

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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

Site		S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)			
Site Position:		Northing:	1,265,219.42 ft	Latitude:	40.060530
From:	Lat/Long	Easting:	3,126,139.27 ft	Longitude:	-105.049370
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Woolley-Becky 2C-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.46 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,125,017.86 ft	Longitude:	-105.053335
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 #4			
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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
897.7	2.98	96.72	897.5	-0.9	7.7	1.00	1.00	0.00	96.72	
7,172.4	2.98	96.72	7,163.8	-39.0	331.3	0.00	0.00	0.00	0.00	
8,076.4	90.00	359.00	7,740.0	534.3	351.0	10.00	9.63	-10.81	-97.71	
14,076.4	90.00	359.00	7,740.0	6,533.4	246.2	0.00	0.00	0.00	0.00	Woolley-Becky 2C-7H
14,338.4	90.00	356.38	7,740.0	6,795.2	235.7	1.00	0.00	-1.00	-90.00	
14,632.3	90.00	356.38	7,740.0	7,088.5	217.1	0.00	0.00	0.00	0.00	Woolley-Becky 2C-7H

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Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	KOP @ 600' MD
700.0	1.00	96.72	700.0	-0.1	0.9	-0.1	1.00	1.00	
800.0	2.00	96.72	800.0	-0.4	3.5	-0.4	1.00	1.00	
897.7	2.98	96.72	897.5	-0.9	7.7	-0.9	1.00	1.00	EOB; 2.98°
900.0	2.98	96.72	899.9	-0.9	7.8	-0.9	0.00	0.00	
1,000.0	2.98	96.72	999.7	-1.5	13.0	-1.5	0.00	0.00	
1,100.0	2.98	96.72	1,099.6	-2.1	18.1	-2.1	0.00	0.00	
1,200.0	2.98	96.72	1,199.5	-2.7	23.3	-2.7	0.00	0.00	
1,300.0	2.98	96.72	1,299.3	-3.3	28.4	-3.3	0.00	0.00	
1,400.0	2.98	96.72	1,399.2	-4.0	33.6	-4.0	0.00	0.00	
1,500.0	2.98	96.72	1,499.1	-4.6	38.7	-4.6	0.00	0.00	
1,600.0	2.98	96.72	1,598.9	-5.2	43.9	-5.2	0.00	0.00	
1,700.0	2.98	96.72	1,698.8	-5.8	49.1	-5.8	0.00	0.00	
1,800.0	2.98	96.72	1,798.6	-6.4	54.2	-6.4	0.00	0.00	
1,900.0	2.98	96.72	1,898.5	-7.0	59.4	-7.0	0.00	0.00	
2,000.0	2.98	96.72	1,998.4	-7.6	64.5	-7.6	0.00	0.00	
2,100.0	2.98	96.72	2,098.2	-8.2	69.7	-8.2	0.00	0.00	
2,200.0	2.98	96.72	2,198.1	-8.8	74.8	-8.8	0.00	0.00	
2,300.0	2.98	96.72	2,298.0	-9.4	80.0	-9.4	0.00	0.00	
2,400.0	2.98	96.72	2,397.8	-10.0	85.2	-10.0	0.00	0.00	
2,500.0	2.98	96.72	2,497.7	-10.6	90.3	-10.6	0.00	0.00	
2,600.0	2.98	96.72	2,597.6	-11.2	95.5	-11.2	0.00	0.00	
2,700.0	2.98	96.72	2,697.4	-11.9	100.6	-11.9	0.00	0.00	
2,800.0	2.98	96.72	2,797.3	-12.5	105.8	-12.5	0.00	0.00	
2,900.0	2.98	96.72	2,897.2	-13.1	110.9	-13.1	0.00	0.00	
3,000.0	2.98	96.72	2,997.0	-13.7	116.1	-13.7	0.00	0.00	
3,100.0	2.98	96.72	3,096.9	-14.3	121.3	-14.3	0.00	0.00	
3,200.0	2.98	96.72	3,196.8	-14.9	126.4	-14.9	0.00	0.00	
3,300.0	2.98	96.72	3,296.6	-15.5	131.6	-15.5	0.00	0.00	
3,400.0	2.98	96.72	3,396.5	-16.1	136.7	-16.1	0.00	0.00	
3,500.0	2.98	96.72	3,496.4	-16.7	141.9	-16.7	0.00	0.00	
3,600.0	2.98	96.72	3,596.2	-17.3	147.0	-17.3	0.00	0.00	
3,700.0	2.98	96.72	3,696.1	-17.9	152.2	-17.9	0.00	0.00	
3,800.0	2.98	96.72	3,796.0	-18.5	157.4	-18.5	0.00	0.00	
3,900.0	2.98	96.72	3,895.8	-19.1	162.5	-19.1	0.00	0.00	
4,000.0	2.98	96.72	3,995.7	-19.8	167.7	-19.8	0.00	0.00	
4,100.0	2.98	96.72	4,095.5	-20.4	172.8	-20.4	0.00	0.00	
4,200.0	2.98	96.72	4,195.4	-21.0	178.0	-21.0	0.00	0.00	
4,300.0	2.98	96.72	4,295.3	-21.6	183.1	-21.6	0.00	0.00	
4,400.0	2.98	96.72	4,395.1	-22.2	188.3	-22.2	0.00	0.00	
4,442.9	2.98	96.72	4,438.0	-22.4	190.5	-22.4	0.00	0.00	Sussex
4,500.0	2.98	96.72	4,495.0	-22.8	193.5	-22.8	0.00	0.00	
4,600.0	2.98	96.72	4,594.9	-23.4	198.6	-23.4	0.00	0.00	
4,700.0	2.98	96.72	4,694.7	-24.0	203.8	-24.0	0.00	0.00	
4,800.0	2.98	96.72	4,794.6	-24.6	208.9	-24.6	0.00	0.00	
4,900.0	2.98	96.72	4,894.5	-25.2	214.1	-25.2	0.00	0.00	

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Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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	2.98	96.72	4,994.3	-25.8	219.2	-25.8	0.00	0.00	
5,010.7	2.98	96.72	5,005.0	-25.9	219.8	-25.9	0.00	0.00	Shannon
5,100.0	2.98	96.72	5,094.2	-26.4	224.4	-26.4	0.00	0.00	
5,200.0	2.98	96.72	5,194.1	-27.0	229.6	-27.0	0.00	0.00	
5,300.0	2.98	96.72	5,293.9	-27.7	234.7	-27.7	0.00	0.00	
5,400.0	2.98	96.72	5,393.8	-28.3	239.9	-28.3	0.00	0.00	
5,500.0	2.98	96.72	5,493.7	-28.9	245.0	-28.9	0.00	0.00	
5,600.0	2.98	96.72	5,593.5	-29.5	250.2	-29.5	0.00	0.00	
5,700.0	2.98	96.72	5,693.4	-30.1	255.3	-30.1	0.00	0.00	
5,800.0	2.98	96.72	5,793.3	-30.7	260.5	-30.7	0.00	0.00	
5,900.0	2.98	96.72	5,893.1	-31.3	265.7	-31.3	0.00	0.00	
6,000.0	2.98	96.72	5,993.0	-31.9	270.8	-31.9	0.00	0.00	
6,100.0	2.98	96.72	6,092.8	-32.5	276.0	-32.5	0.00	0.00	
6,200.0	2.98	96.72	6,192.7	-33.1	281.1	-33.1	0.00	0.00	
6,300.0	2.98	96.72	6,292.6	-33.7	286.3	-33.7	0.00	0.00	
6,400.0	2.98	96.72	6,392.4	-34.3	291.4	-34.3	0.00	0.00	
6,500.0	2.98	96.72	6,492.3	-34.9	296.6	-34.9	0.00	0.00	
6,535.7	2.98	96.72	6,528.0	-35.2	298.4	-35.2	0.00	0.00	Teepee Buttes (*if present)
6,600.0	2.98	96.72	6,592.2	-35.6	301.8	-35.6	0.00	0.00	
6,700.0	2.98	96.72	6,692.0	-36.2	306.9	-36.2	0.00	0.00	
6,800.0	2.98	96.72	6,791.9	-36.8	312.1	-36.8	0.00	0.00	
6,900.0	2.98	96.72	6,891.8	-37.4	317.2	-37.4	0.00	0.00	
7,000.0	2.98	96.72	6,991.6	-38.0	322.4	-38.0	0.00	0.00	
7,100.0	2.98	96.72	7,091.5	-38.6	327.5	-38.6	0.00	0.00	
7,172.4	2.98	96.72	7,163.8	-39.0	331.3	-39.0	0.00	0.00	Start 10° Build/Turn
7,200.0	3.78	50.32	7,191.4	-38.5	332.7	-38.5	10.00	2.90	
7,250.0	7.93	20.72	7,241.1	-34.3	335.2	-34.3	10.00	8.30	
7,300.0	12.70	12.22	7,290.3	-25.7	337.6	-25.7	10.00	9.55	
7,330.7	15.70	9.56	7,320.0	-18.3	339.0	-18.3	10.00	9.77	Sharon Springs
7,350.0	17.60	8.35	7,338.5	-12.8	339.8	-12.8	10.00	9.84	
7,384.4	21.00	6.71	7,371.0	-1.5	341.3	-1.5	10.00	9.88	Niobrara
7,400.0	22.54	6.13	7,385.5	4.2	341.9	4.2	10.00	9.90	
7,450.0	27.51	4.68	7,430.8	25.3	343.9	25.3	10.00	9.93	
7,500.0	32.48	3.64	7,474.1	50.2	345.7	50.2	10.00	9.95	
7,515.5	34.02	3.38	7,487.0	58.7	346.2	58.7	10.00	9.96	B Chalk
7,550.0	37.46	2.86	7,515.0	78.8	347.3	78.8	10.00	9.96	B Marl
7,600.0	42.44	2.23	7,553.3	110.9	348.7	110.9	10.00	9.97	
7,650.0	47.43	1.71	7,588.7	146.1	349.9	146.1	10.00	9.97	
7,668.5	49.27	1.54	7,601.0	159.9	350.3	159.9	10.00	9.98	C Chalk
7,700.0	52.42	1.27	7,620.9	184.4	350.9	184.4	10.00	9.98	
7,706.8	53.09	1.22	7,625.0	189.8	351.0	189.8	10.00	9.98	C Marl
7,750.0	57.41	0.89	7,649.6	225.3	351.7	225.3	10.00	9.98	
7,762.0	58.61	0.80	7,656.0	235.5	351.8	235.5	10.00	9.98	D Chalk
7,800.0	62.40	0.54	7,674.7	268.5	352.2	268.5	10.00	9.98	
7,850.0	67.39	0.23	7,695.9	313.8	352.5	313.8	10.00	9.98	
7,893.2	71.71	359.98	7,711.0	354.3	352.6	354.3	10.00	9.98	Fort Hayes
7,900.0	72.38	359.94	7,713.1	360.7	352.6	360.7	10.00	9.99	
7,950.0	77.38	359.66	7,726.1	409.0	352.4	409.0	10.00	9.99	
7,986.7	81.04	359.47	7,733.0	445.0	352.2	445.0	10.00	9.99	Codell
8,000.0	82.37	359.40	7,734.9	458.2	352.0	458.2	10.00	9.99	
8,050.0	87.36	359.14	7,739.4	508.0	351.4	508.0	10.00	9.99	
8,076.4	90.00	359.00	7,740.0	534.3	351.0	534.3	10.00	9.99	LP @ 7740' TVD; 90°

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Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
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Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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
8,100.0	90.00	359.00	7,740.0	557.9	350.5	557.9	0.00	0.00	
8,200.0	90.00	359.00	7,740.0	657.9	348.8	657.9	0.00	0.00	
8,300.0	90.00	359.00	7,740.0	757.9	347.1	757.9	0.00	0.00	
8,400.0	90.00	359.00	7,740.0	857.9	345.3	857.9	0.00	0.00	
8,500.0	90.00	359.00	7,740.0	957.9	343.6	957.9	0.00	0.00	
8,600.0	90.00	359.00	7,740.0	1,057.9	341.8	1,057.9	0.00	0.00	
8,700.0	90.00	359.00	7,740.0	1,157.8	340.1	1,157.8	0.00	0.00	
8,800.0	90.00	359.00	7,740.0	1,257.8	338.3	1,257.8	0.00	0.00	
8,900.0	90.00	359.00	7,740.0	1,357.8	336.6	1,357.8	0.00	0.00	
9,000.0	90.00	359.00	7,740.0	1,457.8	334.8	1,457.8	0.00	0.00	
9,100.0	90.00	359.00	7,740.0	1,557.8	333.1	1,557.8	0.00	0.00	
9,200.0	90.00	359.00	7,740.0	1,657.8	331.3	1,657.8	0.00	0.00	
9,300.0	90.00	359.00	7,740.0	1,757.8	329.6	1,757.8	0.00	0.00	
9,400.0	90.00	359.00	7,740.0	1,857.7	327.9	1,857.7	0.00	0.00	
9,500.0	90.00	359.00	7,740.0	1,957.7	326.1	1,957.7	0.00	0.00	
9,600.0	90.00	359.00	7,740.0	2,057.7	324.4	2,057.7	0.00	0.00	
9,700.0	90.00	359.00	7,740.0	2,157.7	322.6	2,157.7	0.00	0.00	
9,800.0	90.00	359.00	7,740.0	2,257.7	320.9	2,257.7	0.00	0.00	
9,900.0	90.00	359.00	7,740.0	2,357.7	319.1	2,357.7	0.00	0.00	
10,000.0	90.00	359.00	7,740.0	2,457.6	317.4	2,457.6	0.00	0.00	
10,100.0	90.00	359.00	7,740.0	2,557.6	315.6	2,557.6	0.00	0.00	
10,200.0	90.00	359.00	7,740.0	2,657.6	313.9	2,657.6	0.00	0.00	
10,300.0	90.00	359.00	7,740.0	2,757.6	312.1	2,757.6	0.00	0.00	
10,400.0	90.00	359.00	7,740.0	2,857.6	310.4	2,857.6	0.00	0.00	
10,500.0	90.00	359.00	7,740.0	2,957.6	308.7	2,957.6	0.00	0.00	
10,600.0	90.00	359.00	7,740.0	3,057.6	306.9	3,057.6	0.00	0.00	
10,700.0	90.00	359.00	7,740.0	3,157.5	305.2	3,157.5	0.00	0.00	
10,800.0	90.00	359.00	7,740.0	3,257.5	303.4	3,257.5	0.00	0.00	
10,900.0	90.00	359.00	7,740.0	3,357.5	301.7	3,357.5	0.00	0.00	
11,000.0	90.00	359.00	7,740.0	3,457.5	299.9	3,457.5	0.00	0.00	
11,100.0	90.00	359.00	7,740.0	3,557.5	298.2	3,557.5	0.00	0.00	
11,200.0	90.00	359.00	7,740.0	3,657.5	296.4	3,657.5	0.00	0.00	
11,300.0	90.00	359.00	7,740.0	3,757.4	294.7	3,757.4	0.00	0.00	
11,400.0	90.00	359.00	7,740.0	3,857.4	293.0	3,857.4	0.00	0.00	
11,500.0	90.00	359.00	7,740.0	3,957.4	291.2	3,957.4	0.00	0.00	
11,600.0	90.00	359.00	7,740.0	4,057.4	289.5	4,057.4	0.00	0.00	
11,700.0	90.00	359.00	7,740.0	4,157.4	287.7	4,157.4	0.00	0.00	
11,800.0	90.00	359.00	7,740.0	4,257.4	286.0	4,257.4	0.00	0.00	
11,900.0	90.00	359.00	7,740.0	4,357.4	284.2	4,357.4	0.00	0.00	
12,000.0	90.00	359.00	7,740.0	4,457.3	282.5	4,457.3	0.00	0.00	
12,100.0	90.00	359.00	7,740.0	4,557.3	280.7	4,557.3	0.00	0.00	
12,200.0	90.00	359.00	7,740.0	4,657.3	279.0	4,657.3	0.00	0.00	
12,300.0	90.00	359.00	7,740.0	4,757.3	277.2	4,757.3	0.00	0.00	
12,400.0	90.00	359.00	7,740.0	4,857.3	275.5	4,857.3	0.00	0.00	
12,500.0	90.00	359.00	7,740.0	4,957.3	273.8	4,957.3	0.00	0.00	
12,600.0	90.00	359.00	7,740.0	5,057.3	272.0	5,057.3	0.00	0.00	
12,700.0	90.00	359.00	7,740.0	5,157.2	270.3	5,157.2	0.00	0.00	
12,800.0	90.00	359.00	7,740.0	5,257.2	268.5	5,257.2	0.00	0.00	
12,900.0	90.00	359.00	7,740.0	5,357.2	266.8	5,357.2	0.00	0.00	
13,000.0	90.00	359.00	7,740.0	5,457.2	265.0	5,457.2	0.00	0.00	
13,100.0	90.00	359.00	7,740.0	5,557.2	263.3	5,557.2	0.00	0.00	
13,200.0	90.00	359.00	7,740.0	5,657.2	261.5	5,657.2	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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
13,300.0	90.00	359.00	7,740.0	5,757.1	259.8	5,757.1	0.00	0.00	
13,400.0	90.00	359.00	7,740.0	5,857.1	258.0	5,857.1	0.00	0.00	
13,500.0	90.00	359.00	7,740.0	5,957.1	256.3	5,957.1	0.00	0.00	
13,600.0	90.00	359.00	7,740.0	6,057.1	254.6	6,057.1	0.00	0.00	
13,700.0	90.00	359.00	7,740.0	6,157.1	252.8	6,157.1	0.00	0.00	
13,800.0	90.00	359.00	7,740.0	6,257.1	251.1	6,257.1	0.00	0.00	
13,900.0	90.00	359.00	7,740.0	6,357.1	249.3	6,357.1	0.00	0.00	
14,000.0	90.00	359.00	7,740.0	6,457.0	247.6	6,457.0	0.00	0.00	
14,076.4	90.00	359.00	7,740.0	6,533.4	246.2	6,533.4	0.00	0.00	Start 1° Turn
14,100.0	90.00	358.76	7,740.0	6,557.0	245.8	6,557.0	1.00	0.00	
14,200.0	90.00	357.76	7,740.0	6,657.0	242.8	6,657.0	1.00	0.00	
14,300.0	90.00	356.76	7,740.0	6,756.9	238.0	6,756.9	1.00	0.00	
14,338.4	90.00	356.38	7,740.0	6,795.2	235.7	6,795.2	1.00	0.00	EOT; 356.38°
14,400.0	90.00	356.38	7,740.0	6,856.7	231.8	6,856.7	0.00	0.00	
14,500.0	90.00	356.38	7,740.0	6,956.5	225.5	6,956.5	0.00	0.00	
14,600.0	90.00	356.38	7,740.0	7,056.3	219.2	7,056.3	0.00	0.00	
14,632.3	90.00	356.38	7,740.0	7,088.5	217.1	7,088.5	0.00	0.00	TD at 14632.3

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Woolley-Becky 2C-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	6,533.4	246.2	1,274,052.05	3,125,231.18	40.084789	-105.052455
Woolley-Becky 2C-7H-E - plan misses target center by 63.0ft at 14631.2ft MD (7740.0 TVD, 7087.4 N, 217.2 E) - Point	0.00	0.00	7,803.0	7,087.4	216.8	1,274,605.85	3,125,199.00	40.086310	-105.052560
Woolley-Becky 2C-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	7,088.5	217.1	1,274,606.95	3,125,199.27	40.086313	-105.052559

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,442.9	4,438.0	Sussex				
5,010.7	5,005.0	Shannon				
6,535.7	6,528.0	Teepee Buttes (*if present)				
7,330.7	7,320.0	Sharon Springs				
7,384.4	7,371.0	Niobrara				
7,515.5	7,487.0	B Chalk				
7,550.0	7,515.0	B Marl				
7,668.5	7,601.0	C Chalk				
7,706.8	7,625.0	C Marl				
7,762.0	7,656.0	D Chalk				
7,893.2	7,711.0	Fort Hayes				
7,986.7	7,733.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
600.0	600.0	0.0	0.0	KOP @ 600' MD	
897.7	897.5	-0.9	7.7	EOB; 2.98°	
7,172.4	7,163.8	-39.0	331.3	Start 10° Build/Turn	
8,076.4	7,740.0	534.3	351.0	LP @ 7740' TVD; 90°	
14,076.4	7,740.0	6,533.4	246.2	Start 1° Turn	
14,338.4	7,740.0	6,795.2	235.7	EOT; 356.38°	
14,632.3	7,740.0	7,088.5	217.1	TD at 14632.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2C-7H-E168

Hz

Plan #4

Anticollision Report

10 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Reference	Plan #4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,280.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/10/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,632.2	Plan #4 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,118.4	7,976.0	853.5	774.1	10.742	CC, ES
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,300.0	7,978.1	872.6	790.1	10.567	SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,308.8	7,706.7	607.3	524.8	7.355	CC, ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,400.0	7,709.0	614.2	530.0	7.298	SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,777.5	7,840.1	284.8	190.7	3.028	CC, ES
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,800.0	7,840.1	285.7	191.2	3.025	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,451.8	7,891.3	342.1	269.3	4.699	CC, ES
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,500.0	7,892.0	345.5	271.9	4.692	SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,893.7	7,696.9	998.9	906.3	10.791	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,900.0	7,697.2	998.9	906.2	10.779	ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,100.0	7,705.8	1,019.9	923.8	10.607	SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,372.7	7,850.5	335.6	223.4	2.992	CC, ES
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,400.0	7,850.5	336.7	224.1	2.990	SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,817.1	7,917.1	246.9	176.5	3.506	CC, ES, SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,828.7	7,693.0	450.7	324.6	3.575	CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,077.0	7,697.0	191.8	78.8	1.697	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,436.8	7,688.0	158.4	22.2	1.163	Level 2, CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,100.2	7,694.0	1,130.1	1,016.7	9.965	CC, ES
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,300.0	7,694.0	1,147.6	1,030.7	9.819	SF
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,812.9	7,817.0	1,777.8	1,646.8	13.573	CC, ES
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	14,200.0	7,825.4	1,820.7	1,683.0	13.224	SF
Thomas 7-12 (Existing) - Existing - NO SURVEYS	1,030.9	1,018.6	987.9	984.3	275.938	CC
Thomas 7-12 (Existing) - Existing - NO SURVEYS	2,400.0	2,385.8	990.4	981.8	115.093	ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	7,200.0	7,179.4	1,039.1	1,012.9	39.596	SF
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,205.4	7,954.8	423.5	376.2	8.952	CC, ES
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,300.0	7,961.5	433.9	385.1	8.886	SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	600.0	688.0	173.8	171.6	78.093	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	7,700.0	7,708.9	467.6	440.3	17.146	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,143.4	7,770.2	819.8	773.8	17.817	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,400.0	7,777.0	859.0	808.8	17.114	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,697.4	7,900.4	1,012.9	970.4	23.841	CC
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,700.0	7,902.0	1,012.9	970.4	23.834	ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,950.0	8,006.3	1,041.9	997.4	23.447	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,254.8	7,688.4	579.9	532.7	12.285	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,690.2	7,853.9	1,393.5	1,335.3	23.951	CC
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,700.0	7,854.1	1,393.5	1,335.2	23.884	ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	10,300.0	7,868.4	1,521.0	1,452.5	22.216	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,359.2	7,773.2	348.0	313.8	10.181	CC, ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,400.0	7,772.6	350.3	315.6	10.088	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	200.0	200.0	20.2	19.5	30.871	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	14,632.3	14,682.3	740.2	487.0	2.924	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	300.0	300.0	10.1	9.1	10.057	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	14,632.3	14,422.4	437.0	224.3	2.055	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	500.0	500.0	9.8	8.1	5.762	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	14,632.3	14,437.3	403.7	199.1	1.973	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	400.0	400.0	19.9	18.5	14.710	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,632.3	14,668.4	674.4	422.8	2.681	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	300.0	300.0	29.9	28.9	29.895	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	14,632.3	14,246.8	1,049.0	805.1	4.301	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	233.3	233.3	39.7	39.0	51.675	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	300.0	299.7	40.0	39.0	39.907	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	14,632.3	14,829.4	1,375.0	1,123.8	5.473	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	200.0	200.0	49.8	49.2	76.323	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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	14,632.3	14,500.0	1,690.1	1,445.5	6.910	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	200.0	200.0	538.2	537.6	824.520	CC
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	600.0	599.3	538.4	536.4	262.866	ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	8,300.0	7,535.0	983.5	949.9	29.268	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	300.0	300.0	80.0	79.0	79.901	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	7,550.0	7,712.9	545.1	518.3	20.376	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	701.0	702.4	68.1	65.7	28.174	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	7,757.8	7,782.3	154.8	126.5	5.475	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	738.2	739.7	58.8	56.3	23.177	CC
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	800.0	801.8	59.0	56.3	21.398	ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	7,532.3	7,806.6	112.9	86.0	4.204	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	600.0	600.0	50.1	48.0	24.450	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	2,100.0	2,102.2	83.0	75.1	10.512	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	955.9	958.0	23.1	19.7	6.709	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	1,000.0	1,002.1	23.3	19.7	6.390	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	1,100.0	1,101.7	25.7	21.6	6.250	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	775.6	776.7	11.2	8.4	4.015	CC, ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	800.0	801.1	11.4	8.5	3.928	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	14.94	3,634.0	969.6	3,761.2				
100.0	100.0	70.9	70.9	0.2	0.1	14.94	3,634.2	969.5	3,761.3	3,761.1	0.25	N/A	
200.0	200.0	157.2	157.2	0.3	0.3	14.93	3,634.8	969.2	3,761.9	3,761.3	0.58	6,502.350	
300.0	300.0	226.0	226.0	0.5	0.4	14.92	3,635.6	968.7	3,762.9	3,762.1	0.87	4,304.975	
400.0	400.0	320.6	320.6	0.7	0.5	14.90	3,637.5	967.8	3,764.5	3,763.3	1.22	3,095.566	
500.0	500.0	409.6	409.5	0.8	0.7	14.86	3,639.7	965.5	3,766.3	3,764.8	1.55	2,430.919	
600.0	600.0	518.1	517.8	1.0	0.9	14.76	3,643.4	960.1	3,768.4	3,766.5	1.92	1,963.674	
700.0	700.0	754.7	753.0	1.2	1.5	-82.38	3,649.4	934.9	3,767.7	3,765.1	2.68	1,403.912	
800.0	800.0	847.3	844.7	1.4	1.7	-82.62	3,650.7	923.1	3,765.6	3,762.5	3.11	1,212.254	
897.7	897.5	919.7	916.5	1.6	1.9	-82.83	3,652.1	913.6	3,763.8	3,760.4	3.48	1,080.148	
900.0	899.9	922.8	919.6	1.6	1.9	-82.84	3,652.2	913.2	3,763.8	3,760.3	3.50	1,076.041	
1,000.0	999.7	1,186.8	1,180.1	1.7	2.8	-83.67	3,654.8	871.3	3,760.8	3,756.3	4.52	832.167	
1,100.0	1,099.6	1,295.5	1,287.0	1.9	3.2	-84.05	3,653.5	851.0	3,754.9	3,749.8	5.09	737.528	
1,200.0	1,199.5	1,414.2	1,403.2	2.1	3.6	-84.50	3,652.3	826.8	3,748.8	3,743.1	5.74	653.372	
1,300.0	1,299.3	1,566.7	1,551.2	2.3	4.3	-85.16	3,650.5	790.2	3,742.0	3,735.4	6.62	565.541	
1,400.0	1,399.2	1,786.4	1,760.6	2.5	5.6	-86.31	3,645.3	724.0	3,733.1	3,725.1	8.02	465.699	
1,500.0	1,499.1	1,883.7	1,851.9	2.7	6.2	-86.88	3,642.0	690.7	3,722.7	3,713.9	8.81	422.322	
1,600.0	1,598.9	1,971.9	1,934.4	2.9	6.7	-87.42	3,639.4	659.4	3,712.9	3,703.3	9.57	387.853	
1,700.0	1,698.8	2,084.0	2,039.0	3.1	7.5	-88.11	3,635.6	619.5	3,703.0	3,692.5	10.50	352.710	
1,800.0	1,798.6	2,161.3	2,111.2	3.3	8.0	-88.59	3,633.0	591.8	3,693.5	3,682.3	11.20	329.776	
1,900.0	1,898.5	2,248.6	2,192.7	3.5	8.6	-89.12	3,630.4	560.8	3,684.9	3,672.9	11.97	307.932	
2,000.0	1,998.4	2,330.0	2,268.8	3.7	9.1	-89.62	3,627.8	532.1	3,676.6	3,663.9	12.69	289.657	
2,100.0	2,098.2	2,418.2	2,351.6	3.9	9.7	-90.16	3,625.5	501.4	3,669.1	3,655.7	13.47	272.477	
2,200.0	2,198.1	2,519.4	2,446.3	4.1	10.3	-90.78	3,622.4	466.2	3,661.8	3,647.5	14.32	255.626	
2,300.0	2,298.0	2,634.9	2,554.5	4.2	11.1	-91.50	3,618.6	425.7	3,654.7	3,639.4	15.29	239.037	
2,400.0	2,397.8	2,739.8	2,652.7	4.4	11.8	-92.14	3,614.3	389.2	3,647.2	3,631.0	16.17	225.525	
2,500.0	2,497.7	2,798.0	2,707.3	4.6	12.2	-92.50	3,612.1	369.3	3,640.5	3,623.7	16.75	217.383	
2,600.0	2,597.6	2,857.7	2,763.4	4.8	12.6	-92.86	3,610.3	348.9	3,635.0	3,617.7	17.33	209.733	
2,700.0	2,697.4	2,928.5	2,830.1	5.0	13.0	-93.29	3,609.0	325.0	3,630.8	3,612.9	17.98	201.955	
2,800.0	2,797.3	3,084.2	2,976.5	5.2	14.0	-94.24	3,604.7	272.2	3,626.3	3,607.1	19.21	188.816	
2,900.0	2,897.2	3,141.0	3,029.6	5.4	14.4	-94.60	3,603.0	252.1	3,621.9	3,602.1	19.79	183.041	
3,000.0	2,997.0	3,211.1	3,095.0	5.6	14.9	-95.05	3,601.5	227.2	3,618.7	3,598.2	20.47	176.817	
3,100.0	3,096.9	3,296.1	3,174.5	5.8	15.5	-95.59	3,600.1	197.1	3,616.4	3,595.1	21.23	170.328	
3,200.0	3,196.8	3,388.1	3,260.8	6.0	16.1	-96.16	3,598.5	165.1	3,614.5	3,592.4	22.04	163.974	
3,300.0	3,296.6	3,490.8	3,357.1	6.2	16.7	-96.81	3,596.6	129.4	3,612.9	3,590.0	22.92	157.612	
3,400.0	3,396.5	3,646.4	3,502.9	6.4	17.8	-97.78	3,592.2	75.3	3,610.9	3,586.8	24.16	149.448	
3,500.0	3,496.4	3,731.6	3,582.6	6.6	18.3	-98.32	3,589.0	45.4	3,608.5	3,583.6	24.93	144.745	
3,600.0	3,596.2	3,827.0	3,672.0	6.8	19.0	-98.93	3,585.5	12.2	3,606.5	3,580.7	25.76	140.024	
3,700.0	3,696.1	3,884.4	3,725.8	7.0	19.4	-99.28	3,583.6	-7.6	3,605.3	3,579.0	26.33	136.912	
3,732.4	3,728.5	3,913.0	3,752.6	7.1	19.6	-99.46	3,582.9	-17.5	3,605.3	3,578.7	26.59	135.606	
3,800.0	3,796.0	3,962.2	3,798.7	7.2	19.9	-99.78	3,581.8	-34.7	3,605.5	3,578.4	27.05	133.299	
3,900.0	3,895.8	4,081.3	3,910.1	7.4	20.7	-100.53	3,578.5	-76.6	3,605.7	3,577.7	28.04	128.579	
4,000.0	3,995.7	4,156.5	3,980.3	7.6	21.2	-101.02	3,576.3	-103.6	3,606.3	3,577.5	28.76	125.394	
4,100.0	4,095.5	4,243.8	4,061.4	7.8	21.8	-101.60	3,573.9	-135.9	3,607.6	3,578.0	29.58	121.972	
4,200.0	4,195.4	4,332.9	4,144.0	8.0	22.5	-102.20	3,571.5	-169.2	3,609.4	3,579.0	30.39	118.754	
4,300.0	4,295.3	4,482.4	4,283.5	8.2	23.5	-103.16	3,566.2	-222.8	3,610.6	3,579.1	31.58	114.327	
4,400.0	4,395.1	4,557.1	4,353.3	8.4	24.0	-103.64	3,563.2	-249.1	3,612.1	3,579.8	32.27	111.926	
4,500.0	4,495.0	4,624.9	4,416.6	8.6	24.5	-104.07	3,561.0	-273.2	3,614.5	3,581.6	32.92	109.814	
4,600.0	4,594.9	4,704.0	4,490.6	8.8	25.0	-104.57	3,558.8	-301.1	3,618.0	3,584.3	33.62	107.619	
4,700.0	4,694.7	4,792.8	4,574.2	8.9	25.5	-105.11	3,556.7	-331.1	3,621.9	3,587.5	34.35	105.438	
4,800.0	4,794.6	4,868.1	4,645.3	9.1	26.0	-105.56	3,555.3	-355.7	3,626.6	3,591.6	34.99	103.654	
4,900.0	4,894.5	4,969.5	4,741.8	9.3	26.6	-106.12	3,553.9	-386.9	3,631.8	3,596.0	35.72	101.660	

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
