.0	-47.24	273.3	743.1	446.6	427.3	19.37	23.059		
4,500.0	4,474.6	4,472.0	4,373.3	11.1	17.4	-47.07	281.1	765.7	460.8	441.0	19.81	23.261		
4,600.0	4,573.9	4,571.0	4,469.4	11.4	17.9	-46.91	288.9	788.2	474.9	454.6	20.25	23.454		
4,700.0	4,673.2	4,670.0	4,565.4	11.7	18.4	-46.76	296.6	810.8	489.0	468.3	20.69	23.638		
4,800.0	4,772.5	4,768.9	4,661.5	11.9	18.8	-46.61	304.4	833.4	503.2	482.0	21.13	23.815		
4,900.0	4,871.8	4,867.9	4,757.6	12.2	19.3	-46.48	312.2	855.9	517.3	495.7	21.57	23.985		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,971.1	4,966.9	4,853.6	12.5	19.7	-46.35	320.0	878.5	531.5	509.5	22.01	24.148	
5,100.0	5,070.4	5,065.9	4,949.7	12.7	20.2	-46.23	327.7	901.1	545.6	523.2	22.45	24.304	
5,200.0	5,169.7	5,164.9	5,045.8	13.0	20.7	-46.11	335.5	923.6	559.8	536.9	22.89	24.455	
5,300.0	5,269.0	5,263.9	5,141.8	13.3	21.1	-46.00	343.3	946.2	573.9	550.6	23.33	24.600	
5,400.0	5,368.3	5,362.9	5,237.9	13.5	21.6	-45.89	351.1	968.8	588.1	564.3	23.77	24.739	
5,500.0	5,467.6	5,461.9	5,334.0	13.8	22.0	-45.79	358.8	991.4	602.2	578.0	24.21	24.873	
5,600.0	5,566.9	5,560.8	5,430.0	14.1	22.5	-45.70	366.6	1,013.9	616.4	591.7	24.65	25.003	
5,700.0	5,666.2	5,659.8	5,526.1	14.4	23.0	-45.61	374.4	1,036.5	630.5	605.5	25.09	25.127	
5,800.0	5,765.5	5,758.8	5,622.2	14.6	23.4	-45.52	382.2	1,059.1	644.7	619.2	25.54	25.248	
5,900.0	5,864.8	5,857.8	5,718.2	14.9	23.9	-45.44	389.9	1,081.6	658.9	632.9	25.98	25.364	
6,000.0	5,964.1	5,956.8	5,814.3	15.2	24.3	-45.36	397.7	1,104.2	673.0	646.6	26.42	25.477	
6,100.0	6,063.4	6,055.8	5,910.4	15.4	24.8	-45.28	405.5	1,126.8	687.2	660.3	26.86	25.585	
6,200.0	6,162.7	6,154.8	6,006.4	15.7	25.3	-45.21	413.3	1,149.3	701.4	674.1	27.30	25.691	
6,300.0	6,262.0	6,253.8	6,102.5	16.0	25.7	-45.14	421.1	1,171.9	715.5	687.8	27.74	25.792	
6,400.0	6,361.3	6,352.7	6,198.6	16.2	26.2	-45.07	428.8	1,194.5	729.7	701.5	28.18	25.891	
6,500.0	6,460.7	6,451.7	6,294.6	16.5	26.6	-45.00	436.6	1,217.1	743.9	715.2	28.63	25.987	
6,600.0	6,560.0	6,550.7	6,390.7	16.8	27.1	-44.94	444.4	1,239.6	758.0	729.0	29.07	26.079	
6,700.0	6,659.3	6,649.7	6,486.8	17.1	27.6	-44.88	452.2	1,262.2	772.2	742.7	29.51	26.169	
6,800.0	6,758.6	6,748.7	6,582.8	17.3	28.0	-44.82	459.9	1,284.8	786.4	756.4	29.95	26.256	
6,900.0	6,857.9	6,847.7	6,678.9	17.6	28.5	-44.77	467.7	1,307.3	800.6	770.2	30.39	26.341	
7,000.0	6,957.2	6,946.7	6,775.0	17.9	28.9	-44.71	475.5	1,329.9	814.7	783.9	30.83	26.423	
7,100.0	7,056.5	7,045.7	6,871.0	18.1	29.4	-44.66	483.3	1,352.5	828.9	797.6	31.28	26.503	
7,200.0	7,155.8	7,144.6	6,967.1	18.4	29.9	-44.61	491.0	1,375.1	843.1	811.4	31.72	26.581	