5,000.0	4,994.3	5,071.7	4,839.9	9.5	27.1	-106.65	3,552.6	-415.5	3,637.0	3,600.6	36.41	99.879	
5,100.0	5,094.2	5,217.1	4,980.8	9.7	27.8	-107.32	3,550.9	-451.3	3,641.9	3,604.7	37.22	97.835	
5,200.0	5,194.1	5,314.4	5,075.8	9.9	28.1	-107.72	3,549.6	-472.1	3,646.2	3,608.4	37.78	96.521	
5,300.0	5,293.9	5,404.8	5,164.5	10.1	28.5	-108.05	3,548.7	-489.3	3,650.7	3,612.4	38.27	95.397	
5,400.0	5,393.8	5,513.4	5,271.6	10.3	28.8	-108.42	3,548.6	-507.5	3,655.6	3,616.8	38.77	94.290	
5,500.0	5,493.7	5,620.1	5,377.3	10.5	29.1	-108.72	3,548.4	-522.0	3,660.0	3,620.7	39.22	93.307	
5,600.0	5,593.5	5,763.9	5,520.3	10.7	29.4	-109.06	3,548.1	-536.8	3,663.6	3,623.9	39.68	92.330	
5,700.0	5,693.4	5,893.6	5,649.7	10.9	29.6	-109.30	3,547.7	-546.0	3,666.6	3,626.5	40.06	91.521	
5,800.0	5,793.3	6,018.2	5,774.2	11.1	29.7	-109.48	3,546.8	-551.5	3,668.5	3,628.1	40.39	90.825	
5,900.0	5,893.1	6,128.1	5,884.0	11.3	29.8	-109.62	3,546.1	-554.7	3,670.3	3,629.6	40.68	90.221	
6,000.0	5,993.0	6,240.1	5,996.0	11.5	29.9	-109.74	3,545.1	-557.0	3,671.6	3,630.6	40.97	89.623	
6,100.0	6,092.8	6,310.2	6,066.1	11.7	30.0	-109.81	3,544.8	-558.0	3,673.2	3,632.0	41.21	89.134	
6,200.0	6,192.7	6,399.0	6,154.9	11.9	30.1	-109.89	3,545.2	-559.1	3,675.7	3,634.3	41.47	88.645	
6,300.0	6,292.6	6,463.8	6,219.7	12.1	30.1	-109.95	3,546.0	-559.8	3,678.8	3,637.1	41.70	88.223	
6,400.0	6,392.4	6,552.3	6,308.2	12.3	30.2	-110.02	3,547.4	-560.5	3,682.3	3,640.4	41.95	87.784	
6,500.0	6,492.3	6,656.7	6,412.5	12.5	30.3	-110.10	3,549.2	-561.1	3,685.9	3,643.7	42.21	87.327	
6,600.0	6,592.2	6,766.9	6,522.7	12.7	30.3	-110.19	3,550.9	-561.7	3,689.3	3,646.8	42.47	86.865	
6,700.0	6,692.0	6,884.1	6,639.9	12.9	30.4	-110.28	3,552.3	-562.1	3,692.3	3,649.6	42.74	86.398	
6,800.0	6,791.9	6,991.0	6,746.8	13.1	30.5	-110.36	3,553.2	-562.3	3,695.0	3,652.0	43.00	85.936	
6,900.0	6,891.8	7,085.0	6,840.8	13.3	30.6	-110.43	3,553.9	-562.4	3,697.6	3,654.3	43.25	85.492	
7,000.0	6,991.6	7,171.4	6,927.2	13.5	30.6	-110.50	3,554.7	-562.6	3,700.4	3,656.9	43.50	85.060	
7,100.0	7,091.5	7,256.0	7,011.8	13.7	30.7	-110.56	3,556.0	-563.0	3,703.8	3,660.1	43.75	84.650	
7,172.4	7,163.8	7,353.6	7,109.4	13.8	30.8	-110.63	3,557.5	-563.1	3,706.2	3,662.3	43.93	84.358	
7,200.0	7,191.4	7,394.9	7,150.7	13.9	30.8	-64.32	3,557.9	-562.7	3,706.3	3,662.3	43.98	84.264	
7,250.0	7,241.1	7,454.2	7,209.9	14.0	30.8	-34.98	3,558.4	-561.8	3,703.0	3,659.1	43.85	84.454	
7,300.0	7,290.3	7,500.8	7,256.5	14.0	30.8	-26.83	3,558.8	-561.1	3,695.4	3,652.0	43.42	85.112	
7,350.0	7,338.5	7,546.5	7,302.3	14.1	30.8	-23.44	3,559.3	-560.2	3,683.8	3,641.1	42.72	86.240	
7,400.0	7,385.5	7,591.2	7,346.9	14.2	30.9	-21.83	3,559.8	-559.4	3,668.1	3,626.3	41.75	87.860	
7,450.0	7,430.8	7,652.1	7,407.8	14.3	30.9	-21.19	3,560.3	-558.3	3,648.4	3,607.8	40.56	89.958	
7,500.0	7,474.1	7,713.8	7,469.6	14.5	30.9	-21.19	3,560.5	-557.5	3,624.6	3,585.5	39.14	92.603	
7,550.0	7,515.0	7,771.0	7,526.7	14.6	31.0	-21.69	3,560.3	-557.1	3,597.1	3,559.6	37.53	95.840	
7,600.0	7,553.3	7,800.2	7,555.9	14.8	31.0	-22.53	3,560.1	-556.9	3,566.2	3,530.4	35.75	99.743	
7,650.0	7,588.7	7,826.9	7,582.6	15.0	31.0	-23.83	3,560.0	-556.7	3,532.3	3,498.4	33.88	104.270	
7,700.0	7,620.9	7,851.3	7,607.0	15.2	31.0	-25.66	3,560.0	-556.6	3,495.5	3,463.5	31.97	109.329	
7,750.0	7,649.6	7,873.2	7,628.9	15.5	31.0	-28.16	3,560.1	-556.4	3,456.3	3,426.1	30.15	114.649	
7,800.0	7,674.7	7,892.5	7,648.2	15.8	31.1	-31.55	3,560.2	-556.2	3,414.7	3,386.2	28.55	119.618	
7,850.0	7,695.9	7,908.9	7,664.6	16.1	31.1	-36.17	3,560.3	-556.1	3,371.3	3,343.9	27.39	123.096	
7,900.0	7,713.1	7,942.0	7,697.7	16.5	31.1	-43.07	3,560.6	-555.8	3,326.3	3,299.3	27.04	123.023	
7,950.0	7,726.1	7,942.0	7,697.7	16.9	31.1	-51.72	3,560.6	-555.8	3,279.9	3,252.3	27.54	119.087	
8,000.0	7,734.9	7,942.0	7,697.7	17.4	31.1	-63.61	3,560.6	-555.8	3,232.6	3,203.6	28.94	111.680	
8,050.0	7,739.4	7,942.0	7,697.7	17.9	31.1	-79.04	3,560.6	-555.8	3,184.7	3,154.2	30.46	104.552	
8,076.4	7,740.0	7,942.0	7,697.7	18.2	31.1	-88.24	3,560.6	-555.8	3,159.3	3,128.4	30.84	102.442	
8,100.0	7,740.0	7,942.0	7,697.7	18.4	31.1	-88.24	3,560.6	-555.8	3,136.6	3,105.5	31.11	100.824	
8,200.0	7,740.0	7,942.0	7,697.7	19.6	31.1	-88.24	3,560.6	-555.8	3,040.5	3,008.2	32.31	94.099	
8,300.0	7,740.0	7,942.0	7,697.7	20.8	31.1	-88.24	3,560.6	-555.8	2,944.6	2,911.0	33.60	87.648	
8,400.0	7,740.0	7,942.0	7,697.7	22.1	31.1	-88.24	3,560.6	-555.8	2,849.1	2,814.1	34.95	81.523	
8,500.0	7,740.0	7,942.0	7,697.7	23.4	31.1	-88.24	3,560.6	-555.8	2,753.8	2,717.5	36.36	75.747	
8,600.0	7,740.0	7,942.0	7,697.7	24.8	31.1	-88.24	3,560.6	-555.8	2,658.9	2,621.1	37.81	70.327	
8,700.0	7,740.0	7,942.0	7,697.7	26.3	31.1	-88.24	3,560.6	-555.8	2,564.5	2,525.2	39.30	65.254	
8,800.0	7,740.0	7,951.6	7,707.3	27.8	31.1	-88.88	3,560.7	-555.7	2,470.4	2,429.5	40.83	60.504	
8,900.0	7,740.0	7,952.5	7,708.2	29.3	31.1	-88.94	3,560.7	-555.7	2,376.8	2,334.4	42.38	56.083	
9,000.0	7,740.0	7,953.5	7,709.2	30.8	31.1	-89.01	3,560.7	-555.7	2,283.7	2,239.8	43.95	51.960	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		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	
9,100.0	7,740.0	7,954.5	7,710.2	32.4	31.1	-89.07	3,560.7	-555.7	2,191.3	2,145.8	45.54	48.115
9,200.0	7,740.0	7,955.4	7,711.2	33.9	31.1	-89.14	3,560.7	-555.7	2,099.6	2,052.4	47.15	44.529
9,300.0	7,740.0	7,956.4	7,712.2	35.5	31.1	-89.21	3,560.7	-555.7	2,008.6	1,959.9	48.77	41.183
9,400.0	7,740.0	7,957.4	7,713.2	37.2	31.1	-89.27	3,560.7	-555.7	1,918.6	1,868.2	50.41	38.062
9,500.0	7,740.0	7,958.5	7,714.2	38.8	31.1	-89.34	3,560.8	-555.7	1,829.6	1,777.5	52.05	35.149
9,600.0	7,740.0	7,959.5	7,715.2	40.4	31.1	-89.41	3,560.8	-555.6	1,741.7	1,688.0	53.71	32.431
9,700.0	7,740.0	7,960.5	7,716.2	42.0	31.1	-89.48	3,560.8	-555.6	1,655.3	1,599.9	55.37	29.896
9,800.0	7,740.0	7,961.5	7,717.3	43.7	31.1	-89.55	3,560.8	-555.6	1,570.5	1,513.4	57.04	27.534
9,900.0	7,740.0	7,962.6	7,718.3	45.4	31.1	-89.62	3,560.8	-555.6	1,487.5	1,428.8	58.71	25.335
10,000.0	7,740.0	7,963.6	7,719.4	47.0	31.1	-89.69	3,560.8	-555.6	1,406.8	1,346.4	60.40	23.293
10,100.0	7,740.0	7,964.7	7,720.4	48.7	31.1	-89.76	3,560.8	-555.6	1,328.7	1,266.6	62.08	21.402
10,200.0	7,740.0	7,965.8	7,721.5	50.4	31.1	-89.83	3,560.8	-555.6	1,253.7	1,189.9	63.77	19.659
10,300.0	7,740.0	7,966.8	7,722.6	52.1	31.1	-89.90	3,560.8	-555.6	1,182.4	1,117.0	65.47	18.061
10,400.0	7,740.0	7,967.9	7,723.6	53.7	31.1	-89.98	3,560.9	-555.6	1,115.6	1,048.4	67.17	16.609
10,500.0	7,740.0	7,969.0	7,724.7	55.4	31.1	-90.05	3,560.9	-555.6	1,054.0	985.1	68.87	15.303
10,600.0	7,740.0	7,970.1	7,725.8	57.1	31.1	-90.12	3,560.9	-555.5	998.6	928.0	70.58	14.149
10,700.0	7,740.0	7,971.2	7,727.0	58.8	31.1	-90.20	3,560.9	-555.5	950.5	878.3	72.29	13.150
10,800.0	7,740.0	7,972.4	7,728.1	60.5	31.1	-90.27	3,560.9	-555.5	911.0	837.0	74.00	12.311
10,900.0	7,740.0	7,973.5	7,729.2	62.2	31.1	-90.35	3,560.9	-555.5	881.0	805.3	75.71	11.637
11,000.0	7,740.0	7,974.6	7,730.4	63.9	31.1	-90.43	3,560.9	-555.5	861.7	784.3	77.42	11.130
11,100.0	7,740.0	7,975.8	7,731.5	65.7	31.1	-90.50	3,561.0	-555.5	853.7	774.6	79.14	10.787
11,118.4	7,740.0	7,976.0	7,731.7	66.0	31.1	-90.52	3,561.0	-555.5	853.5	774.1	79.46	10.742 CC, ES
11,200.0	7,740.0	7,977.0	7,732.7	67.4	31.1	-90.58	3,561.0	-555.5	857.4	776.6	80.86	10.604
11,300.0	7,740.0	7,978.1	7,733.9	69.1	31.1	-90.66	3,561.0	-555.5	872.6	790.1	82.58	10.567 SF
11,400.0	7,740.0	7,979.3	7,735.0	70.8	31.1	-90.74	3,561.0	-555.5	898.8	814.5	84.30	10.662
11,500.0	7,740.0	7,980.5	7,736.2	72.5	31.1	-90.82	3,561.0	-555.5	934.9	848.9	86.02	10.868
11,600.0	7,740.0	7,981.7	7,737.4	74.2	31.1	-90.90	3,561.0	-555.4	980.0	892.3	87.75	11.169
11,700.0	7,740.0	7,982.9	7,738.7	76.0	31.1	-90.98	3,561.0	-555.4	1,032.8	943.4	89.47	11.543
11,800.0	7,740.0	7,984.2	7,739.9	77.7	31.1	-91.07	3,561.1	-555.4	1,092.3	1,001.1	91.20	11.977
11,900.0	7,740.0	7,985.4	7,741.1	79.4	31.1	-91.15	3,561.1	-555.4	1,157.3	1,064.4	92.93	12.454
12,000.0	7,740.0	7,986.6	7,742.4	81.1	31.1	-91.23	3,561.1	-555.4	1,227.1	1,132.4	94.65	12.964
12,100.0	7,740.0	7,987.9	7,743.6	82.9	31.1	-91.32	3,561.1	-555.4	1,300.8	1,204.4	96.38	13.496
12,200.0	7,740.0	7,989.2	7,744.9	84.6	31.1	-91.40	3,561.1	-555.4	1,377.8	1,279.7	98.11	14.043
12,300.0	7,740.0	7,990.5	7,746.2	86.3	31.1	-91.49	3,561.1	-555.4	1,457.6	1,357.7	99.84	14.599
12,400.0	7,740.0	7,991.7	7,747.5	88.0	31.1	-91.58	3,561.1	-555.4	1,539.7	1,438.2	101.57	15.160
12,500.0	7,740.0	7,993.1	7,748.8	89.8	31.1	-91.66	3,561.2	-555.3	1,623.9	1,520.6	103.30	15.720
12,600.0	7,740.0	7,994.4	7,750.1	91.5	31.1	-91.75	3,561.2	-555.3	1,709.8	1,604.8	105.03	16.279
12,700.0	7,740.0	7,995.7	7,751.4	93.2	31.1	-91.84	3,561.2	-555.3	1,797.1	1,690.4	106.76	16.833
12,800.0	7,740.0	7,997.0	7,752.8	95.0	31.1	-91.93	3,561.2	-555.3	1,885.7	1,777.2	108.49	17.381
12,900.0	7,740.0	7,998.4	7,754.1	96.7	31.1	-92.02	3,561.2	-555.3	1,975.4	1,865.2	110.22	17.922
13,000.0	7,740.0	7,999.8	7,755.5	98.4	31.1	-92.11	3,561.3	-555.3	2,066.0	1,954.1	111.95	18.454
13,100.0	7,740.0	8,001.2	7,756.9	100.2	31.1	-92.21	3,561.3	-555.3	2,157.5	2,043.8	113.68	18.978
13,200.0	7,740.0	8,002.5	7,758.3	101.9	31.1	-92.30	3,561.3	-555.3	2,249.7	2,134.3	115.42	19.492
13,300.0	7,740.0	8,004.0	7,759.7	103.6	31.1	-92.39	3,561.3	-555.3	2,342.5	2,225.3	117.15	19.996
13,400.0	7,740.0	8,005.4	7,761.1	105.4	31.1	-92.49	3,561.3	-555.2	2,435.9	2,317.0	118.88	20.491
13,500.0	7,740.0	8,006.8	7,762.5	107.1	31.1	-92.59	3,561.3	-555.2	2,529.8	2,409.2	120.61	20.975
13,600.0	7,740.0	8,008.3	7,764.0	108.9	31.1	-92.68	3,561.4	-555.2	2,624.1	2,501.8	122.34	21.450
13,700.0	7,740.0	8,009.7	7,765.4	110.6	31.1	-92.78	3,561.4	-555.2	2,718.9	2,594.8	124.07	21.914
13,800.0	7,740.0	8,011.2	7,766.9	112.3	31.1	-92.88	3,561.4	-555.2	2,814.0	2,688.2	125.80	22.369
13,900.0	7,740.0	8,012.7	7,768.4	114.1	31.1	-92.98	3,561.4	-555.2	2,909.4	2,781.9	127.53	22.814
14,000.0	7,740.0	8,014.2	7,769.9	115.8	31.1	-93.08	3,561.4	-555.2	3,005.2	2,875.9	129.26	23.249
14,076.4	7,740.0	8,015.4	7,771.1	117.1	31.1	-93.16	3,561.5	-555.2	3,078.5	2,947.9	130.58	23.576

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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					
14,100.0	7,740.0	8,015.7	7,771.4	117.6	31.1	-93.14	3,561.5	-555.2	3,101.1	2,970.2	130.96	23.680					
14,200.0	7,740.0	8,017.2	7,773.0	119.3	31.1	-93.05	3,561.5	-555.1	3,197.0	3,064.5	132.56	24.117					
14,300.0	7,740.0	8,018.8	7,774.5	121.0	31.1	-92.97	3,561.5	-555.1	3,292.7	3,158.5	134.15	24.544					
14,338.4	7,740.0	8,019.3	7,775.1	121.7	31.1	-92.94	3,561.5	-555.1	3,329.4	3,194.6	134.76	24.706					
14,400.0	7,740.0	8,020.3	7,776.0	122.8	31.1	-93.00	3,561.5	-555.1	3,388.2	3,252.4	135.83	24.945					
14,500.0	7,740.0	8,021.8	7,777.5	124.5	31.1	-93.08	3,561.5	-555.1	3,483.9	3,346.4	137.56	25.327					
14,600.0	7,740.0	8,023.4	7,779.1	126.2	31.1	-93.17	3,561.6	-555.1	3,579.9	3,440.6	139.29	25.701					
14,632.3	7,740.0	8,023.9	7,779.6	126.8	31.1	-93.20	3,561.6	-555.1	3,610.9	3,471.0	139.85	25.820					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	14.90	3,647.9	970.8	3,775.0					
100.0	100.0	72.4	72.4	0.2	0.1	14.90	3,647.8	970.9	3,774.8	3,774.5	0.28	N/A		
171.6	171.6	140.6	140.6	0.3	0.2	14.91	3,647.7	971.0	3,774.8	3,774.2	0.52	7,228.042		
200.0	200.0	165.9	165.9	0.3	0.3	14.91	3,647.7	971.0	3,774.8	3,774.2	0.62	6,127.818		
300.0	300.0	262.2	262.2	0.5	0.5	14.90	3,648.0	970.6	3,774.9	3,774.0	0.96	3,938.061		
400.0	400.0	374.9	374.9	0.7	0.7	14.88	3,648.5	969.2	3,775.0	3,773.7	1.33	2,838.815		
473.9	473.9	442.5	442.5	0.8	0.8	14.86	3,648.7	968.1	3,774.9	3,773.3	1.58	2,393.857		
500.0	500.0	463.4	463.4	0.8	0.8	14.85	3,648.8	967.7	3,774.9	3,773.3	1.66	2,275.476		
600.0	600.0	536.1	536.0	1.0	0.9	14.83	3,649.5	966.4	3,775.4	3,773.4	1.96	1,925.593		
700.0	700.0	600.0	599.9	1.2	1.1	-81.90	3,650.5	965.5	3,776.6	3,774.3	2.25	1,676.399		
800.0	800.0	667.7	667.6	1.4	1.2	-81.93	3,652.3	964.7	3,778.4	3,775.9	2.55	1,481.280		
897.7	897.5	734.7	734.6	1.6	1.3	-81.97	3,654.8	963.5	3,780.9	3,778.0	2.85	1,327.170		
900.0	899.9	736.4	736.3	1.6	1.3	-81.98	3,654.8	963.5	3,781.0	3,778.1	2.86	1,323.778		
1,000.0	999.7	812.9	812.7	1.7	1.4	-82.07	3,658.3	962.1	3,784.1	3,780.9	3.18	1,190.141		
1,100.0	1,099.6	921.7	921.3	1.9	1.7	-82.21	3,663.4	959.7	3,787.4	3,783.8	3.56	1,062.470		
1,200.0	1,199.5	1,023.6	1,023.1	2.1	1.8	-82.34	3,668.1	957.4	3,790.6	3,786.6	3.94	962.388		
1,300.0	1,299.3	1,128.9	1,128.3	2.3	2.0	-82.47	3,672.6	955.4	3,793.6	3,789.3	4.32	878.432		
1,400.0	1,399.2	1,227.2	1,226.4	2.5	2.2	-82.58	3,676.8	953.8	3,796.7	3,792.0	4.69	810.125		
1,500.0	1,499.1	1,342.1	1,341.2	2.7	2.4	-82.71	3,681.4	952.0	3,799.6	3,794.5	5.08	747.248		
1,600.0	1,598.9	1,449.1	1,448.1	2.9	2.6	-82.84	3,685.4	950.2	3,802.1	3,796.6	5.47	695.000		
1,700.0	1,698.8	1,541.7	1,540.7	3.1	2.8	-82.95	3,689.0	948.2	3,804.7	3,798.9	5.83	652.547		
1,800.0	1,798.6	1,639.8	1,638.7	3.3	3.0	-83.06	3,692.7	946.9	3,807.5	3,801.3	6.20	614.316		
1,900.0	1,898.5	1,745.1	1,743.9	3.5	3.2	-83.17	3,696.5	945.9	3,810.1	3,803.5	6.58	579.190		
2,000.0	1,998.4	1,838.2	1,837.0	3.7	3.4	-83.27	3,699.9	944.8	3,812.9	3,805.9	6.94	549.625		
2,100.0	2,098.2	1,943.7	1,942.4	3.9	3.6	-83.37	3,703.8	944.3	3,815.7	3,808.4	7.32	521.617		
2,200.0	2,198.1	2,066.6	2,065.2	4.1	3.8	-83.48	3,707.5	944.4	3,818.0	3,810.3	7.72	494.430		
2,300.0	2,298.0	2,210.7	2,209.3	4.2	4.0	-83.60	3,710.6	944.6	3,819.6	3,811.4	8.16	467.800		
2,400.0	2,397.8	2,300.0	2,298.6	4.4	4.2	-83.67	3,712.1	944.7	3,820.7	3,812.2	8.51	448.758		
2,500.0	2,497.7	2,440.6	2,439.2	4.6	4.4	-83.77	3,713.7	945.5	3,821.3	3,812.4	8.95	427.042		
2,600.0	2,597.6	2,534.9	2,533.5	4.8	4.6	-83.84	3,714.2	946.2	3,821.5	3,812.2	9.31	410.686		
2,700.0	2,697.4	2,623.3	2,621.9	5.0	4.7	-83.91	3,715.2	946.3	3,822.0	3,812.4	9.65	395.903		
2,800.0	2,797.3	2,732.4	2,731.0	5.2	4.9	-84.00	3,716.5	946.1	3,822.6	3,812.6	10.04	380.756		
2,900.0	2,897.2	2,874.2	2,872.8	5.4	5.2	-84.14	3,717.4	944.4	3,822.4	3,812.0	10.48	364.566		
3,000.0	2,997.0	2,988.3	2,986.8	5.6	5.4	-84.25	3,717.3	942.6	3,821.5	3,810.6	10.88	351.187		
3,100.0	3,096.9	3,071.7	3,070.3	5.8	5.5	-84.33	3,717.3	941.4	3,820.6	3,809.4	11.22	340.412		
3,200.0	3,196.8	3,168.0	3,166.6	6.0	5.7	-84.42	3,717.5	940.5	3,820.1	3,808.5	11.59	329.659		
3,300.0	3,296.6	3,275.0	3,273.5	6.2	5.9	-84.53	3,717.6	939.1	3,819.5	3,807.5	11.97	319.034		
3,400.0	3,396.5	3,401.9	3,400.4	6.4	6.1	-84.65	3,717.4	937.1	3,818.5	3,806.1	12.39	308.149		
3,500.0	3,496.4	3,500.0	3,498.5	6.6	6.3	-84.75	3,716.8	935.8	3,817.1	3,804.4	12.76	299.170		
3,600.0	3,596.2	3,586.3	3,584.8	6.8	6.4	-84.83	3,716.4	934.9	3,816.0	3,802.9	13.11	291.149		
3,700.0	3,696.1	3,661.5	3,660.0	7.0	6.5	-84.90	3,716.4	933.9	3,815.3	3,801.8	13.44	283.971		
3,800.0	3,796.0	3,770.9	3,769.4	7.2	6.7	-85.02	3,717.1	931.8	3,815.1	3,801.3	13.83	275.924		
3,900.0	3,895.8	3,867.7	3,866.1	7.4	6.9	-85.13	3,717.4	929.5	3,814.4	3,800.2	14.20	268.715		
4,000.0	3,995.7	3,959.1	3,957.5	7.6	7.1	-85.23	3,717.9	927.5	3,814.1	3,799.5	14.55	262.050		
4,100.0	4,095.5	4,066.7	4,065.1	7.8	7.3	-85.36	3,718.7	924.5	3,813.8	3,798.9	14.94	255.201		
4,200.0	4,195.4	4,161.7	4,160.0	8.0	7.4	-85.47	3,719.1	921.9	3,813.4	3,798.1	15.31	249.059		
4,291.4	4,286.7	4,242.1	4,240.4	8.1	7.6	-85.57	3,719.8	919.9	3,813.3	3,797.6	15.63	243.912		
4,300.0	4,295.3	4,249.8	4,248.1	8.2	7.6	-85.58	3,719.8	919.7	3,813.3	3,797.6	15.66	243.439		
4,400.0	4,395.1	4,354.6	4,352.8	8.4	7.8	-85.68	3,720.7	918.0	3,813.3	3,797.3	16.05	237.663		
4,482.1	4,477.1	4,433.2	4,431.5	8.5	7.9	-85.76	3,721.0	916.9	3,813.2	3,796.8	16.35	233.288		
4,500.0	4,495.0	4,446.3	4,444.5	8.6	7.9	-85.78	3,721.1	916.7	3,813.2	3,796.8	16.40	232.458		
4,600.0	4,594.9	4,531.7	4,529.9	8.8	8.1	-85.87	3,722.2	915.1	3,813.6	3,796.9	16.75	227.660		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
4,700.0	4,694.7	4,638.5	4,636.7	8.9	8.3	-85.98	3,723.2	913.6	3,814.0	3,796.8	17.14	222.570	
4,800.0	4,794.6	4,734.5	4,732.7	9.1	8.4	-86.07	3,724.3	912.3	3,814.4	3,796.9	17.50	217.945	
4,900.0	4,894.5	4,830.3	4,828.5	9.3	8.6	-86.17	3,725.2	911.1	3,814.8	3,797.0	17.87	213.518	
5,000.0	4,994.3	4,904.0	4,902.1	9.5	8.7	-86.24	3,726.3	910.3	3,815.8	3,797.6	18.19	209.749	
5,100.0	5,094.2	5,003.8	5,002.0	9.7	8.9	-86.33	3,728.1	909.5	3,817.0	3,798.5	18.56	205.621	
5,200.0	5,194.1	5,101.3	5,099.4	9.9	9.1	-86.43	3,729.8	908.8	3,818.3	3,799.4	18.93	201.704	
5,300.0	5,293.9	5,208.3	5,206.4	10.1	9.3	-86.53	3,731.8	907.6	3,819.6	3,800.3	19.32	197.738	
5,400.0	5,393.8	5,316.3	5,314.4	10.3	9.5	-86.65	3,733.6	905.9	3,820.6	3,800.9	19.70	193.904	
5,500.0	5,493.7	5,415.9	5,413.9	10.5	9.6	-86.75	3,735.1	904.4	3,821.6	3,801.5	20.08	190.355	
5,600.0	5,593.5	5,507.7	5,505.7	10.7	9.8	-86.84	3,736.6	903.4	3,822.7	3,802.3	20.43	187.077	
5,700.0	5,693.4	5,600.7	5,598.7	10.9	10.0	-86.93	3,738.3	902.2	3,824.0	3,803.2	20.80	183.885	
5,800.0	5,793.3	5,713.7	5,711.6	11.1	10.2	-87.05	3,740.2	900.6	3,825.2	3,804.0	21.19	180.513	
5,900.0	5,893.1	5,803.2	5,801.1	11.3	10.3	-87.14	3,741.7	899.6	3,826.4	3,804.8	21.54	177.601	
6,000.0	5,993.0	5,904.4	5,902.4	11.5	10.5	-87.25	3,743.6	897.9	3,827.7	3,805.8	21.92	174.607	
6,100.0	6,092.8	6,000.0	5,997.9	11.7	10.7	-87.35	3,745.5	895.9	3,829.0	3,806.8	22.29	171.789	
6,200.0	6,192.7	6,083.4	6,081.3	11.9	10.8	-87.44	3,747.3	894.5	3,830.7	3,808.1	22.63	169.260	
6,300.0	6,292.6	6,216.7	6,214.5	12.1	11.1	-87.57	3,749.7	893.5	3,832.1	3,809.0	23.06	166.174	
6,400.0	6,392.4	6,300.0	6,297.8	12.3	11.2	-87.63	3,751.0	893.7	3,833.4	3,810.0	23.40	163.823	
6,500.0	6,492.3	6,361.5	6,359.3	12.5	11.3	-87.67	3,752.3	894.4	3,835.5	3,811.8	23.70	161.836	
6,600.0	6,592.2	6,463.2	6,460.9	12.7	11.5	-87.73	3,754.9	896.4	3,838.1	3,814.1	24.07	159.464	
6,700.0	6,692.0	6,552.3	6,550.1	12.9	11.7	-87.79	3,757.1	897.5	3,840.5	3,816.1	24.42	157.281	
6,800.0	6,791.9	6,650.1	6,647.8	13.1	11.8	-87.86	3,760.0	898.4	3,843.5	3,818.7	24.78	155.085	
6,900.0	6,891.8	6,751.8	6,749.5	13.3	12.0	-87.93	3,762.8	898.8	3,846.0	3,820.8	25.16	152.888	
7,000.0	6,991.6	6,844.1	6,841.7	13.5	12.2	-88.01	3,765.6	899.1	3,848.9	3,823.4	25.51	150.867	
7,100.0	7,091.5	7,016.8	7,014.3	13.7	12.5	-88.14	3,769.5	899.6	3,851.1	3,825.1	26.01	148.083	
7,172.4	7,163.8	7,097.7	7,095.3	13.8	12.6	-88.20	3,770.3	900.3	3,851.8	3,825.5	26.29	146.528	
7,200.0	7,191.4	7,122.5	7,120.1	13.9	12.7	-41.87	3,770.5	900.6	3,851.4	3,825.0	26.37	146.071	
7,250.0	7,241.1	7,166.5	7,164.0	14.0	12.8	-12.36	3,771.0	901.0	3,847.3	3,820.9	26.40	145.751	
7,300.0	7,290.3	7,217.0	7,214.5	14.0	12.8	-3.86	3,771.5	901.3	3,839.1	3,812.8	26.30	145.994	
7,350.0	7,338.5	7,289.5	7,287.0	14.1	13.0	0.10	3,772.2	901.4	3,826.4	3,800.3	26.09	146.639	
7,400.0	7,385.5	7,336.3	7,333.9	14.2	13.0	2.50	3,772.4	901.2	3,809.5	3,783.8	25.71	148.147	
7,450.0	7,430.8	7,377.6	7,375.1	14.3	13.1	4.24	3,772.7	901.0	3,788.7	3,763.5	25.20	150.345	
7,500.0	7,474.1	7,417.7	7,415.2	14.5	13.2	5.70	3,773.0	900.8	3,764.1	3,739.5	24.57	153.195	
7,550.0	7,515.0	7,456.4	7,453.9	14.6	13.3	7.07	3,773.3	900.6	3,735.9	3,712.0	23.84	156.689	
7,600.0	7,553.3	7,492.7	7,490.2	14.8	13.3	8.49	3,773.7	900.4	3,704.3	3,681.2	23.04	160.792	
7,650.0	7,588.7	7,523.5	7,521.1	15.0	13.4	10.05	3,774.0	900.3	3,669.5	3,647.3	22.18	165.417	
7,700.0	7,620.9	7,551.0	7,548.5	15.2	13.4	11.89	3,774.3	900.3	3,631.9	3,610.6	21.33	170.270	
7,750.0	7,649.6	7,575.6	7,573.1	15.5	13.5	14.18	3,774.6	900.5	3,591.7	3,571.2	20.55	174.782	
7,800.0	7,674.7	7,600.0	7,597.5	15.8	13.5	17.17	3,774.8	900.7	3,549.3	3,529.3	19.96	177.834	
7,850.0	7,695.9	7,600.0	7,597.5	16.1	13.5	20.98	3,774.8	900.7	3,504.9	3,485.2	19.68	178.110	
7,900.0	7,713.1	7,626.4	7,623.9	16.5	13.6	26.89	3,775.2	901.0	3,458.7	3,438.6	20.15	171.630	
7,950.0	7,726.1	7,636.5	7,634.0	16.9	13.6	35.58	3,775.4	901.1	3,411.4	3,389.6	21.74	156.932	
8,000.0	7,734.9	7,643.5	7,641.0	17.4	13.6	49.32	3,775.5	901.2	3,363.1	3,338.1	24.96	134.741	
8,050.0	7,739.4	7,647.5	7,645.0	17.9	13.6	70.40	3,775.6	901.2	3,314.1	3,285.0	29.11	113.850	
8,076.4	7,740.0	7,648.3	7,645.8	18.2	13.6	84.05	3,775.6	901.2	3,288.2	3,257.7	30.50	107.807	
8,100.0	7,740.0	7,648.6	7,646.1	18.4	13.6	84.08	3,775.6	901.2	3,265.0	3,234.3	30.77	106.111	
8,200.0	7,740.0	7,649.9	7,647.4	19.6	13.6	84.20	3,775.6	901.3	3,166.8	3,134.9	31.97	99.055	
8,300.0	7,740.0	7,651.2	7,648.7	20.8	13.6	84.33	3,775.6	901.3	3,068.8	3,035.5	33.25	92.284	
8,400.0	7,740.0	7,652.6	7,650.1	22.1	13.6	84.46	3,775.6	901.3	2,970.8	2,936.2	34.61	85.850	
8,500.0	7,740.0	7,654.0	7,651.5	23.4	13.6	84.59	3,775.7	901.3	2,873.0	2,837.0	36.01	79.779	
8,600.0	7,740.0	7,655.4	7,652.9	24.8	13.6	84.72	3,775.7	901.3	2,775.4	2,737.9	37.47	74.078	
8,700.0	7,740.0	7,656.9	7,654.4	26.3	13.6	84.85	3,775.7	901.3	2,677.9	2,639.0	38.96	68.739	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
8,800.0	7,740.0	7,658.3	7,655.8	27.8	13.6	84.99	3,775.8	901.3	2,580.7	2,540.2	40.48	63.747	
8,900.0	7,740.0	7,659.8	7,657.3	29.3	13.6	85.13	3,775.8	901.4	2,483.6	2,441.6	42.03	59.085	
9,000.0	7,740.0	7,661.3	7,658.8	30.8	13.6	85.27	3,775.8	901.4	2,386.8	2,343.2	43.61	54.731	
9,100.0	7,740.0	7,662.9	7,660.4	32.4	13.6	85.42	3,775.8	901.4	2,290.2	2,245.0	45.20	50.664	
9,200.0	7,740.0	7,664.5	7,662.0	33.9	13.6	85.57	3,775.9	901.4	2,194.0	2,147.2	46.82	46.864	
9,300.0	7,740.0	7,666.1	7,663.6	35.5	13.6	85.72	3,775.9	901.4	2,098.1	2,049.6	48.44	43.311	
9,400.0	7,740.0	7,667.7	7,665.2	37.2	13.6	85.87	3,775.9	901.4	2,002.6	1,952.5	50.08	39.987	
9,500.0	7,740.0	7,669.4	7,666.9	38.8	13.6	86.03	3,776.0	901.4	1,907.6	1,855.8	51.73	36.874	
9,600.0	7,740.0	7,671.1	7,668.6	40.4	13.6	86.19	3,776.0	901.5	1,813.1	1,759.7	53.39	33.957	
9,700.0	7,740.0	7,672.8	7,670.3	42.0	13.6	86.36	3,776.0	901.5	1,719.2	1,664.1	55.06	31.222	
9,800.0	7,740.0	7,674.6	7,672.1	43.7	13.6	86.52	3,776.1	901.5	1,626.0	1,569.3	56.74	28.658	
9,900.0	7,740.0	7,676.4	7,673.9	45.4	13.6	86.69	3,776.1	901.5	1,533.8	1,475.3	58.42	26.252	
10,000.0	7,740.0	7,678.3	7,675.8	47.0	13.6	86.87	3,776.2	901.5	1,442.5	1,382.4	60.11	23.996	
10,100.0	7,740.0	7,680.2	7,677.6	48.7	13.6	87.04	3,776.2	901.5	1,352.5	1,290.7	61.81	21.881	
10,200.0	7,740.0	7,682.1	7,679.6	50.4	13.6	87.22	3,776.2	901.6	1,263.9	1,200.4	63.51	19.901	
10,300.0	7,740.0	7,684.0	7,681.5	52.1	13.7	87.41	3,776.3	901.6	1,177.2	1,112.0	65.22	18.051	
10,400.0	7,740.0	7,686.0	7,683.5	53.7	13.7	87.60	3,776.3	901.6	1,092.8	1,025.9	66.93	16.329	
10,500.0	7,740.0	7,688.1	7,685.6	55.4	13.7	87.79	3,776.4	901.6	1,011.2	942.6	68.64	14.732	
10,600.0	7,740.0	7,690.2	7,687.7	57.1	13.7	87.99	3,776.4	901.6	933.2	862.9	70.36	13.264	
10,700.0	7,740.0	7,692.3	7,689.8	58.8	13.7	88.19	3,776.5	901.7	859.8	787.7	72.07	11.929	
10,800.0	7,740.0	7,694.5	7,692.0	60.5	13.7	88.40	3,776.5	901.7	792.2	718.4	73.80	10.735	
10,900.0	7,740.0	7,696.8	7,694.2	62.2	13.7	88.61	3,776.6	901.7	732.0	656.5	75.52	9.693	
11,000.0	7,740.0	7,699.0	7,696.5	63.9	13.7	88.82	3,776.6	901.7	681.3	604.0	77.24	8.820	
11,100.0	7,740.0	7,701.5	7,699.0	65.7	13.7	89.05	3,776.7	901.7	642.2	563.2	78.97	8.132	
11,200.0	7,740.0	7,704.0	7,701.5	67.4	13.7	89.29	3,776.7	901.7	617.0	536.3	80.70	7.646	
11,300.0	7,740.0	7,706.5	7,704.0	69.1	13.7	89.53	3,776.8	901.8	607.4	525.0	82.43	7.369	
11,308.8	7,740.0	7,706.7	7,704.2	69.2	13.7	89.55	3,776.8	901.8	607.3	524.8	82.58	7.355 CC, ES	
11,400.0	7,740.0	7,709.0	7,706.5	70.8	13.7	89.76	3,776.9	901.8	614.2	530.0	84.16	7.298 SF	
11,500.0	7,740.0	7,711.5	7,709.0	72.5	13.7	90.00	3,776.9	901.8	636.7	550.8	85.89	7.413	
11,600.0	7,740.0	7,714.0	7,711.5	74.2	13.7	90.23	3,777.0	901.8	673.5	585.9	87.62	7.687	
11,700.0	7,740.0	7,716.4	7,713.9	76.0	13.7	90.46	3,777.0	901.8	722.4	633.0	89.35	8.085	
11,800.0	7,740.0	7,718.9	7,716.3	77.7	13.7	90.69	3,777.1	901.9	781.1	690.0	91.08	8.576	
11,900.0	7,740.0	7,721.3	7,718.8	79.4	13.7	90.92	3,777.1	901.9	847.5	754.7	92.81	9.132	
12,000.0	7,740.0	7,723.7	7,721.2	81.1	13.7	91.15	3,777.2	901.9	920.0	825.5	94.54	9.732	
12,100.0	7,740.0	7,726.1	7,723.6	82.9	13.7	91.38	3,777.3	901.9	997.3	901.0	96.26	10.360	
12,200.0	7,740.0	7,728.5	7,726.0	84.6	13.7	91.60	3,777.3	901.9	1,078.3	980.3	97.99	11.004	
12,300.0	7,740.0	7,730.9	7,728.3	86.3	13.7	91.82	3,777.4	901.9	1,162.3	1,062.6	99.72	11.656	
12,400.0	7,740.0	7,733.2	7,730.7	88.0	13.7	92.05	3,777.4	901.9	1,248.6	1,147.2	101.44	12.308	
12,500.0	7,740.0	7,735.6	7,733.0	89.8	13.7	92.27	3,777.5	901.9	1,336.8	1,233.7	103.17	12.958	
12,600.0	7,740.0	7,737.9	7,735.4	91.5	13.7	92.49	3,777.5	902.0	1,426.6	1,321.7	104.89	13.601	
12,700.0	7,740.0	7,740.2	7,737.7	93.2	13.8	92.70	3,777.6	902.0	1,517.7	1,411.1	106.61	14.235	
12,800.0	7,740.0	7,742.5	7,740.0	95.0	13.8	92.92	3,777.6	902.0	1,609.8	1,501.5	108.33	14.859	
12,900.0	7,740.0	7,744.8	7,742.3	96.7	13.8	93.14	3,777.7	902.0	1,702.8	1,592.7	110.05	15.472	
13,000.0	7,740.0	7,747.1	7,744.6	98.4	13.8	93.35	3,777.7	902.0	1,796.5	1,684.8	111.77	16.073	