7,210.0	7,165.7	7,154.6	6,976.7	18.4	29.9	-44.60	491.8	1,377.3	844.5	812.7	31.76	26.589	
7,250.0	7,205.4	7,194.2	7,015.2	18.5	30.1	-13.32	494.9	1,386.4	849.3	817.2	32.04	26.504	
7,300.0	7,254.8	7,243.9	7,063.4	18.7	30.3	10.87	498.8	1,397.7	852.7	820.7	32.07	26.593	
7,350.0	7,303.5	7,293.2	7,111.3	18.8	30.6	23.20	502.7	1,408.9	853.4	821.7	31.74	26.889	
7,400.0	7,351.2	7,341.7	7,193.4	18.9	31.5	38.23	464.0	1,475.2	848.3	818.7	29.64	28.620	
7,450.0	7,397.6	7,381.2	7,286.8	19.0	31.9	58.36	328.1	1,520.7	827.4	800.2	27.20	30.415	
7,500.0	7,442.2	7,433.6	7,262.2	19.2	31.9	68.21	280.6	1,529.9	804.4	777.4	26.99	29.804	
7,550.0	7,484.8	7,475.9	7,235.5	19.3	31.9	73.68	267.6	1,532.1	783.0	755.8	27.23	28.761	
7,600.0	7,525.0	7,516.6	7,208.6	19.5	31.9	76.98	268.6	1,531.9	764.0	736.4	27.53	27.754	
7,650.0	7,562.4	7,553.9	7,181.9	19.6	31.9	78.96	276.3	1,530.6	747.6	719.8	27.81	26.877	
7,700.0	7,596.9	7,588.0	7,155.0	19.8	31.9	80.02	287.5	1,528.7	734.0	705.9	28.08	26.136	
7,750.0	7,628.2	7,619.6	7,128.6	20.0	31.9	80.39	300.6	1,526.3	723.4	695.1	28.34	25.525	
7,800.0	7,656.0	7,647.3	7,101.7	20.3	31.9	80.18	314.8	1,523.5	715.7	687.1	28.60	25.029	
7,850.0	7,680.1	7,671.3	7,075.5	20.5	31.9	79.51	329.5	1,520.4	710.9	682.1	28.87	24.622	
7,900.0	7,700.3	7,691.4	7,049.2	20.8	31.8	78.42	344.3	1,517.0	708.9	679.7	29.19	24.289	
7,912.9	7,704.9	7,695.9	7,023.4	20.9	31.8	78.08	348.2	1,516.1	708.8	679.6	29.28	24.210	
7,950.0	7,716.5	7,707.5	7,000.0	21.1	31.8	76.99	359.1	1,513.4	709.5	680.0	29.55	24.010	
8,000.0	7,728.5	7,719.4	6,974.8	21.5	31.8	75.26	373.5	1,509.6	712.5	682.6	29.99	23.761	
8,050.0	7,736.3	7,727.2	6,949.2	21.9	31.8	73.28	387.5	1,505.6	717.7	687.2	30.51	23.523	
8,100.0	7,739.8	7,730.7	6,924.5	22.2	31.7	71.09	401.0	1,501.4	724.7	693.5	31.14	23.270	
8,115.3	7,740.0	7,731.0	6,900.0	22.4	31.7	70.39	405.1	1,500.1	727.2	695.8	31.36	23.186	
8,200.0	7,740.0	7,731.0	6,875.0	23.1	31.7	68.05	424.2	1,493.3	744.8	712.7	32.10	23.199	
8,300.0	7,740.0	7,731.0	6,850.0	24.1	31.7	66.20	437.8	1,487.9	774.8	741.7	33.05	23.442	
8,400.0	7,740.0	7,731.0	6,825.0	25.2	31.6	63.82	453.3	1,480.8	814.2	780.2	33.92	24.002	
8,500.0	7,740.0	7,731.0	6,800.0	26.3	31.6	62.76	459.7	1,477.6	862.2	827.3	34.96	24.660	
8,600.0	7,740.0	7,731.0	6,775.0	27.5	31.5	60.89	469.8	1,471.9	917.7	881.8	35.86	25.593	
8,700.0	7,740.0	7,731.0	6,750.0	28.7	31.5	59.29	477.5	1,466.9	979.7	942.9	36.77	26.644	
8,800.0	7,740.0	7,731.0	6,725.0	30.0	31.5	59.29	477.5	1,466.9	1,047.1	1,009.0	38.04	27.524	
8,900.0	7,740.0	7,731.0	6,700.0	31.4	31.4	57.93	483.3	1,462.6	1,118.9	1,079.9	38.98	28.707	

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Cathedral Energy Services

Anticollision Report

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Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,000.0	7,740.0	7,519.6	7,329.8	32.8	31.4	57.19	486.3	1,460.3	1,194.6	1,154.5	40.06	29.817	
9,100.0	7,740.0	7,500.0	7,311.3	34.2	31.3	55.85	491.1	1,455.9	1,273.6	1,232.6	40.95	31.103	
9,200.0	7,740.0	7,500.0	7,311.3	35.6	31.3	55.85	491.1	1,455.9	1,354.9	1,312.7	42.25	32.067	
9,300.0	7,740.0	7,500.0	7,311.3	37.1	31.3	55.85	491.1	1,455.9	1,438.6	1,395.0	43.57	33.016	
9,400.0	7,740.0	7,500.0	7,311.3	38.6	31.3	55.85	491.1	1,455.9	1,524.3	1,479.4	44.91	33.944	
9,500.0	7,740.0	7,481.7	7,293.8	40.1	31.3	54.61	495.1	1,451.8	1,611.2	1,565.5	45.74	35.223	
9,600.0	7,740.0	7,476.2	7,288.6	41.7	31.3	54.24	496.2	1,450.6	1,699.7	1,652.8	46.92	36.229	
9,700.0	7,740.0	7,471.2	7,283.8	43.2	31.2	53.90	497.1	1,449.5	1,789.3	1,741.2	48.10	37.202	
9,800.0	7,740.0	7,450.0	7,263.5	44.8	31.2	52.49	500.6	1,444.7	1,880.3	1,831.5	48.76	38.565	
9,900.0	7,740.0	7,450.0	7,263.5	46.4	31.2	52.49	500.6	1,444.7	1,971.6	1,921.6	50.07	39.375	
10,000.0	7,740.0	7,450.0	7,263.5	48.0	31.2	52.49	500.6	1,444.7	2,063.8	2,012.4	51.40	40.155	
10,100.0	7,740.0	7,450.0	7,263.5	49.6	31.2	52.49	500.6	1,444.7	2,156.7	2,103.9	52.72	40.904	
10,200.0	7,740.0	7,450.0	7,263.5	51.2	31.2	52.49	500.6	1,444.7	2,250.1	2,196.1	54.06	41.625	
10,300.0	7,740.0	7,450.0	7,263.5	52.8	31.2	52.49	500.6	1,444.7	2,344.1	2,288.8	55.39	42.317	
10,400.0	7,740.0	7,450.0	7,263.5	54.5	31.2	52.49	500.6	1,444.7	2,438.6	2,381.9	56.74	42.983	
10,500.0	7,740.0	7,450.0	7,263.5	56.1	31.2	52.49	500.6	1,444.7	2,533.5	2,475.5	58.08	43.622	
10,600.0	7,740.0	7,450.0	7,263.5	57.7	31.2	52.49	500.6	1,444.7	2,628.8	2,569.4	59.43	44.236	
10,700.0	7,740.0	7,450.0	7,263.5	59.4	31.2	52.49	500.6	1,444.7	2,724.5	2,663.7	60.78	44.827	
10,800.0	7,740.0	7,450.0	7,263.5	61.1	31.2	52.49	500.6	1,444.7	2,820.4	2,758.3	62.13	45.395	
10,900.0	7,740.0	7,450.0	7,263.5	62.7	31.2	52.49	500.6	1,444.7	2,916.6	2,853.1	63.49	45.941	
11,000.0	7,740.0	7,450.0	7,263.5	64.4	31.2	52.49	500.6	1,444.7	3,013.1	2,948.2	64.84	46.467	
11,100.0	7,740.0	7,450.0	7,263.5	66.1	31.2	52.49	500.6	1,444.7	3,109.7	3,043.5	66.20	46.973	