13,100.0	7,740.0	7,749.4	7,746.9	100.2	13.8	93.56	3,777.8	902.0	1,890.9	1,777.4	113.49	16.662	
13,200.0	7,740.0	7,751.6	7,749.1	101.9	13.8	93.78	3,777.8	902.0	1,985.9	1,870.7	115.20	17.238	
13,300.0	7,740.0	7,753.9	7,751.4	103.6	13.8	93.99	3,777.9	902.0	2,081.3	1,964.4	116.92	17.801	
13,400.0	7,740.0	7,756.1	7,753.6	105.4	13.8	94.20	3,777.9	902.0	2,177.1	2,058.5	118.63	18.352	
13,500.0	7,740.0	7,758.3	7,755.8	107.1	13.8	94.41	3,778.0	902.0	2,273.3	2,152.9	120.34	18.891	
13,600.0	7,740.0	7,760.5	7,758.0	108.9	13.8	94.61	3,778.0	902.0	2,369.8	2,247.7	122.05	19.417	
13,700.0	7,740.0	7,762.7	7,760.2	110.6	13.8	94.82	3,778.1	902.0	2,466.5	2,342.8	123.75	19.931	
13,800.0	7,740.0	7,764.9	7,762.4	112.3	13.8	95.02	3,778.1	902.0	2,563.5	2,438.1	125.46	20.434	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV											Offset Site Error: 0.0 ft		
Survey Program: 100-MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
13,900.0	7,740.0	7,767.1	7,764.6	114.1	13.8	95.23	3,778.2	902.0	2,660.8	2,533.6	127.16	20.925	
14,000.0	7,740.0	7,769.3	7,766.7	115.8	13.8	95.43	3,778.2	902.0	2,758.2	2,629.4	128.86	21.405	
14,076.4	7,740.0	7,770.9	7,768.4	117.1	13.8	95.58	3,778.3	902.0	2,832.8	2,702.6	130.16	21.764	
14,100.0	7,740.0	7,771.4	7,768.9	117.6	13.8	95.74	3,778.3	902.0	2,855.8	2,725.3	130.51	21.882	
14,200.0	7,740.0	7,773.6	7,771.0	119.3	13.8	96.48	3,778.3	902.0	2,953.8	2,821.9	131.95	22.387	
14,300.0	7,740.0	7,775.7	7,773.2	121.0	13.8	97.39	3,778.4	902.0	3,052.3	2,919.0	133.28	22.902	
14,338.4	7,740.0	7,776.5	7,774.0	121.7	13.8	97.80	3,778.4	902.0	3,090.3	2,956.5	133.75	23.104	
14,400.0	7,740.0	7,777.8	7,775.3	122.8	13.8	97.95	3,778.4	902.0	3,151.1	3,016.3	134.77	23.381	
14,500.0	7,740.0	7,779.9	7,777.4	124.5	13.8	98.20	3,778.4	902.0	3,250.0	3,113.5	136.43	23.822	
14,600.0	7,740.0	7,782.0	7,779.5	126.2	13.8	98.45	3,778.5	902.0	3,348.9	3,210.8	138.08	24.254	
14,632.3	7,740.0	7,782.7	7,780.2	126.8	13.8	98.53	3,778.5	902.0	3,380.8	3,242.2	138.61	24.391	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 765-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	15.21	3,670.5	997.6	3,803.7					
100.0	100.0	85.0	85.0	0.2	0.1	15.21	3,670.5	997.6	3,803.6	3,803.3	0.30	N/A		
200.0	200.0	185.0	185.0	0.3	0.3	15.21	3,670.5	997.6	3,803.6	3,803.0	0.64	5,919.810		
300.0	300.0	285.0	285.0	0.5	0.5	15.21	3,670.5	997.6	3,803.6	3,802.6	0.99	3,850.059		
400.0	400.0	385.0	385.0	0.7	0.7	15.21	3,670.5	997.6	3,803.6	3,802.3	1.33	2,852.674		
500.0	500.0	485.0	485.0	0.8	0.8	15.21	3,670.5	997.6	3,803.6	3,802.0	1.68	2,265.723		
600.0	600.0	585.0	585.0	1.0	1.0	15.21	3,670.5	997.6	3,803.6	3,801.6	2.02	1,879.091		
700.0	700.0	685.0	685.0	1.2	1.2	-81.53	3,670.5	997.6	3,803.5	3,801.1	2.37	1,604.876		
800.0	800.0	781.0	781.0	1.4	1.3	-81.57	3,670.5	997.6	3,803.1	3,800.4	2.71	1,402.475		
897.7	897.5	872.6	872.6	1.6	1.5	-81.64	3,670.8	997.3	3,802.7	3,799.7	3.05	1,247.058		
900.0	899.9	874.9	874.9	1.6	1.5	-81.64	3,670.8	997.2	3,802.7	3,799.7	3.06	1,243.682		
1,000.0	999.7	980.1	980.1	1.7	1.7	-81.73	3,671.0	996.5	3,801.9	3,798.5	3.43	1,109.535		
1,055.6	1,055.3	1,012.0	1,012.0	1.8	1.7	-81.77	3,671.2	996.0	3,801.7	3,798.1	3.59	1,059.997		
1,100.0	1,099.6	1,036.5	1,036.5	1.9	1.8	-81.79	3,671.6	995.6	3,801.8	3,798.1	3.71	1,023.903		
1,200.0	1,199.5	1,074.0	1,074.0	2.1	1.8	-81.84	3,672.6	994.4	3,803.1	3,799.1	3.97	958.323		
1,300.0	1,299.3	1,137.0	1,136.8	2.3	2.0	-81.94	3,675.4	991.7	3,805.6	3,801.3	4.27	890.630		
1,400.0	1,399.2	1,258.6	1,257.8	2.5	2.2	-82.20	3,682.6	982.3	3,808.8	3,804.1	4.70	810.109		
1,500.0	1,499.1	1,338.1	1,336.8	2.7	2.4	-82.40	3,687.6	974.0	3,811.7	3,806.6	5.06	752.562		
1,600.0	1,598.9	1,449.0	1,446.4	2.9	2.7	-82.72	3,695.7	959.7	3,815.0	3,809.5	5.52	690.810		
1,700.0	1,698.8	1,552.5	1,548.5	3.1	2.9	-83.05	3,703.4	944.3	3,818.1	3,812.1	5.99	637.165		
1,800.0	1,798.6	1,615.6	1,610.7	3.3	3.1	-83.26	3,708.1	934.7	3,821.4	3,815.0	6.36	600.880		
1,900.0	1,898.5	1,704.4	1,698.1	3.5	3.4	-83.55	3,715.7	921.5	3,825.7	3,818.9	6.81	561.744		
2,000.0	1,998.4	1,786.9	1,779.2	3.7	3.7	-83.84	3,723.1	907.6	3,830.2	3,822.9	7.27	527.102		
2,100.0	2,098.2	1,856.3	1,847.1	3.9	3.9	-84.09	3,729.7	895.4	3,835.3	3,827.6	7.69	498.735		
2,200.0	2,198.1	1,916.9	1,906.4	4.1	4.1	-84.31	3,736.2	884.4	3,841.5	3,833.4	8.09	474.739		
2,300.0	2,298.0	2,012.0	1,999.3	4.2	4.5	-84.67	3,746.9	867.1	3,848.4	3,839.8	8.62	446.530		
2,400.0	2,397.8	2,078.5	2,064.0	4.4	4.7	-84.93	3,754.7	854.2	3,855.7	3,846.6	9.07	425.298		
2,500.0	2,497.7	2,162.5	2,145.5	4.6	5.1	-85.28	3,765.3	836.8	3,863.8	3,854.2	9.59	402.923		
2,600.0	2,597.6	2,369.1	2,345.7	4.8	6.0	-86.16	3,789.3	792.0	3,871.1	3,860.5	10.63	364.035		
2,700.0	2,697.4	2,430.0	2,404.7	5.0	6.2	-86.42	3,795.8	778.1	3,877.4	3,866.3	11.09	349.779		
2,800.0	2,797.3	2,507.0	2,479.3	5.2	6.6	-86.75	3,804.5	761.1	3,884.7	3,873.1	11.60	334.801		
2,900.0	2,897.2	2,570.0	2,540.3	5.4	6.9	-87.01	3,812.1	747.4	3,892.8	3,880.7	12.06	322.761		
3,000.0	2,997.0	2,632.0	2,600.3	5.6	7.2	-87.27	3,820.0	734.0	3,901.8	3,889.3	12.52	311.760		
3,100.0	3,096.9	2,777.2	2,741.2	5.8	7.8	-87.87	3,837.7	703.5	3,910.6	3,897.3	13.30	294.022		
3,200.0	3,196.8	2,835.3	2,797.6	6.0	8.1	-88.10	3,844.8	691.8	3,919.8	3,906.0	13.73	285.565		
3,300.0	3,296.6	2,914.6	2,874.7	6.2	8.4	-88.40	3,855.0	676.1	3,929.8	3,915.5	14.23	276.111		
3,400.0	3,396.5	2,992.8	2,950.7	6.4	8.7	-88.70	3,865.3	660.9	3,940.2	3,925.5	14.73	267.510		
3,500.0	3,496.4	3,082.8	3,038.2	6.6	9.1	-89.04	3,877.3	643.9	3,951.2	3,935.9	15.27	258.793		
3,600.0	3,596.2	3,320.0	3,269.3	6.8	10.1	-89.92	3,906.0	598.5	3,961.5	3,945.2	16.37	242.059		
3,700.0	3,696.1	3,383.0	3,330.7	7.0	10.4	-90.16	3,912.6	586.0	3,969.9	3,953.1	16.80	236.234		
3,800.0	3,796.0	3,431.9	3,378.3	7.2	10.6	-90.34	3,918.3	576.7	3,979.5	3,962.3	17.17	231.724		
3,900.0	3,895.8	3,539.9	3,483.9	7.4	11.1	-90.71	3,931.0	557.9	3,989.6	3,971.9	17.74	224.833		
4,000.0	3,995.7	3,633.9	3,576.0	7.6	11.4	-91.01	3,941.8	542.3	3,999.8	3,981.5	18.25	219.141		
4,100.0	4,095.5	3,883.0	3,821.0	7.8	12.3	-91.77	3,965.6	504.6	4,008.1	3,988.9	19.23	208.428		
4,200.0	4,195.4	3,922.7	3,860.0	8.0	12.5	-91.90	3,968.9	497.8	4,015.5	3,995.9	19.56	205.306		
4,300.0	4,295.3	3,944.0	3,880.9	8.2	12.5	-91.96	3,971.0	494.2	4,024.5	4,004.7	19.83	202.995		
4,400.0	4,395.1	4,006.0	3,941.6	8.4	12.8	-92.17	3,977.9	483.8	4,034.8	4,014.6	20.23	199.447		
4,500.0	4,495.0	4,079.7	4,013.4	8.6	13.1	-92.43	3,987.0	469.8	4,046.3	4,025.6	20.71	195.366		
4,600.0	4,594.9	4,318.0	4,244.5	8.8	14.2	-93.35	4,014.4	418.7	4,057.7	4,035.8	21.85	185.697		
4,700.0	4,694.7	4,427.6	4,351.2	8.9	14.7	-93.76	4,024.6	395.5	4,066.4	4,044.0	22.46	181.023		
4,800.0	4,794.6	4,629.0	4,547.3	9.1	15.6	-94.52	4,038.6	352.3	4,072.4	4,049.0	23.44	173.722		
4,900.0	4,894.5	4,691.0	4,607.8	9.3	15.8	-94.75	4,042.6	339.3	4,078.8	4,055.0	23.86	170.945		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	4,994.3	4,752.0	4,667.5	9.5	16.1	-94.96	4,047.3	327.5	4,086.5	4,062.2	24.27	168.376	
5,100.0	5,094.2	4,788.4	4,703.1	9.7	16.2	-95.09	4,050.6	320.7	4,095.5	4,070.9	24.59	166.556	
5,200.0	5,194.1	4,814.0	4,728.1	9.9	16.3	-95.17	4,053.1	315.9	4,105.9	4,081.0	24.87	165.082	
5,300.0	5,293.9	4,876.0	4,788.7	10.1	16.6	-95.37	4,060.0	304.8	4,117.6	4,092.3	25.27	162.930	
5,400.0	5,393.8	4,923.1	4,834.7	10.3	16.8	-95.53	4,066.1	296.5	4,130.7	4,105.1	25.62	161.223	
5,500.0	5,493.7	4,993.6	4,903.5	10.5	17.1	-95.75	4,075.7	284.1	4,144.8	4,118.8	26.05	159.100	
5,600.0	5,593.5	5,080.8	4,988.4	10.7	17.4	-96.03	4,087.8	268.8	4,159.4	4,132.9	26.52	156.817	
5,700.0	5,693.4	5,159.4	5,065.1	10.9	17.8	-96.26	4,099.0	255.9	4,174.4	4,147.4	26.96	154.852	
5,800.0	5,793.3	5,685.0	5,579.9	11.1	19.8	-97.86	4,152.0	166.5	4,188.4	4,159.6	28.78	145.533	
5,900.0	5,893.1	5,727.3	5,621.6	11.3	19.9	-97.98	4,154.2	159.3	4,194.7	4,165.6	29.10	144.132	
6,000.0	5,993.0	5,888.4	5,779.9	11.5	20.5	-98.48	4,161.3	130.8	4,200.2	4,170.4	29.81	140.904	
6,100.0	6,092.8	5,936.0	5,826.8	11.7	20.7	-98.63	4,163.5	122.4	4,206.3	4,176.1	30.15	139.507	
6,200.0	6,192.7	6,009.3	5,898.9	11.9	20.9	-98.84	4,167.5	110.2	4,213.3	4,182.8	30.56	137.873	
6,300.0	6,292.6	6,060.0	5,948.9	12.1	21.1	-98.99	4,170.6	102.1	4,221.2	4,190.3	30.90	136.607	
6,400.0	6,392.4	6,125.1	6,013.0	12.3	21.4	-99.17	4,175.3	91.7	4,230.1	4,198.8	31.28	135.226	
6,500.0	6,492.3	6,263.9	6,149.9	12.5	21.8	-99.53	4,185.3	71.3	4,238.9	4,207.0	31.84	133.148	
6,600.0	6,592.2	6,353.0	6,238.0	12.7	22.1	-99.74	4,191.7	60.1	4,247.7	4,215.5	32.24	131.734	
6,700.0	6,692.0	6,491.8	6,375.6	12.9	22.5	-100.05	4,201.3	43.9	4,256.3	4,223.6	32.74	129.986	
6,800.0	6,791.9	6,657.2	6,540.1	13.1	22.9	-100.36	4,210.7	28.9	4,263.5	4,230.2	33.25	128.218	
6,900.0	6,891.8	6,988.8	6,870.9	13.3	23.4	-100.84	4,216.9	9.0	4,265.4	4,231.4	33.95	125.623	
7,000.0	6,991.6	7,046.8	6,928.9	13.5	23.5	-100.90	4,217.1	8.0	4,267.0	4,232.8	34.21	124.723	
7,100.0	7,091.5	7,109.5	6,991.6	13.7	23.6	-100.95	4,218.1	7.1	4,269.5	4,235.1	34.47	123.851	
7,172.4	7,163.8	7,230.7	7,112.7	13.8	23.7	-101.05	4,219.9	5.5	4,271.5	4,236.7	34.75	122.938	
7,200.0	7,191.4	7,265.5	7,147.5	13.9	23.8	-54.75	4,220.1	5.1	4,271.3	4,236.5	34.81	122.701	
7,250.0	7,241.1	7,302.3	7,184.3	14.0	23.8	-25.34	4,220.4	4.8	4,267.6	4,232.9	34.73	122.881	
7,300.0	7,290.3	7,339.8	7,221.8	14.0	23.8	-17.05	4,220.8	4.5	4,259.8	4,225.4	34.43	123.719	
7,350.0	7,338.5	7,380.0	7,262.0	14.1	23.9	-13.43	4,221.3	4.3	4,247.8	4,213.9	33.92	125.226	
7,400.0	7,385.5	7,414.1	7,296.1	14.2	23.9	-11.49	4,221.9	4.1	4,231.8	4,198.6	33.20	127.458	
7,450.0	7,430.8	7,449.8	7,331.7	14.3	24.0	-10.36	4,222.5	3.9	4,211.8	4,179.5	32.29	130.445	
7,500.0	7,474.1	7,483.9	7,365.9	14.5	24.0	-9.71	4,223.2	3.7	4,188.0	4,156.8	31.19	134.263	
7,550.0	7,515.0	7,517.5	7,399.4	14.6	24.1	-9.37	4,224.0	3.4	4,160.6	4,130.7	29.93	139.000	
7,600.0	7,553.3	7,550.8	7,432.8	14.8	24.1	-9.27	4,224.8	3.3	4,129.8	4,101.2	28.53	144.746	
7,650.0	7,588.7	7,581.9	7,463.8	15.0	24.1	-9.39	4,225.6	3.3	4,095.6	4,068.6	27.02	151.577	
7,700.0	7,620.9	7,610.3	7,492.3	15.2	24.1	-9.73	4,226.4	3.5	4,058.5	4,033.1	25.44	159.540	
7,750.0	7,649.6	7,641.4	7,523.3	15.5	24.2	-10.34	4,227.3	3.7	4,018.7	3,994.8	23.85	168.533	
7,800.0	7,674.7	7,687.9	7,569.8	15.8	24.2	-11.41	4,228.5	3.7	3,976.3	3,954.0	22.33	178.076	
7,850.0	7,695.9	7,730.2	7,612.1	16.1	24.3	-13.10	4,229.3	3.2	3,931.7	3,910.7	21.00	187.251	
7,900.0	7,713.1	7,820.0	7,701.9	16.5	24.4	-16.53	4,229.9	1.9	3,885.1	3,864.9	20.22	192.187	
7,950.0	7,726.1	7,832.1	7,714.0	16.9	24.4	-21.51	4,229.9	1.7	3,837.0	3,816.7	20.29	189.145	
8,000.0	7,734.9	7,840.1	7,722.0	17.4	24.4	-31.88	4,229.9	1.7	3,788.0	3,765.3	22.68	167.044	
8,050.0	7,739.4	7,844.2	7,726.1	17.9	24.4	-59.96	4,229.9	1.6	3,738.3	3,707.8	30.54	122.394	
8,076.4	7,740.0	7,844.7	7,726.6	18.2	24.4	-90.32	4,229.9	1.6	3,712.0	3,677.9	34.07	108.953	
8,100.0	7,740.0	7,844.7	7,726.6	18.4	24.4	-90.31	4,229.9	1.6	3,688.5	3,654.1	34.34	107.412	
8,200.0	7,740.0	7,844.6	7,726.4	19.6	24.4	-90.29	4,229.9	1.6	3,588.8	3,553.3	35.54	100.975	
8,300.0	7,740.0	7,844.5	7,726.3	20.8	24.4	-90.27	4,229.9	1.6	3,489.1	3,452.3	36.83	94.746	
8,400.0	7,740.0	7,844.4	7,726.2	22.1	24.4	-90.24	4,229.9	1.6	3,389.5	3,351.3	38.18	88.780	
8,500.0	7,740.0	7,844.2	7,726.1	23.4	24.4	-90.22	4,229.9	1.6	3,289.8	3,250.2	39.59	83.106	
8,600.0	7,740.0	7,844.1	7,726.0	24.8	24.4	-90.20	4,229.9	1.6	3,190.2	3,149.2	41.04	77.735	
8,700.0	7,740.0	7,844.0	7,725.9	26.3	24.4	-90.17	4,229.9	1.6	3,090.6	3,048.1	42.53	72.668	
8,800.0	7,740.0	7,843.9	7,725.8	27.8	24.4	-90.15	4,229.9	1.6	2,991.1	2,947.0	44.05	67.896	
8,900.0	7,740.0	7,843.8	7,725.6	29.3	24.4	-90.13	4,229.9	1.6	2,891.5	2,845.9	45.60	63.407	
9,000.0	7,740.0	7,843.7	7,725.5	30.8	24.4	-90.10	4,229.9	1.6	2,792.0	2,744.9	47.17	59.185	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,740.0	7,843.5	7,725.4	32.4	24.4	-90.08	4,229.9	1.6	2,692.6	2,643.8	48.77	55.214	
9,200.0	7,740.0	7,843.4	7,725.3	33.9	24.4	-90.06	4,229.9	1.6	2,593.2	2,542.8	50.37	51.479	
9,300.0	7,740.0	7,843.3	7,725.2	35.5	24.4	-90.03	4,229.9	1.6	2,493.8	2,441.8	52.00	47.962	
9,400.0	7,740.0	7,843.2	7,725.1	37.2	24.4	-90.01	4,229.9	1.6	2,394.5	2,340.8	53.63	44.649	
9,500.0	7,740.0	7,843.1	7,724.9	38.8	24.4	-89.98	4,229.9	1.6	2,295.2	2,239.9	55.27	41.525	
9,600.0	7,740.0	7,842.9	7,724.8	40.4	24.4	-89.96	4,229.9	1.6	2,196.0	2,139.1	56.93	38.576	
9,700.0	7,740.0	7,842.8	7,724.7	42.0	24.4	-89.94	4,229.9	1.6	2,096.9	2,038.3	58.59	35.790	
9,800.0	7,740.0	7,842.7	7,724.6	43.7	24.4	-89.91	4,229.9	1.6	1,997.9	1,937.6	60.26	33.155	
9,900.0	7,740.0	7,842.6	7,724.4	45.4	24.4	-89.89	4,229.9	1.6	1,899.0	1,837.0	61.93	30.661	
10,000.0	7,740.0	7,842.5	7,724.3	47.0	24.4	-89.86	4,229.9	1.6	1,800.1	1,736.5	63.62	28.297	
10,100.0	7,740.0	7,842.3	7,724.2	48.7	24.4	-89.84	4,229.9	1.6	1,701.5	1,636.2	65.30	26.055	
10,200.0	7,740.0	7,842.2	7,724.1	50.4	24.4	-89.81	4,229.9	1.6	1,603.0	1,536.0	66.99	23.927	
10,300.0	7,740.0	7,842.1	7,723.9	52.1	24.4	-89.79	4,229.9	1.6	1,504.7	1,436.0	68.69	21.905	
10,400.0	7,740.0	7,842.0	7,723.8	53.7	24.4	-89.76	4,229.9	1.6	1,406.6	1,336.2	70.39	19.983	
10,500.0	7,740.0	7,841.8	7,723.7	55.4	24.4	-89.73	4,229.9	1.6	1,308.8	1,236.7	72.09	18.155	
10,600.0	7,740.0	7,841.7	7,723.6	57.1	24.4	-89.71	4,229.9	1.6	1,211.4	1,137.6	73.80	16.415	
10,700.0	7,740.0	7,841.6	7,723.4	58.8	24.4	-89.68	4,229.9	1.6	1,114.5	1,039.0	75.51	14.760	
10,800.0	7,740.0	7,841.4	7,723.3	60.5	24.4	-89.66	4,229.9	1.6	1,018.1	940.9	77.22	13.185	
10,900.0	7,740.0	7,841.3	7,723.2	62.2	24.4	-89.63	4,229.9	1.6	922.5	843.6	78.93	11.688	
11,000.0	7,740.0	7,841.2	7,723.0	63.9	24.4	-89.60	4,229.9	1.6	828.0	747.3	80.65	10.267	
11,100.0	7,740.0	7,841.0	7,722.9	65.7	24.4	-89.58	4,229.9	1.6	734.9	652.5	82.37	8.922	
11,200.0	7,740.0	7,840.9	7,722.8	67.4	24.4	-89.55	4,229.9	1.6	643.9	559.8	84.09	7.657	
11,300.0	7,740.0	7,840.8	7,722.6	69.1	24.4	-89.52	4,229.9	1.6	556.0	470.1	85.81	6.479	
11,400.0	7,740.0	7,840.6	7,722.5	70.8	24.4	-89.50	4,229.9	1.7	472.8	385.3	87.53	5.402	
11,500.0	7,740.0	7,840.5	7,722.4	72.5	24.4	-89.47	4,229.9	1.7	397.6	308.3	89.26	4.455	
11,600.0	7,740.0	7,840.4	7,722.2	74.2	24.4	-89.44	4,229.9	1.7	335.5	244.6	90.98	3.688	
11,700.0	7,740.0	7,840.2	7,722.1	76.0	24.4	-89.42	4,229.9	1.7	295.1	202.4	92.71	3.183	
11,777.5	7,740.0	7,840.1	7,722.0	77.3	24.4	-89.39	4,229.9	1.7	284.8	190.7	94.05	3.028 CC, ES	
11,800.0	7,740.0	7,840.1	7,722.0	77.7	24.4	-89.39	4,229.9	1.7	285.7	191.2	94.44	3.025 SF	
11,900.0	7,740.0	7,840.0	7,721.8	79.4	24.4	-89.36	4,229.9	1.7	310.0	213.8	96.17	3.224	
12,000.0	7,740.0	7,839.8	7,721.7	81.1	24.4	-89.33	4,229.9	1.7	361.4	263.5	97.90	3.692	
12,100.0	7,740.0	7,839.7	7,721.6	82.9	24.4	-89.30	4,229.9	1.7	430.2	330.6	99.63	4.318	
12,200.0	7,740.0	7,839.5	7,721.4	84.6	24.4	-89.28	4,229.9	1.7	509.5	408.2	101.36	5.027	
12,300.0	7,740.0	7,839.4	7,721.3	86.3	24.4	-89.25	4,229.9	1.7	595.1	492.0	103.09	5.772	
12,400.0	7,740.0	7,839.3	7,721.1	88.0	24.4	-89.22	4,229.9	1.7	684.6	579.7	104.83	6.530	
12,500.0	7,740.0	7,839.1	7,721.0	89.8	24.4	-89.19	4,229.9	1.7	776.6	670.0	106.56	7.288	
12,600.0	7,740.0	7,839.0	7,720.8	91.5	24.4	-89.16	4,229.9	1.7	870.4	762.1	108.30	8.037	
12,700.0	7,740.0	7,838.8	7,720.7	93.2	24.4	-89.13	4,229.9	1.7	965.5	855.4	110.03	8.774	
12,800.0	7,740.0	7,838.7	7,720.5	95.0	24.4	-89.10	4,229.9	1.7	1,061.4	949.7	111.77	9.497	
12,900.0	7,740.0	7,838.5	7,720.4	96.7	24.4	-89.07	4,229.9	1.7	1,158.1	1,044.6	113.51	10.203	
13,000.0	7,740.0	7,838.4	7,720.3	98.4	24.4	-89.04	4,229.9	1.7	1,255.2	1,140.0	115.24	10.892	
13,100.0	7,740.0	7,838.2	7,720.1	100.2	24.4	-89.01	4,229.9	1.7	1,352.8	1,235.8	116.98	11.564	
13,200.0	7,740.0	7,838.1	7,720.0	101.9	24.4	-88.98	4,229.9	1.7	1,450.7	1,332.0	118.72	12.220	
13,300.0	7,740.0	7,837.9	7,719.8	103.6	24.4	-88.95	4,229.9	1.7	1,548.9	1,428.5	120.46	12.858	
13,400.0	7,740.0	7,837.8	7,719.7	105.4	24.4	-88.92	4,229.9	1.7	1,647.3	1,525.1	122.20	13.480	
13,500.0	7,740.0	7,837.6	7,719.5	107.1	24.4	-88.89	4,229.9	1.7	1,745.9	1,622.0	123.94	14.087	
13,600.0	7,740.0	7,837.5	7,719.3	108.9	24.4	-88.86	4,229.9	1.7	1,844.6	1,718.9	125.68	14.677	
13,700.0	7,740.0	7,837.3	7,719.2	110.6	24.4	-88.83	4,229.9	1.7	1,943.5	1,816.1	127.42	15.253	
13,800.0	7,740.0	7,837.2	7,719.0	112.3	24.4	-88.80	4,229.9	1.7	2,042.5	1,913.3	129.16	15.813	
13,900.0	7,740.0	7,837.0	7,718.9	114.1	24.4	-88.77	4,229.9	1.7	2,141.5	2,010.6	130.90	16.360	
14,000.0	7,740.0	7,836.9	7,718.7	115.8	24.4	-88.74	4,229.9	1.7	2,240.7	2,108.0	132.64	16.893	
14,076.4	7,740.0	7,836.7	7,718.6	117.1	24.4	-88.71	4,229.9	1.7	2,316.5	2,182.5	133.97	17.291	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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			
14,100.0	7,740.0	7,836.7	7,718.6	117.6	24.4	-88.75	4,229.9	1.7	2,339.9	2,205.5	134.40	17.410			
14,200.0	7,740.0	7,836.6	7,718.4	119.3	24.4	-88.88	4,229.9	1.7	2,439.0	2,302.8	136.20	17.908			
14,300.0	7,740.0	7,836.4	7,718.3	121.0	24.4	-88.98	4,229.9	1.7	2,538.0	2,400.0	137.97	18.396			
14,338.4	7,740.0	7,836.4	7,718.3	121.7	24.4	-89.02	4,229.9	1.7	2,576.0	2,437.4	138.64	18.581			
14,400.0	7,740.0	7,836.3	7,718.2	122.8	24.4	-89.01	4,229.9	1.7	2,636.8	2,497.1	139.71	18.874			
14,500.0	7,740.0	7,836.2	7,718.1	124.5	24.4	-89.00	4,229.9	1.7	2,735.7	2,594.3	141.45	19.340			
14,600.0	7,740.0	7,836.1	7,718.0	126.2	24.4	-88.98	4,229.9	1.7	2,834.7	2,691.5	143.20	19.796			
14,632.3	7,740.0	7,836.1	7,717.9	126.8	24.4	-88.98	4,229.9	1.7	2,866.7	2,722.9	143.76	19.940			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	14.86	3,623.1	961.2	3,748.5					
100.0	100.0	86.6	86.6	0.2	0.1	14.86	3,623.1	961.2	3,748.4	3,748.1	0.30	N/A		
200.0	200.0	188.4	188.4	0.3	0.3	14.86	3,623.1	961.1	3,748.4	3,747.7	0.65	5,778.458		
300.0	300.0	290.2	290.2	0.5	0.5	14.85	3,623.0	960.8	3,748.3	3,747.3	1.00	3,757.950		
400.0	400.0	392.0	392.0	0.7	0.7	14.85	3,623.0	960.4	3,748.1	3,746.8	1.35	2,784.287		
500.0	500.0	493.8	493.8	0.8	0.8	14.84	3,622.9	959.9	3,747.9	3,746.2	1.69	2,211.275		
600.0	600.0	595.6	595.6	1.0	1.0	14.83	3,622.7	959.3	3,747.6	3,745.6	2.04	1,833.806		
700.0	700.0	697.4	697.4	1.2	1.2	-81.91	3,622.6	958.6	3,747.2	3,744.8	2.40	1,564.000		
800.0	800.0	799.1	799.1	1.4	1.4	-81.97	3,622.5	957.8	3,746.5	3,743.7	2.75	1,363.575		
897.7	897.5	894.8	894.8	1.6	1.5	-82.06	3,622.3	956.9	3,745.5	3,742.5	3.09	1,210.941		
900.0	899.9	897.1	897.1	1.6	1.5	-82.06	3,622.3	956.9	3,745.5	3,742.4	3.10	1,207.679		
1,000.0	999.7	1,003.1	1,003.1	1.7	1.7	-82.16	3,622.3	955.7	3,744.5	3,741.0	3.47	1,078.165		
1,100.0	1,099.6	1,744.7	1,738.1	1.9	3.5	-83.61	3,571.2	885.6	3,734.8	3,729.6	5.19	719.010		
1,200.0	1,199.5	1,855.6	1,846.2	2.1	3.9	-83.93	3,555.7	866.6	3,716.5	3,710.8	5.68	654.739		
1,300.0	1,299.3	1,970.7	1,958.2	2.3	4.4	-84.30	3,539.8	845.1	3,698.0	3,691.8	6.20	596.214		
1,400.0	1,399.2	2,172.7	2,152.4	2.5	5.4	-85.08	3,510.2	798.2	3,677.6	3,670.4	7.11	517.424		
1,500.0	1,499.1	2,328.4	2,301.0	2.7	6.1	-85.72	3,483.8	760.0	3,654.7	3,646.8	7.88	464.052		
1,600.0	1,598.9	2,398.1	2,367.6	2.9	6.5	-86.01	3,472.1	743.0	3,632.4	3,624.0	8.34	435.503		
1,700.0	1,698.8	2,613.9	2,573.1	3.1	7.7	-86.91	3,432.4	690.6	3,608.8	3,599.4	9.38	384.825		
1,800.0	1,798.6	2,687.5	2,643.1	3.3	8.1	-87.20	3,417.7	673.7	3,584.2	3,574.4	9.85	363.841		
1,900.0	1,898.5	2,776.1	2,727.8	3.5	8.5	-87.55	3,400.1	654.2	3,560.2	3,549.8	10.38	342.938		
2,000.0	1,998.4	2,871.0	2,818.4	3.7	9.0	-87.92	3,381.3	633.1	3,536.2	3,525.3	10.94	323.193		
2,100.0	2,098.2	2,960.4	2,903.9	3.9	9.5	-88.27	3,363.5	614.0	3,512.6	3,501.1	11.48	305.999		
2,200.0	2,198.1	3,046.5	2,986.1	4.1	10.0	-88.61	3,346.6	595.0	3,489.1	3,477.1	12.03	290.072		
2,300.0	2,298.0	3,125.0	3,061.0	4.2	10.4	-88.96	3,331.9	576.4	3,466.5	3,453.9	12.57	275.781		
2,400.0	2,397.8	3,181.6	3,115.1	4.4	10.7	-89.21	3,321.8	563.0	3,444.7	3,431.7	13.01	264.872		
2,500.0	2,497.7	3,254.7	3,185.1	4.6	11.1	-89.52	3,309.1	546.4	3,423.7	3,410.2	13.50	253.545		
2,600.0	2,597.6	3,331.8	3,259.3	4.8	11.5	-89.84	3,295.8	530.0	3,403.5	3,389.5	14.02	242.773		
2,700.0	2,697.4	3,414.6	3,338.7	5.0	11.9	-90.21	3,282.3	511.0	3,383.8	3,369.2	14.59	231.850		
2,800.0	2,797.3	3,574.8	3,492.4	5.2	12.8	-90.92	3,255.1	474.8	3,364.1	3,348.6	15.49	217.161		
2,900.0	2,897.2	3,709.2	3,620.7	5.4	13.5	-91.52	3,229.5	444.2	3,342.2	3,325.9	16.29	205.108		
3,000.0	2,997.0	3,784.0	3,692.1	5.6	13.9	-91.87	3,215.3	427.0	3,320.8	3,303.9	16.84	197.198		
3,100.0	3,096.9	3,847.0	3,752.2	5.8	14.3	-92.17	3,204.0	412.1	3,300.2	3,282.9	17.34	190.277		
3,200.0	3,196.8	3,930.4	3,831.9	6.0	14.7	-92.58	3,189.4	392.0	3,280.4	3,262.4	17.95	182.737		
3,300.0	3,296.6	4,035.0	3,931.7	6.2	15.3	-93.10	3,171.2	366.7	3,260.8	3,242.2	18.67	174.628		
3,400.0	3,396.5	4,124.1	4,016.7	6.4	15.8	-93.55	3,155.4	344.9	3,241.2	3,221.9	19.32	167.732		
3,500.0	3,496.4	4,288.6	4,173.0	6.6	16.8	-94.42	3,125.0	303.6	3,221.0	3,200.6	20.40	157.926		
3,600.0	3,596.2	4,353.0	4,234.2	6.8	17.2	-94.76	3,112.6	287.8	3,200.4	3,179.5	20.92	152.965		
3,700.0	3,696.1	4,421.3	4,299.4	7.0	17.5	-95.10	3,100.0	272.0	3,181.0	3,159.5	21.45	148.272		
3,800.0	3,796.0	4,507.2	4,381.6	7.2	18.0	-95.53	3,084.7	252.4	3,162.3	3,140.2	22.10	143.059		
3,900.0	3,895.8	4,575.5	4,446.6	7.4	18.4	-95.90	3,072.8	235.3	3,144.1	3,121.4	22.68	138.653		
4,000.0	3,995.7	4,635.0	4,503.5	7.6	18.7	-96.23	3,063.1	220.5	3,127.4	3,104.2	23.20	134.811		
4,100.0	4,095.5	4,781.2	4,642.5	7.8	19.6	-97.07	3,038.6	182.7	3,110.1	3,085.9	24.25	128.237		
4,200.0	4,195.4	4,884.6	4,740.7	8.0	20.2	-97.67	3,020.6	155.8	3,092.8	3,067.7	25.05	123.488		
4,300.0	4,295.3	4,962.7	4,815.2	8.2	20.6	-98.11	3,006.7	136.7	3,075.5	3,049.9	25.66	119.836		
4,400.0	4,395.1	5,027.6	4,877.5	8.4	20.9	-98.45	2,995.9	122.0	3,059.5	3,033.3	26.20	116.790		
4,500.0	4,495.0	5,105.0	4,952.1	8.6	21.3	-98.84	2,983.6	105.6	3,044.5	3,017.7	26.78	113.703		
4,600.0	4,594.9	5,173.3	5,018.2	8.8	21.6	-99.18	2,973.2	91.9	3,030.4	3,003.1	27.29	111.027		
4,700.0	4,694.7	5,248.4	5,091.1	8.9	22.0	-99.53	2,962.3	77.6	3,017.1	2,989.3	27.83	108.417		
4,800.0	4,794.6	5,293.0	5,134.6	9.1	22.1	-99.73	2,956.1	69.7	3,005.0	2,976.7	28.22	106.482		
4,900.0	4,894.5	5,363.3	5,203.4	9.3	22.4	-100.03	2,947.2	58.0	2,994.1	2,965.4	28.70	104.336		
5,000.0	4,994.3	5,422.2	5,261.2	9.5	22.6	-100.27	2,940.9	49.1	2,984.9	2,955.8	29.11	102.525		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	5,094.2	5,483.0	5,321.1	9.7	22.8	-100.49	2,935.0	40.7	2,976.9	2,947.4	29.53	100.817	
5,200.0	5,194.1	5,578.0	5,415.0	9.9	23.1	-100.83	2,926.6	28.8	2,969.9	2,939.8	30.04	98.868	
5,300.0	5,293.9	5,661.1	5,497.3	10.1	23.3	-101.09	2,919.8	19.9	2,963.3	2,932.8	30.47	97.239	
5,400.0	5,393.8	5,751.1	5,586.8	10.3	23.5	-101.33	2,912.7	12.3	2,957.1	2,926.2	30.89	95.733	
5,500.0	5,493.7	5,816.4	5,651.7	10.5	23.7	-101.49	2,908.1	8.2	2,951.6	2,920.4	31.23	94.520	
5,600.0	5,593.5	5,882.1	5,717.2	10.7	23.8	-101.63	2,904.4	4.4	2,947.4	2,915.9	31.55	93.409	
5,700.0	5,693.4	5,957.0	5,792.0	10.9	23.9	-101.77	2,900.8	1.5	2,944.0	2,912.2	31.87	92.366	
5,800.0	5,793.3	6,016.7	5,851.6	11.1	24.0	-101.86	2,898.6	-0.2	2,941.8	2,909.6	32.16	91.469	
5,900.0	5,893.1	6,076.8	5,911.6	11.3	24.0	-101.95	2,897.4	-1.8	2,941.1	2,908.7	32.45	90.642	
5,907.1	5,900.3	6,082.0	5,916.9	11.3	24.0	-101.96	2,897.4	-1.9	2,941.1	2,908.7	32.47	90.582	
6,000.0	5,993.0	6,152.5	5,987.3	11.5	24.1	-102.07	2,896.8	-3.6	2,941.5	2,908.7	32.75	89.809	
6,100.0	6,092.8	6,252.8	6,087.6	11.7	24.2	-102.21	2,896.2	-5.8	2,942.3	2,909.2	33.09	88.909	
6,200.0	6,192.7	6,354.5	6,189.3	11.9	24.3	-102.35	2,895.6	-7.8	2,943.0	2,909.5	33.43	88.034	
6,300.0	6,292.6	6,444.4	6,279.2	12.1	24.4	-102.47	2,895.3	-9.5	2,943.9	2,910.1	33.75	87.223	
6,400.0	6,392.4	6,537.7	6,372.5	12.3	24.5	-102.60	2,895.2	-11.3	2,945.1	2,911.0	34.08	86.414	
6,500.0	6,492.3	6,635.3	6,470.1	12.5	24.6	-102.74	2,895.1	-13.4	2,946.4	2,912.0	34.42	85.597	
6,600.0	6,592.2	6,742.0	6,576.7	12.7	24.8	-102.89	2,895.0	-16.2	2,947.7	2,913.0	34.79	84.734	
6,700.0	6,692.0	6,853.9	6,688.6	12.9	24.9	-103.07	2,894.5	-19.5	2,948.8	2,913.6	35.16	83.878	
6,800.0	6,791.9	6,971.8	6,806.5	13.1	25.0	-103.24	2,893.3	-22.1	2,949.3	2,913.7	35.51	83.046	
6,900.0	6,891.8	7,066.4	6,901.0	13.3	25.1	-103.36	2,892.2	-23.4	2,949.5	2,913.6	35.84	82.304	
7,000.0	6,991.6	7,154.9	6,989.5	13.5	25.2	-103.47	2,891.5	-24.6	2,950.0	2,913.9	36.15	81.605	
7,100.0	7,091.5	7,230.8	7,065.4	13.7	25.3	-103.56	2,891.3	-25.6	2,951.1	2,914.7	36.45	80.970	
7,172.4	7,163.8	7,280.5	7,115.1	13.8	25.3	-103.63	2,891.6	-26.4	2,952.6	2,915.9	36.66	80.547	
7,200.0	7,191.4	7,299.5	7,134.0	13.9	25.4	-57.32	2,891.8	-26.7	2,952.6	2,915.9	36.72	80.412	
7,250.0	7,241.1	7,333.7	7,168.3	14.0	25.4	-27.94	2,892.3	-27.2	2,949.5	2,912.8	36.67	80.437	
7,300.0	7,290.3	7,376.0	7,210.6	14.0	25.4	-19.71	2,893.2	-27.9	2,942.4	2,906.0	36.42	80.788	
7,350.0	7,338.5	7,412.6	7,247.2	14.1	25.5	-16.16	2,894.1	-28.5	2,931.1	2,895.2	35.96	81.502	
7,400.0	7,385.5	7,460.2	7,294.8	14.2	25.5	-14.36	2,895.3	-29.4	2,915.8	2,880.4	35.33	82.526	
7,450.0	7,430.8	7,506.7	7,341.2	14.3	25.5	-13.41	2,896.4	-30.2	2,896.3	2,861.8	34.52	83.909	
7,500.0	7,474.1	7,555.7	7,390.2	14.5	25.6	-12.99	2,897.5	-31.0	2,872.9	2,839.4	33.54	85.656	
7,550.0	7,515.0	7,602.1	7,436.5	14.6	25.6	-12.94	2,898.5	-31.6	2,845.7	2,813.3	32.43	87.762	
7,600.0	7,553.3	7,645.5	7,480.0	14.8	25.7	-13.20	2,899.4	-32.0	2,815.0	2,783.8	31.20	90.212	
7,650.0	7,588.7	7,685.7	7,520.1	15.0	25.7	-13.78	2,900.1	-32.3	2,780.9	2,751.0	29.92	92.954	
7,700.0	7,620.9	7,722.3	7,556.7	15.2	25.7	-14.71	2,900.8	-32.5	2,743.8	2,715.2	28.62	95.878	
7,750.0	7,649.6	7,755.0	7,589.4	15.5	25.7	-16.09	2,901.4	-32.6	2,703.9	2,676.5	27.38	98.756	
7,800.0	7,674.7	7,783.6	7,618.0	15.8	25.8	-18.08	2,901.8	-32.7	2,661.6	2,635.3	26.31	101.168	
7,850.0	7,695.9	7,806.8	7,641.2	16.1	25.8	-20.99	2,902.2	-32.7	2,617.2	2,591.6	25.56	102.390	
7,900.0	7,713.1	7,825.7	7,660.1	16.5	25.8	-25.40	2,902.5	-32.6	2,571.1	2,545.7	25.40	101.207	
7,950.0	7,726.1	7,840.1	7,674.5	16.9	25.8	-32.50	2,902.7	-32.6	2,523.5	2,497.2	26.30	95.938	
8,000.0	7,734.9	7,850.1	7,684.5	17.4	25.8	-44.89	2,902.8	-32.6	2,475.0	2,446.0	29.02	85.275	
8,050.0	7,739.4	7,855.6	7,690.0	17.9	25.8	-67.40	2,902.9	-32.6	2,425.8	2,392.1	33.70	71.980	
8,076.4	7,740.0	7,856.6	7,691.0	18.2	25.8	-84.33	2,902.9	-32.6	2,399.7	2,364.2	35.49	67.617	
8,100.0	7,740.0	7,857.0	7,691.4	18.4	25.8	-84.39	2,902.9	-32.6	2,376.3	2,340.6	35.76	66.451	
8,200.0	7,740.0	7,858.5	7,692.9	19.6	25.8	-84.64	2,903.0	-32.6	2,277.4	2,240.5	36.97	61.601	
8,300.0	7,740.0	7,860.0	7,694.4	20.8	25.8	-84.89	2,903.0	-32.6	2,178.6	2,140.4	38.26	56.939	
8,400.0	7,740.0	7,861.5	7,695.9	22.1	25.8	-85.14	2,903.0	-32.6	2,079.9	2,040.3	39.62	52.494	
8,500.0	7,740.0	7,863.0	7,697.4	23.4	25.8	-85.39	2,903.0	-32.6	1,981.4	1,940.3	41.04	48.283	
8,600.0	7,740.0	7,864.5	7,698.9	24.8	25.8	-85.64	2,903.0	-32.6	1,883.0	1,840.5	42.50	44.308	
8,700.0	7,740.0	7,866.0	7,700.4	26.3	25.8	-85.89	2,903.1	-32.6	1,784.7	1,740.7	44.00	40.566	
8,800.0	7,740.0	7,867.5	7,701.9	27.8	25.8	-86.14	2,903.1	-32.6	1,686.7	1,641.2	45.53	37.050	
8,900.0	7,740.0	7,869.0	7,703.4	29.3	25.8	-86.39	2,903.1	-32.6	1,588.9	1,541.8	47.08	33.748	
9,000.0	7,740.0	7,870.5	7,704.9	30.8	25.8	-86.63	2,903.1	-32.6	1,491.4	1,442.8	48.66	30.649	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
9,100.0	7,740.0	7,871.9	7,706.3	32.4	25.8	-86.88	2,903.2	-32.6	1,394.3	1,344.0	50.26	27.742	
9,200.0	7,740.0	7,873.4	7,707.8	33.9	25.8	-87.12	2,903.2	-32.6	1,297.6	1,245.7	51.87	25.015	
9,300.0	7,740.0	7,874.9	7,709.3	35.5	25.8	-87.37	2,903.2	-32.6	1,201.4	1,147.9	53.50	22.456	
9,400.0	7,740.0	7,876.3	7,710.7	37.2	25.8	-87.61	2,903.2	-32.6	1,106.0	1,050.8	55.14	20.057	
9,500.0	7,740.0	7,877.8	7,712.2	38.8	25.8	-87.85	2,903.2	-32.6	1,011.3	954.6	56.79	17.808	
9,600.0	7,740.0	7,879.2	7,713.6	40.4	25.8	-88.09	2,903.3	-32.6	917.9	859.4	58.45	15.704	
9,700.0	7,740.0	7,880.6	7,715.1	42.0	25.8	-88.33	2,903.3	-32.6	825.9	765.8	60.12	13.739	
9,800.0	7,740.0	7,882.1	7,716.5	43.7	25.8	-88.57	2,903.3	-32.6	736.1	674.3	61.79	11.913	
9,900.0	7,740.0	7,883.5	7,717.9	45.4	25.8	-88.81	2,903.3	-32.6	649.2	585.7	63.47	10.229	
10,000.0	7,740.0	7,884.9	7,719.4	47.0	25.8	-89.05	2,903.3	-32.6	566.7	501.5	65.15	8.698	
10,100.0	7,740.0	7,886.4	7,720.8	48.7	25.8	-89.29	2,903.4	-32.6	490.7	423.9	66.84	7.341	
10,200.0	7,740.0	7,887.8	7,722.2	50.4	25.8	-89.53	2,903.4	-32.6	424.8	356.2	68.54	6.198	
10,300.0	7,740.0	7,889.2	7,723.6	52.1	25.8	-89.76	2,903.4	-32.6	374.3	304.1	70.23	5.329	
10,400.0	7,740.0	7,890.6	7,725.0	53.7	25.8	-90.00	2,903.4	-32.6	346.0	274.1	71.93	4.810	
10,451.8	7,740.0	7,891.3	7,725.7	54.6	25.8	-90.12	2,903.4	-32.6	342.1	269.3	72.81	4.699 CC, ES	
10,500.0	7,740.0	7,892.0	7,726.4	55.4	25.8	-90.23	2,903.4	-32.6	345.5	271.9	73.63	4.692 SF	
10,600.0	7,740.0	7,893.4	7,727.8	57.1	25.8	-90.47	2,903.5	-32.6	372.8	297.5	75.33	4.949	
10,700.0	7,740.0	7,894.8	7,729.2	58.8	25.8	-90.70	2,903.5	-32.6	422.6	345.6	77.04	5.486	
10,800.0	7,740.0	7,896.2	7,730.6	60.5	25.8	-90.93	2,903.5	-32.6	488.1	409.4	78.74	6.199	
10,900.0	7,740.0	7,897.5	7,732.0	62.2	25.8	-91.16	2,903.5	-32.6	563.8	483.4	80.45	7.008	
11,000.0	7,740.0	7,898.9	7,733.3	63.9	25.8	-91.39	2,903.5	-32.5	646.1	564.0	82.16	7.865	
11,100.0	7,740.0	7,900.3	7,734.7	65.7	25.9	-91.62	2,903.5	-32.5	732.9	649.0	83.87	8.739	
11,200.0	7,740.0	7,901.7	7,736.1	67.4	25.9	-91.85	2,903.6	-32.5	822.6	737.1	85.57	9.613	
11,300.0	7,740.0	7,903.0	7,737.4	69.1	25.9	-92.08	2,903.6	-32.5	914.5	827.2	87.28	10.478	
11,400.0	7,740.0	7,904.4	7,738.8	70.8	25.9	-92.31	2,903.6	-32.5	1,007.9	918.9	88.99	11.326	
11,500.0	7,740.0	7,905.7	7,740.2	72.5	25.9	-92.54	2,903.6	-32.5	1,102.5	1,011.8	90.70	12.156	
11,600.0	7,740.0	7,907.1	7,741.5	74.2	25.9	-92.76	2,903.6	-32.5	1,198.0	1,105.6	92.41	12.964	
11,700.0	7,740.0	7,908.4	7,742.9	76.0	25.9	-92.99	2,903.7	-32.5	1,294.1	1,200.0	94.11	13.751	
11,800.0	7,740.0	7,909.8	7,744.2	77.7	25.9	-93.21	2,903.7	-32.5	1,390.8	1,295.0	95.82	14.515	
11,900.0	7,740.0	7,911.1	7,745.5	79.4	25.9	-93.43	2,903.7	-32.5	1,487.9	1,390.4	97.52	15.257	
12,000.0	7,740.0	7,912.4	7,746.9	81.1	25.9	-93.66	2,903.7	-32.5	1,585.4	1,486.2	99.23	15.977	
12,100.0	7,740.0	7,913.8	7,748.2	82.9	25.9	-93.88	2,903.7	-32.5	1,683.2	1,582.2	100.93	16.676	
12,200.0	7,740.0	7,915.1	7,749.5	84.6	25.9	-94.10	2,903.8	-32.5	1,781.2	1,678.5	102.63	17.355	
12,300.0	7,740.0	7,916.4	7,750.8	86.3	25.9	-94.32	2,903.8	-32.5	1,879.4	1,775.1	104.33	18.013	
12,400.0	7,740.0	7,917.7	7,752.1	88.0	25.9	-94.54	2,903.8	-32.5	1,977.8	1,871.8	106.03	18.653	
12,500.0	7,740.0	7,919.0	7,753.5	89.8	25.9	-94.75	2,903.8	-32.5	2,076.4	1,968.6	107.73	19.274	
12,600.0	7,740.0	7,920.3	7,754.8	91.5	25.9	-94.97	2,903.8	-32.5	2,175.1	2,065.6	109.43	19.877	
12,700.0	7,740.0	7,921.6	7,756.1	93.2	25.9	-95.19	2,903.8	-32.5	2,273.9	2,162.7	111.12	20.463	
12,800.0	7,740.0	7,922.9	7,757.4	95.0	25.9	-95.40	2,903.9	-32.5	2,372.8	2,259.9	112.81	21.033	
12,900.0	7,740.0	7,924.2	7,758.7	96.7	25.9	-95.62	2,903.9	-32.5	2,471.7	2,357.2	114.50	21.587	
13,000.0	7,740.0	7,925.5	7,759.9	98.4	25.9	-95.83	2,903.9	-32.5	2,570.8	2,454.6	116.19	22.126	
13,100.0	7,740.0	7,926.8	7,761.2	100.2	25.9	-96.04	2,903.9	-32.5	2,669.9	2,552.1	117.88	22.650	
13,200.0	7,740.0	7,928.1	7,762.5	101.9	25.9	-96.26	2,903.9	-32.5	2,769.1	2,649.6	119.56	23.161	
13,300.0	7,740.0	7,929.4	7,763.8	103.6	25.9	-96.47	2,903.9	-32.5	2,868.4	2,747.2	121.24	23.659	
13,400.0	7,740.0	7,930.6	7,765.1	105.4	25.9	-96.68	2,904.0	-32.5	2,967.7	2,844.8	122.92	24.143	
13,500.0	7,740.0	7,931.9	7,766.3	107.1	25.9	-96.89	2,904.0	-32.5	3,067.0	2,942.4	124.60	24.616	
13,600.0	7,740.0	7,933.2	7,767.6	108.9	25.9	-97.10	2,904.0	-32.5	3,166.4	3,040.2	126.27	25.076	
13,700.0	7,740.0	7,934.4	7,768.8	110.6	25.9	-97.30	2,904.0	-32.5	3,265.9	3,137.9	127.94	25.526	
13,800.0	7,740.0	7,935.7	7,770.1	112.3	25.9	-97.51	2,904.0	-32.5	3,365.3	3,235.7	129.61	25.964	
13,900.0	7,740.0	7,936.9	7,771.4	114.1	25.9	-97.72	2,904.0	-32.5	3,464.8	3,333.5	131.28	26.392	
14,000.0	7,740.0	7,938.2	7,772.6	115.8	25.9	-97.92	2,904.1	-32.5	3,564.3	3,431.4	132.95	26.810	
14,076.4	7,740.0	7,939.1	7,773.6	117.1	25.9	-98.08	2,904.1	-32.5	3,640.4	3,506.2	134.22	27.123	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
14,100.0	7,740.0	7,939.4	7,773.8	117.6	25.9	-97.79	2,904.1	-32.5	3,663.9	3,529.2	134.64	27.212	
14,200.0	7,740.0	7,940.7	7,775.1	119.3	25.9	-96.78	2,904.1	-32.4	3,763.3	3,627.0	136.33	27.604	
14,300.0	7,740.0	7,941.9	7,776.3	121.0	25.9	-96.01	2,904.1	-32.4	3,862.6	3,724.7	137.90	28.011	
14,338.4	7,740.0	7,942.4	7,776.8	121.7	25.9	-95.76	2,904.1	-32.4	3,900.7	3,762.2	138.47	28.170	
14,400.0	7,740.0	7,943.1	7,777.5	122.8	25.9	-95.84	2,904.1	-32.4	3,961.7	3,822.2	139.52	28.395	
14,500.0	7,740.0	7,944.3	7,778.7	124.5	25.9	-95.98	2,904.1	-32.4	4,060.9	3,919.7	141.22	28.755	
14,600.0	7,740.0	7,945.5	7,779.9	126.2	25.9	-96.11	2,904.2	-32.4	4,160.1	4,017.2	142.93	29.106	
14,632.3	7,740.0	7,945.9	7,780.3	126.8	25.9	-96.15	2,904.2	-32.4	4,192.1	4,048.6	143.48	29.218	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	18.22	4,282.5	1,409.5	4,508.6					
100.0	100.0	72.7	72.7	0.2	0.1	18.22	4,282.4	1,409.5	4,508.4	4,508.1	0.28	N/A		
189.0	189.0	151.0	151.0	0.3	0.3	18.22	4,282.2	1,409.5	4,508.2	4,507.7	0.57	7,898.739		
200.0	200.0	159.5	159.5	0.3	0.3	18.22	4,282.2	1,409.5	4,508.2	4,507.6	0.60	7,453.469		
300.0	300.0	242.4	242.4	0.5	0.4	18.22	4,282.5	1,409.4	4,508.5	4,507.6	0.92	4,878.753		
400.0	400.0	333.9	333.9	0.7	0.6	18.21	4,283.2	1,409.0	4,509.1	4,507.8	1.26	3,582.971		
500.0	500.0	441.1	441.1	0.8	0.8	18.20	4,284.1	1,408.3	4,509.7	4,508.1	1.62	2,783.076		
600.0	600.0	571.2	571.2	1.0	1.0	18.19	4,284.5	1,407.6	4,509.8	4,507.8	2.02	2,230.553		
700.0	700.0	655.6	655.6	1.2	1.1	-78.56	4,284.7	1,406.5	4,509.5	4,507.1	2.35	1,921.848		
800.0	800.0	740.2	740.2	1.4	1.3	-78.61	4,285.6	1,404.9	4,509.4	4,506.7	2.67	1,686.830		
897.7	897.5	858.9	858.8	1.6	1.5	-78.71	4,286.8	1,402.6	4,508.9	4,505.8	3.06	1,472.909		
900.0	899.9	862.2	862.1	1.6	1.5	-78.72	4,286.8	1,402.5	4,508.9	4,505.8	3.07	1,468.002		
1,000.0	999.7	960.7	960.6	1.7	1.7	-78.81	4,287.4	1,400.3	4,507.7	4,504.3	3.43	1,313.148		
1,100.0	1,099.6	1,054.3	1,054.1	1.9	1.9	-78.91	4,288.4	1,397.6	4,506.9	4,503.1	3.79	1,189.709		
1,200.0	1,199.5	1,157.2	1,157.0	2.1	2.0	-79.01	4,289.5	1,394.7	4,506.0	4,501.8	4.16	1,082.479		
1,300.0	1,299.3	1,251.5	1,251.3	2.3	2.2	-79.11	4,290.5	1,391.9	4,505.1	4,500.6	4.52	995.914		
1,400.0	1,399.2	1,347.4	1,347.1	2.5	2.4	-79.21	4,291.7	1,389.0	4,504.5	4,499.6	4.89	921.403		
1,500.0	1,499.1	1,484.7	1,484.4	2.7	2.6	-79.36	4,293.1	1,384.8	4,503.6	4,498.3	5.33	844.963		
1,600.0	1,598.9	1,580.6	1,580.2	2.9	2.8	-79.46	4,293.5	1,381.7	4,502.1	4,496.4	5.70	790.266		
1,700.0	1,698.8	1,681.4	1,681.0	3.1	3.0	-79.57	4,294.1	1,378.4	4,500.7	4,494.7	6.07	741.039		
1,800.0	1,798.6	1,777.8	1,777.3	3.3	3.2	-79.67	4,294.6	1,375.3	4,499.4	4,492.9	6.44	698.363		
1,900.0	1,898.5	1,883.1	1,882.5	3.5	3.4	-79.78	4,295.2	1,372.0	4,498.0	4,491.2	6.83	658.855		
2,000.0	1,998.4	1,997.5	1,996.9	3.7	3.6	-79.89	4,295.4	1,368.9	4,496.5	4,489.3	7.23	622.193		
2,100.0	2,098.2	2,156.6	2,155.9	3.9	3.8	-80.03	4,293.6	1,365.5	4,493.8	4,486.1	7.70	583.579		
2,200.0	2,198.1	2,234.0	2,233.3	4.1	4.0	-80.09	4,292.4	1,364.1	4,490.9	4,482.8	8.03	559.266		
2,300.0	2,298.0	2,300.0	2,299.3	4.2	4.1	-80.15	4,291.8	1,363.2	4,488.8	4,480.4	8.34	538.285		
2,400.0	2,397.8	2,371.3	2,370.6	4.4	4.2	-80.20	4,291.7	1,362.5	4,487.4	4,478.8	8.66	518.289		
2,500.0	2,497.7	2,473.8	2,473.1	4.6	4.4	-80.28	4,291.9	1,361.3	4,486.4	4,477.3	9.03	496.597		
2,600.0	2,597.6	2,576.1	2,575.3	4.8	4.6	-80.38	4,292.1	1,359.3	4,485.1	4,475.7	9.41	476.594		
2,700.0	2,697.4	2,671.8	2,671.1	5.0	4.8	-80.46	4,292.3	1,357.6	4,484.0	4,474.2	9.78	458.702		
2,800.0	2,797.3	2,743.6	2,742.9	5.2	4.9	-80.52	4,292.6	1,356.4	4,483.1	4,473.0	10.10	443.984		
2,857.7	2,854.9	2,779.4	2,778.7	5.3	4.9	-80.55	4,293.0	1,355.9	4,482.9	4,472.7	10.27	436.371		
2,900.0	2,897.2	2,810.8	2,810.0	5.4	5.0	-80.58	4,293.4	1,355.6	4,483.0	4,472.6	10.41	430.601		
3,000.0	2,997.0	2,921.9	2,921.1	5.6	5.2	-80.67	4,294.8	1,354.4	4,483.1	4,472.3	10.80	415.043		
3,100.0	3,096.9	3,015.0	3,014.2	5.8	5.4	-80.75	4,296.0	1,353.4	4,483.2	4,472.0	11.16	401.673		
3,200.0	3,196.8	3,108.6	3,107.8	6.0	5.5	-80.83	4,297.4	1,352.3	4,483.4	4,471.9	11.52	389.111		
3,300.0	3,296.6	3,200.0	3,199.2	6.2	5.7	-80.91	4,299.0	1,350.9	4,483.9	4,472.0	11.88	377.404		
3,400.0	3,396.5	3,287.1	3,286.2	6.4	5.8	-80.99	4,300.8	1,349.5	4,484.6	4,472.4	12.23	366.623		
3,500.0	3,496.4	3,367.2	3,366.3	6.6	6.0	-81.07	4,302.7	1,348.0	4,485.6	4,473.1	12.57	356.789		
3,600.0	3,596.2	3,468.1	3,467.2	6.8	6.2	-81.17	4,305.6	1,345.9	4,487.0	4,474.0	12.95	346.463		
3,700.0	3,696.1	3,583.9	3,582.8	7.0	6.4	-81.29	4,308.5	1,343.2	4,488.0	4,474.7	13.36	336.029		
3,800.0	3,796.0	3,692.8	3,691.7	7.2	6.6	-81.40	4,310.9	1,340.9	4,488.8	4,475.1	13.75	326.518		
3,900.0	3,895.8	3,795.9	3,794.8	7.4	6.8	-81.49	4,313.0	1,339.1	4,489.5	4,475.4	14.13	317.788		
4,000.0	3,995.7	3,902.2	3,901.0	7.6	7.0	-81.59	4,314.9	1,337.4	4,490.1	4,475.6	14.51	309.405		
4,100.0	4,095.5	4,021.5	4,020.3	7.8	7.2	-81.70	4,316.7	1,335.5	4,490.3	4,475.4	14.92	300.955		
4,200.0	4,195.4	4,121.8	4,120.6	8.0	7.3	-81.79	4,317.9	1,333.9	4,490.4	4,475.1	15.29	293.596		
4,300.0	4,295.3	4,225.2	4,224.0	8.2	7.5	-81.88	4,319.3	1,332.0	4,490.5	4,474.8	15.68	286.470		
4,400.0	4,395.1	4,358.6	4,357.3	8.4	7.8	-82.01	4,320.6	1,329.5	4,490.2	4,474.1	16.11	278.739		
4,500.0	4,495.0	4,472.7	4,471.5	8.6	8.0	-82.11	4,320.9	1,327.2	4,489.2	4,472.7	16.51	271.943		
4,600.0	4,594.9	4,563.8	4,562.6	8.8	8.1	-82.19	4,321.1	1,325.5	4,488.2	4,471.4	16.87	266.114		
4,700.0	4,694.7	4,663.2	4,661.9	8.9	8.3	-82.28	4,321.5	1,323.7	4,487.5	4,470.2	17.24	260.323		
4,800.0	4,794.6	4,755.5	4,754.2	9.1	8.5	-82.36	4,321.8	1,322.1	4,486.7	4,469.1	17.60	254.956		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	4,894.5	4,838.0	4,836.7	9.3	8.6	-82.44	4,322.3	1,320.7	4,486.2	4,468.3	17.94	250.072		
5,000.0	4,994.3	4,931.7	4,930.4	9.5	8.8	-82.51	4,323.2	1,319.6	4,486.2	4,467.9	18.30	245.136		
5,100.0	5,094.2	5,045.8	5,044.5	9.7	9.0	-82.61	4,324.0	1,318.0	4,485.8	4,467.1	18.70	239.900		
5,200.0	5,194.1	5,132.9	5,131.5	9.9	9.1	-82.68	4,324.6	1,316.8	4,485.5	4,466.5	19.05	235.488		
5,226.2	5,220.2	5,154.0	5,152.6	10.0	9.2	-82.70	4,324.8	1,316.6	4,485.5	4,466.4	19.14	234.402		
5,300.0	5,293.9	5,217.6	5,216.2	10.1	9.3	-82.75	4,325.5	1,316.1	4,485.6	4,466.2	19.39	231.314		
5,400.0	5,393.8	5,322.9	5,321.5	10.3	9.5	-82.84	4,326.6	1,315.2	4,485.8	4,466.0	19.77	226.870		
5,500.0	5,493.7	5,425.6	5,424.2	10.5	9.6	-82.92	4,327.6	1,314.2	4,485.8	4,465.7	20.15	222.635		
5,600.0	5,593.5	5,517.0	5,515.6	10.7	9.8	-82.99	4,328.5	1,313.4	4,486.0	4,465.5	20.51	218.775		
5,700.0	5,693.4	5,611.9	5,610.4	10.9	10.0	-83.06	4,329.6	1,312.8	4,486.3	4,465.4	20.87	215.005		
5,800.0	5,793.3	5,701.9	5,700.5	11.1	10.1	-83.13	4,330.7	1,312.4	4,486.8	4,465.6	21.22	211.451		
5,900.0	5,893.1	5,817.0	5,815.5	11.3	10.3	-83.22	4,332.2	1,311.6	4,487.3	4,465.6	21.62	207.575		
6,000.0	5,993.0	5,933.1	5,931.7	11.5	10.5	-83.32	4,333.3	1,310.2	4,487.3	4,465.2	22.02	203.796		
6,050.0	6,042.9	5,979.4	5,977.9	11.6	10.6	-83.36	4,333.6	1,309.7	4,487.2	4,465.0	22.20	202.150		
6,100.0	6,092.8	6,028.5	6,027.0	11.7	10.7	-83.40	4,334.1	1,309.2	4,487.3	4,464.9	22.38	200.481		
6,160.3	6,153.0	6,090.3	6,088.8	11.8	10.8	-83.45	4,334.6	1,308.4	4,487.3	4,464.6	22.61	198.460		
6,200.0	6,192.7	6,123.1	6,121.7	11.9	10.9	-83.48	4,335.0	1,307.9	4,487.3	4,464.5	22.75	197.274		
6,300.0	6,292.6	6,200.0	6,198.5	12.1	11.0	-83.54	4,336.0	1,306.9	4,487.7	4,464.6	23.08	194.454		
6,400.0	6,392.4	6,332.2	6,330.7	12.3	11.2	-83.66	4,337.6	1,304.6	4,487.9	4,464.3	23.51	190.883		
6,500.0	6,492.3	6,439.3	6,437.8	12.5	11.4	-83.76	4,338.7	1,302.5	4,487.8	4,463.9	23.90	187.786		
6,600.0	6,592.2	6,547.2	6,545.6	12.7	11.6	-83.87	4,339.3	1,300.3	4,487.4	4,463.1	24.29	184.760		
6,700.0	6,692.0	6,634.5	6,632.9	12.9	11.8	-83.95	4,340.1	1,298.5	4,487.2	4,462.6	24.64	182.113		
6,800.0	6,791.9	6,736.7	6,735.1	13.1	12.0	-84.04	4,341.0	1,296.6	4,487.2	4,462.2	25.02	179.347		
6,900.0	6,891.8	6,844.6	6,843.0	13.3	12.2	-84.15	4,342.0	1,293.5	4,486.9	4,461.5	25.41	176.562		
7,000.0	6,991.6	6,942.1	6,940.4	13.5	12.3	-84.26	4,343.0	1,290.3	4,486.7	4,460.9	25.79	173.984		
7,089.6	7,081.1	7,021.9	7,020.2	13.6	12.5	-84.35	4,343.9	1,287.4	4,486.5	4,460.4	26.11	171.827		
7,100.0	7,091.5	7,029.0	7,027.2	13.7	12.5	-84.36	4,344.0	1,287.2	4,486.5	4,460.4	26.14	171.607		
7,172.4	7,163.8	7,077.9	7,076.1	13.8	12.6	-84.41	4,344.8	1,285.5	4,486.7	4,460.4	26.38	170.106		
7,200.0	7,191.4	7,100.0	7,098.2	13.9	12.6	-84.09	4,345.2	1,284.7	4,486.3	4,459.8	26.45	169.630		
7,250.0	7,241.1	7,133.4	7,131.6	14.0	12.7	-8.57	4,346.0	1,283.7	4,482.3	4,455.9	26.45	169.458		
7,300.0	7,290.3	7,170.5	7,168.6	14.0	12.8	-0.02	4,346.8	1,282.7	4,474.3	4,447.9	26.32	170.002		
7,350.0	7,338.5	7,200.0	7,198.1	14.1	12.8	4.01	4,347.6	1,282.1	4,462.2	4,436.1	26.04	171.387		
7,400.0	7,385.5	7,239.4	7,237.5	14.2	12.9	6.50	4,348.6	1,281.5	4,446.2	4,420.5	25.64	173.424		
7,450.0	7,430.8	7,271.4	7,269.4	14.3	12.9	8.38	4,349.6	1,281.0	4,426.4	4,401.3	25.11	176.308		
7,500.0	7,474.1	7,300.0	7,298.1	14.5	13.0	9.99	4,350.5	1,280.7	4,402.9	4,378.5	24.46	179.985		
7,550.0	7,515.0	7,333.0	7,331.1	14.6	13.1	11.57	4,351.6	1,280.5	4,376.0	4,352.2	23.74	184.329		
7,600.0	7,553.3	7,362.0	7,360.1	14.8	13.1	13.22	4,352.7	1,280.5	4,345.7	4,322.7	22.95	189.320		
7,650.0	7,588.7	7,400.0	7,398.0	15.0	13.2	15.12	4,354.1	1,280.6	4,312.3	4,290.2	22.17	194.543		
7,700.0	7,620.9	7,400.0	7,398.0	15.2	13.2	17.21	4,354.1	1,280.6	4,276.1	4,254.7	21.36	200.181		
7,750.0	7,649.6	7,430.0	7,427.9	15.5	13.2	19.92	4,355.3	1,280.8	4,237.2	4,216.5	20.73	204.371		
7,800.0	7,674.7	7,446.5	7,444.4	15.8	13.3	23.28	4,356.0	1,280.9	4,196.1	4,175.7	20.34	206.329		
7,850.0	7,695.9	7,460.8	7,458.7	16.1	13.3	27.67	4,356.7	1,281.0	4,152.9	4,132.6	20.37	203.832		
7,900.0	7,713.1	7,472.7	7,470.7	16.5	13.3	33.60	4,357.3	1,281.1	4,108.1	4,087.0	21.09	194.793		
7,950.0	7,726.1	7,500.0	7,497.9	16.9	13.3	42.27	4,358.7	1,281.3	4,061.9	4,039.0	22.87	177.642		
8,000.0	7,734.9	7,500.0	7,497.9	17.4	13.3	53.66	4,358.7	1,281.3	4,014.6	3,989.1	25.51	157.400		
8,050.0	7,739.4	7,500.0	7,497.9	17.9	13.3	68.97	4,358.7	1,281.3	3,966.6	3,938.1	28.55	138.915		
8,076.4	7,740.0	7,500.0	7,497.9	18.2	13.3	78.43	4,358.7	1,281.3	3,941.2	3,911.3	29.82	132.166		
8,100.0	7,740.0	7,500.0	7,497.9	18.4	13.3	78.43	4,358.7	1,281.3	3,918.4	3,888.3	30.08	130.252		
8,200.0	7,740.0	7,500.0	7,497.9	19.6	13.3	78.43	4,358.7	1,281.3	3,821.9	3,790.6	31.26	122.276		
8,300.0	7,740.0	7,504.1	7,502.0	20.8	13.4	78.65	4,358.9	1,281.4	3,725.6	3,693.1	32.54	114.507		
8,400.0	7,740.0	7,509.7	7,507.5	22.1	13.4	78.96	4,359.2	1,281.4	3,629.5	3,595.6	33.89	107.084		
8,500.0	7,740.0	7,515.2	7,513.1	23.4	13.4	79.27	4,359.5	1,281.5	3,533.6	3,498.3	35.31	100.078		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	7,520.8	7,518.6	24.8	13.4	79.58	4,359.8	1,281.5	3,437.9	3,401.1	36.77	93.496		
8,700.0	7,740.0	7,526.3	7,524.1	26.3	13.4	79.89	4,360.1	1,281.6	3,342.5	3,304.2	38.27	87.334		
8,800.0	7,740.0	7,531.8	7,529.6	27.8	13.4	80.19	4,360.4	1,281.6	3,247.3	3,207.5	39.81	81.575		
8,900.0	7,740.0	7,537.2	7,535.1	29.3	13.4	80.50	4,360.6	1,281.6	3,152.5	3,111.1	41.37	76.199		
9,000.0	7,740.0	7,542.7	7,540.5	30.8	13.4	80.80	4,360.9	1,281.7	3,057.9	3,014.9	42.96	71.181		
9,100.0	7,740.0	7,548.1	7,546.0	32.4	13.4	81.11	4,361.2	1,281.7	2,963.7	2,919.1	44.57	66.498		
9,200.0	7,740.0	7,553.6	7,551.4	33.9	13.4	81.41	4,361.5	1,281.8	2,869.9	2,823.7	46.20	62.125		
9,300.0	7,740.0	7,559.0	7,556.8	35.5	13.5	81.72	4,361.8	1,281.8	2,776.5	2,728.6	47.84	58.040		
9,400.0	7,740.0	7,564.4	7,562.1	37.2	13.5	82.02	4,362.1	1,281.9	2,683.5	2,634.0	49.49	54.220		
9,500.0	7,740.0	7,569.7	7,567.5	38.8	13.5	82.32	4,362.3	1,281.9	2,591.1	2,540.0	51.16	50.646		
9,600.0	7,740.0	7,575.1	7,572.8	40.4	13.5	82.62	4,362.6	1,282.0	2,499.3	2,446.4	52.84	47.299		
9,700.0	7,740.0	7,580.4	7,578.2	42.0	13.5	82.92	4,362.9	1,282.0	2,408.1	2,353.5	54.53	44.162		
9,800.0	7,740.0	7,585.7	7,583.5	43.7	13.5	83.22	4,363.2	1,282.1	2,317.6	2,261.3	56.22	41.220		
9,900.0	7,740.0	7,591.0	7,588.7	45.4	13.5	83.52	4,363.4	1,282.1	2,227.9	2,169.9	57.93	38.460		
10,000.0	7,740.0	7,596.3	7,594.0	47.0	13.5	83.82	4,363.7	1,282.2	2,139.1	2,079.4	59.64	35.868		
10,100.0	7,740.0	7,601.8	7,599.6	48.7	13.5	84.14	4,364.0	1,282.3	2,051.3	1,989.9	61.35	33.434		
10,200.0	7,740.0	7,608.1	7,605.8	50.4	13.5	84.49	4,364.3	1,282.3	1,964.7	1,901.6	63.08	31.145		
10,300.0	7,740.0	7,614.1	7,611.9	52.1	13.6	84.84	4,364.6	1,282.4	1,879.4	1,814.6	64.81	28.997		
10,400.0	7,740.0	7,620.1	7,617.8	53.7	13.6	85.18	4,364.9	1,282.4	1,795.6	1,729.0	66.55	26.982		
10,500.0	7,740.0	7,626.0	7,623.7	55.4	13.6	85.51	4,365.2	1,282.5	1,713.5	1,645.2	68.28	25.094		
10,600.0	7,740.0	7,631.7	7,629.4	57.1	13.6	85.84	4,365.5	1,282.5	1,633.4	1,563.3	70.02	23.327		
10,700.0	7,740.0	7,637.3	7,635.0	58.8	13.6	86.16	4,365.8	1,282.6	1,555.5	1,483.8	71.76	21.677		
10,800.0	7,740.0	7,642.9	7,640.6	60.5	13.6	86.48	4,366.1	1,282.6	1,480.3	1,406.9	73.50	20.141		
10,900.0	7,740.0	7,648.3	7,646.0	62.2	13.6	86.79	4,366.3	1,282.7	1,408.2	1,333.0	75.24	18.717		
11,000.0	7,740.0	7,653.6	7,651.3	63.9	13.6	87.09	4,366.6	1,282.7	1,339.7	1,262.7	76.98	17.403		
11,100.0	7,740.0	7,658.8	7,656.5	65.7	13.6	87.39	4,366.8	1,282.7	1,275.3	1,196.6	78.73	16.199		
11,200.0	7,740.0	7,663.9	7,661.6	67.4	13.6	87.68	4,367.0	1,282.8	1,215.7	1,135.3	80.47	15.108		
11,300.0	7,740.0	7,668.9	7,666.6	69.1	13.7	87.97	4,367.3	1,282.8	1,161.7	1,079.5	82.21	14.130		
11,400.0	7,740.0	7,673.9	7,671.5	70.8	13.7	88.25	4,367.5	1,282.9	1,114.0	1,030.1	83.96	13.269		
11,500.0	7,740.0	7,678.7	7,676.3	72.5	13.7	88.53	4,367.7	1,282.9	1,073.5	987.8	85.70	12.526		
11,600.0	7,740.0	7,683.4	7,681.1	74.2	13.7	88.80	4,367.9	1,282.9	1,041.1	953.6	87.44	11.906		
11,700.0	7,740.0	7,688.1	7,685.7	76.0	13.7	89.07	4,368.1	1,283.0	1,017.4	928.3	89.19	11.408		
11,800.0	7,740.0	7,692.7	7,690.3	77.7	13.7	89.33	4,368.3	1,283.0	1,003.3	912.3	90.93	11.033		
11,893.7	7,740.0	7,696.9	7,694.5	79.3	13.7	89.57	4,368.5	1,283.0	998.9	906.3	92.56	10.791 CC		
11,900.0	7,740.0	7,697.2	7,694.8	79.4	13.7	89.59	4,368.5	1,283.0	998.9	906.2	92.67	10.779 ES		
12,000.0	7,740.0	7,701.6	7,699.2	81.1	13.7	89.84	4,368.7	1,283.1	1,004.5	910.1	94.41	10.640		
12,100.0	7,740.0	7,705.8	7,703.5	82.9	13.7	90.08	4,368.9	1,283.1	1,019.9	923.8	96.15	10.607 SF		
12,200.0	7,740.0	7,710.1	7,707.7	84.6	13.7	90.33	4,369.1	1,283.1	1,044.7	946.8	97.89	10.672		
12,300.0	7,740.0	7,714.4	7,712.0	86.3	13.7	90.57	4,369.3	1,283.1	1,078.2	978.6	99.63	10.822		
12,400.0	7,740.0	7,718.7	7,716.3	88.0	13.7	90.82	4,369.5	1,283.2	1,119.6	1,018.3	101.37	11.045		
12,500.0	7,740.0	7,723.0	7,720.6	89.8	13.7	91.06	4,369.6	1,283.2	1,168.2	1,065.1	103.10	11.330		
12,600.0	7,740.0	7,727.2	7,724.8	91.5	13.8	91.31	4,369.8	1,283.2	1,223.0	1,118.1	104.84	11.665		
12,700.0	7,740.0	7,731.5	7,729.1	93.2	13.8	91.55	4,370.0	1,283.3	1,283.2	1,176.6	106.57	12.041		
12,800.0	7,740.0	7,735.8	7,733.4	95.0	13.8	91.80	4,370.2	1,283.3	1,348.2	1,239.9	108.31	12.448		
12,900.0	7,740.0	7,740.1	7,737.7	96.7	13.8	92.04	4,370.4	1,283.3	1,417.2	1,307.2	110.04	12.879		
13,000.0	7,740.0	7,744.4	7,742.0	98.4	13.8	92.29	4,370.6	1,283.3	1,489.7	1,378.0	111.76	13.329		
13,100.0	7,740.0	7,748.7	7,746.2	100.2	13.8	92.54	4,370.8	1,283.4	1,565.3	1,451.8	113.49	13.792		
13,200.0	7,740.0	7,753.0	7,750.5	101.9	13.8	92.78	4,370.9	1,283.4	1,643.5	1,528.2	115.22	14.264		
13,300.0	7,740.0	7,757.3	7,754.8	103.6	13.8	93.03	4,371.1	1,283.4	1,723.9	1,606.9	116.94	14.741		
13,400.0	7,740.0	7,761.6	7,759.1	105.4	13.8	93.27	4,371.3	1,283.5	1,806.2	1,687.6	118.66	15.222		
13,500.0	7,740.0	7,765.8	7,763.4	107.1	13.8	93.52	4,371.5	1,283.5	1,890.3	1,769.9	120.38	15.703		
13,600.0	7,740.0	7,770.1	7,767.7	108.9	13.8	93.76	4,371.7	1,283.5	1,975.8	1,853.7	122.09	16.183		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error: 0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,700.0	7,740.0	7,774.4	7,772.0	110.6	13.8	94.01	4,371.9	1,283.6	2,062.6	1,938.8	123.81	16.660	
13,800.0	7,740.0	7,778.7	7,776.3	112.3	13.8	94.25	4,372.1	1,283.6	2,150.6	2,025.0	125.52	17.134	
13,900.0	7,740.0	7,783.1	7,780.6	114.1	13.9	94.50	4,372.2	1,283.6	2,239.5	2,112.3	127.22	17.603	
14,000.0	7,740.0	7,787.4	7,784.9	115.8	13.9	94.74	4,372.4	1,283.6	2,329.4	2,200.4	128.93	18.067	
14,076.4	7,740.0	7,790.6	7,788.2	117.1	13.9	94.93	4,372.6	1,283.7	2,398.5	2,268.3	130.23	18.418	
14,100.0	7,740.0	7,791.7	7,789.2	117.6	13.9	95.03	4,372.6	1,283.7	2,420.0	2,289.4	130.60	18.531	
14,200.0	7,740.0	7,796.0	7,793.5	119.3	13.9	95.49	4,372.8	1,283.7	2,511.9	2,379.7	132.12	19.012	
14,300.0	7,740.0	7,800.3	7,797.8	121.0	13.9	96.01	4,373.0	1,283.7	2,604.9	2,471.3	133.59	19.500	
14,338.4	7,740.0	7,801.9	7,799.5	121.7	13.9	96.23	4,373.1	1,283.8	2,641.0	2,506.9	134.13	19.689	
14,400.0	7,740.0	7,804.6	7,802.1	122.8	13.9	96.40	4,373.2	1,283.8	2,699.0	2,563.8	135.17	19.968	
14,500.0	7,740.0	7,809.0	7,806.5	124.5	13.9	96.68	4,373.4	1,283.8	2,793.5	2,656.6	136.84	20.414	
14,600.0	7,740.0	7,813.4	7,811.0	126.2	13.9	96.95	4,373.6	1,283.8	2,888.3	2,749.8	138.51	20.853	