11,200.0	7,740.0	7,428.3	7,242.5	67.7	31.1	51.07	503.3	1,439.8	3,206.1	3,139.7	66.48	48.228	
11,300.0	7,740.0	7,426.6	7,240.9	69.4	31.1	50.97	503.5	1,439.4	3,303.1	3,235.4	67.73	48.769	
11,395.3	7,740.0	7,425.1	7,239.5	71.0	31.1	50.87	503.7	1,439.0	3,395.8	3,326.8	68.93	49.267	
11,400.0	7,740.0	7,425.0	7,239.4	71.1	31.1	50.99	503.7	1,439.0	3,400.3	3,331.2	69.10	49.209	
11,500.0	7,740.0	7,423.6	7,238.0	72.8	31.1	53.40	503.8	1,438.7	3,497.4	3,424.7	72.75	48.074	
11,584.7	7,740.0	7,422.4	7,236.9	74.2	31.1	55.30	503.9	1,438.4	3,579.6	3,503.8	75.73	47.269	
11,600.0	7,740.0	7,422.2	7,236.7	74.5	31.1	55.28	504.0	1,438.4	3,594.4	3,518.5	75.94	47.335	
11,700.0	7,740.0	7,400.0	7,215.1	76.2	31.0	53.96	505.7	1,433.3	3,691.9	3,615.6	76.28	48.402	
11,800.0	7,740.0	7,400.0	7,215.1	77.9	31.0	53.96	505.7	1,433.3	3,789.0	3,711.3	77.67	48.781	
11,900.0	7,740.0	7,400.0	7,215.1	79.6	31.0	53.96	505.7	1,433.3	3,886.2	3,807.2	79.07	49.148	
12,000.0	7,740.0	7,400.0	7,215.1	81.3	31.0	53.96	505.7	1,433.3	3,983.6	3,903.1	80.47	49.503	
12,100.0	7,740.0	7,400.0	7,215.1	83.0	31.0	53.96	505.7	1,433.3	4,081.1	3,999.3	81.87	49.847	
12,200.0	7,740.0	7,400.0	7,215.1	84.8	31.0	53.96	505.7	1,433.3	4,178.8	4,095.5	83.27	50.181	
12,300.0	7,740.0	7,400.0	7,215.1	86.5	31.0	53.96	505.7	1,433.3	4,276.5	4,191.9	84.68	50.504	
12,400.0	7,740.0	7,400.0	7,215.1	88.2	31.0	53.96	505.7	1,433.3	4,374.4	4,288.3	86.08	50.817	
12,500.0	7,740.0	7,400.0	7,215.1	89.9	31.0	53.96	505.7	1,433.3	4,472.3	4,384.8	87.49	51.121	
12,600.0	7,740.0	7,400.0	7,215.1	91.6	31.0	53.96	505.7	1,433.3	4,570.4	4,481.5	88.89	51.416	
12,700.0	7,740.0	7,400.0	7,215.1	93.3	31.0	53.96	505.7	1,433.3	4,668.5	4,578.2	90.30	51.702	
12,800.0	7,740.0	7,400.0	7,215.1	95.1	31.0	53.96	505.7	1,433.3	4,766.7	4,675.0	91.70	51.980	
12,900.0	7,740.0	7,400.0	7,215.1	96.8	31.0	53.96	505.7	1,433.3	4,864.9	4,771.8	93.11	52.250	
13,000.0	7,740.0	7,400.0	7,215.1	98.5	31.0	53.96	505.7	1,433.3	4,963.3	4,868.8	94.52	52.512	
13,100.0	7,740.0	7,400.0	7,215.1	100.2	31.0	53.96	505.7	1,433.3	5,061.7	4,965.8	95.93	52.767	
13,200.0	7,740.0	7,400.0	7,215.1	102.0	31.0	53.96	505.7	1,433.3	5,160.1	5,062.8	97.33	53.015	
13,300.0	7,740.0	7,400.0	7,215.1	103.7	31.0	53.96	505.7	1,433.3	5,258.7	5,159.9	98.74	53.256	