14,632.3	7,740.0	7,814.9	7,812.4	126.8	13.9	97.04	4,373.6	1,283.9	2,919.0	2,780.0	139.04	20.994	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	15.13	3,659.5	989.2	3,790.9					
100.0	100.0	84.0	84.0	0.2	0.1	15.13	3,659.5	989.2	3,790.9	3,790.6	0.30	N/A		
200.0	200.0	184.0	184.0	0.3	0.3	15.13	3,659.5	989.2	3,790.9	3,790.2	0.64	5,903.596		
300.0	300.0	284.0	284.0	0.5	0.5	15.13	3,659.5	989.2	3,790.9	3,789.9	0.99	3,835.878		
400.0	400.0	384.0	384.0	0.7	0.7	15.13	3,659.5	989.2	3,790.9	3,789.5	1.33	2,840.872		
500.0	500.0	484.0	484.0	0.8	0.8	15.13	3,659.5	989.2	3,790.9	3,789.2	1.68	2,255.743		
600.0	600.0	584.0	584.0	1.0	1.0	15.13	3,659.5	989.2	3,790.9	3,788.9	2.03	1,870.484		
700.0	700.0	684.0	684.0	1.2	1.2	-81.61	3,659.5	989.2	3,790.8	3,788.4	2.37	1,597.325		
800.0	800.0	775.0	775.0	1.4	1.3	-81.65	3,659.5	989.2	3,790.4	3,787.7	2.71	1,400.489		
811.4	811.3	775.0	775.0	1.4	1.3	-81.65	3,659.5	989.2	3,790.4	3,787.6	2.73	1,389.876		
897.7	897.5	775.0	775.0	1.6	1.3	-81.64	3,659.5	989.2	3,791.3	3,788.4	2.88	1,314.514		
900.0	899.9	775.0	775.0	1.6	1.3	-81.64	3,659.5	989.2	3,791.3	3,788.4	2.89	1,312.571		
1,000.0	999.7	775.0	775.0	1.7	1.3	-81.64	3,659.5	989.2	3,794.7	3,791.7	3.07	1,234.636		
1,100.0	1,099.6	775.0	775.0	1.9	1.3	-81.64	3,659.5	989.2	3,800.8	3,797.5	3.26	1,165.574		
1,181.6	1,181.1	959.3	959.2	2.1	1.9	-81.83	3,665.2	987.4	3,798.2	3,794.4	3.80	999.318		
1,200.0	1,199.5	967.9	967.8	2.1	1.9	-81.84	3,665.7	987.2	3,799.1	3,795.3	3.85	985.673		
1,300.0	1,299.3	1,014.8	1,014.5	2.3	2.1	-81.90	3,669.1	986.2	3,804.8	3,800.6	4.15	917.400		
1,400.0	1,399.2	1,061.5	1,061.1	2.5	2.2	-81.98	3,673.2	984.9	3,811.8	3,807.4	4.44	858.125		
1,500.0	1,499.1	1,108.1	1,107.3	2.7	2.4	-82.05	3,677.9	983.3	3,820.2	3,815.5	4.74	806.316		
1,600.0	1,598.9	1,154.4	1,153.3	2.9	2.5	-82.13	3,683.4	981.6	3,830.1	3,825.0	5.03	760.752		
1,700.0	1,698.8	1,200.5	1,199.0	3.1	2.7	-82.22	3,689.6	979.6	3,841.3	3,836.0	5.33	720.456		
1,800.0	1,798.6	1,380.6	1,376.1	3.3	3.3	-82.61	3,720.2	969.7	3,858.9	3,853.0	5.93	650.227		
1,900.0	1,898.5	1,380.6	1,376.1	3.5	3.3	-82.61	3,720.2	969.7	3,870.1	3,864.0	6.13	631.493		
2,000.0	1,998.4	1,380.6	1,376.1	3.7	3.3	-82.61	3,720.2	969.7	3,883.8	3,877.5	6.32	614.281		
2,100.0	2,098.2	1,384.0	1,379.4	3.9	3.3	-82.62	3,720.9	969.5	3,900.0	3,893.5	6.53	597.687		
2,200.0	2,198.1	1,481.2	1,474.5	4.1	3.7	-82.85	3,740.3	963.3	3,917.4	3,910.5	6.96	562.939		
2,300.0	2,298.0	1,578.4	1,569.5	4.2	4.1	-83.09	3,759.8	957.0	3,934.9	3,927.5	7.39	532.288		
2,400.0	2,397.8	1,675.6	1,664.5	4.4	4.4	-83.31	3,779.2	950.8	3,952.5	3,944.6	7.83	505.071		
2,500.0	2,497.7	1,772.8	1,759.6	4.6	4.8	-83.54	3,798.6	944.6	3,970.1	3,961.8	8.26	480.755		
2,600.0	2,597.6	1,870.0	1,854.6	4.8	5.2	-83.76	3,818.0	938.3	3,987.7	3,979.0	8.69	458.911		
2,700.0	2,697.4	1,967.2	1,949.6	5.0	5.6	-83.99	3,837.4	932.1	4,005.5	3,996.3	9.12	439.188		
2,800.0	2,797.3	2,064.4	2,044.6	5.2	6.0	-84.21	3,856.8	925.9	4,023.3	4,013.7	9.55	421.295		
2,900.0	2,897.2	2,161.5	2,139.7	5.4	6.4	-84.43	3,876.2	919.6	4,041.1	4,031.1	9.98	404.994		
3,000.0	2,997.0	2,258.7	2,234.7	5.6	6.8	-84.64	3,895.6	913.4	4,059.0	4,048.6	10.41	390.085		
3,100.0	3,096.9	2,355.9	2,329.7	5.8	7.2	-84.86	3,915.1	907.2	4,077.0	4,066.1	10.83	376.399		
3,200.0	3,196.8	2,453.1	2,424.8	6.0	7.6	-85.07	3,934.5	900.9	4,095.0	4,083.7	11.26	363.794		
3,300.0	3,296.6	2,550.3	2,519.8	6.2	8.0	-85.28	3,953.9	894.7	4,113.1	4,101.4	11.68	352.148		
3,400.0	3,396.5	2,647.5	2,614.8	6.4	8.4	-85.49	3,973.3	888.5	4,131.2	4,119.1	12.10	341.357		
3,500.0	3,496.4	2,744.7	2,709.8	6.6	8.7	-85.70	3,992.7	882.2	4,149.4	4,136.9	12.52	331.332		
3,600.0	3,596.2	2,841.9	2,804.9	6.8	9.1	-85.91	4,012.1	876.0	4,167.6	4,154.7	12.94	321.995		
3,700.0	3,696.1	2,939.1	2,899.9	7.0	9.5	-86.11	4,031.5	869.8	4,185.9	4,172.5	13.36	313.278		
3,800.0	3,796.0	3,036.3	2,994.9	7.2	9.9	-86.31	4,051.0	863.5	4,204.3	4,190.5	13.78	305.123		
3,900.0	3,895.8	3,133.5	3,089.9	7.4	10.3	-86.52	4,070.4	857.3	4,222.6	4,208.5	14.19	297.477		
4,000.0	3,995.7	3,230.6	3,185.0	7.6	10.7	-86.71	4,089.8	851.1	4,241.1	4,226.5	14.61	290.294		
4,100.0	4,095.5	3,327.8	3,280.0	7.8	11.1	-86.91	4,109.2	844.8	4,259.6	4,244.6	15.02	283.535		
4,200.0	4,195.4	3,425.0	3,375.0	8.0	11.5	-87.11	4,128.6	838.6	4,278.1	4,262.7	15.44	277.164		
4,300.0	4,295.3	3,522.2	3,470.1	8.2	11.9	-87.30	4,148.0	832.4	4,296.7	4,280.9	15.85	271.148		
4,400.0	4,395.1	3,619.4	3,565.1	8.4	12.3	-87.49	4,167.4	826.1	4,315.4	4,299.1	16.26	265.459		
4,500.0	4,495.0	3,716.6	3,660.1	8.6	12.7	-87.69	4,186.8	819.9	4,334.1	4,317.4	16.66	260.071		
4,600.0	4,594.9	3,813.8	3,755.1	8.8	13.0	-87.87	4,206.3	813.7	4,352.8	4,335.7	17.07	254.962		
4,700.0	4,694.7	3,911.0	3,850.2	8.9	13.4	-88.06	4,225.7	807.4	4,371.6	4,354.1	17.48	250.110		
4,800.0	4,794.6	4,008.2	3,945.2	9.1	13.8	-88.25	4,245.1	801.2	4,390.4	4,372.5	17.88	245.497		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	4,894.5	4,105.4	4,040.2	9.3	14.2	-88.43	4,264.5	795.0	4,409.3	4,391.0	18.29	241.106		
5,000.0	4,994.3	4,202.6	4,135.3	9.5	14.6	-88.62	4,283.9	788.7	4,428.2	4,409.5	18.69	236.922		
5,100.0	5,094.2	4,299.7	4,230.3	9.7	15.0	-88.80	4,303.3	782.5	4,447.2	4,428.1	19.09	232.930		
5,200.0	5,194.1	4,396.9	4,325.3	9.9	15.4	-88.98	4,322.7	776.3	4,466.2	4,446.7	19.49	229.117		
5,300.0	5,293.9	4,494.1	4,420.3	10.1	15.8	-89.16	4,342.1	770.0	4,485.2	4,465.3	19.89	225.473		
5,400.0	5,393.8	4,591.3	4,515.4	10.3	16.2	-89.33	4,361.6	763.8	4,504.3	4,484.0	20.29	221.986		
5,500.0	5,493.7	4,688.5	4,610.4	10.5	16.6	-89.51	4,381.0	757.6	4,523.4	4,502.8	20.69	218.646		
5,600.0	5,593.5	4,785.7	4,705.4	10.7	17.0	-89.68	4,400.4	751.3	4,542.6	4,521.5	21.08	215.445		
5,700.0	5,693.4	4,882.9	4,800.4	10.9	17.4	-89.86	4,419.8	745.1	4,561.8	4,540.4	21.48	212.374		
5,800.0	5,793.3	4,980.1	4,895.5	11.1	17.7	-90.03	4,439.2	738.9	4,581.1	4,559.2	21.87	209.426		
5,900.0	5,893.1	5,077.3	4,990.5	11.3	18.1	-90.20	4,458.6	732.6	4,600.4	4,578.1	22.27	206.593		
6,000.0	5,993.0	5,174.5	5,085.5	11.5	18.5	-90.36	4,478.0	726.4	4,619.7	4,597.1	22.66	203.869		
6,100.0	6,092.8	5,271.6	5,180.6	11.7	18.9	-90.53	4,497.5	720.2	4,639.1	4,616.0	23.05	201.248		
6,200.0	6,192.7	5,368.8	5,275.6	11.9	19.3	-90.70	4,516.9	713.9	4,658.5	4,635.1	23.44	198.723		
6,300.0	6,292.6	5,466.0	5,370.6	12.1	19.7	-90.86	4,536.3	707.7	4,678.0	4,654.1	23.83	196.291		
6,400.0	6,392.4	5,563.2	5,465.6	12.3	20.1	-91.02	4,555.7	701.5	4,697.5	4,673.2	24.22	193.946		
6,500.0	6,492.3	5,660.4	5,560.7	12.5	20.5	-91.19	4,575.1	695.2	4,717.0	4,692.4	24.61	191.684		
6,600.0	6,592.2	5,757.6	5,655.7	12.7	20.9	-91.35	4,594.5	689.0	4,736.5	4,711.5	24.99	189.500		
6,700.0	6,692.0	5,854.8	5,750.7	12.9	21.3	-91.51	4,613.9	682.8	4,756.1	4,730.8	25.38	187.390		
6,800.0	6,791.9	5,952.0	5,845.8	13.1	21.7	-91.66	4,633.3	676.5	4,775.8	4,750.0	25.77	185.352		
6,900.0	6,891.8	6,049.2	5,940.8	13.3	22.1	-91.82	4,652.8	670.3	4,795.4	4,769.3	26.15	183.380		
7,000.0	6,991.6	6,146.4	6,035.8	13.5	22.4	-91.98	4,672.2	664.1	4,815.1	4,788.6	26.53	181.473		
7,100.0	7,091.5	6,243.6	6,130.8	13.7	22.8	-92.13	4,691.6	657.8	4,834.9	4,808.0	26.92	179.627		
7,172.4	7,163.8	6,313.9	6,199.6	13.8	23.1	-92.24	4,705.6	653.3	4,849.2	4,822.0	27.19	178.326		
7,200.0	7,191.4	6,340.9	6,226.0	13.9	23.2	-45.99	4,711.0	651.6	4,854.0	4,826.7	27.29	177.892		
7,250.0	7,241.1	6,390.2	6,274.2	14.0	23.4	-16.65	4,720.9	648.4	4,859.4	4,832.0	27.35	177.684		
7,300.0	7,290.3	6,439.8	6,322.8	14.0	23.6	-8.35	4,730.8	645.2	4,860.4	4,833.2	27.27	178.220		
7,350.0	7,338.5	7,449.1	7,322.5	14.1	25.2	-5.39	4,835.9	611.5	4,856.3	4,827.8	28.46	170.644		
7,400.0	7,385.5	7,496.0	7,369.5	14.2	25.2	-3.18	4,835.9	611.5	4,839.2	4,811.1	28.08	172.326		
7,450.0	7,430.8	7,541.3	7,414.8	14.3	25.3	-1.69	4,835.9	611.5	4,818.0	4,790.5	27.57	174.781		
7,500.0	7,474.1	7,584.6	7,458.1	14.5	25.3	-0.55	4,835.9	611.5	4,793.0	4,766.1	26.92	178.030		
7,550.0	7,515.0	7,625.5	7,499.0	14.6	25.4	0.41	4,835.9	611.5	4,764.4	4,738.2	26.16	182.097		
7,600.0	7,553.3	7,663.9	7,537.3	14.8	25.4	1.29	4,835.9	611.5	4,732.3	4,707.0	25.31	186.987		
7,650.0	7,588.7	7,699.2	7,572.7	15.0	25.4	2.19	4,835.9	611.5	4,697.0	4,672.6	24.38	192.673		
7,700.0	7,620.9	7,731.4	7,604.9	15.2	25.5	3.17	4,835.9	611.5	4,658.8	4,635.4	23.41	199.048		
7,750.0	7,649.6	7,760.2	7,633.6	15.5	25.5	4.33	4,835.9	611.5	4,617.9	4,595.5	22.43	205.852		
7,800.0	7,674.7	7,785.2	7,658.7	15.8	25.5	5.82	4,835.9	611.5	4,574.7	4,553.2	21.53	212.502		
7,850.0	7,695.9	7,806.4	7,679.9	16.1	25.5	7.89	4,835.9	611.5	4,529.5	4,508.7	20.80	217.729		
7,900.0	7,713.1	7,823.6	7,697.1	16.5	25.6	11.02	4,835.9	611.5	4,482.6	4,462.1	20.50	218.705		
7,950.0	7,726.1	7,836.7	7,710.1	16.9	25.6	16.43	4,835.9	611.5	4,434.5	4,413.3	21.22	208.989		
8,000.0	7,734.9	7,845.4	7,718.9	17.4	25.6	27.75	4,835.9	611.5	4,385.4	4,360.5	24.92	175.945		
8,050.0	7,739.4	7,849.9	7,723.4	17.9	25.6	58.56	4,835.9	611.5	4,335.7	4,299.0	36.68	118.202		
8,076.4	7,740.0	7,850.5	7,724.0	18.2	25.6	90.00	4,835.9	611.5	4,309.4	4,267.6	41.85	102.964		
8,100.0	7,740.0	7,850.5	7,724.0	18.4	25.6	90.00	4,835.9	611.5	4,285.9	4,243.8	42.12	101.747		
8,200.0	7,740.0	7,850.5	7,724.0	19.6	25.6	90.00	4,835.9	611.5	4,186.2	4,142.9	43.33	96.623		
8,300.0	7,740.0	7,850.5	7,724.0	20.8	25.6	90.00	4,835.9	611.5	4,086.5	4,041.9	44.61	91.606		
8,400.0	7,740.0	7,850.5	7,724.0	22.1	25.6	90.00	4,835.9	611.5	3,986.9	3,940.9	45.96	86.743		
8,500.0	7,740.0	7,850.5	7,724.0	23.4	25.6	90.00	4,835.9	611.5	3,887.2	3,839.9	47.37	82.062		
8,600.0	7,740.0	7,850.5	7,724.0	24.8	25.6	90.00	4,835.9	611.5	3,787.6	3,738.8	48.82	77.579		
8,700.0	7,740.0	7,850.5	7,724.0	26.3	25.6	90.00	4,835.9	611.5	3,688.0	3,637.7	50.31	73.300		
8,800.0	7,740.0	7,850.5	7,724.0	27.8	25.6	90.00	4,835.9	611.5	3,588.5	3,536.6	51.84	69.226		
8,900.0	7,740.0	7,850.5	7,724.0	29.3	25.6	90.00	4,835.9	611.5	3,488.9	3,435.5	53.39	65.352		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,000.0	7,740.0	7,850.5	7,724.0	30.8	25.6	90.00	4,835.9	611.5	3,389.4	3,334.4	54.96	61.673	
9,100.0	7,740.0	7,850.5	7,724.0	32.4	25.6	90.00	4,835.9	611.5	3,289.9	3,233.3	56.55	58.178	
9,200.0	7,740.0	7,850.5	7,724.0	33.9	25.6	90.00	4,835.9	611.5	3,190.4	3,132.3	58.16	54.860	
9,300.0	7,740.0	7,850.5	7,724.0	35.5	25.6	90.00	4,835.9	611.5	3,091.0	3,031.2	59.78	51.708	
9,400.0	7,740.0	7,850.5	7,724.0	37.2	25.6	90.00	4,835.9	611.5	2,991.6	2,930.2	61.41	48.714	
9,500.0	7,740.0	7,850.5	7,724.0	38.8	25.6	90.00	4,835.9	611.5	2,892.3	2,829.2	63.06	45.869	
9,600.0	7,740.0	7,850.5	7,724.0	40.4	25.6	90.00	4,835.9	611.5	2,793.0	2,728.3	64.71	43.162	
9,700.0	7,740.0	7,850.5	7,724.0	42.0	25.6	90.00	4,835.9	611.5	2,693.7	2,627.3	66.37	40.586	
9,800.0	7,740.0	7,850.5	7,724.0	43.7	25.6	90.00	4,835.9	611.5	2,594.5	2,526.5	68.04	38.132	
9,900.0	7,740.0	7,850.5	7,724.0	45.4	25.6	90.00	4,835.9	611.5	2,495.4	2,425.7	69.72	35.794	
10,000.0	7,740.0	7,850.5	7,724.0	47.0	25.6	90.00	4,835.9	611.5	2,396.3	2,324.9	71.40	33.563	
10,100.0	7,740.0	7,850.5	7,724.0	48.7	25.6	90.00	4,835.9	611.5	2,297.4	2,224.3	73.08	31.434	
10,200.0	7,740.0	7,850.5	7,724.0	50.4	25.6	90.00	4,835.9	611.5	2,198.5	2,123.7	74.78	29.401	
10,300.0	7,740.0	7,850.5	7,724.0	52.1	25.6	90.00	4,835.9	611.5	2,099.7	2,023.2	76.47	27.458	
10,400.0	7,740.0	7,850.5	7,724.0	53.7	25.6	90.00	4,835.9	611.5	2,001.1	1,922.9	78.17	25.599	
10,500.0	7,740.0	7,850.5	7,724.0	55.4	25.6	90.00	4,835.9	611.5	1,902.6	1,822.7	79.87	23.820	
10,600.0	7,740.0	7,850.5	7,724.0	57.1	25.6	90.00	4,835.9	611.5	1,804.2	1,722.6	81.58	22.116	
10,700.0	7,740.0	7,850.5	7,724.0	58.8	25.6	90.00	4,835.9	611.5	1,706.1	1,622.8	83.29	20.484	
10,800.0	7,740.0	7,850.5	7,724.0	60.5	25.6	90.00	4,835.9	611.5	1,608.1	1,523.1	85.00	18.919	
10,900.0	7,740.0	7,850.5	7,724.0	62.2	25.6	90.00	4,835.9	611.5	1,510.5	1,423.8	86.71	17.419	
11,000.0	7,740.0	7,850.5	7,724.0	63.9	25.6	90.00	4,835.9	611.5	1,413.1	1,324.7	88.43	15.981	
11,100.0	7,740.0	7,850.5	7,724.0	65.7	25.6	90.00	4,835.9	611.5	1,316.2	1,226.1	90.15	14.601	
11,200.0	7,740.0	7,850.5	7,724.0	67.4	25.6	90.00	4,835.9	611.5	1,219.8	1,127.9	91.87	13.278	
11,300.0	7,740.0	7,850.5	7,724.0	69.1	25.6	90.00	4,835.9	611.5	1,124.0	1,030.4	93.59	12.010	
11,400.0	7,740.0	7,850.5	7,724.0	70.8	25.6	90.00	4,835.9	611.5	1,029.0	933.7	95.31	10.796	
11,500.0	7,740.0	7,850.5	7,724.0	72.5	25.6	90.00	4,835.9	611.5	935.0	838.0	97.04	9.636	
11,600.0	7,740.0	7,850.5	7,724.0	74.2	25.6	90.00	4,835.9	611.5	842.4	743.7	98.76	8.530	
11,700.0	7,740.0	7,850.5	7,724.0	76.0	25.6	90.00	4,835.9	611.5	751.8	651.3	100.49	7.481	
11,800.0	7,740.0	7,850.5	7,724.0	77.7	25.6	90.00	4,835.9	611.5	663.8	561.6	102.22	6.494	
11,900.0	7,740.0	7,850.5	7,724.0	79.4	25.6	90.00	4,835.9	611.5	579.7	475.8	103.95	5.577	
12,000.0	7,740.0	7,850.5	7,724.0	81.1	25.6	90.00	4,835.9	611.5	501.5	395.9	105.68	4.746	
12,100.0	7,740.0	7,850.5	7,724.0	82.9	25.6	90.00	4,835.9	611.5	432.4	325.0	107.41	4.026	
12,200.0	7,740.0	7,850.5	7,724.0	84.6	25.6	90.00	4,835.9	611.5	377.4	268.3	109.14	3.458	
12,300.0	7,740.0	7,850.5	7,724.0	86.3	25.6	90.00	4,835.9	611.5	343.4	232.5	110.88	3.097	
12,372.7	7,740.0	7,850.5	7,724.0	87.6	25.6	90.00	4,835.9	611.5	335.6	223.4	112.14	2.992 CC, ES	
12,400.0	7,740.0	7,850.5	7,724.0	88.0	25.6	90.00	4,835.9	611.5	336.7	224.1	112.61	2.990 SF	
12,500.0	7,740.0	7,850.5	7,724.0	89.8	25.6	90.00	4,835.9	611.5	358.9	244.6	114.35	3.139	
12,600.0	7,740.0	7,850.5	7,724.0	91.5	25.6	90.00	4,835.9	611.5	405.3	289.2	116.08	3.491	
12,700.0	7,740.0	7,850.5	7,724.0	93.2	25.6	90.00	4,835.9	611.5	468.7	350.9	117.82	3.978	
12,800.0	7,740.0	7,850.5	7,724.0	95.0	25.6	90.00	4,835.9	611.5	543.3	423.7	119.56	4.544	
12,900.0	7,740.0	7,850.5	7,724.0	96.7	25.6	90.00	4,835.9	611.5	625.0	503.7	121.30	5.153	
13,000.0	7,740.0	7,850.5	7,724.0	98.4	25.6	90.00	4,835.9	611.5	711.4	588.4	123.03	5.782	
13,100.0	7,740.0	7,850.5	7,724.0	100.2	25.6	90.00	4,835.9	611.5	801.0	676.2	124.77	6.419	
13,200.0	7,740.0	7,850.5	7,724.0	101.9	25.6	90.00	4,835.9	611.5	892.7	766.2	126.51	7.057	
13,300.0	7,740.0	7,850.5	7,724.0	103.6	25.6	90.00	4,835.9	611.5	986.1	857.9	128.25	7.689	
13,400.0	7,740.0	7,850.5	7,724.0	105.4	25.6	90.00	4,835.9	611.5	1,080.7	950.7	129.99	8.313	
13,500.0	7,740.0	7,850.5	7,724.0	107.1	25.6	90.00	4,835.9	611.5	1,176.2	1,044.4	131.73	8.928	
13,600.0	7,740.0	7,850.5	7,724.0	108.9	25.6	90.00	4,835.9	611.5	1,272.3	1,138.8	133.48	9.532	
13,700.0	7,740.0	7,850.5	7,724.0	110.6	25.6	90.00	4,835.9	611.5	1,369.0	1,233.8	135.22	10.125	
13,800.0	7,740.0	7,850.5	7,724.0	112.3	25.6	90.00	4,835.9	611.5	1,466.2	1,329.2	136.96	10.705	
13,900.0	7,740.0	7,850.5	7,724.0	114.1	25.6	90.00	4,835.9	611.5	1,563.7	1,425.0	138.70	11.274	
14,000.0	7,740.0	7,850.5	7,724.0	115.8	25.6	90.00	4,835.9	611.5	1,661.5	1,521.1	140.45	11.830	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
14,076.4	7,740.0	7,850.5	7,724.0	117.1	25.6	90.00	4,835.9	611.5	1,736.4	1,594.6	141.78	12.247	
14,100.0	7,740.0	7,850.5	7,724.0	117.6	25.6	90.00	4,835.9	611.5	1,759.6	1,617.4	142.18	12.375	
14,200.0	7,740.0	7,850.5	7,724.0	119.3	25.6	90.00	4,835.9	611.5	1,858.1	1,714.2	143.88	12.914	
14,300.0	7,740.0	7,850.5	7,724.0	121.0	25.6	90.00	4,835.9	611.5	1,957.0	1,811.4	145.54	13.446	
14,338.4	7,740.0	7,850.5	7,724.0	121.7	25.6	90.00	4,835.9	611.5	1,995.1	1,848.9	146.17	13.649	
14,400.0	7,740.0	7,850.5	7,724.0	122.8	25.6	90.00	4,835.9	611.5	2,056.2	1,908.9	147.24	13.964	
14,500.0	7,740.0	7,850.5	7,724.0	124.5	25.6	90.00	4,835.9	611.5	2,155.4	2,006.5	148.99	14.467	
14,600.0	7,740.0	7,850.5	7,724.0	126.2	25.6	90.00	4,835.9	611.5	2,254.8	2,104.1	150.73	14.959	
14,632.3	7,740.0	7,850.5	7,724.0	126.8	25.6	90.00	4,835.9	611.5	2,286.9	2,135.6	151.30	15.115	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	14.78	3,612.2	952.9	3,735.8					
100.0	100.0	653.4	650.1	0.2	1.5	15.27	3,559.4	971.7	3,732.8	3,731.2	1.61	2,312.557		
200.0	200.0	784.2	779.4	0.3	1.9	15.30	3,538.9	968.4	3,717.0	3,714.8	2.20	1,686.865		
300.0	300.0	1,197.8	1,184.4	0.5	3.5	15.30	3,459.6	946.5	3,698.1	3,694.1	3.98	929.496		
400.0	400.0	1,285.0	1,269.0	0.7	3.9	15.31	3,439.0	941.6	3,673.8	3,669.2	4.54	809.489		
500.0	500.0	1,420.1	1,399.9	0.8	4.5	15.31	3,406.9	932.8	3,649.1	3,643.8	5.33	684.630		
600.0	600.0	1,526.4	1,502.8	1.0	5.0	15.29	3,381.4	924.4	3,623.9	3,617.9	6.00	604.442		
700.0	700.0	1,821.9	1,785.7	1.2	6.5	-81.81	3,300.1	899.2	3,593.3	3,589.0	4.37	821.755		
800.0	800.0	1,896.0	1,856.3	1.4	6.9	-82.16	3,278.3	893.5	3,562.5	3,557.9	4.67	762.757		
897.7	897.5	1,937.3	1,895.8	1.6	7.2	-82.49	3,266.4	890.5	3,533.2	3,528.3	4.91	719.242		
900.0	899.9	1,938.3	1,896.7	1.6	7.2	-82.49	3,266.2	890.5	3,532.5	3,527.6	4.92	718.240		
1,000.0	999.7	1,982.0	1,938.7	1.7	7.4	-82.54	3,254.4	887.2	3,503.9	3,498.8	5.18	676.916		
1,100.0	1,099.6	2,067.0	2,020.5	1.9	7.8	-82.64	3,232.7	879.7	3,476.3	3,470.8	5.50	631.819		
1,200.0	1,199.5	2,227.6	2,174.5	2.1	8.6	-82.83	3,189.4	865.6	3,447.0	3,441.0	5.96	578.208		
1,300.0	1,299.3	2,397.9	2,337.0	2.3	9.6	-83.05	3,141.0	849.8	3,416.4	3,410.0	6.44	530.727		
1,400.0	1,399.2	2,482.4	2,417.4	2.5	10.1	-83.17	3,116.4	841.0	3,385.0	3,378.3	6.77	499.903		
1,500.0	1,499.1	2,549.4	2,481.3	2.7	10.4	-83.26	3,097.2	834.5	3,354.2	3,347.1	7.08	473.935		
1,600.0	1,598.9	2,722.9	2,646.3	2.9	11.4	-83.46	3,046.2	819.9	3,323.3	3,315.7	7.57	439.193		
1,700.0	1,698.8	2,838.0	2,755.2	3.1	12.1	-83.59	3,009.9	810.0	3,289.9	3,281.9	7.96	413.449		
1,800.0	1,798.6	2,923.0	2,835.6	3.3	12.6	-83.70	2,983.5	801.8	3,256.9	3,248.6	8.30	392.536		
1,900.0	1,898.5	2,973.8	2,883.8	3.5	12.9	-83.77	2,968.3	797.2	3,224.8	3,216.2	8.58	375.930		
2,000.0	1,998.4	3,062.6	2,968.3	3.7	13.4	-83.87	2,941.9	789.9	3,193.4	3,184.5	8.93	357.753		
2,100.0	2,098.2	3,173.2	3,073.3	3.9	14.0	-84.05	2,909.3	778.6	3,161.7	3,152.4	9.32	339.414		
2,200.0	2,198.1	3,249.8	3,146.1	4.1	14.4	-84.17	2,886.7	770.7	3,130.1	3,120.4	9.65	324.527		
2,300.0	2,298.0	3,377.3	3,267.0	4.2	15.2	-84.39	2,848.7	757.1	3,098.0	3,087.9	10.07	307.643		
2,400.0	2,397.8	3,437.0	3,323.7	4.4	15.5	-84.50	2,831.1	750.6	3,066.2	3,055.8	10.37	295.585		
2,500.0	2,497.7	3,548.4	3,429.5	4.6	16.2	-84.71	2,798.2	738.4	3,034.4	3,023.6	10.77	281.627		
2,600.0	2,597.6	3,608.0	3,486.1	4.8	16.5	-84.82	2,780.9	731.8	3,003.2	2,992.1	11.08	271.014		
2,700.0	2,697.4	3,694.0	3,568.1	5.0	17.0	-85.00	2,756.7	722.3	2,972.8	2,961.4	11.44	259.850		
2,800.0	2,797.3	3,803.3	3,672.3	5.2	17.6	-85.21	2,725.9	710.7	2,942.5	2,930.7	11.84	248.466		
2,900.0	2,897.2	3,901.7	3,765.9	5.4	18.1	-85.37	2,696.9	702.1	2,911.4	2,899.2	12.22	238.292		
3,000.0	2,997.0	3,964.6	3,826.0	5.6	18.5	-85.45	2,678.7	697.4	2,881.1	2,868.6	12.53	229.997		
3,100.0	3,096.9	4,036.0	3,894.3	5.8	18.8	-85.55	2,658.7	692.5	2,851.8	2,839.0	12.85	221.935		
3,200.0	3,196.8	4,150.8	4,004.3	6.0	19.5	-85.71	2,626.7	684.1	2,822.6	2,809.3	13.26	212.910		
3,300.0	3,296.6	4,325.4	4,170.4	6.2	20.5	-86.02	2,575.3	668.5	2,791.5	2,777.7	13.79	202.477		
3,400.0	3,396.5	4,378.0	4,220.3	6.4	20.8	-86.11	2,559.6	663.7	2,760.0	2,745.9	14.08	195.976		
3,500.0	3,496.4	4,439.7	4,279.2	6.6	21.1	-86.22	2,541.9	658.5	2,729.7	2,715.3	14.40	189.599		
3,600.0	3,596.2	4,511.8	4,348.2	6.8	21.5	-86.35	2,521.9	652.6	2,700.6	2,685.8	14.73	183.323		
3,700.0	3,696.1	4,635.0	4,466.2	7.0	22.1	-86.55	2,487.7	643.3	2,671.6	2,656.5	15.16	176.221		
3,800.0	3,796.0	4,709.4	4,537.5	7.2	22.5	-86.65	2,466.5	638.9	2,642.2	2,626.7	15.49	170.620		
3,900.0	3,895.8	4,784.4	4,609.3	7.4	22.9	-86.71	2,445.5	635.9	2,613.6	2,597.8	15.81	165.316		
4,000.0	3,995.7	4,849.7	4,672.1	7.6	23.2	-86.78	2,427.8	633.4	2,585.9	2,569.8	16.12	160.416		
4,100.0	4,095.5	4,892.0	4,712.9	7.8	23.4	-86.83	2,416.8	631.5	2,559.5	2,543.2	16.39	156.153		
4,200.0	4,195.4	4,978.0	4,796.3	8.0	23.8	-86.93	2,396.1	627.7	2,534.7	2,518.0	16.74	151.402		
4,300.0	4,295.3	5,026.8	4,843.9	8.2	24.0	-86.99	2,385.1	625.8	2,511.3	2,494.3	17.02	147.517		
4,400.0	4,395.1	5,097.2	4,912.5	8.4	24.3	-87.06	2,369.8	623.5	2,489.0	2,471.7	17.34	143.513		
4,500.0	4,495.0	5,167.5	4,981.3	8.6	24.6	-87.14	2,355.2	621.4	2,467.9	2,450.2	17.66	139.710		
4,600.0	4,594.9	5,234.0	5,046.4	8.8	24.8	-87.22	2,342.2	619.3	2,447.8	2,429.8	17.98	136.142		
4,700.0	4,694.7	5,298.4	5,109.7	8.9	25.0	-87.29	2,330.3	617.5	2,429.0	2,410.7	18.29	132.805		
4,800.0	4,794.6	5,355.1	5,165.6	9.1	25.2	-87.35	2,320.8	616.3	2,411.8	2,393.2	18.59	129.763		
4,900.0	4,894.5	5,406.0	5,215.9	9.3	25.4	-87.41	2,313.1	615.4	2,396.4	2,377.5	18.87	126.982		
5,000.0	4,994.3	5,464.5	5,273.8	9.5	25.5	-87.47	2,305.3	614.5	2,382.8	2,363.6	19.17	124.280		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
5,100.0	5,094.2	5,521.4	5,330.3	9.7	25.7	-87.54	2,298.8	613.6	2,371.1	2,351.6	19.47	121.768	
5,200.0	5,194.1	5,577.0	5,385.7	9.9	25.8	-87.61	2,293.4	612.8	2,361.0	2,341.3	19.77	119.429	
5,300.0	5,293.9	5,641.3	5,449.8	10.1	25.9	-87.69	2,288.2	611.8	2,352.7	2,332.6	20.09	117.129	
5,400.0	5,393.8	5,706.7	5,515.0	10.3	26.0	-87.79	2,284.1	610.5	2,345.9	2,325.5	20.41	114.955	
5,500.0	5,493.7	5,775.5	5,583.8	10.5	26.1	-87.90	2,280.8	609.0	2,340.5	2,319.8	20.74	112.867	
5,600.0	5,593.5	5,845.9	5,654.0	10.7	26.1	-88.02	2,278.2	607.4	2,336.4	2,315.4	21.07	110.881	
5,700.0	5,693.4	5,919.0	5,727.1	10.9	26.2	-88.15	2,276.5	605.7	2,333.6	2,312.2	21.41	108.987	
5,800.0	5,793.3	5,998.5	5,806.6	11.1	26.3	-88.29	2,275.5	603.8	2,331.8	2,310.1	21.77	107.115	
5,900.0	5,893.1	6,090.0	5,898.1	11.3	26.4	-88.47	2,275.1	601.3	2,330.8	2,308.7	22.15	105.215	
6,000.0	5,993.0	6,188.4	5,996.4	11.5	26.4	-88.66	2,274.9	598.7	2,330.0	2,307.5	22.55	103.340	
6,100.0	6,092.8	6,292.5	6,100.5	11.7	26.5	-88.83	2,274.1	596.8	2,328.9	2,306.0	22.95	101.490	
6,200.0	6,192.7	6,384.2	6,192.3	11.9	26.6	-88.98	2,273.5	595.6	2,328.0	2,304.6	23.32	99.831	
6,300.0	6,292.6	6,474.6	6,282.6	12.1	26.7	-89.11	2,273.1	594.8	2,327.4	2,303.7	23.69	98.251	
6,369.3	6,361.7	6,536.1	6,344.1	12.2	26.7	-89.20	2,273.1	594.2	2,327.3	2,303.3	23.94	97.203	
6,400.0	6,392.4	6,563.3	6,371.3	12.3	26.7	-89.24	2,273.2	594.0	2,327.3	2,303.2	24.06	96.748	
6,500.0	6,492.3	6,659.0	6,467.0	12.5	26.8	-89.39	2,273.7	592.9	2,327.6	2,303.2	24.44	95.247	
6,600.0	6,592.2	6,760.6	6,568.5	12.7	26.9	-89.56	2,274.3	591.6	2,327.9	2,303.1	24.83	93.743	
6,700.0	6,692.0	6,852.5	6,660.5	12.9	27.0	-89.71	2,274.9	590.1	2,328.4	2,303.2	25.21	92.348	
6,800.0	6,791.9	6,946.0	6,753.9	13.1	27.0	-89.88	2,275.9	588.3	2,329.2	2,303.6	25.60	90.994	
6,900.0	6,891.8	7,032.0	6,839.9	13.3	27.1	-90.04	2,277.3	586.5	2,330.5	2,304.6	25.97	89.739	
7,000.0	6,991.6	7,124.1	6,932.0	13.5	27.1	-90.21	2,279.2	584.4	2,332.3	2,306.0	26.36	88.491	
7,100.0	7,091.5	7,295.4	7,103.2	13.7	27.3	-90.57	2,280.3	579.0	2,332.6	2,305.7	26.92	86.656	
7,172.4	7,163.8	7,371.3	7,179.0	13.8	27.4	-90.73	2,279.6	576.3	2,331.7	2,304.5	27.22	85.665	
7,200.0	7,191.4	7,400.2	7,207.9	13.9	27.4	-44.44	2,279.3	575.4	2,330.7	2,303.5	27.25	85.517	
7,250.0	7,241.1	7,452.3	7,260.0	14.0	27.5	-15.00	2,278.7	573.8	2,325.5	2,298.3	27.19	85.525	
7,300.0	7,290.3	7,495.5	7,303.2	14.0	27.5	-6.57	2,278.2	572.6	2,316.0	2,289.0	26.95	85.949	
7,350.0	7,338.5	7,536.5	7,344.1	14.1	27.6	-2.71	2,277.9	571.6	2,302.4	2,275.9	26.54	86.753	
7,400.0	7,385.5	7,576.4	7,384.0	14.2	27.6	-0.42	2,277.6	570.7	2,284.9	2,258.9	25.98	87.943	
7,450.0	7,430.8	7,615.0	7,422.6	14.3	27.6	1.19	2,277.5	570.0	2,263.6	2,238.3	25.28	89.535	
7,500.0	7,474.1	7,652.9	7,460.6	14.5	27.7	2.48	2,277.5	569.4	2,238.5	2,214.0	24.45	91.539	
7,550.0	7,515.0	7,689.7	7,497.3	14.6	27.7	3.65	2,277.5	568.9	2,209.9	2,186.3	23.52	93.954	
7,600.0	7,553.3	7,724.2	7,531.8	14.8	27.7	4.81	2,277.6	568.5	2,177.9	2,155.4	22.51	96.748	
7,650.0	7,588.7	7,756.2	7,563.8	15.0	27.7	6.07	2,277.8	568.2	2,142.8	2,121.3	21.47	99.808	
7,700.0	7,620.9	7,785.4	7,593.0	15.2	27.8	7.54	2,277.9	568.0	2,104.8	2,084.3	20.46	102.856	
7,750.0	7,649.6	7,811.9	7,619.6	15.5	27.8	9.35	2,278.1	567.9	2,064.2	2,044.6	19.61	105.277	
7,800.0	7,674.7	7,835.8	7,643.5	15.8	27.8	11.74	2,278.3	567.8	2,021.4	2,002.3	19.09	105.889	
7,850.0	7,695.9	7,856.2	7,663.8	16.1	27.8	15.06	2,278.5	567.7	1,976.5	1,957.3	19.23	102.800	
7,900.0	7,713.1	7,872.8	7,680.4	16.5	27.8	20.01	2,278.6	567.6	1,930.0	1,909.4	20.56	93.872	
7,950.0	7,726.1	7,885.5	7,693.1	16.9	27.8	28.03	2,278.7	567.6	1,882.2	1,858.2	24.02	78.374	
8,000.0	7,734.9	7,894.3	7,701.9	17.4	27.8	42.26	2,278.8	567.6	1,833.4	1,802.4	31.00	59.147	
8,050.0	7,739.4	7,899.0	7,706.6	17.9	27.8	68.00	2,278.9	567.5	1,784.1	1,743.2	40.90	43.620	
8,076.4	7,740.0	7,899.8	7,707.4	18.2	27.8	86.16	2,278.9	567.5	1,758.0	1,714.1	43.88	40.062	
8,100.0	7,740.0	7,900.0	7,707.6	18.4	27.8	86.21	2,278.9	567.5	1,734.6	1,690.5	44.15	39.288	
8,200.0	7,740.0	7,901.0	7,708.6	19.6	27.8	86.43	2,278.9	567.5	1,635.7	1,590.4	45.36	36.061	
8,300.0	7,740.0	7,901.9	7,709.6	20.8	27.8	86.65	2,278.9	567.5	1,537.0	1,490.3	46.65	32.946	
8,400.0	7,740.0	7,902.9	7,710.5	22.1	27.9	86.87	2,278.9	567.5	1,438.3	1,390.3	48.01	29.960	
8,500.0	7,740.0	7,903.9	7,711.5	23.4	27.9	87.10	2,278.9	567.5	1,339.9	1,290.5	49.42	27.112	
8,600.0	7,740.0	7,904.8	7,712.4	24.8	27.9	87.32	2,278.9	567.5	1,241.8	1,190.9	50.88	24.405	
8,700.0	7,740.0	7,905.8	7,713.4	26.3	27.9	87.55	2,278.9	567.5	1,144.0	1,091.6	52.38	21.840	
8,800.0	7,740.0	7,906.8	7,714.4	27.8	27.9	87.77	2,278.9	567.5	1,046.6	992.7	53.91	19.413	
8,900.0	7,740.0	7,907.8	7,715.4	29.3	27.9	88.00	2,279.0	567.5	949.7	894.2	55.47	17.122	
9,000.0	7,740.0	7,908.8	7,716.4	30.8	27.9	88.23	2,279.0	567.5	853.5	796.5	57.04	14.963	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,740.0	7,909.8	7,717.4	32.4	27.9	88.46	2,279.0	567.5	758.4	699.7	58.64	12.932	
9,200.0	7,740.0	7,910.8	7,718.4	33.9	27.9	88.70	2,279.0	567.5	664.6	604.4	60.25	11.030	
9,300.0	7,740.0	7,911.8	7,719.4	35.5	27.9	88.93	2,279.0	567.5	573.0	511.1	61.88	9.260	
9,400.0	7,740.0	7,912.8	7,720.4	37.2	27.9	89.17	2,279.0	567.5	484.7	421.2	63.52	7.630	
9,500.0	7,740.0	7,913.8	7,721.4	38.8	27.9	89.40	2,279.0	567.5	401.9	336.7	65.17	6.167	
9,600.0	7,740.0	7,914.8	7,722.5	40.4	27.9	89.64	2,279.0	567.5	328.8	262.0	66.82	4.920	
9,700.0	7,740.0	7,915.9	7,723.5	42.0	27.9	89.88	2,279.0	567.5	273.3	204.8	68.49	3.990	
9,800.0	7,740.0	7,916.9	7,724.5	43.7	27.9	90.12	2,279.0	567.5	247.5	177.4	70.16	3.528	
9,817.1	7,740.0	7,917.1	7,724.7	44.0	27.9	90.16	2,279.0	567.5	246.9	176.5	70.44	3.506	CC, ES, SF
9,900.0	7,740.0	7,918.0	7,725.6	45.4	27.9	90.36	2,279.1	567.5	260.5	188.7	71.83	3.626	
10,000.0	7,740.0	7,919.0	7,726.6	47.0	27.9	90.61	2,279.1	567.5	307.3	233.8	73.51	4.180	
10,100.0	7,740.0	7,920.1	7,727.7	48.7	27.9	90.85	2,279.1	567.5	375.5	300.3	75.20	4.994	
10,200.0	7,740.0	7,921.1	7,728.7	50.4	27.9	91.10	2,279.1	567.5	455.6	378.8	76.88	5.926	
10,300.0	7,740.0	7,922.2	7,729.8	52.1	27.9	91.34	2,279.1	567.5	542.4	463.8	78.57	6.903	
10,400.0	7,740.0	7,923.3	7,730.9	53.7	27.9	91.59	2,279.1	567.5	633.1	552.8	80.27	7.887	
10,500.0	7,740.0	7,924.3	7,732.0	55.4	27.9	91.84	2,279.1	567.5	726.2	644.2	81.96	8.860	
10,600.0	7,740.0	7,925.4	7,733.0	57.1	27.9	92.10	2,279.1	567.5	820.9	737.3	83.66	9.813	
10,700.0	7,740.0	7,926.5	7,734.1	58.8	27.9	92.35	2,279.1	567.5	916.8	831.4	85.35	10.741	
10,800.0	7,740.0	7,927.6	7,735.2	60.5	27.9	92.60	2,279.2	567.5	1,013.4	926.4	87.05	11.642	
10,900.0	7,740.0	7,928.7	7,736.3	62.2	27.9	92.86	2,279.2	567.4	1,110.7	1,021.9	88.74	12.516	
11,000.0	7,740.0	7,929.8	7,737.4	63.9	27.9	93.12	2,279.2	567.4	1,208.4	1,117.9	90.44	13.361	
11,100.0	7,740.0	7,931.0	7,738.6	65.7	27.9	93.38	2,279.2	567.4	1,306.4	1,214.3	92.13	14.180	
11,200.0	7,740.0	7,932.1	7,739.7	67.4	27.9	93.64	2,279.2	567.4	1,404.7	1,310.9	93.83	14.971	
11,300.0	7,740.0	7,933.2	7,740.8	69.1	27.9	93.90	2,279.2	567.4	1,503.3	1,407.8	95.52	15.738	
11,400.0	7,740.0	7,934.4	7,742.0	70.8	27.9	94.16	2,279.2	567.4	1,602.0	1,504.8	97.21	16.479	
11,500.0	7,740.0	7,935.5	7,743.1	72.5	27.9	94.42	2,279.2	567.4	1,700.9	1,602.0	98.90	17.197	
11,600.0	7,740.0	7,936.6	7,744.3	74.2	27.9	94.69	2,279.3	567.4	1,799.9	1,699.3	100.59	17.893	
11,700.0	7,740.0	7,937.8	7,745.4	76.0	27.9	94.96	2,279.3	567.4	1,899.0	1,796.7	102.28	18.567	
11,800.0	7,740.0	7,939.0	7,746.6	77.7	27.9	95.23	2,279.3	567.4	1,998.1	1,894.2	103.96	19.220	
11,900.0	7,740.0	7,940.1	7,747.8	79.4	27.9	95.50	2,279.3	567.4	2,097.4	1,991.8	105.64	19.854	
12,000.0	7,740.0	7,941.3	7,748.9	81.1	27.9	95.77	2,279.3	567.4	2,196.7	2,089.4	107.32	20.469	
12,100.0	7,740.0	7,942.5	7,750.1	82.9	27.9	96.04	2,279.3	567.4	2,296.1	2,187.1	108.99	21.067	
12,200.0	7,740.0	7,943.7	7,751.3	84.6	27.9	96.31	2,279.3	567.4	2,395.6	2,284.9	110.66	21.647	
12,300.0	7,740.0	7,944.9	7,752.5	86.3	27.9	96.59	2,279.3	567.4	2,495.0	2,382.7	112.33	22.211	
12,400.0	7,740.0	7,946.1	7,753.7	88.0	27.9	96.87	2,279.4	567.4	2,594.6	2,480.6	113.99	22.760	
12,500.0	7,740.0	7,947.3	7,754.9	89.8	27.9	97.15	2,279.4	567.4	2,694.1	2,578.5	115.65	23.295	
12,600.0	7,740.0	7,948.6	7,756.2	91.5	27.9	97.42	2,279.4	567.4	2,793.7	2,676.4	117.31	23.815	
12,700.0	7,740.0	7,949.8	7,757.4	93.2	27.9	97.71	2,279.4	567.4	2,893.3	2,774.4	118.96	24.322	
12,800.0	7,740.0	7,951.0	7,758.6	95.0	27.9	97.99	2,279.4	567.4	2,993.0	2,872.4	120.61	24.816	
12,900.0	7,740.0	7,952.3	7,759.9	96.7	27.9	98.27	2,279.4	567.4	3,092.6	2,970.4	122.25	25.298	
13,000.0	7,740.0	7,953.5	7,761.1	98.4	27.9	98.56	2,279.4	567.4	3,192.3	3,068.4	123.88	25.768	
13,100.0	7,740.0	7,954.8	7,762.4	100.2	27.9	98.84	2,279.5	567.4	3,292.0	3,166.5	125.52	26.228	
13,200.0	7,740.0	7,956.1	7,763.7	101.9	27.9	99.13	2,279.5	567.4	3,391.7	3,264.6	127.14	26.677	
13,300.0	7,740.0	7,957.4	7,765.0	103.6	27.9	99.42	2,279.5	567.4	3,491.5	3,362.7	128.76	27.116	
13,400.0	7,740.0	7,958.6	7,766.2	105.4	27.9	99.71	2,279.5	567.4	3,591.2	3,460.8	130.37	27.545	
13,500.0	7,740.0	7,959.9	7,767.5	107.1	27.9	100.00	2,279.5	567.4	3,691.0	3,559.0	131.98	27.966	
13,600.0	7,740.0	7,961.2	7,768.8	108.9	27.9	100.30	2,279.5	567.4	3,790.8	3,657.2	133.58	28.378	
13,700.0	7,740.0	7,962.5	7,770.2	110.6	27.9	100.59	2,279.5	567.4	3,890.5	3,755.4	135.18	28.781	
13,800.0	7,740.0	7,963.9	7,771.5	112.3	27.9	100.89	2,279.6	567.4	3,990.3	3,853.6	136.77	29.177	
13,900.0	7,740.0	7,965.2	7,772.8	114.1	27.9	101.18	2,279.6	567.4	4,090.1	3,951.8	138.35	29.565	
14,000.0	7,740.0	7,966.5	7,774.1	115.8	27.9	101.48	2,279.6	567.4	4,190.0	4,050.0	139.92	29.946	
14,076.4	7,740.0	7,967.6	7,775.2	117.1	27.9	101.71	2,279.6	567.4	4,266.2	4,125.1	141.12	30.232	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft
Survey Program:													76-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
14,100.0	7,740.0	7,967.9	7,775.5	117.6	27.9	102.66	2,279.6	567.4	4,289.8	4,148.8	140.99	30.426					
14,200.0	7,740.0	7,969.2	7,776.8	119.3	27.9	108.99	2,279.6	567.4	4,389.7	4,251.4	138.31	31.739					
14,300.0	7,740.0	7,970.6	7,778.2	121.0	27.9	125.46	2,279.6	567.3	4,489.6	4,368.2	121.48	36.958					
14,338.4	7,740.0	7,971.1	7,778.7	121.7	27.9	140.04	2,279.7	567.3	4,528.1	4,429.9	98.21	46.107					
14,400.0	7,740.0	7,972.0	7,779.6	122.8	27.9	140.48	2,279.7	567.3	4,589.6	4,491.5	98.10	46.784					
14,500.0	7,740.0	7,973.4	7,781.0	124.5	27.9	141.17	2,279.7	567.3	4,689.6	4,591.7	97.92	47.891					
14,600.0	7,740.0	7,974.7	7,782.3	126.2	27.9	141.83	2,279.7	567.3	4,789.6	4,691.8	97.76	48.992					
14,632.3	7,740.0	7,975.2	7,782.8	126.8	27.9	142.03	2,279.7	567.3	4,821.9	4,724.2	97.72	49.345					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
8,600.0	7,740.0	7,693.0	7,693.0	24.8	13.4	90.00	6,293.6	701.2	5,248.1	5,210.6	37.45	140.145		
8,700.0	7,740.0	7,693.0	7,693.0	26.3	13.4	90.00	6,293.6	701.2	5,148.5	5,109.5	38.94	132.220		
8,800.0	7,740.0	7,693.0	7,693.0	27.8	13.4	90.00	6,293.6	701.2	5,048.9	5,008.4	40.46	124.782		
8,900.0	7,740.0	7,693.0	7,693.0	29.3	13.4	90.00	6,293.6	701.2	4,949.3	4,907.2	42.01	117.809		
9,000.0	7,740.0	7,693.0	7,693.0	30.8	13.4	90.00	6,293.6	701.2	4,849.7	4,806.1	43.58	111.276		
9,100.0	7,740.0	7,693.0	7,693.0	32.4	13.4	90.00	6,293.6	701.2	4,750.1	4,705.0	45.17	105.153		
9,200.0	7,740.0	7,693.0	7,693.0	33.9	13.4	90.00	6,293.6	701.2	4,650.6	4,603.8	46.78	99.412		
9,300.0	7,740.0	7,693.0	7,693.0	35.5	13.4	90.00	6,293.6	701.2	4,551.1	4,502.7	48.40	94.026		
9,400.0	7,740.0	7,693.0	7,693.0	37.2	13.4	90.00	6,293.6	701.2	4,451.6	4,401.5	50.04	88.968		
9,500.0	7,740.0	7,693.0	7,693.0	38.8	13.4	90.00	6,293.6	701.2	4,352.1	4,300.4	51.68	84.212		
9,600.0	7,740.0	7,693.0	7,693.0	40.4	13.4	90.00	6,293.6	701.2	4,252.6	4,199.3	53.33	79.736		
9,700.0	7,740.0	7,693.0	7,693.0	42.0	13.4	90.00	6,293.6	701.2	4,153.2	4,098.2	55.00	75.519		
9,800.0	7,740.0	7,693.0	7,693.0	43.7	13.4	90.00	6,293.6	701.2	4,053.8	3,997.2	56.67	71.540		
9,900.0	7,740.0	7,693.0	7,693.0	45.4	13.4	90.00	6,293.6	701.2	3,954.5	3,896.1	58.34	67.782		
10,000.0	7,740.0	7,693.0	7,693.0	47.0	13.4	90.00	6,293.6	701.2	3,855.1	3,795.1	60.02	64.228		
10,100.0	7,740.0	7,693.0	7,693.0	48.7	13.4	90.00	6,293.6	701.2	3,755.8	3,694.1	61.71	60.863		
10,200.0	7,740.0	7,693.0	7,693.0	50.4	13.4	90.00	6,293.6	701.2	3,656.6	3,593.2	63.40	57.674		
10,300.0	7,740.0	7,693.0	7,693.0	52.1	13.4	90.00	6,293.6	701.2	3,557.4	3,492.3	65.10	54.648		
10,400.0	7,740.0	7,693.0	7,693.0	53.7	13.4	90.00	6,293.6	701.2	3,458.2	3,391.4	66.80	51.773		
10,500.0	7,740.0	7,693.0	7,693.0	55.4	13.4	90.00	6,293.6	701.2	3,359.1	3,290.6	68.50	49.039		
10,600.0	7,740.0	7,693.0	7,693.0	57.1	13.4	90.00	6,293.6	701.2	3,260.0	3,189.8	70.20	46.436		
10,700.0	7,740.0	7,693.0	7,693.0	58.8	13.4	90.00	6,293.6	701.2	3,161.0	3,089.1	71.91	43.956		
10,800.0	7,740.0	7,693.0	7,693.0	60.5	13.4	90.00	6,293.6	701.2	3,062.0	2,988.4	73.62	41.590		
10,900.0	7,740.0	7,693.0	7,693.0	62.2	13.4	90.00	6,293.6	701.2	2,963.2	2,887.8	75.34	39.332		
11,000.0	7,740.0	7,693.0	7,693.0	63.9	13.4	90.00	6,293.6	701.2	2,864.4	2,787.3	77.05	37.173		
11,100.0	7,740.0	7,693.0	7,693.0	65.7	13.4	90.00	6,293.6	701.2	2,765.7	2,686.9	78.77	35.110		
11,200.0	7,740.0	7,693.0	7,693.0	67.4	13.4	90.00	6,293.6	701.2	2,667.1	2,586.6	80.49	33.134		
11,300.0	7,740.0	7,693.0	7,693.0	69.1	13.4	90.00	6,293.6	701.2	2,568.5	2,486.3	82.21	31.242		
11,400.0	7,740.0	7,693.0	7,693.0	70.8	13.4	90.00	6,293.6	701.2	2,470.2	2,386.2	83.94	29.429		
11,500.0	7,740.0	7,693.0	7,693.0	72.5	13.4	90.00	6,293.6	701.2	2,371.9	2,286.2	85.66	27.689		
11,600.0	7,740.0	7,693.0	7,693.0	74.2	13.4	90.00	6,293.6	701.2	2,273.8	2,186.4	87.39	26.020		
11,700.0	7,740.0	7,693.0	7,693.0	76.0	13.4	90.00	6,293.6	701.2	2,175.9	2,086.8	89.12	24.416		
11,800.0	7,740.0	7,693.0	7,693.0	77.7	13.4	90.00	6,293.6	701.2	2,078.2	1,987.3	90.84	22.876		
11,900.0	7,740.0	7,693.0	7,693.0	79.4	13.4	90.00	6,293.6	701.2	1,980.7	1,888.1	92.57	21.395		
12,000.0	7,740.0	7,693.0	7,693.0	81.1	13.4	90.00	6,293.6	701.2	1,883.4	1,789.1	94.30	19.972		
12,100.0	7,740.0	7,693.0	7,693.0	82.9	13.4	90.00	6,293.6	701.2	1,786.5	1,690.4	96.04	18.602		
12,200.0	7,740.0	7,693.0	7,693.0	84.6	13.4	90.00	6,293.6	701.2	1,689.9	1,592.1	97.77	17.285		
12,300.0	7,740.0	7,693.0	7,693.0	86.3	13.4	90.00	6,293.6	701.2	1,593.8	1,494.2	99.50	16.017		
12,400.0	7,740.0	7,693.0	7,693.0	88.0	13.4	90.00	6,293.6	701.2	1,498.1	1,396.9	101.24	14.798		
12,500.0	7,740.0	7,693.0	7,693.0	89.8	13.4	90.00	6,293.6	701.2	1,403.1	1,300.1	102.97	13.625		
12,600.0	7,740.0	7,693.0	7,693.0	91.5	13.4	90.00	6,293.6	701.2	1,308.8	1,204.0	104.71	12.499		
12,700.0	7,740.0	7,693.0	7,693.0	93.2	13.4	90.00	6,293.6	701.2	1,215.4	1,108.9	106.45	11.418		
12,800.0	7,740.0	7,693.0	7,693.0	95.0	13.4	90.00	6,293.6	701.2	1,123.1	1,014.9	108.18	10.381		
12,900.0	7,740.0	7,693.0	7,693.0	96.7	13.4	90.00	6,293.6	701.2	1,032.3	922.4	109.92	9.391		
13,000.0	7,740.0	7,693.0	7,693.0	98.4	13.4	90.00	6,293.6	701.2	943.3	831.7	111.66	8.448		
13,100.0	7,740.0	7,693.0	7,693.0	100.2	13.4	90.00	6,293.6	701.2	856.8	743.4	113.40	7.556		
13,200.0	7,740.0	7,693.0	7,693.0	101.9	13.4	90.00	6,293.6	701.2	773.6	658.4	115.14	6.719		
13,300.0	7,740.0	7,693.0	7,693.0	103.6	13.4	90.00	6,293.6	701.2	694.7	577.9	116.88	5.944		
13,400.0	7,740.0	7,693.0	7,693.0	105.4	13.4	90.00	6,293.6	701.2	622.0	503.4	118.62	5.244		
13,500.0	7,740.0	7,693.0	7,693.0	107.1	13.4	90.00	6,293.6	701.2	557.8	437.5	120.36	4.635		
13,600.0	7,740.0	7,693.0	7,693.0	108.9	13.4	90.00	6,293.6	701.2	505.4	383.3	122.10	4.139		
13,700.0	7,740.0	7,693.0	7,693.0	110.6	13.4	90.00	6,293.6	701.2	468.7	344.9	123.84	3.785		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
13,800.0	7,740.0	7,693.0	7,693.0	112.3	13.4	90.00	6,293.6	701.2	451.6	326.0	125.58	3.596	
13,828.7	7,740.0	7,693.0	7,693.0	112.8	13.4	90.00	6,293.6	701.2	450.7	324.6	126.08	3.575 CC, ES, SF	
13,900.0	7,740.0	7,693.0	7,693.0	114.1	13.4	90.00	6,293.6	701.2	456.3	329.0	127.33	3.584	
14,000.0	7,740.0	7,693.0	7,693.0	115.8	13.4	90.00	6,293.6	701.2	482.2	353.1	129.07	3.736	
14,076.4	7,740.0	7,693.0	7,693.0	117.1	13.4	90.00	6,293.6	701.2	514.3	383.9	130.40	3.944	
14,100.0	7,740.0	7,693.0	7,693.0	117.6	13.4	90.00	6,293.6	701.2	526.1	395.3	130.79	4.023	
14,200.0	7,740.0	7,693.0	7,693.0	119.3	13.4	90.00	6,293.6	701.2	585.0	452.6	132.40	4.418	
14,300.0	7,740.0	7,693.0	7,693.0	121.0	13.4	90.00	6,293.6	701.2	655.1	521.1	133.97	4.890	
14,338.4	7,740.0	7,693.0	7,693.0	121.7	13.4	90.00	6,293.6	701.2	684.3	549.8	134.57	5.085	
14,400.0	7,740.0	7,693.0	7,693.0	122.8	13.4	90.00	6,293.6	701.2	733.0	597.4	135.65	5.404	
14,500.0	7,740.0	7,693.0	7,693.0	124.5	13.4	90.00	6,293.6	701.2	815.9	678.5	137.39	5.938	
14,600.0	7,740.0	7,693.0	7,693.0	126.2	13.4	90.00	6,293.6	701.2	902.2	763.1	139.14	6.484	
14,632.3	7,740.0	7,693.0	7,693.0	126.8	13.4	90.00	6,293.6	701.2	930.7	791.0	139.70	6.662	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
7,800.0	7,674.7	7,631.7	7,631.7	15.8	13.3	-7.72	5,530.8	71.9	5,269.8	5,250.2	19.55	269.489	
7,850.0	7,695.9	7,652.9	7,652.9	16.1	13.4	-8.55	5,530.8	71.9	5,224.6	5,205.8	18.79	278.123	
7,900.0	7,713.1	7,670.1	7,670.1	16.5	13.4	-9.97	5,530.8	71.9	5,177.7	5,159.5	18.18	284.804	
7,950.0	7,726.1	7,683.1	7,683.1	16.9	13.4	-12.60	5,530.8	71.9	5,129.5	5,111.6	17.89	286.801	
8,000.0	7,734.9	7,691.9	7,691.9	17.4	13.4	-18.58	5,530.8	71.9	5,080.4	5,062.0	18.39	276.212	
8,050.0	7,739.4	7,696.4	7,696.4	17.9	13.4	-41.37	5,530.8	71.9	5,030.6	5,007.3	23.33	215.594	
8,076.4	7,740.0	7,697.0	7,697.0	18.2	13.4	-90.00	5,530.8	71.9	5,004.3	4,973.8	30.49	164.154	
8,100.0	7,740.0	7,697.0	7,697.0	18.4	13.4	-90.00	5,530.8	71.9	4,980.7	4,949.9	30.75	161.948	
8,200.0	7,740.0	7,697.0	7,697.0	19.6	13.4	-90.00	5,530.8	71.9	4,880.8	4,848.8	31.96	152.730	
8,300.0	7,740.0	7,697.0	7,697.0	20.8	13.4	-90.00	5,530.8	71.9	4,780.8	4,747.6	33.24	143.822	
8,400.0	7,740.0	7,697.0	7,697.0	22.1	13.4	-90.00	5,530.8	71.9	4,680.9	4,646.3	34.59	135.312	
8,500.0	7,740.0	7,697.0	7,697.0	23.4	13.4	-90.00	5,530.8	71.9	4,581.0	4,545.0	36.00	127.246	
8,600.0	7,740.0	7,697.0	7,697.0	24.8	13.4	-90.00	5,530.8	71.9	4,481.1	4,443.6	37.45	119.641	
8,700.0	7,740.0	7,697.0	7,697.0	26.3	13.4	-90.00	5,530.8	71.9	4,381.2	4,342.2	38.95	112.495	
8,800.0	7,740.0	7,697.0	7,697.0	27.8	13.4	-90.00	5,530.8	71.9	4,281.3	4,240.8	40.47	105.793	
8,900.0	7,740.0	7,697.0	7,697.0	29.3	13.4	-90.00	5,530.8	71.9	4,181.4	4,139.4	42.02	99.515	
9,000.0	7,740.0	7,697.0	7,697.0	30.8	13.4	-90.00	5,530.8	71.9	4,081.5	4,037.9	43.59	93.635	
9,100.0	7,740.0	7,697.0	7,697.0	32.4	13.4	-90.00	5,530.8	71.9	3,981.6	3,936.4	45.18	88.127	
9,200.0	7,740.0	7,697.0	7,697.0	33.9	13.4	-90.00	5,530.8	71.9	3,881.7	3,834.9	46.79	82.965	
9,300.0	7,740.0	7,697.0	7,697.0	35.5	13.4	-90.00	5,530.8	71.9	3,781.9	3,733.4	48.41	78.123	
9,400.0	7,740.0	7,697.0	7,697.0	37.2	13.4	-90.00	5,530.8	71.9	3,682.0	3,631.9	50.04	73.577	
9,500.0	7,740.0	7,697.0	7,697.0	38.8	13.4	-90.00	5,530.8	71.9	3,582.1	3,530.4	51.69	69.304	
9,600.0	7,740.0	7,697.0	7,697.0	40.4	13.4	-90.00	5,530.8	71.9	3,482.3	3,428.9	53.34	65.283	
9,700.0	7,740.0	7,697.0	7,697.0	42.0	13.4	-90.00	5,530.8	71.9	3,382.4	3,327.4	55.00	61.496	
9,800.0	7,740.0	7,697.0	7,697.0	43.7	13.4	-90.00	5,530.8	71.9	3,282.6	3,225.9	56.67	57.923	
9,900.0	7,740.0	7,697.0	7,697.0	45.4	13.4	-90.00	5,530.8	71.9	3,182.8	3,124.4	58.35	54.548	
10,000.0	7,740.0	7,697.0	7,697.0	47.0	13.4	-90.00	5,530.8	71.9	3,083.0	3,022.9	60.03	51.358	
10,100.0	7,740.0	7,697.0	7,697.0	48.7	13.4	-90.00	5,530.8	71.9	2,983.2	2,921.4	61.72	48.337	
10,200.0	7,740.0	7,697.0	7,697.0	50.4	13.4	-90.00	5,530.8	71.9	2,883.4	2,820.0	63.41	45.474	
10,300.0	7,740.0	7,697.0	7,697.0	52.1	13.4	-90.00	5,530.8	71.9	2,783.6	2,718.5	65.10	42.757	
10,400.0	7,740.0	7,697.0	7,697.0	53.7	13.4	-90.00	5,530.8	71.9	2,683.9	2,617.1	66.80	40.176	
10,500.0	7,740.0	7,697.0	7,697.0	55.4	13.4	-90.00	5,530.8	71.9	2,584.1	2,515.6	68.51	37.721	
10,600.0	7,740.0	7,697.0	7,697.0	57.1	13.4	-90.00	5,530.8	71.9	2,484.4	2,414.2	70.21	35.385	
10,700.0	7,740.0	7,697.0	7,697.0	58.8	13.4	-90.00	5,530.8	71.9	2,384.7	2,312.8	71.92	33.158	
10,800.0	7,740.0	7,697.0	7,697.0	60.5	13.4	-90.00	5,530.8	71.9	2,285.1	2,211.4	73.63	31.034	
10,900.0	7,740.0	7,697.0	7,697.0	62.2	13.4	-90.00	5,530.8	71.9	2,185.4	2,110.1	75.35	29.005	
11,000.0	7,740.0	7,697.0	7,697.0	63.9	13.4	-90.00	5,530.8	71.9	2,085.8	2,008.8	77.06	27.067	
11,100.0	7,740.0	7,697.0	7,697.0	65.7	13.4	-90.00	5,530.8	71.9	1,986.3	1,907.5	78.78	25.213	
11,200.0	7,740.0	7,697.0	7,697.0	67.4	13.4	-90.00	5,530.8	71.9	1,886.8	1,806.3	80.50	23.438	
11,300.0	7,740.0	7,697.0	7,697.0	69.1	13.4	-90.00	5,530.8	71.9	1,787.3	1,705.1	82.22	21.738	
11,400.0	7,740.0	7,697.0	7,697.0	70.8	13.4	-90.00	5,530.8	71.9	1,687.9	1,604.0	83.94	20.108	
11,500.0	7,740.0	7,697.0	7,697.0	72.5	13.4	-90.00	5,530.8	71.9	1,588.6	1,502.9	85.67	18.544	
11,600.0	7,740.0	7,697.0	7,697.0	74.2	13.4	-90.00	5,530.8	71.9	1,489.4	1,402.0	87.40	17.042	
11,700.0	7,740.0	7,697.0	7,697.0	76.0	13.4	-90.00	5,530.8	71.9	1,390.3	1,301.2	89.12	15.600	
11,800.0	7,740.0	7,697.0	7,697.0	77.7	13.4	-90.00	5,530.8	71.9	1,291.3	1,200.5	90.85	14.213	
11,900.0	7,740.0	7,697.0	7,697.0	79.4	13.4	-90.00	5,530.8	71.9	1,192.5	1,099.9	92.58	12.881	
12,000.0	7,740.0	7,697.0	7,697.0	81.1	13.4	-90.00	5,530.8	71.9	1,093.9	999.6	94.31	11.599	
12,100.0	7,740.0	7,697.0	7,697.0	82.9	13.4	-90.00	5,530.8	71.9	995.6	899.6	96.04	10.367	
12,200.0	7,740.0	7,697.0	7,697.0	84.6	13.4	-90.00	5,530.8	71.9	897.7	799.9	97.78	9.181	
12,300.0	7,740.0	7,697.0	7,697.0	86.3	13.4	-90.00	5,530.8	71.9	800.3	700.8	99.51	8.043	
12,400.0	7,740.0	7,697.0	7,697.0	88.0	13.4	-90.00	5,530.8	71.9	703.6	602.4	101.24	6.950	
12,500.0	7,740.0	7,697.0	7,697.0	89.8	13.4	-90.00	5,530.8	71.9	608.0	505.1	102.98	5.904	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	91.5	13.4	-90.00	5,530.8	71.9	514.1	409.4	104.72	4.910		
12,700.0	7,740.0	7,697.0	7,697.0	93.2	13.4	-90.00	5,530.8	71.9	423.0	316.5	106.45	3.973		
12,800.0	7,740.0	7,697.0	7,697.0	95.0	13.4	-90.00	5,530.8	71.9	336.9	228.7	108.19	3.114		
12,900.0	7,740.0	7,697.0	7,697.0	96.7	13.4	-90.00	5,530.8	71.9	261.0	151.1	109.93	2.374		
13,000.0	7,740.0	7,697.0	7,697.0	98.4	13.4	-90.00	5,530.8	71.9	206.7	95.0	111.67	1.851		
13,077.0	7,740.0	7,697.0	7,697.0	99.8	13.4	-90.00	5,530.8	71.9	191.8	78.8	113.01	1.697 CC, ES, SF		
13,100.0	7,740.0	7,697.0	7,697.0	100.2	13.4	-90.00	5,530.8	71.9	193.2	79.8	113.41	1.703		
13,200.0	7,740.0	7,697.0	7,697.0	101.9	13.4	-90.00	5,530.8	71.9	227.9	112.7	115.14	1.979		
13,300.0	7,740.0	7,697.0	7,697.0	103.6	13.4	-90.00	5,530.8	71.9	294.1	177.3	116.88	2.517		
13,400.0	7,740.0	7,697.0	7,697.0	105.4	13.4	-90.00	5,530.8	71.9	375.7	257.0	118.63	3.167		
13,500.0	7,740.0	7,697.0	7,697.0	107.1	13.4	-90.00	5,530.8	71.9	464.5	344.1	120.37	3.859		
13,600.0	7,740.0	7,697.0	7,697.0	108.9	13.4	-90.00	5,530.8	71.9	557.1	435.0	122.11	4.562		
13,700.0	7,740.0	7,697.0	7,697.0	110.6	13.4	-90.00	5,530.8	71.9	651.9	528.0	123.85	5.263		
13,800.0	7,740.0	7,697.0	7,697.0	112.3	13.4	-90.00	5,530.8	71.9	748.0	622.4	125.59	5.956		
13,900.0	7,740.0	7,697.0	7,697.0	114.1	13.4	-90.00	5,530.8	71.9	845.1	717.7	127.33	6.637		
14,000.0	7,740.0	7,697.0	7,697.0	115.8	13.4	-90.00	5,530.8	71.9	942.7	813.6	129.08	7.304		
14,076.4	7,740.0	7,697.0	7,697.0	117.1	13.4	-90.00	5,530.8	71.9	1,017.7	887.2	130.41	7.804		
14,100.0	7,740.0	7,697.0	7,697.0	117.6	13.4	-90.00	5,530.8	71.9	1,040.8	910.0	130.79	7.958		
14,200.0	7,740.0	7,697.0	7,697.0	119.3	13.4	-90.00	5,530.8	71.9	1,139.0	1,006.6	132.40	8.603		
14,300.0	7,740.0	7,697.0	7,697.0	121.0	13.4	-90.00	5,530.8	71.9	1,237.2	1,103.3	133.98	9.234		
14,338.4	7,740.0	7,697.0	7,697.0	121.7	13.4	-90.00	5,530.8	71.9	1,275.0	1,140.4	134.58	9.474		
14,400.0	7,740.0	7,697.0	7,697.0	122.8	13.4	-90.00	5,530.8	71.9	1,335.5	1,199.8	135.65	9.845		
14,500.0	7,740.0	7,697.0	7,697.0	124.5	13.4	-90.00	5,530.8	71.9	1,433.9	1,296.5	137.40	10.436		
14,600.0	7,740.0	7,697.0	7,697.0	126.2	13.4	-90.00	5,530.8	71.9	1,532.5	1,393.4	139.14	11.014		
14,632.3	7,740.0	7,697.0	7,697.0	126.8	13.4	-90.00	5,530.8	71.9	1,564.4	1,424.7	139.71	11.198		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
9,200.0	7,740.0	7,688.0	7,688.0	33.9	13.4	-90.00	6,883.4	71.3	5,232.1	5,185.3	46.77	111.864		
9,300.0	7,740.0	7,688.0	7,688.0	35.5	13.4	-90.00	6,883.4	71.3	5,132.1	5,083.7	48.39	106.050		
9,400.0	7,740.0	7,688.0	7,688.0	37.2	13.4	-90.00	6,883.4	71.3	5,032.2	4,982.2	50.03	100.589		
9,500.0	7,740.0	7,688.0	7,688.0	38.8	13.4	-90.00	6,883.4	71.3	4,932.2	4,880.6	51.67	95.454		
9,600.0	7,740.0	7,688.0	7,688.0	40.4	13.4	-90.00	6,883.4	71.3	4,832.3	4,779.0	53.33	90.620		
9,700.0	7,740.0	7,688.0	7,688.0	42.0	13.4	-90.00	6,883.4	71.3	4,732.4	4,677.4	54.99	86.063		
9,800.0	7,740.0	7,688.0	7,688.0	43.7	13.4	-90.00	6,883.4	71.3	4,632.4	4,575.8	56.66	81.764		
9,900.0	7,740.0	7,688.0	7,688.0	45.4	13.4	-90.00	6,883.4	71.3	4,532.5	4,474.2	58.33	77.702		
10,000.0	7,740.0	7,688.0	7,688.0	47.0	13.4	-90.00	6,883.4	71.3	4,432.6	4,372.6	60.01	73.859		
10,100.0	7,740.0	7,688.0	7,688.0	48.7	13.4	-90.00	6,883.4	71.3	4,332.6	4,270.9	61.70	70.221		
10,200.0	7,740.0	7,688.0	7,688.0	50.4	13.4	-90.00	6,883.4	71.3	4,232.7	4,169.3	63.39	66.771		
10,300.0	7,740.0	7,688.0	7,688.0	52.1	13.4	-90.00	6,883.4	71.3	4,132.8	4,067.7	65.09	63.496		
10,400.0	7,740.0	7,688.0	7,688.0	53.7	13.4	-90.00	6,883.4	71.3	4,032.9	3,966.1	66.79	60.385		
10,500.0	7,740.0	7,688.0	7,688.0	55.4	13.4	-90.00	6,883.4	71.3	3,933.0	3,864.5	68.49	57.425		
10,600.0	7,740.0	7,688.0	7,688.0	57.1	13.4	-90.00	6,883.4	71.3	3,833.1	3,762.9	70.20	54.606		
10,700.0	7,740.0	7,688.0	7,688.0	58.8	13.4	-90.00	6,883.4	71.3	3,733.2	3,661.3	71.90	51.919		
10,800.0	7,740.0	7,688.0	7,688.0	60.5	13.4	-90.00	6,883.4	71.3	3,633.3	3,559.7	73.62	49.355		
10,900.0	7,740.0	7,688.0	7,688.0	62.2	13.4	-90.00	6,883.4	71.3	3,533.4	3,458.1	75.33	46.906		
11,000.0	7,740.0	7,688.0	7,688.0	63.9	13.4	-90.00	6,883.4	71.3	3,433.5	3,356.5	77.05	44.565		
11,100.0	7,740.0	7,688.0	7,688.0	65.7	13.4	-90.00	6,883.4	71.3	3,333.6	3,254.9	78.76	42.325		
11,200.0	7,740.0	7,688.0	7,688.0	67.4	13.4	-90.00	6,883.4	71.3	3,233.8	3,153.3	80.48	40.179		
11,300.0	7,740.0	7,688.0	7,688.0	69.1	13.4	-90.00	6,883.4	71.3	3,133.9	3,051.7	82.21	38.123		
11,400.0	7,740.0	7,688.0	7,688.0	70.8	13.4	-90.00	6,883.4	71.3	3,034.1	2,950.1	83.93	36.150		
11,500.0	7,740.0	7,688.0	7,688.0	72.5	13.4	-90.00	6,883.4	71.3	2,934.2	2,848.6	85.65	34.257		
11,600.0	7,740.0	7,688.0	7,688.0	74.2	13.4	-90.00	6,883.4	71.3	2,834.4	2,747.0	87.38	32.438		
11,700.0	7,740.0	7,688.0	7,688.0	76.0	13.4	-90.00	6,883.4	71.3	2,734.6	2,645.5	89.11	30.689		
11,800.0	7,740.0	7,688.0	7,688.0	77.7	13.4	-90.00	6,883.4	71.3	2,634.8	2,543.9	90.84	29.006		
11,900.0	7,740.0	7,688.0	7,688.0	79.4	13.4	-90.00	6,883.4	71.3	2,535.0	2,442.4	92.57	27.386		
12,000.0	7,740.0	7,688.0	7,688.0	81.1	13.4	-90.00	6,883.4	71.3	2,435.2	2,340.9	94.30	25.825		
12,100.0	7,740.0	7,688.0	7,688.0	82.9	13.4	-90.00	6,883.4	71.3	2,335.5	2,239.4	96.03	24.321		
12,200.0	7,740.0	7,688.0	7,688.0	84.6	13.4	-90.00	6,883.4	71.3	2,235.7	2,138.0	97.76	22.869		
12,300.0	7,740.0	7,688.0	7,688.0	86.3	13.4	-90.00	6,883.4	71.3	2,136.0	2,036.5	99.49	21.469		
12,400.0	7,740.0	7,688.0	7,688.0	88.0	13.4	-90.00	6,883.4	71.3	2,036.4	1,935.1	101.23	20.116		
12,500.0	7,740.0	7,688.0	7,688.0	89.8	13.4	-90.00	6,883.4	71.3	1,936.7	1,833.8	102.96	18.810		
12,600.0	7,740.0	7,688.0	7,688.0	91.5	13.4	-90.00	6,883.4	71.3	1,837.1	1,732.4	104.70	17.547		
12,700.0	7,740.0	7,688.0	7,688.0	93.2	13.4	-90.00	6,883.4	71.3	1,737.6	1,631.1	106.44	16.325		
12,800.0	7,740.0	7,688.0	7,688.0	95.0	13.4	-90.00	6,883.4	71.3	1,638.1	1,529.9	108.17	15.143		
12,900.0	7,740.0	7,688.0	7,688.0	96.7	13.4	-90.00	6,883.4	71.3	1,538.6	1,428.7	109.91	13.999		
13,000.0	7,740.0	7,688.0	7,688.0	98.4	13.4	-90.00	6,883.4	71.3	1,439.3	1,327.6	111.65	12.891		
13,100.0	7,740.0	7,688.0	7,688.0	100.2	13.4	-90.00	6,883.4	71.3	1,340.0	1,226.6	113.39	11.818		
13,200.0	7,740.0	7,688.0	7,688.0	101.9	13.4	-90.00	6,883.4	71.3	1,240.9	1,125.8	115.13	10.778		
13,300.0	7,740.0	7,688.0	7,688.0	103.6	13.4	-90.00	6,883.4	71.3	1,141.9	1,025.0	116.87	9.771		
13,400.0	7,740.0	7,688.0	7,688.0	105.4	13.4	-90.00	6,883.4	71.3	1,043.1	924.5	118.61	8.794		
13,500.0	7,740.0	7,688.0	7,688.0	107.1	13.4	-90.00	6,883.4	71.3	944.6	824.2	120.35	7.848		
13,600.0	7,740.0	7,688.0	7,688.0	108.9	13.4	-90.00	6,883.4	71.3	846.4	724.3	122.09	6.932		
13,700.0	7,740.0	7,688.0	7,688.0	110.6	13.4	-90.00	6,883.4	71.3	748.6	624.8	123.83	6.045		
13,800.0	7,740.0	7,688.0	7,688.0	112.3	13.4	-90.00	6,883.4	71.3	651.6	526.0	125.58	5.189		
13,900.0	7,740.0	7,688.0	7,688.0	114.1	13.4	-90.00	6,883.4	71.3	555.6	428.3	127.32	4.364		