Cathedral Energy Services

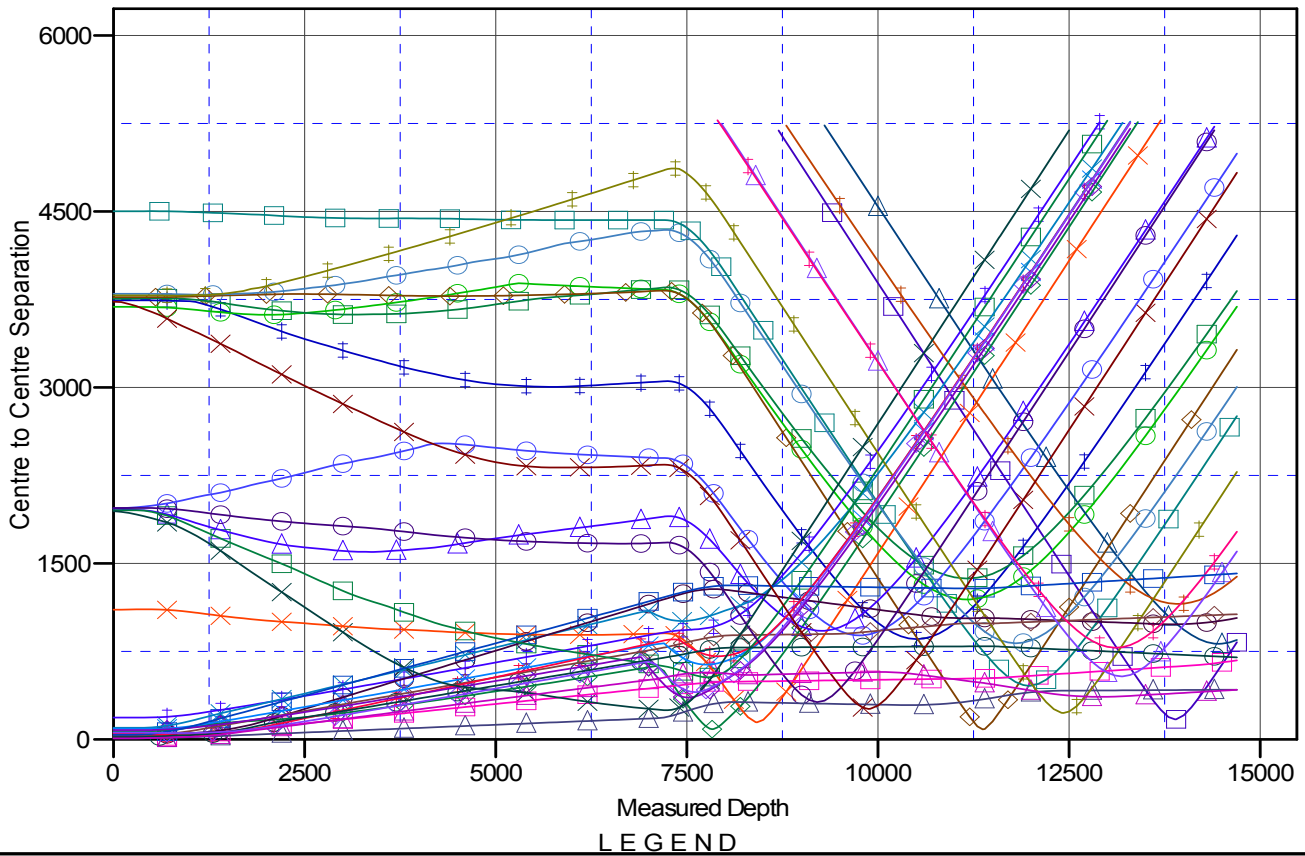
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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

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

Ladder Plot



NG), ENCANAWELL, SURVEYS V0	BEARDEN 23-6 (EXISTING), ENCANAWELL, GYRO V0	WOOLLEY 22-7 (EXISTING), ENCAN
NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2D-7H-E168, Hz, Plan #4 V0	WOOLLEY 21-7 (EXISTING), ENCAN
ING), KERR-MCGEE WELL, SURVEYS V0	BEARDEN 13-6 (EXISTING), ENCANAWELL, SURVEYS V0	Woolley-Sosa 2D-7H-E168, HZ, Plan #
38 HZ, Plan #3 V0	BULTHAUP 21-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	WOOLLEY 2-4-7 (EXISTING), ENCAN
ISTING), ENCANAWELL, GYRO V0	Woolley-Sosa 2B-7H-E168, HZ, Plan #2 V0	BECKY 7-6 (EXISTING), NOBLE WEI
FOUNDATION WELL, NO SURVEYS V0	BEARDEN 2-4-6 (EXISTING), ENCANAWELL, PLAN ONLY V0	BECKY 4 (EXISTING), MARTIN EXP1
ING), ENCANAWELL, SURVEYS V0	Woolley-Becky 2C-7H-E168, Hz, Plan #4 V0	Woolley-Becky 2A-7H-E168, Hz, Plan #
ING), ENCANAWELL, SURVEYS V0	Woolley-Becky 2H-7H-E168, Hz, Plan #3 V0	Woolley-Becky 2G-7H-E168, Hz, Plan #
), ENCANAWELL, SURVEYS V0	Woolley-Becky 2B-7H-E168, Hz, Plan #2 V0	Woolley-Sosa 2F-7H-E168, HZ, Plan #
NG), ENCANAWELL, SURVEYS V0	Woolley-Sosa 2C-7H-E168, HZ, Plan #2 V0	BEARDEN 2-8-6 (EXISTING), ENCAN

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