14,000.0	7,740.0	7,688.0	7,688.0	115.8	13.4	-90.00	6,883.4	71.3	461.3	332.3	129.06	3.575		
14,076.4	7,740.0	7,688.0	7,688.0	117.1	13.4	-90.00	6,883.4	71.3	391.2	260.8	130.39	3.000		
14,100.0	7,740.0	7,688.0	7,688.0	117.6	13.4	-90.00	6,883.4	71.3	370.1	239.3	130.78	2.830		
14,200.0	7,740.0	7,688.0	7,688.0	119.3	13.4	-90.00	6,883.4	71.3	284.0	151.6	132.39	2.145		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 7771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	
14,300.0	7,740.0	7,688.0	7,688.0	121.0	13.4	-90.00	6,883.4	71.3	209.2	75.3	133.97	1.562		
14,338.4	7,740.0	7,688.0	7,688.0	121.7	13.4	-90.00	6,883.4	71.3	186.5	51.9	134.56	1.386	Level 3	
14,400.0	7,740.0	7,688.0	7,688.0	122.8	13.4	-90.00	6,883.4	71.3	162.7	27.0	135.64	1.199	Level 2	
14,436.8	7,740.0	7,688.0	7,688.0	123.4	13.4	-90.00	6,883.4	71.3	158.4	22.2	136.28	1.163	Level 2, CC, ES, SF	
14,500.0	7,740.0	7,688.0	7,688.0	124.5	13.4	-90.00	6,883.4	71.3	170.6	33.2	137.38	1.242	Level 2	
14,600.0	7,740.0	7,688.0	7,688.0	126.2	13.4	-90.00	6,883.4	71.3	227.5	88.3	139.13	1.635		
14,632.3	7,740.0	7,688.0	7,688.0	126.8	13.4	-90.00	6,883.4	71.3	251.6	111.9	139.69	1.801		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	7,726.1	7,680.1	7,680.1	16.9	13.4	43.52	5,577.1	1,393.2	5,271.9	5,248.5	23.38	225.504	
8,000.0	7,734.9	7,688.9	7,688.9	17.4	13.4	58.23	5,577.1	1,393.2	5,223.8	5,197.1	26.65	196.006	
8,050.0	7,739.4	7,693.4	7,693.4	17.9	13.4	78.25	5,577.1	1,393.2	5,175.1	5,145.3	29.79	173.743	
8,076.4	7,740.0	7,694.0	7,694.0	18.2	13.4	90.00	5,577.1	1,393.2	5,149.4	5,118.9	30.48	168.943	
8,100.0	7,740.0	7,694.0	7,694.0	18.4	13.4	90.00	5,577.1	1,393.2	5,126.3	5,095.6	30.75	166.713	
8,200.0	7,740.0	7,694.0	7,694.0	19.6	13.4	90.00	5,577.1	1,393.2	5,028.9	4,996.9	31.95	157.390	
8,300.0	7,740.0	7,694.0	7,694.0	20.8	13.4	90.00	5,577.1	1,393.2	4,931.5	4,898.2	33.24	148.376	
8,400.0	7,740.0	7,694.0	7,694.0	22.1	13.4	90.00	5,577.1	1,393.2	4,834.2	4,799.6	34.59	139.763	
8,500.0	7,740.0	7,694.0	7,694.0	23.4	13.4	90.00	5,577.1	1,393.2	4,737.0	4,701.0	36.00	131.598	
8,600.0	7,740.0	7,694.0	7,694.0	24.8	13.4	90.00	5,577.1	1,393.2	4,640.0	4,602.5	37.45	123.900	
8,700.0	7,740.0	7,694.0	7,694.0	26.3	13.4	90.00	5,577.1	1,393.2	4,543.0	4,504.1	38.94	116.666	
8,800.0	7,740.0	7,694.0	7,694.0	27.8	13.4	90.00	5,577.1	1,393.2	4,446.2	4,405.8	40.46	109.884	
8,900.0	7,740.0	7,694.0	7,694.0	29.3	13.4	90.00	5,577.1	1,393.2	4,349.6	4,307.6	42.01	103.531	
9,000.0	7,740.0	7,694.0	7,694.0	30.8	13.4	90.00	5,577.1	1,393.2	4,253.1	4,209.5	43.58	97.584	
9,100.0	7,740.0	7,694.0	7,694.0	32.4	13.4	90.00	5,577.1	1,393.2	4,156.8	4,111.6	45.18	92.015	
9,200.0	7,740.0	7,694.0	7,694.0	33.9	13.4	90.00	5,577.1	1,393.2	4,060.7	4,013.9	46.78	86.799	
9,300.0	7,740.0	7,694.0	7,694.0	35.5	13.4	90.00	5,577.1	1,393.2	3,964.7	3,916.3	48.40	81.909	
9,400.0	7,740.0	7,694.0	7,694.0	37.2	13.4	90.00	5,577.1	1,393.2	3,869.0	3,818.9	50.04	77.321	
9,500.0	7,740.0	7,694.0	7,694.0	38.8	13.4	90.00	5,577.1	1,393.2	3,773.4	3,721.7	51.68	73.013	
9,600.0	7,740.0	7,694.0	7,694.0	40.4	13.4	90.00	5,577.1	1,393.2	3,678.1	3,624.8	53.34	68.962	
9,700.0	7,740.0	7,694.0	7,694.0	42.0	13.4	90.00	5,577.1	1,393.2	3,583.1	3,528.1	55.00	65.150	
9,800.0	7,740.0	7,694.0	7,694.0	43.7	13.4	90.00	5,577.1	1,393.2	3,488.4	3,431.7	56.67	61.559	
9,900.0	7,740.0	7,694.0	7,694.0	45.4	13.4	90.00	5,577.1	1,393.2	3,393.9	3,335.6	58.34	58.172	
10,000.0	7,740.0	7,694.0	7,694.0	47.0	13.4	90.00	5,577.1	1,393.2	3,299.8	3,239.8	60.02	54.974	
10,100.0	7,740.0	7,694.0	7,694.0	48.7	13.4	90.00	5,577.1	1,393.2	3,206.0	3,144.3	61.71	51.952	
10,200.0	7,740.0	7,694.0	7,694.0	50.4	13.4	90.00	5,577.1	1,393.2	3,112.6	3,049.2	63.40	49.093	
10,300.0	7,740.0	7,694.0	7,694.0	52.1	13.4	90.00	5,577.1	1,393.2	3,019.7	2,954.6	65.10	46.387	
10,400.0	7,740.0	7,694.0	7,694.0	53.7	13.4	90.00	5,577.1	1,393.2	2,927.2	2,860.4	66.80	43.822	
10,500.0	7,740.0	7,694.0	7,694.0	55.4	13.4	90.00	5,577.1	1,393.2	2,835.2	2,766.7	68.50	41.390	
10,600.0	7,740.0	7,694.0	7,694.0	57.1	13.4	90.00	5,577.1	1,393.2	2,743.8	2,673.6	70.21	39.082	
10,700.0	7,740.0	7,694.0	7,694.0	58.8	13.4	90.00	5,577.1	1,393.2	2,653.0	2,581.0	71.91	36.890	
10,800.0	7,740.0	7,694.0	7,694.0	60.5	13.4	90.00	5,577.1	1,393.2	2,562.8	2,489.2	73.63	34.809	
10,900.0	7,740.0	7,694.0	7,694.0	62.2	13.4	90.00	5,577.1	1,393.2	2,473.5	2,398.1	75.34	32.831	
11,000.0	7,740.0	7,694.0	7,694.0	63.9	13.4	90.00	5,577.1	1,393.2	2,385.0	2,307.9	77.06	30.951	
11,100.0	7,740.0	7,694.0	7,694.0	65.7	13.4	90.00	5,577.1	1,393.2	2,297.4	2,218.6	78.77	29.164	
11,200.0	7,740.0	7,694.0	7,694.0	67.4	13.4	90.00	5,577.1	1,393.2	2,210.9	2,130.4	80.49	27.466	
11,300.0	7,740.0	7,694.0	7,694.0	69.1	13.4	90.00	5,577.1	1,393.2	2,125.5	2,043.3	82.22	25.853	
11,400.0	7,740.0	7,694.0	7,694.0	70.8	13.4	90.00	5,577.1	1,393.2	2,041.5	1,957.6	83.94	24.322	
11,500.0	7,740.0	7,694.0	7,694.0	72.5	13.4	90.00	5,577.1	1,393.2	1,959.0	1,873.4	85.66	22.869	
11,600.0	7,740.0	7,694.0	7,694.0	74.2	13.4	90.00	5,577.1	1,393.2	1,878.2	1,790.9	87.39	21.493	
11,700.0	7,740.0	7,694.0	7,694.0	76.0	13.4	90.00	5,577.1	1,393.2	1,799.4	1,710.3	89.12	20.191	
11,800.0	7,740.0	7,694.0	7,694.0	77.7	13.4	90.00	5,577.1	1,393.2	1,722.7	1,631.9	90.85	18.963	
11,900.0	7,740.0	7,694.0	7,694.0	79.4	13.4	90.00	5,577.1	1,393.2	1,648.5	1,556.0	92.58	17.807	
12,000.0	7,740.0	7,694.0	7,694.0	81.1	13.4	90.00	5,577.1	1,393.2	1,577.2	1,482.9	94.31	16.724	
12,100.0	7,740.0	7,694.0	7,694.0	82.9	13.4	90.00	5,577.1	1,393.2	1,509.2	1,413.1	96.04	15.714	
12,200.0	7,740.0	7,694.0	7,694.0	84.6	13.4	90.00	5,577.1	1,393.2	1,444.8	1,347.1	97.77	14.778	
12,300.0	7,740.0	7,694.0	7,694.0	86.3	13.4	90.00	5,577.1	1,393.2	1,384.7	1,285.2	99.50	13.916	
12,400.0	7,740.0	7,694.0	7,694.0	88.0	13.4	90.00	5,577.1	1,393.2	1,329.5	1,228.2	101.24	13.132	
12,500.0	7,740.0	7,694.0	7,694.0	89.8	13.4	90.00	5,577.1	1,393.2	1,279.6	1,176.6	102.97	12.426	
12,600.0	7,740.0	7,694.0	7,694.0	91.5	13.4	90.00	5,577.1	1,393.2	1,235.9	1,131.2	104.71	11.803	
12,700.0	7,740.0	7,694.0	7,694.0	93.2	13.4	90.00	5,577.1	1,393.2	1,198.9	1,092.4	106.45	11.263	
12,800.0	7,740.0	7,694.0	7,694.0	95.0	13.4	90.00	5,577.1	1,393.2	1,169.3	1,061.1	108.18	10.808	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		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			
12,900.0	7,740.0	7,694.0	7,694.0	96.7	13.4	90.00	5,577.1	1,393.2	1,147.7	1,037.8	109.92	10.441		
13,000.0	7,740.0	7,694.0	7,694.0	98.4	13.4	90.00	5,577.1	1,393.2	1,134.5	1,022.9	111.66	10.161		
13,100.0	7,740.0	7,694.0	7,694.0	100.2	13.4	90.00	5,577.1	1,393.2	1,130.1	1,016.7	113.40	9.966		
13,100.2	7,740.0	7,694.0	7,694.0	100.2	13.4	90.00	5,577.1	1,393.2	1,130.1	1,016.7	113.40	9.965 CC, ES		
13,200.0	7,740.0	7,694.0	7,694.0	101.9	13.4	90.00	5,577.1	1,393.2	1,134.5	1,019.4	115.14	9.853		
13,300.0	7,740.0	7,694.0	7,694.0	103.6	13.4	90.00	5,577.1	1,393.2	1,147.6	1,030.7	116.88	9.819 SF		
13,400.0	7,740.0	7,694.0	7,694.0	105.4	13.4	90.00	5,577.1	1,393.2	1,169.2	1,050.6	118.62	9.857		
13,500.0	7,740.0	7,694.0	7,694.0	107.1	13.4	90.00	5,577.1	1,393.2	1,198.7	1,078.4	120.36	9.959		
13,600.0	7,740.0	7,694.0	7,694.0	108.9	13.4	90.00	5,577.1	1,393.2	1,235.7	1,113.6	122.10	10.120		
13,700.0	7,740.0	7,694.0	7,694.0	110.6	13.4	90.00	5,577.1	1,393.2	1,279.4	1,155.6	123.84	10.331		
13,800.0	7,740.0	7,694.0	7,694.0	112.3	13.4	90.00	5,577.1	1,393.2	1,329.2	1,203.6	125.59	10.584		
13,900.0	7,740.0	7,694.0	7,694.0	114.1	13.4	90.00	5,577.1	1,393.2	1,384.5	1,257.1	127.33	10.873		
14,000.0	7,740.0	7,694.0	7,694.0	115.8	13.4	90.00	5,577.1	1,393.2	1,444.5	1,315.5	129.07	11.192		
14,076.4	7,740.0	7,694.0	7,694.0	117.1	13.4	90.00	5,577.1	1,393.2	1,493.3	1,362.9	130.40	11.452		
14,100.0	7,740.0	7,694.0	7,694.0	117.6	13.4	90.00	5,577.1	1,393.2	1,508.9	1,378.1	130.79	11.537		
14,200.0	7,740.0	7,694.0	7,694.0	119.3	13.4	90.00	5,577.1	1,393.2	1,577.9	1,445.5	132.40	11.917		
14,300.0	7,740.0	7,694.0	7,694.0	121.0	13.4	90.00	5,577.1	1,393.2	1,651.2	1,517.2	133.98	12.324		
14,338.4	7,740.0	7,694.0	7,694.0	121.7	13.4	90.00	5,577.1	1,393.2	1,680.4	1,545.8	134.57	12.487		
14,400.0	7,740.0	7,694.0	7,694.0	122.8	13.4	90.00	5,577.1	1,393.2	1,728.0	1,592.4	135.65	12.739		
14,500.0	7,740.0	7,694.0	7,694.0	124.5	13.4	90.00	5,577.1	1,393.2	1,807.3	1,669.9	137.39	13.154		
14,600.0	7,740.0	7,694.0	7,694.0	126.2	13.4	90.00	5,577.1	1,393.2	1,888.5	1,749.3	139.14	13.572		
14,632.3	7,740.0	7,694.0	7,694.0	126.8	13.4	90.00	5,577.1	1,393.2	1,915.0	1,775.3	139.70	13.708		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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 (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		
8,900.0	7,740.0	7,726.1	7,629.7	29.3	19.9	87.58	6,299.0	2,029.4	5,223.7	5,176.7	47.00	111.143		
9,000.0	7,740.0	7,727.8	7,631.4	30.8	19.9	87.63	6,299.0	2,029.4	5,129.8	5,081.2	48.57	105.608		
9,100.0	7,740.0	7,729.4	7,633.0	32.4	19.9	87.68	6,299.1	2,029.4	5,036.1	4,985.9	50.17	100.387		
9,200.0	7,740.0	7,731.1	7,634.7	33.9	19.9	87.74	6,299.1	2,029.4	4,942.7	4,890.9	51.78	95.461		
9,300.0	7,740.0	7,732.7	7,636.3	35.5	19.9	87.79	6,299.1	2,029.3	4,849.5	4,796.1	53.40	90.813		
9,400.0	7,740.0	7,734.4	7,638.0	37.2	19.9	87.84	6,299.2	2,029.3	4,756.6	4,701.6	55.04	86.425		
9,500.0	7,740.0	7,736.1	7,639.7	38.8	19.9	87.90	6,299.2	2,029.3	4,664.1	4,607.4	56.69	82.280		
9,600.0	7,740.0	7,737.8	7,641.4	40.4	19.9	87.95	6,299.2	2,029.3	4,571.8	4,513.4	58.34	78.361		
9,700.0	7,740.0	7,739.5	7,643.1	42.0	19.9	88.01	6,299.3	2,029.2	4,479.8	4,419.8	60.01	74.655		
9,800.0	7,740.0	7,741.2	7,644.9	43.7	19.9	88.06	6,299.3	2,029.2	4,388.3	4,326.6	61.68	71.145		
9,900.0	7,740.0	7,743.0	7,646.6	45.4	20.0	88.12	6,299.3	2,029.2	4,297.0	4,233.7	63.36	67.820		
10,000.0	7,740.0	7,744.7	7,648.4	47.0	20.0	88.18	6,299.4	2,029.2	4,206.2	4,141.2	65.05	64.666		
10,100.0	7,740.0	7,746.5	7,650.1	48.7	20.0	88.23	6,299.4	2,029.1	4,115.8	4,049.1	66.74	61.674		
10,200.0	7,740.0	7,748.3	7,651.9	50.4	20.0	88.29	6,299.5	2,029.1	4,025.9	3,957.5	68.43	58.831		
10,300.0	7,740.0	7,750.1	7,653.7	52.1	20.0	88.35	6,299.5	2,029.1	3,936.4	3,866.3	70.13	56.130		
10,400.0	7,740.0	7,751.9	7,655.5	53.7	20.0	88.41	6,299.5	2,029.1	3,847.5	3,775.7	71.83	53.561		
10,500.0	7,740.0	7,753.7	7,657.4	55.4	20.0	88.47	6,299.6	2,029.0	3,759.1	3,685.6	73.54	51.116		
10,600.0	7,740.0	7,755.6	7,659.2	57.1	20.0	88.52	6,299.6	2,029.0	3,671.3	3,596.1	75.25	48.788		
10,700.0	7,740.0	7,760.0	7,663.6	58.8	20.0	88.67	6,299.7	2,028.9	3,584.2	3,507.2	76.97	46.565		
10,800.0	7,740.0	7,760.0	7,663.6	60.5	20.0	88.67	6,299.7	2,028.9	3,497.7	3,419.0	78.68	44.454		
10,900.0	7,740.0	7,760.0	7,663.6	62.2	20.0	88.67	6,299.7	2,028.9	3,412.0	3,331.6	80.39	42.440		
11,000.0	7,740.0	7,760.0	7,663.6	63.9	20.0	88.67	6,299.7	2,028.9	3,327.1	3,245.0	82.11	40.519		
11,100.0	7,740.0	7,764.5	7,668.1	65.7	20.0	88.81	6,299.8	2,028.9	3,243.0	3,159.2	83.84	38.681		
11,200.0	7,740.0	7,766.3	7,669.9	67.4	20.0	88.87	6,299.8	2,028.9	3,159.9	3,074.3	85.56	36.930		
11,300.0	7,740.0	7,768.0	7,671.6	69.1	20.0	88.92	6,299.9	2,028.8	3,077.7	2,990.4	87.29	35.259		
11,400.0	7,740.0	7,769.8	7,673.4	70.8	20.0	88.98	6,299.9	2,028.8	2,996.7	2,907.6	89.02	33.664		
11,500.0	7,740.0	7,771.6	7,675.2	72.5	20.0	89.04	6,300.0	2,028.8	2,916.8	2,826.0	90.75	32.142		
11,600.0	7,740.0	7,773.4	7,677.0	74.2	20.0	89.10	6,300.0	2,028.8	2,838.2	2,745.7	92.48	30.691		
11,700.0	7,740.0	7,775.2	7,678.8	76.0	20.0	89.15	6,300.0	2,028.7	2,760.9	2,666.7	94.21	29.307		
11,800.0	7,740.0	7,777.0	7,680.6	77.7	20.0	89.21	6,300.1	2,028.7	2,685.2	2,589.3	95.94	27.988		
11,900.0	7,740.0	7,778.8	7,682.4	79.4	20.0	89.27	6,300.1	2,028.7	2,611.1	2,513.5	97.68	26.733		
12,000.0	7,740.0	7,780.7	7,684.3	81.1	20.0	89.33	6,300.2	2,028.7	2,538.8	2,439.4	99.41	25.539		
12,100.0	7,740.0	7,782.5	7,686.1	82.9	20.0	89.39	6,300.2	2,028.7	2,468.4	2,367.3	101.15	24.405		
12,200.0	7,740.0	7,784.4	7,688.0	84.6	20.0	89.45	6,300.3	2,028.6	2,400.2	2,297.3	102.88	23.329		
12,300.0	7,740.0	7,786.3	7,689.9	86.3	20.0	89.51	6,300.3	2,028.6	2,334.2	2,229.5	104.62	22.311		
12,400.0	7,740.0	7,788.2	7,691.8	88.0	20.0	89.57	6,300.3	2,028.6	2,270.7	2,164.3	106.36	21.349		
12,500.0	7,740.0	7,790.1	7,693.7	89.8	20.0	89.64	6,300.4	2,028.6	2,209.9	2,101.8	108.10	20.443		
12,600.0	7,740.0	7,792.0	7,695.6	91.5	20.0	89.70	6,300.4	2,028.5	2,152.0	2,042.1	109.84	19.592		
12,700.0	7,740.0	7,794.0	7,697.5	93.2	20.0	89.76	6,300.5	2,028.5	2,097.3	1,985.7	111.58	18.796		
12,800.0	7,740.0	7,795.9	7,699.5	95.0	20.0	89.82	6,300.5	2,028.5	2,046.0	1,932.7	113.32	18.055		
12,900.0	7,740.0	7,800.0	7,703.6	96.7	20.0	89.95	6,300.6	2,028.5	1,998.4	1,883.3	115.07	17.367		
13,000.0	7,740.0	7,800.0	7,703.6	98.4	20.0	89.95	6,300.6	2,028.5	1,954.8	1,837.9	116.80	16.735		
13,100.0	7,740.0	7,800.0	7,703.6	100.2	20.0	89.95	6,300.6	2,028.5	1,915.3	1,796.8	118.54	16.157		
13,200.0	7,740.0	7,804.0	7,707.6	101.9	20.0	90.08	6,300.7	2,028.4	1,880.4	1,760.1	120.29	15.633		
13,300.0	7,740.0	7,806.1	7,709.7	103.6	20.0	90.15	6,300.8	2,028.4	1,850.3	1,728.2	122.03	15.162		
13,400.0	7,740.0	7,808.2	7,711.8	105.4	20.1	90.22	6,300.8	2,028.4	1,825.1	1,701.3	123.78	14.745		
13,500.0	7,740.0	7,810.3	7,713.9	107.1	20.1	90.29	6,300.9	2,028.4	1,805.1	1,679.6	125.52	14.381		
13,600.0	7,740.0	7,812.4	7,716.0	108.9	20.1	90.35	6,300.9	2,028.3	1,790.5	1,663.2	127.26	14.069		
13,700.0	7,740.0	7,814.5	7,718.1	110.6	20.1	90.42	6,301.0	2,028.3	1,781.4	1,652.4	129.01	13.808		
13,800.0	7,740.0	7,816.7	7,720.3	112.3	20.1	90.49	6,301.0	2,028.3	1,777.8	1,647.1	130.75	13.597		
13,812.9	7,740.0	7,817.0	7,720.6	112.6	20.1	90.50	6,301.0	2,028.3	1,777.8	1,646.8	130.98	13.573 CC, ES		
13,900.0	7,740.0	7,818.8	7,722.4	114.1	20.1	90.56	6,301.1	2,028.3	1,779.9	1,647.4	132.50	13.433		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	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	7,821.0	7,724.6	115.8	20.1	90.63	6,301.1	2,028.3	1,787.6	1,653.4	134.24	13.316					
14,076.4	7,740.0	7,822.7	7,726.3	117.1	20.1	90.69	6,301.2	2,028.2	1,797.2	1,661.6	135.58	13.256					
14,100.0	7,740.0	7,823.2	7,726.8	117.6	20.1	90.70	6,301.2	2,028.2	1,800.9	1,664.9	135.98	13.243					
14,200.0	7,740.0	7,825.4	7,729.0	119.3	20.1	90.78	6,301.2	2,028.2	1,820.7	1,683.0	137.68	13.224 SF					
14,300.0	7,740.0	7,827.7	7,731.2	121.0	20.1	90.85	6,301.3	2,028.2	1,847.5	1,708.1	139.35	13.258					
14,338.4	7,740.0	7,828.5	7,732.1	121.7	20.1	90.88	6,301.3	2,028.2	1,859.5	1,719.5	139.98	13.285					
14,400.0	7,740.0	7,829.9	7,733.5	122.8	20.1	90.93	6,301.3	2,028.2	1,880.5	1,739.4	141.05	13.332					
14,500.0	7,740.0	7,832.2	7,735.8	124.5	20.1	91.00	6,301.4	2,028.2	1,918.3	1,775.5	142.80	13.433					
14,600.0	7,740.0	7,834.5	7,738.1	126.2	20.1	91.08	6,301.5	2,028.1	1,960.4	1,815.9	144.54	13.563					
14,632.3	7,740.0	7,835.2	7,738.8	126.8	20.1	91.10	6,301.5	2,028.1	1,974.9	1,829.8	145.11	13.610					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 7894-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	-174.13	-982.8	-101.0	988.1						
100.0	100.0	88.0	88.0	0.2	0.2	-174.13	-982.8	-101.0	988.0	987.7	0.31	3,232.660			
200.0	200.0	188.0	188.0	0.3	0.3	-174.13	-982.8	-101.0	988.0	987.3	0.65	1,509.102			
300.0	300.0	288.0	288.0	0.5	0.5	-174.13	-982.8	-101.0	988.0	987.0	1.00	984.302			
400.0	400.0	388.0	388.0	0.7	0.7	-174.13	-982.8	-101.0	988.0	986.6	1.35	730.326			
500.0	500.0	488.0	488.0	0.8	0.9	-174.13	-982.8	-101.0	988.0	986.3	1.70	580.533			
600.0	600.0	588.0	588.0	1.0	1.0	-174.13	-982.8	-101.0	988.0	985.9	2.05	481.729			
700.0	700.0	688.0	688.0	1.2	1.2	89.20	-982.8	-101.0	988.0	985.6	2.40	411.595			
800.0	800.0	788.0	788.0	1.4	1.4	89.35	-982.8	-101.0	988.0	985.2	2.75	358.990			
897.7	897.5	885.5	885.5	1.6	1.5	89.60	-982.8	-101.0	987.9	984.8	3.10	318.664			
900.0	899.9	887.9	887.9	1.6	1.5	89.61	-982.8	-101.0	987.9	984.8	3.11	317.803			
1,000.0	999.7	987.7	987.7	1.7	1.7	89.91	-982.8	-101.0	987.9	984.4	3.47	284.842			
1,030.9	1,030.6	1,018.6	1,018.6	1.8	1.8	90.00	-982.8	-101.0	987.9	984.3	3.58	275.938 CC			
1,100.0	1,099.6	1,087.6	1,087.6	1.9	1.9	90.21	-982.8	-101.0	987.9	984.1	3.83	257.931			
1,200.0	1,199.5	1,187.5	1,187.5	2.1	2.1	90.51	-982.8	-101.0	987.9	983.7	4.19	235.579			
1,300.0	1,299.3	1,287.3	1,287.3	2.3	2.2	90.81	-982.8	-101.0	988.0	983.4	4.56	216.740			
1,400.0	1,399.2	1,387.2	1,387.2	2.5	2.4	91.11	-982.8	-101.0	988.1	983.2	4.92	200.660			
1,500.0	1,499.1	1,487.1	1,487.1	2.7	2.6	91.41	-982.8	-101.0	988.2	982.9	5.29	186.782			
1,600.0	1,598.9	1,586.9	1,586.9	2.9	2.8	91.71	-982.8	-101.0	988.3	982.7	5.66	174.689			
1,700.0	1,698.8	1,686.8	1,686.8	3.1	2.9	92.01	-982.8	-101.0	988.5	982.5	6.03	164.061			
1,800.0	1,798.6	1,786.6	1,786.6	3.3	3.1	92.31	-982.8	-101.0	988.7	982.3	6.39	154.650			
1,900.0	1,898.5	1,886.5	1,886.5	3.5	3.3	92.61	-982.8	-101.0	988.9	982.2	6.76	146.260			
2,000.0	1,998.4	1,986.4	1,986.4	3.7	3.5	92.91	-982.8	-101.0	989.2	982.0	7.13	138.736			
2,100.0	2,098.2	2,086.2	2,086.2	3.9	3.6	93.21	-982.8	-101.0	989.4	982.0	7.50	131.951			
2,200.0	2,198.1	2,186.1	2,186.1	4.1	3.8	93.51	-982.8	-101.0	989.8	981.9	7.87	125.803			
2,300.0	2,298.0	2,286.0	2,286.0	4.2	4.0	93.81	-982.8	-101.0	990.1	981.9	8.24	120.207			
2,400.0	2,397.8	2,385.8	2,385.8	4.4	4.2	94.11	-982.8	-101.0	990.4	981.8	8.61	115.093 ES			
2,500.0	2,497.7	2,485.7	2,485.7	4.6	4.3	94.41	-982.8	-101.0	990.8	981.9	8.97	110.401			
2,600.0	2,597.6	2,585.6	2,585.6	4.8	4.5	94.71	-982.8	-101.0	991.2	981.9	9.34	106.082			
2,700.0	2,697.4	2,685.4	2,685.4	5.0	4.7	95.01	-982.8	-101.0	991.7	982.0	9.71	102.094			
2,800.0	2,797.3	2,785.3	2,785.3	5.2	4.9	95.31	-982.8	-101.0	992.2	982.1	10.08	98.400			
2,900.0	2,897.2	2,885.2	2,885.2	5.4	5.0	95.60	-982.8	-101.0	992.6	982.2	10.45	94.970			
3,000.0	2,997.0	2,985.0	2,985.0	5.6	5.2	95.90	-982.8	-101.0	993.2	982.3	10.82	91.776			
3,100.0	3,096.9	3,084.9	3,084.9	5.8	5.4	96.20	-982.8	-101.0	993.7	982.5	11.19	88.795			
3,200.0	3,196.8	3,184.8	3,184.8	6.0	5.6	96.50	-982.8	-101.0	994.3	982.7	11.56	86.007			
3,300.0	3,296.6	3,284.6	3,284.6	6.2	5.7	96.79	-982.8	-101.0	994.9	983.0	11.93	83.395			
3,400.0	3,396.5	3,384.5	3,384.5	6.4	5.9	97.09	-982.8	-101.0	995.5	983.2	12.30	80.941			
3,500.0	3,496.4	3,484.4	3,484.4	6.6	6.1	97.38	-982.8	-101.0	996.2	983.5	12.67	78.633			
3,600.0	3,596.2	3,584.2	3,584.2	6.8	6.3	97.68	-982.8	-101.0	996.9	983.8	13.04	76.458			
3,700.0	3,696.1	3,684.1	3,684.1	7.0	6.4	97.98	-982.8	-101.0	997.6	984.2	13.41	74.405			
3,800.0	3,796.0	3,784.0	3,784.0	7.2	6.6	98.27	-982.8	-101.0	998.3	984.5	13.78	72.464			
3,900.0	3,895.8	3,883.8	3,883.8	7.4	6.8	98.56	-982.8	-101.0	999.1	984.9	14.15	70.627			
4,000.0	3,995.7	3,983.7	3,983.7	7.6	7.0	98.86	-982.8	-101.0	999.8	985.3	14.51	68.885			
4,100.0	4,095.5	4,083.5	4,083.5	7.8	7.1	99.15	-982.8	-101.0	1,000.7	985.8	14.88	67.232			
4,200.0	4,195.4	4,183.4	4,183.4	8.0	7.3	99.44	-982.8	-101.0	1,001.5	986.3	15.25	65.661			
4,300.0	4,295.3	4,283.3	4,283.3	8.2	7.5	99.74	-982.8	-101.0	1,002.4	986.7	15.62	64.166			
4,400.0	4,395.1	4,383.1	4,383.1	8.4	7.7	100.03	-982.8	-101.0	1,003.3	987.3	15.99	62.742			
4,500.0	4,495.0	4,483.0	4,483.0	8.6	7.8	100.32	-982.8	-101.0	1,004.2	987.8	16.36	61.384			
4,600.0	4,594.9	4,582.9	4,582.9	8.8	8.0	100.61	-982.8	-101.0	1,005.1	988.4	16.73	60.087			
4,700.0	4,694.7	4,682.7	4,682.7	8.9	8.2	100.90	-982.8	-101.0	1,006.1	989.0	17.10	58.849			
4,800.0	4,794.6	4,782.6	4,782.6	9.1	8.3	101.19	-982.8	-101.0	1,007.1	989.6	17.46	57.664			
4,900.0	4,894.5	4,882.5	4,882.5	9.3	8.5	101.48	-982.8	-101.0	1,008.1	990.3	17.83	56.531			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 7894-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,994.3	4,982.3	4,982.3	9.5	8.7	101.77	-982.8	-101.0	1,009.2	991.0	18.20	55.444	
5,100.0	5,094.2	5,082.2	5,082.2	9.7	8.9	102.06	-982.8	-101.0	1,010.2	991.7	18.57	54.403	
5,200.0	5,194.1	5,182.1	5,182.1	9.9	9.0	102.34	-982.8	-101.0	1,011.3	992.4	18.94	53.404	
5,300.0	5,293.9	5,281.9	5,281.9	10.1	9.2	102.63	-982.8	-101.0	1,012.5	993.2	19.31	52.444	
5,400.0	5,393.8	5,381.8	5,381.8	10.3	9.4	102.92	-982.8	-101.0	1,013.6	993.9	19.67	51.522	
5,500.0	5,493.7	5,481.7	5,481.7	10.5	9.6	103.20	-982.8	-101.0	1,014.8	994.7	20.04	50.636	
5,600.0	5,593.5	5,581.5	5,581.5	10.7	9.7	103.49	-982.8	-101.0	1,016.0	995.6	20.41	49.782	
5,700.0	5,693.4	5,681.4	5,681.4	10.9	9.9	103.77	-982.8	-101.0	1,017.2	996.4	20.78	48.961	
5,800.0	5,793.3	5,781.3	5,781.3	11.1	10.1	104.05	-982.8	-101.0	1,018.5	997.3	21.14	48.169	
5,900.0	5,893.1	5,881.1	5,881.1	11.3	10.3	104.34	-982.8	-101.0	1,019.7	998.2	21.51	47.406	
6,000.0	5,993.0	5,981.0	5,981.0	11.5	10.4	104.62	-982.8	-101.0	1,021.0	999.2	21.88	46.670	
6,100.0	6,092.8	6,080.8	6,080.8	11.7	10.6	104.90	-982.8	-101.0	1,022.4	1,000.1	22.24	45.960	
6,200.0	6,192.7	6,180.7	6,180.7	11.9	10.8	105.18	-982.8	-101.0	1,023.7	1,001.1	22.61	45.274	
6,300.0	6,292.6	6,280.6	6,280.6	12.1	11.0	105.46	-982.8	-101.0	1,025.1	1,002.1	22.98	44.612	
6,400.0	6,392.4	6,380.4	6,380.4	12.3	11.1	105.74	-982.8	-101.0	1,026.5	1,003.1	23.34	43.971	
6,500.0	6,492.3	6,480.3	6,480.3	12.5	11.3	106.02	-982.8	-101.0	1,027.9	1,004.2	23.71	43.352	
6,600.0	6,592.2	6,580.2	6,580.2	12.7	11.5	106.30	-982.8	-101.0	1,029.3	1,005.3	24.08	42.752	
6,700.0	6,692.0	6,680.0	6,680.0	12.9	11.7	106.57	-982.8	-101.0	1,030.8	1,006.4	24.44	42.172	
6,800.0	6,791.9	6,779.9	6,779.9	13.1	11.8	106.85	-982.8	-101.0	1,032.3	1,007.5	24.81	41.610	
6,900.0	6,891.8	6,879.8	6,879.8	13.3	12.0	107.12	-982.8	-101.0	1,033.8	1,008.7	25.18	41.066	
7,000.0	6,991.6	6,979.6	6,979.6	13.5	12.2	107.40	-982.8	-101.0	1,035.4	1,009.8	25.54	40.538	
7,100.0	7,091.5	7,079.5	7,079.5	13.7	12.4	107.67	-982.8	-101.0	1,036.9	1,011.0	25.91	40.027	
7,172.4	7,163.8	7,151.8	7,151.8	13.8	12.5	107.87	-982.8	-101.0	1,038.1	1,011.9	26.17	39.666	
7,200.0	7,191.4	7,179.4	7,179.4	13.9	12.5	154.31	-982.8	-101.0	1,039.1	1,012.9	26.24	39.596 SF	
7,250.0	7,241.1	7,229.1	7,229.1	14.0	12.6	-175.99	-982.8	-101.0	1,044.1	1,017.8	26.27	39.743	
7,300.0	7,290.3	7,278.3	7,278.3	14.0	12.7	-167.30	-982.8	-101.0	1,052.9	1,026.7	26.17	40.235	
7,350.0	7,338.5	7,326.5	7,326.5	14.1	12.8	-163.16	-982.8	-101.0	1,065.5	1,039.6	25.94	41.071	
7,400.0	7,385.5	7,373.5	7,373.5	14.2	12.9	-160.58	-982.8	-101.0	1,081.9	1,056.3	25.60	42.254	
7,450.0	7,430.8	7,418.8	7,418.8	14.3	12.9	-158.63	-982.8	-101.0	1,101.9	1,076.8	25.17	43.787	
7,500.0	7,474.1	7,462.1	7,462.1	14.5	13.0	-156.95	-982.8	-101.0	1,125.5	1,100.8	24.65	45.664	
7,550.0	7,515.0	7,503.0	7,503.0	14.6	13.1	-155.32	-982.8	-101.0	1,152.4	1,128.3	24.08	47.864	
7,600.0	7,553.3	7,541.3	7,541.3	14.8	13.2	-153.59	-982.8	-101.0	1,182.6	1,159.1	23.49	50.334	
7,650.0	7,588.7	7,576.7	7,576.7	15.0	13.2	-151.64	-982.8	-101.0	1,215.7	1,192.8	22.95	52.969	
7,700.0	7,620.9	7,608.9	7,608.9	15.2	13.3	-149.32	-982.8	-101.0	1,251.7	1,229.1	22.52	55.578	
7,750.0	7,649.6	7,637.6	7,637.6	15.5	13.3	-146.45	-982.8	-101.0	1,290.1	1,267.8	22.30	57.859	
7,800.0	7,674.7	7,662.7	7,662.7	15.8	13.4	-142.81	-982.8	-101.0	1,330.9	1,308.5	22.41	59.400	
7,850.0	7,695.9	7,683.9	7,683.9	16.1	13.4	-138.07	-982.8	-101.0	1,373.6	1,350.7	22.99	59.758	
7,900.0	7,713.1	7,701.1	7,701.1	16.5	13.4	-131.77	-982.8	-101.0	1,418.1	1,393.9	24.17	58.667	
7,950.0	7,726.1	7,714.1	7,714.1	16.9	13.5	-123.33	-982.8	-101.0	1,463.8	1,437.8	25.99	56.315	
8,000.0	7,734.9	7,722.9	7,722.9	17.4	13.5	-112.16	-982.8	-101.0	1,510.5	1,482.3	28.20	53.557	
8,050.0	7,739.4	7,727.4	7,727.4	17.9	13.5	-98.18	-982.8	-101.0	1,557.9	1,527.9	30.06	51.824	
8,076.4	7,740.0	7,728.0	7,728.0	18.2	13.5	-90.00	-982.8	-101.0	1,583.1	1,552.5	30.54	51.837	
8,100.0	7,740.0	7,728.0	7,728.0	18.4	13.5	-90.00	-982.8	-101.0	1,605.6	1,574.8	30.81	52.114	
8,200.0	7,740.0	7,728.0	7,728.0	19.6	13.5	-90.00	-982.8	-101.0	1,701.3	1,669.3	32.01	53.147	
8,300.0	7,740.0	7,728.0	7,728.0	20.8	13.5	-90.00	-982.8	-101.0	1,797.5	1,764.2	33.30	53.985	
8,400.0	7,740.0	7,728.0	7,728.0	22.1	13.5	-90.00	-982.8	-101.0	1,894.1	1,859.4	34.65	54.666	
8,500.0	7,740.0	7,728.0	7,728.0	23.4	13.5	-90.00	-982.8	-101.0	1,991.0	1,954.9	36.06	55.220	
8,600.0	7,740.0	7,728.0	7,728.0	24.8	13.5	-90.00	-982.8	-101.0	2,088.2	2,050.7	37.51	55.672	
8,700.0	7,740.0	7,728.0	7,728.0	26.3	13.5	-90.00	-982.8	-101.0	2,185.6	2,146.6	39.00	56.042	
8,800.0	7,740.0	7,728.0	7,728.0	27.8	13.5	-90.00	-982.8	-101.0	2,283.3	2,242.8	40.52	56.347	
8,900.0	7,740.0	7,728.0	7,728.0	29.3	13.5	-90.00	-982.8	-101.0	2,381.2	2,339.1	42.07	56.598	
9,000.0	7,740.0	7,728.0	7,728.0	30.8	13.5	-90.00	-982.8	-101.0	2,479.2	2,435.6	43.64	56.806	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7894-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,740.0	7,728.0	7,728.0	32.4	13.5	-90.00	-982.8	-101.0	2,577.4	2,532.2	45.23	56.979		
9,200.0	7,740.0	7,728.0	7,728.0	33.9	13.5	-90.00	-982.8	-101.0	2,675.8	2,628.9	46.84	57.123		
9,300.0	7,740.0	7,728.0	7,728.0	35.5	13.5	-90.00	-982.8	-101.0	2,774.2	2,725.7	48.46	57.243		
9,400.0	7,740.0	7,728.0	7,728.0	37.2	13.5	-90.00	-982.8	-101.0	2,872.8	2,822.7	50.10	57.344		
9,500.0	7,740.0	7,728.0	7,728.0	38.8	13.5	-90.00	-982.8	-101.0	2,971.4	2,919.7	51.74	57.428		
9,600.0	7,740.0	7,728.0	7,728.0	40.4	13.5	-90.00	-982.8	-101.0	3,070.1	3,016.7	53.40	57.499		
9,700.0	7,740.0	7,728.0	7,728.0	42.0	13.5	-90.00	-982.8	-101.0	3,169.0	3,113.9	55.06	57.558		
9,800.0	7,740.0	7,728.0	7,728.0	43.7	13.5	-90.00	-982.8	-101.0	3,267.8	3,211.1	56.73	57.607		
9,900.0	7,740.0	7,728.0	7,728.0	45.4	13.5	-90.00	-982.8	-101.0	3,366.8	3,308.4	58.40	57.649		
10,000.0	7,740.0	7,728.0	7,728.0	47.0	13.5	-90.00	-982.8	-101.0	3,465.8	3,405.7	60.08	57.683		
10,100.0	7,740.0	7,728.0	7,728.0	48.7	13.5	-90.00	-982.8	-101.0	3,564.9	3,503.1	61.77	57.712		
10,200.0	7,740.0	7,728.0	7,728.0	50.4	13.5	-90.00	-982.8	-101.0	3,664.0	3,600.5	63.46	57.736		
10,300.0	7,740.0	7,728.0	7,728.0	52.1	13.5	-90.00	-982.8	-101.0	3,763.2	3,698.0	65.16	57.755		
10,400.0	7,740.0	7,728.0	7,728.0	53.7	13.5	-90.00	-982.8	-101.0	3,862.4	3,795.5	66.86	57.771		
10,500.0	7,740.0	7,728.0	7,728.0	55.4	13.5	-90.00	-982.8	-101.0	3,961.6	3,893.1	68.56	57.784		
10,600.0	7,740.0	7,728.0	7,728.0	57.1	13.5	-90.00	-982.8	-101.0	4,060.9	3,990.7	70.27	57.794		
10,700.0	7,740.0	7,728.0	7,728.0	58.8	13.5	-90.00	-982.8	-101.0	4,160.2	4,088.3	71.97	57.802		
10,800.0	7,740.0	7,728.0	7,728.0	60.5	13.5	-90.00	-982.8	-101.0	4,259.6	4,185.9	73.69	57.808		
10,900.0	7,740.0	7,728.0	7,728.0	62.2	13.5	-90.00	-982.8	-101.0	4,359.0	4,283.6	75.40	57.812		
11,000.0	7,740.0	7,728.0	7,728.0	63.9	13.5	-90.00	-982.8	-101.0	4,458.4	4,381.3	77.12	57.814		
11,100.0	7,740.0	7,728.0	7,728.0	65.7	13.5	-90.00	-982.8	-101.0	4,557.8	4,479.0	78.83	57.816		
11,200.0	7,740.0	7,728.0	7,728.0	67.4	13.5	-90.00	-982.8	-101.0	4,657.3	4,576.7	80.55	57.816		
11,300.0	7,740.0	7,728.0	7,728.0	69.1	13.5	-90.00	-982.8	-101.0	4,756.8	4,674.5	82.28	57.815		
11,400.0	7,740.0	7,728.0	7,728.0	70.8	13.5	-90.00	-982.8	-101.0	4,856.3	4,772.3	84.00	57.814		
11,500.0	7,740.0	7,728.0	7,728.0	72.5	13.5	-90.00	-982.8	-101.0	4,955.8	4,870.1	85.72	57.812		
11,600.0	7,740.0	7,728.0	7,728.0	74.2	13.5	-90.00	-982.8	-101.0	5,055.3	4,967.9	87.45	57.809		
11,700.0	7,740.0	7,728.0	7,728.0	76.0	13.5	-90.00	-982.8	-101.0	5,154.9	5,065.7	89.18	57.805		
11,800.0	7,740.0	7,728.0	7,728.0	77.7	13.5	-90.00	-982.8	-101.0	5,254.5	5,163.6	90.91	57.801		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
0.0	0.0	64.5	64.5	0.0	0.1	35.62	1,607.2	1,151.3	1,977.1					
100.0	100.0	189.9	189.9	0.2	0.3	35.57	1,606.8	1,149.1	1,975.8	1,975.3	0.49	4,061.332		
200.0	200.0	325.5	325.4	0.3	0.6	35.49	1,605.4	1,144.5	1,973.0	1,972.1	0.91	2,175.888		
300.0	300.0	434.3	434.0	0.5	0.8	35.36	1,604.3	1,138.3	1,968.8	1,967.5	1.28	1,536.729		
400.0	400.0	521.3	520.8	0.7	1.0	35.18	1,605.3	1,131.5	1,965.2	1,963.6	1.61	1,220.109		
500.0	500.0	786.4	782.2	0.8	1.9	34.06	1,611.2	1,089.0	1,958.3	1,955.9	2.32	844.986		
600.0	600.0	908.8	901.6	1.0	2.4	33.41	1,610.7	1,062.5	1,945.7	1,942.9	2.77	703.077		
700.0	700.0	1,032.2	1,022.1	1.2	2.9	-64.10	1,609.2	1,035.9	1,932.4	1,928.6	3.82	506.491		
800.0	800.0	1,171.2	1,157.0	1.4	3.5	-65.15	1,606.3	1,002.7	1,916.5	1,912.0	4.55	421.331		
897.7	897.5	1,271.2	1,253.4	1.6	4.0	-66.09	1,604.0	976.0	1,898.9	1,893.7	5.17	367.513		
900.0	899.9	1,273.2	1,255.3	1.6	4.0	-66.10	1,604.0	975.4	1,898.4	1,893.3	5.18	366.483		
1,000.0	999.7	1,390.1	1,367.7	1.7	4.6	-67.08	1,601.5	943.3	1,880.2	1,874.3	5.89	319.278		
1,100.0	1,099.6	1,483.1	1,457.0	1.9	5.1	-67.88	1,598.8	917.5	1,861.5	1,855.0	6.51	285.796		
1,200.0	1,199.5	1,557.0	1,527.9	2.1	5.5	-68.54	1,597.4	896.7	1,843.8	1,836.7	7.06	261.058		
1,300.0	1,299.3	1,644.0	1,611.5	2.3	6.0	-69.32	1,596.2	872.7	1,827.3	1,819.7	7.67	238.271		
1,400.0	1,399.2	1,750.6	1,714.1	2.5	6.5	-70.27	1,594.4	843.9	1,811.2	1,802.8	8.38	216.038		
1,500.0	1,499.1	1,845.1	1,804.7	2.7	7.0	-71.18	1,593.3	816.8	1,795.3	1,786.2	9.08	197.651		
1,600.0	1,598.9	1,947.1	1,902.1	2.9	7.6	-72.21	1,592.2	786.4	1,779.4	1,769.5	9.84	180.873		
1,700.0	1,698.8	2,059.4	2,009.4	3.1	8.2	-73.35	1,590.4	753.5	1,763.8	1,753.1	10.63	165.924		
1,800.0	1,798.6	2,132.9	2,079.9	3.3	8.6	-74.06	1,588.2	733.1	1,748.1	1,736.9	11.20	156.062		
1,900.0	1,898.5	2,228.9	2,172.1	3.5	9.1	-75.01	1,586.7	706.6	1,734.3	1,722.4	11.93	145.380		
2,000.0	1,998.4	2,342.0	2,279.9	3.7	9.8	-76.24	1,584.3	672.1	1,719.3	1,706.5	12.79	134.426		
2,100.0	2,098.2	2,430.0	2,363.6	3.9	10.3	-77.22	1,582.8	645.0	1,705.2	1,691.7	13.52	126.109		
2,200.0	2,198.1	2,482.2	2,413.3	4.1	10.6	-77.82	1,582.8	629.2	1,693.3	1,679.3	14.03	120.679		
2,300.0	2,298.0	2,564.3	2,491.7	4.2	11.0	-78.74	1,583.8	604.9	1,683.4	1,668.7	14.72	114.392		
2,400.0	2,397.8	2,653.1	2,576.7	4.4	11.5	-79.74	1,584.7	579.3	1,674.3	1,658.9	15.44	108.444		
2,500.0	2,497.7	2,750.4	2,669.9	4.6	12.1	-80.84	1,586.1	551.2	1,666.3	1,650.0	16.22	102.721		
2,600.0	2,597.6	2,863.0	2,777.7	4.8	12.7	-82.13	1,586.8	518.6	1,658.0	1,640.9	17.08	97.049		
2,700.0	2,697.4	2,974.2	2,884.5	5.0	13.3	-83.35	1,585.6	487.7	1,649.2	1,631.3	17.90	92.131		
2,800.0	2,797.3	3,082.9	2,989.1	5.2	13.8	-84.53	1,584.0	458.4	1,640.9	1,622.2	18.70	87.737		
2,900.0	2,897.2	3,179.1	3,081.5	5.4	14.4	-85.59	1,581.0	431.7	1,631.4	1,612.0	19.45	83.874		
3,000.0	2,997.0	3,263.0	3,162.0	5.6	14.8	-86.56	1,579.7	407.8	1,623.8	1,603.6	20.14	80.622		
3,100.0	3,096.9	3,347.4	3,242.8	5.8	15.3	-87.54	1,578.4	383.7	1,616.9	1,596.1	20.83	77.615		
3,200.0	3,196.8	3,437.6	3,329.4	6.0	15.7	-88.59	1,577.9	358.3	1,611.6	1,590.1	21.54	74.813		
3,300.0	3,296.6	3,526.3	3,414.8	6.2	16.2	-89.58	1,577.0	334.6	1,606.7	1,584.5	22.22	72.308		
3,400.0	3,396.5	3,596.1	3,482.2	6.4	16.6	-90.35	1,577.0	316.4	1,603.5	1,580.7	22.80	70.319		
3,487.4	3,483.8	3,652.8	3,536.8	6.6	16.9	-91.00	1,578.0	300.9	1,602.6	1,579.3	23.30	68.772		
3,500.0	3,496.4	3,664.7	3,548.2	6.6	16.9	-91.14	1,578.3	297.5	1,602.6	1,579.2	23.40	68.495		
3,600.0	3,596.2	3,790.3	3,668.5	6.8	17.6	-92.64	1,581.3	261.9	1,602.9	1,578.6	24.31	65.929		
3,700.0	3,696.1	3,909.1	3,782.7	7.0	18.2	-94.03	1,580.8	229.1	1,600.9	1,575.8	25.17	63.603		
3,800.0	3,796.0	3,991.2	3,861.5	7.2	18.7	-95.00	1,580.5	205.9	1,599.8	1,574.0	25.83	61.939		
3,900.0	3,895.8	4,097.6	3,963.2	7.4	19.3	-96.30	1,580.3	174.8	1,599.5	1,572.9	26.64	60.033		
4,000.0	3,995.7	4,227.1	4,087.0	7.6	20.0	-97.89	1,578.0	136.7	1,598.5	1,570.9	27.56	57.991		
4,099.0	4,094.5	4,302.5	4,159.2	7.8	20.4	-98.80	1,575.8	115.1	1,597.2	1,569.0	28.17	56.696		
4,100.0	4,095.5	4,303.1	4,159.7	7.8	20.4	-98.81	1,575.7	114.9	1,597.2	1,569.0	28.18	56.685		
4,200.0	4,195.4	4,364.0	4,218.1	8.0	20.8	-99.55	1,575.4	97.3	1,598.7	1,570.0	28.70	55.709		
4,300.0	4,295.3	4,458.5	4,309.0	8.2	21.2	-100.63	1,575.8	71.6	1,601.7	1,572.4	29.34	54.589		
4,400.0	4,395.1	4,548.3	4,396.3	8.4	21.6	-101.53	1,576.6	50.8	1,605.5	1,575.6	29.89	53.714		
4,500.0	4,495.0	4,643.0	4,489.2	8.6	21.9	-102.35	1,578.1	32.3	1,610.0	1,579.6	30.40	52.957		
4,600.0	4,594.9	4,744.8	4,589.5	8.8	22.3	-103.12	1,579.9	15.3	1,614.8	1,583.9	30.89	52.268		
4,700.0	4,694.7	4,845.4	4,689.1	8.9	22.5	-103.81	1,581.7	0.7	1,619.5	1,588.2	31.35	51.661		
4,800.0	4,794.6	4,941.5	4,784.3	9.1	22.8	-104.40	1,583.6	-11.7	1,624.5	1,592.7	31.76	51.143		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
4,900.0	4,894.5	5,050.2	4,892.3	9.3	23.0	-105.00	1,585.9	-23.7	1,629.4	1,597.3	32.18	50.638	
5,000.0	4,994.3	5,159.3	5,000.9	9.5	23.3	-105.56	1,587.5	-34.5	1,633.8	1,601.2	32.58	50.155	
5,100.0	5,094.2	5,257.0	5,098.2	9.7	23.5	-106.01	1,588.9	-42.8	1,638.0	1,605.1	32.92	49.753	
5,200.0	5,194.1	5,353.2	5,194.3	9.9	23.6	-106.38	1,590.9	-49.0	1,642.6	1,609.4	33.24	49.411	
5,300.0	5,293.9	5,463.5	5,304.3	10.1	23.8	-106.75	1,593.2	-54.6	1,647.0	1,613.4	33.56	49.074	
5,400.0	5,393.8	5,567.5	5,408.3	10.3	23.9	-107.05	1,595.0	-58.6	1,650.9	1,617.0	33.86	48.755	
5,500.0	5,493.7	5,660.0	5,500.7	10.5	24.0	-107.31	1,596.5	-61.7	1,654.6	1,620.5	34.15	48.458	
5,600.0	5,593.5	5,758.3	5,598.9	10.7	24.1	-107.57	1,598.4	-64.8	1,658.7	1,624.3	34.42	48.185	
5,700.0	5,693.4	5,850.8	5,691.4	10.9	24.2	-107.79	1,600.8	-67.3	1,663.4	1,628.7	34.70	47.939	
5,800.0	5,793.3	5,955.3	5,795.8	11.1	24.3	-108.04	1,603.6	-69.8	1,668.1	1,633.1	34.98	47.687	
5,900.0	5,893.1	6,062.1	5,902.5	11.3	24.4	-108.28	1,606.2	-72.2	1,672.5	1,637.2	35.25	47.444	
6,000.0	5,993.0	6,171.5	6,011.8	11.5	24.5	-108.49	1,608.4	-73.5	1,676.4	1,640.9	35.52	47.198	
6,100.0	6,092.8	6,271.5	6,111.9	11.7	24.6	-108.68	1,610.2	-74.3	1,680.0	1,644.2	35.79	46.939	
6,200.0	6,192.7	6,369.8	6,210.1	11.9	24.7	-108.87	1,612.0	-75.5	1,683.7	1,647.6	36.06	46.687	
6,300.0	6,292.6	6,464.6	6,304.9	12.1	24.8	-109.07	1,613.8	-77.0	1,687.6	1,651.2	36.34	46.440	
6,400.0	6,392.4	6,561.4	6,401.6	12.3	25.0	-109.27	1,615.8	-78.9	1,691.8	1,655.1	36.62	46.202	
6,500.0	6,492.3	6,663.2	6,503.4	12.5	25.1	-109.50	1,617.9	-81.2	1,695.9	1,659.0	36.91	45.954	
6,600.0	6,592.2	6,761.4	6,601.6	12.7	25.2	-109.73	1,619.8	-83.7	1,700.1	1,662.9	37.19	45.720	
6,700.0	6,692.0	6,857.0	6,697.1	12.9	25.3	-109.94	1,621.8	-85.8	1,704.5	1,667.0	37.46	45.502	
6,800.0	6,791.9	6,954.3	6,794.4	13.1	25.4	-110.15	1,624.2	-87.7	1,709.1	1,671.4	37.73	45.296	
6,900.0	6,891.8	7,052.3	6,892.4	13.3	25.5	-110.34	1,626.8	-89.4	1,713.9	1,675.9	38.00	45.097	
7,000.0	6,991.6	7,152.4	6,992.4	13.5	25.6	-110.53	1,629.5	-90.8	1,718.7	1,680.4	38.27	44.909	
7,100.0	7,091.5	7,253.7	7,093.7	13.7	25.7	-110.70	1,632.3	-91.9	1,723.5	1,684.9	38.54	44.721	
7,172.4	7,163.8	7,329.9	7,169.8	13.8	25.8	-110.83	1,634.4	-92.5	1,726.8	1,688.1	38.74	44.580	
7,200.0	7,191.4	7,358.9	7,198.8	13.9	25.8	-64.54	1,635.1	-92.8	1,727.4	1,688.6	38.79	44.528	
7,250.0	7,241.1	7,411.1	7,250.9	14.0	25.9	-35.25	1,636.3	-93.2	1,725.1	1,686.4	38.71	44.570	
7,300.0	7,290.3	7,459.5	7,299.4	14.0	25.9	-27.17	1,637.5	-93.5	1,718.6	1,680.3	38.36	44.799	
7,350.0	7,338.5	7,507.2	7,347.1	14.1	25.9	-23.87	1,638.7	-93.6	1,708.0	1,670.2	37.78	45.207	
7,400.0	7,385.5	7,553.8	7,393.6	14.2	26.0	-22.38	1,639.9	-93.6	1,693.3	1,656.3	36.97	45.799	
7,450.0	7,430.8	7,598.7	7,438.5	14.3	26.0	-21.83	1,641.2	-93.5	1,674.6	1,638.7	35.95	46.581	
7,500.0	7,474.1	7,641.6	7,481.4	14.5	26.1	-21.91	1,642.4	-93.4	1,652.2	1,617.5	34.74	47.556	
7,550.0	7,515.0	7,682.3	7,522.1	14.6	26.1	-22.50	1,643.6	-93.3	1,626.2	1,592.9	33.38	48.721	
7,600.0	7,553.3	7,720.6	7,560.4	14.8	26.1	-23.57	1,644.7	-93.1	1,596.9	1,565.0	31.90	50.060	
7,650.0	7,588.7	7,755.0	7,594.8	15.0	26.2	-25.14	1,645.8	-93.0	1,564.4	1,534.0	30.36	51.520	
7,700.0	7,620.9	7,782.0	7,621.7	15.2	26.2	-27.21	1,646.7	-92.8	1,529.0	1,500.2	28.85	53.006	
7,750.0	7,649.6	7,805.7	7,645.4	15.5	26.2	-29.94	1,647.6	-92.7	1,491.2	1,463.8	27.46	54.302	
7,800.0	7,674.7	7,826.9	7,666.6	15.8	26.2	-33.55	1,648.5	-92.7	1,451.2	1,424.8	26.36	55.044	
7,850.0	7,695.9	7,845.3	7,685.0	16.1	26.2	-38.28	1,649.4	-92.6	1,409.2	1,383.5	25.76	54.714	
7,900.0	7,713.1	7,860.9	7,700.6	16.5	26.2	-44.48	1,650.2	-92.5	1,365.6	1,339.8	25.86	52.817	
7,950.0	7,726.1	7,873.4	7,713.1	16.9	26.3	-52.52	1,650.8	-92.5	1,320.7	1,293.9	26.79	49.303	
8,000.0	7,734.9	7,882.7	7,722.3	17.4	26.3	-62.68	1,651.3	-92.4	1,274.9	1,246.5	28.39	44.907	
8,050.0	7,739.4	7,888.6	7,728.2	17.9	26.3	-74.78	1,651.6	-92.4	1,228.4	1,198.3	30.08	40.841	
8,076.4	7,740.0	7,890.3	7,730.0	18.2	26.3	-81.67	1,651.7	-92.4	1,203.7	1,173.0	30.74	39.163	
8,100.0	7,740.0	7,891.4	7,731.1	18.4	26.3	-81.82	1,651.8	-92.4	1,181.7	1,150.7	31.01	38.106	
8,200.0	7,740.0	7,896.2	7,735.8	19.6	26.3	-82.45	1,652.1	-92.4	1,089.1	1,056.9	32.24	33.786	
8,300.0	7,740.0	7,901.2	7,740.8	20.8	26.3	-83.11	1,652.4	-92.4	997.9	964.4	33.54	29.750	
8,400.0	7,740.0	7,906.3	7,745.9	22.1	26.3	-83.79	1,652.7	-92.4	908.5	873.6	34.92	26.019	
8,500.0	7,740.0	7,911.5	7,751.1	23.4	26.3	-84.49	1,653.0	-92.3	821.5	785.2	36.35	22.601	
8,600.0	7,740.0	7,917.0	7,756.6	24.8	26.3	-85.22	1,653.3	-92.3	737.8	700.0	37.82	19.506	
8,700.0	7,740.0	7,930.0	7,769.5	26.3	26.3	-86.97	1,654.1	-92.3	658.6	619.2	39.36	16.733	
8,800.0	7,740.0	7,930.0	7,769.5	27.8	26.3	-86.97	1,654.1	-92.3	585.7	544.8	40.88	14.326	
8,900.0	7,740.0	7,934.6	7,774.1	29.3	26.3	-87.59	1,654.4	-92.3	521.7	479.3	42.44	12.293	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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				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	7,941.0	7,780.5	30.8	26.3	-88.44	1,654.9	-92.2	470.5	426.5	44.02	10.687	
9,100.0	7,740.0	7,947.6	7,787.1	32.4	26.3	-89.33	1,655.3	-92.2	436.4	390.7	45.62	9.566	
9,200.0	7,740.0	7,954.4	7,793.9	33.9	26.3	-90.25	1,655.8	-92.2	423.5	376.3	47.22	8.969	
9,205.4	7,740.0	7,954.8	7,794.3	34.0	26.3	-90.30	1,655.8	-92.2	423.5	376.2	47.31	8.952 CC, ES	
9,300.0	7,740.0	7,961.5	7,800.9	35.5	26.3	-91.21	1,656.3	-92.2	433.9	385.1	48.83	8.886 SF	
9,400.0	7,740.0	7,968.8	7,808.3	37.2	26.3	-92.20	1,656.8	-92.1	465.9	415.4	50.43	9.238	
9,500.0	7,740.0	7,976.4	7,815.9	38.8	26.3	-93.23	1,657.3	-92.1	515.5	463.4	52.03	9.907	
9,600.0	7,740.0	7,984.3	7,823.8	40.4	26.4	-94.29	1,657.9	-92.0	578.1	524.5	53.61	10.783	
9,700.0	7,740.0	7,992.6	7,832.0	42.0	26.4	-95.39	1,658.5	-92.0	650.1	594.9	55.19	11.781	
9,800.0	7,740.0	8,001.1	7,840.5	43.7	26.4	-96.54	1,659.2	-92.0	728.7	671.9	56.74	12.843	
9,900.0	7,740.0	8,010.0	7,849.4	45.4	26.4	-97.72	1,659.9	-91.9	811.9	753.6	58.26	13.934	
10,000.0	7,740.0	8,019.3	7,858.6	47.0	26.4	-98.95	1,660.6	-91.9	898.4	838.7	59.76	15.034	
10,100.0	7,740.0	8,029.0	7,868.3	48.7	26.4	-100.23	1,661.4	-91.8	987.4	926.2	61.22	16.130	
10,200.0	7,740.0	8,039.1	7,878.4	50.4	26.4	-101.54	1,662.2	-91.7	1,078.3	1,015.7	62.63	17.217	
10,300.0	7,740.0	8,049.7	7,888.9	52.1	26.4	-102.91	1,663.1	-91.7	1,170.6	1,106.6	64.00	18.292	
10,400.0	7,740.0	8,060.8	7,899.9	53.7	26.4	-104.32	1,664.1	-91.6	1,264.0	1,198.7	65.30	19.356	
10,500.0	7,740.0	8,072.3	7,911.5	55.4	26.4	-105.78	1,665.1	-91.5	1,358.2	1,291.7	66.54	20.411	
10,600.0	7,740.0	8,084.5	7,923.6	57.1	26.4	-107.29	1,666.2	-91.4	1,453.2	1,385.5	67.71	21.461	
10,700.0	7,740.0	8,097.2	7,936.2	58.8	26.5	-108.85	1,667.4	-91.3	1,548.7	1,479.9	68.80	22.510	
10,800.0	7,740.0	8,104.0	7,943.0	60.5	26.5	-109.67	1,668.1	-91.3	1,644.7	1,574.6	70.11	23.459	
10,900.0	7,740.0	8,104.0	7,943.0	62.2	26.5	-109.67	1,668.1	-91.3	1,741.1	1,669.4	71.72	24.276	
11,000.0	7,740.0	8,104.0	7,943.0	63.9	26.5	-109.67	1,668.1	-91.3	1,837.9	1,764.6	73.34	25.061	
11,100.0	7,740.0	8,129.3	7,968.2	65.7	26.5	-112.65	1,670.4	-91.1	1,934.8	1,861.2	73.62	26.280	
11,200.0	7,740.0	8,136.2	7,975.0	67.4	26.5	-113.44	1,671.1	-91.1	2,032.1	1,957.3	74.82	27.160	
11,300.0	7,740.0	8,142.9	7,981.7	69.1	26.5	-114.20	1,671.7	-91.0	2,129.6	2,053.6	76.00	28.020	
11,400.0	7,740.0	8,149.4	7,988.2	70.8	26.5	-114.94	1,672.2	-91.0	2,227.3	2,150.1	77.17	28.862	
11,500.0	7,740.0	8,155.8	7,994.6	72.5	26.5	-115.65	1,672.8	-90.9	2,325.2	2,246.9	78.33	29.686	
11,600.0	7,740.0	8,162.1	8,000.8	74.2	26.5	-116.33	1,673.4	-90.9	2,423.2	2,343.7	79.47	30.493	
11,700.0	7,740.0	8,168.2	8,006.9	76.0	26.5	-117.00	1,673.9	-90.9	2,521.4	2,440.8	80.60	31.283	
11,800.0	7,740.0	8,174.2	8,012.9	77.7	26.5	-117.64	1,674.4	-90.8	2,619.7	2,537.9	81.72	32.057	
11,900.0	7,740.0	8,180.1	8,018.7	79.4	26.5	-118.26	1,674.9	-90.8	2,718.0	2,635.2	82.83	32.816	
12,000.0	7,740.0	8,185.8	8,024.5	81.1	26.5	-118.86	1,675.4	-90.8	2,816.5	2,732.6	83.93	33.560	
12,100.0	7,740.0	8,191.4	8,030.0	82.9	26.5	-119.44	1,675.8	-90.8	2,915.1	2,830.1	85.01	34.290	
12,200.0	7,740.0	8,196.9	8,035.5	84.6	26.6	-120.01	1,676.3	-90.7	3,013.7	2,927.7	86.09	35.006	
12,300.0	7,740.0	8,202.3	8,040.9	86.3	26.6	-120.55	1,676.7	-90.7	3,112.5	3,025.3	87.16	35.709	
12,400.0	7,740.0	8,207.6	8,046.1	88.0	26.6	-121.08	1,677.1	-90.7	3,211.3	3,123.0	88.22	36.399	
12,500.0	7,740.0	8,212.7	8,051.3	89.8	26.6	-121.59	1,677.5	-90.7	3,310.1	3,220.8	89.28	37.076	
12,600.0	7,740.0	8,217.8	8,056.3	91.5	26.6	-122.09	1,677.9	-90.7	3,409.0	3,318.7	90.32	37.742	
12,700.0	7,740.0	8,222.7	8,061.3	93.2	26.6	-122.57	1,678.3	-90.7	3,508.0	3,416.6	91.36	38.395	
12,800.0	7,740.0	8,227.6	8,066.1	95.0	26.6	-123.03	1,678.7	-90.6	3,607.0	3,514.6	92.40	39.038	
12,900.0	7,740.0	8,232.3	8,070.9	96.7	26.6	-123.49	1,679.0	-90.6	3,706.0	3,612.6	93.42	39.669	
13,000.0	7,740.0	8,237.0	8,075.5	98.4	26.6	-123.92	1,679.4	-90.6	3,805.1	3,710.6	94.44	40.290	
13,100.0	7,740.0	8,241.6	8,080.1	100.2	26.6	-124.35	1,679.7	-90.6	3,904.2	3,808.8	95.46	40.900	
13,200.0	7,740.0	8,279.0	8,117.4	101.9	26.6	-127.67	1,682.4	-90.6	4,003.6	3,910.3	93.33	42.897	
13,300.0	7,740.0	8,279.0	8,117.4	103.6	26.6	-127.67	1,682.4	-90.6	4,102.7	4,008.0	94.71	43.319	
13,400.0	7,740.0	8,279.0	8,117.4	105.4	26.6	-127.67	1,682.4	-90.6	4,201.9	4,105.8	96.09	43.729	
13,500.0	7,740.0	8,279.0	8,117.4	107.1	26.6	-127.67	1,682.4	-90.6	4,301.1	4,203.6	97.47	44.127	
13,600.0	7,740.0	8,279.0	8,117.4	108.9	26.6	-127.67	1,682.4	-90.6	4,400.4	4,301.5	98.85	44.514	
13,700.0	7,740.0	8,279.0	8,117.4	110.6	26.6	-127.67	1,682.4	-90.6	4,499.6	4,399.4	100.24	44.891	
13,800.0	7,740.0	8,279.0	8,117.4	112.3	26.6	-127.67	1,682.4	-90.6	4,599.0	4,497.3	101.62	45.258	
13,900.0	7,740.0	8,279.0	8,117.4	114.1	26.6	-127.67	1,682.4	-90.6	4,698.3	4,595.3	103.00	45.615	
14,000.0	7,740.0	8,279.0	8,117.4	115.8	26.6	-127.67	1,682.4	-90.6	4,797.7	4,693.3	104.38	45.962	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
14,076.4	7,740.0	8,279.0	8,117.4	117.1	26.6	-127.67	1,682.4	-90.6	4,873.6	4,768.2	105.44	46.222		
14,100.0	7,740.0	8,279.0	8,117.4	117.6	26.6	-126.40	1,682.4	-90.6	4,897.1	4,789.7	107.39	45.601		
14,200.0	7,740.0	8,279.0	8,117.4	119.3	26.6	-121.69	1,682.4	-90.6	4,996.4	4,881.9	114.45	43.656		
14,300.0	7,740.0	8,279.0	8,117.4	121.0	26.6	-117.90	1,682.4	-90.6	5,095.5	4,975.5	120.00	42.461		
14,338.4	7,740.0	8,279.0	8,117.4	121.7	26.6	-116.65	1,682.4	-90.6	5,133.6	5,011.7	121.84	42.133		
14,400.0	7,740.0	8,279.0	8,117.4	122.8	26.6	-116.65	1,682.4	-90.6	5,194.5	5,071.7	122.80	42.299		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	-40.83	131.5	-113.6	173.8					
100.0	100.0	188.0	188.0	0.2	0.3	-40.83	131.5	-113.6	173.8	173.3	0.48	361.948		
200.0	200.0	288.0	288.0	0.3	0.5	-40.83	131.5	-113.6	173.8	173.0	0.83	209.586		
300.0	300.0	388.0	388.0	0.5	0.7	-40.83	131.5	-113.6	173.8	172.6	1.18	147.497		
400.0	400.0	488.0	488.0	0.7	0.9	-40.83	131.5	-113.6	173.8	172.3	1.53	113.787		
500.0	500.0	588.0	588.0	0.8	1.0	-40.83	131.5	-113.6	173.8	171.9	1.88	92.620		
600.0	600.0	688.0	688.0	1.0	1.2	-40.83	131.5	-113.6	173.8	171.6	2.23	78.093 CC, ES		
700.0	700.0	788.0	788.0	1.2	1.4	-137.74	131.5	-113.6	174.4	171.9	2.57	67.754		
800.0	800.0	888.0	888.0	1.4	1.5	-138.30	131.5	-113.6	176.4	173.5	2.92	60.317		
897.7	897.5	985.5	985.5	1.6	1.7	-139.18	131.5	-113.6	179.6	176.3	3.27	54.961		
900.0	899.9	987.9	987.9	1.6	1.7	-139.20	131.5	-113.6	179.7	176.4	3.28	54.851		
1,000.0	999.7	1,087.7	1,087.7	1.7	1.9	-140.26	131.5	-113.6	183.6	180.0	3.63	50.607		
1,100.0	1,099.6	1,187.6	1,187.6	1.9	2.1	-141.27	131.5	-113.6	187.7	183.7	3.98	47.125		
1,200.0	1,199.5	1,287.5	1,287.5	2.1	2.2	-142.24	131.5	-113.6	191.7	187.4	4.34	44.221		
1,300.0	1,299.3	1,387.3	1,387.3	2.3	2.4	-143.17	131.5	-113.6	195.9	191.2	4.69	41.766		
1,400.0	1,399.2	1,487.2	1,487.2	2.5	2.6	-144.06	131.5	-113.6	200.1	195.0	5.04	39.666		
1,500.0	1,499.1	1,587.1	1,587.1	2.7	2.8	-144.92	131.5	-113.6	204.3	198.9	5.40	37.852		
1,600.0	1,598.9	1,686.9	1,686.9	2.9	2.9	-145.74	131.5	-113.6	208.6	202.8	5.75	36.269		
1,700.0	1,698.8	1,786.8	1,786.8	3.1	3.1	-146.52	131.5	-113.6	212.9	206.8	6.10	34.877		
1,800.0	1,798.6	1,886.6	1,886.6	3.3	3.3	-147.28	131.5	-113.6	217.2	210.8	6.46	33.646		
1,900.0	1,898.5	1,986.5	1,986.5	3.5	3.5	-148.01	131.5	-113.6	221.6	214.8	6.81	32.548		
2,000.0	1,998.4	2,086.4	2,086.4	3.7	3.6	-148.70	131.5	-113.6	226.0	218.9	7.16	31.564		
2,100.0	2,098.2	2,186.2	2,186.2	3.9	3.8	-149.37	131.5	-113.6	230.5	223.0	7.51	30.678		
2,200.0	2,198.1	2,286.1	2,286.1	4.1	4.0	-150.02	131.5	-113.6	235.0	227.1	7.86	29.876		
2,300.0	2,298.0	2,386.0	2,386.0	4.2	4.2	-150.64	131.5	-113.6	239.5	231.3	8.22	29.147		
2,400.0	2,397.8	2,485.8	2,485.8	4.4	4.3	-151.24	131.5	-113.6	244.0	235.5	8.57	28.481		
2,500.0	2,497.7	2,585.7	2,585.7	4.6	4.5	-151.81	131.5	-113.6	248.6	239.7	8.92	27.872		
2,600.0	2,597.6	2,685.6	2,685.6	4.8	4.7	-152.37	131.5	-113.6	253.2	243.9	9.27	27.312		
2,700.0	2,697.4	2,785.4	2,785.4	5.0	4.9	-152.90	131.5	-113.6	257.8	248.2	9.62	26.796		
2,800.0	2,797.3	2,885.3	2,885.3	5.2	5.0	-153.42	131.5	-113.6	262.4	252.5	9.97	26.318		
2,900.0	2,897.2	2,985.2	2,985.2	5.4	5.2	-153.92	131.5	-113.6	267.1	256.8	10.32	25.876		
3,000.0	2,997.0	3,085.0	3,085.0	5.6	5.4	-154.40	131.5	-113.6	271.8	261.1	10.67	25.464		
3,100.0	3,096.9	3,184.9	3,184.9	5.8	5.6	-154.86	131.5	-113.6	276.4	265.4	11.02	25.081		
3,200.0	3,196.8	3,284.8	3,284.8	6.0	5.7	-155.31	131.5	-113.6	281.2	269.8	11.37	24.724		
3,300.0	3,296.6	3,384.6	3,384.6	6.2	5.9	-155.75	131.5	-113.6	285.9	274.2	11.72	24.389		
3,400.0	3,396.5	3,484.5	3,484.5	6.4	6.1	-156.17	131.5	-113.6	290.6	278.6	12.07	24.075		
3,500.0	3,496.4	3,584.4	3,584.4	6.6	6.3	-156.57	131.5	-113.6	295.4	283.0	12.42	23.781		
3,600.0	3,596.2	3,684.2	3,684.2	6.8	6.4	-156.97	131.5	-113.6	300.2	287.4	12.77	23.503		
3,700.0	3,696.1	3,784.1	3,784.1	7.0	6.6	-157.35	131.5	-113.6	304.9	291.8	13.12	23.242		
3,800.0	3,796.0	3,884.0	3,884.0	7.2	6.8	-157.72	131.5	-113.6	309.7	296.3	13.47	22.996		
3,900.0	3,895.8	3,983.8	3,983.8	7.4	7.0	-158.08	131.5	-113.6	314.6	300.7	13.82	22.763		
4,000.0	3,995.7	4,083.7	4,083.7	7.6	7.1	-158.43	131.5	-113.6	319.4	305.2	14.17	22.542		
4,100.0	4,095.5	4,183.5	4,183.5	7.8	7.3	-158.76	131.5	-113.6	324.2	309.7	14.52	22.333		
4,200.0	4,195.4	4,283.4	4,283.4	8.0	7.5	-159.09	131.5	-113.6	329.1	314.2	14.87	22.135		
4,300.0	4,295.3	4,383.3	4,383.3	8.2	7.7	-159.41	131.5	-113.6	333.9	318.7	15.22	21.946		
4,400.0	4,395.1	4,483.1	4,483.1	8.4	7.8	-159.72	131.5	-113.6	338.8	323.2	15.56	21.767		
4,500.0	4,495.0	4,583.0	4,583.0	8.6	8.0	-160.02	131.5	-113.6	343.7	327.8	15.91	21.596		
4,600.0	4,594.9	4,682.9	4,682.9	8.8	8.2	-160.31	131.5	-113.6	348.6	332.3	16.26	21.433		
4,700.0	4,694.7	4,782.7	4,782.7	8.9	8.3	-160.59	131.5	-113.6	353.4	336.8	16.61	21.277		
4,800.0	4,794.6	4,882.6	4,882.6	9.1	8.5	-160.87	131.5	-113.6	358.3	341.4	16.96	21.129		
4,900.0	4,894.5	4,982.5	4,982.5	9.3	8.7	-161.14	131.5	-113.6	363.3	345.9	17.31	20.987		
5,000.0	4,994.3	5,082.3	5,082.3	9.5	8.9	-161.40	131.5	-113.6	368.2	350.5	17.66	20.851		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
5,100.0	5,094.2	5,182.2	5,182.2	9.7	9.0	-161.65	131.5	-113.6	373.1	355.1	18.01	20.721	
5,200.0	5,194.1	5,282.1	5,282.1	9.9	9.2	-161.90	131.5	-113.6	378.0	359.7	18.35	20.596	
5,300.0	5,293.9	5,381.9	5,381.9	10.1	9.4	-162.14	131.5	-113.6	383.0	364.3	18.70	20.476	
5,400.0	5,393.8	5,481.8	5,481.8	10.3	9.6	-162.38	131.5	-113.6	387.9	368.9	19.05	20.361	
5,500.0	5,493.7	5,581.7	5,581.7	10.5	9.7	-162.61	131.5	-113.6	392.9	373.5	19.40	20.250	
5,600.0	5,593.5	5,681.5	5,681.5	10.7	9.9	-162.83	131.5	-113.6	397.8	378.1	19.75	20.144	
5,700.0	5,693.4	5,781.4	5,781.4	10.9	10.1	-163.05	131.5	-113.6	402.8	382.7	20.10	20.042	
5,800.0	5,793.3	5,881.3	5,881.3	11.1	10.3	-163.26	131.5	-113.6	407.8	387.3	20.45	19.943	
5,900.0	5,893.1	5,981.1	5,981.1	11.3	10.4	-163.47	131.5	-113.6	412.7	391.9	20.79	19.848	
6,000.0	5,993.0	6,081.0	6,081.0	11.5	10.6	-163.67	131.5	-113.6	417.7	396.6	21.14	19.757	
6,100.0	6,092.8	6,180.8	6,180.8	11.7	10.8	-163.87	131.5	-113.6	422.7	401.2	21.49	19.668	
6,200.0	6,192.7	6,280.7	6,280.7	11.9	11.0	-164.06	131.5	-113.6	427.7	405.9	21.84	19.583	
6,300.0	6,292.6	6,380.6	6,380.6	12.1	11.1	-164.25	131.5	-113.6	432.7	410.5	22.19	19.501	
6,400.0	6,392.4	6,480.4	6,480.4	12.3	11.3	-164.44	131.5	-113.6	437.7	415.2	22.54	19.421	
6,500.0	6,492.3	6,580.3	6,580.3	12.5	11.5	-164.62	131.5	-113.6	442.7	419.8	22.89	19.344	
6,600.0	6,592.2	6,680.2	6,680.2	12.7	11.7	-164.79	131.5	-113.6	447.7	424.5	23.23	19.270	
6,700.0	6,692.0	6,780.0	6,780.0	12.9	11.8	-164.96	131.5	-113.6	452.7	429.1	23.58	19.198	
6,800.0	6,791.9	6,879.9	6,879.9	13.1	12.0	-165.13	131.5	-113.6	457.7	433.8	23.93	19.128	
6,900.0	6,891.8	6,979.8	6,979.8	13.3	12.2	-165.30	131.5	-113.6	462.8	438.5	24.28	19.060	
7,000.0	6,991.6	7,079.6	7,079.6	13.5	12.4	-165.46	131.5	-113.6	467.8	443.2	24.63	18.995	
7,100.0	7,091.5	7,179.5	7,179.5	13.7	12.5	-165.62	131.5	-113.6	472.8	447.8	24.98	18.931	
7,172.4	7,163.8	7,251.8	7,251.8	13.8	12.7	-165.73	131.5	-113.6	476.5	451.2	25.23	18.886	
7,200.0	7,191.4	7,279.4	7,279.4	13.9	12.7	-119.41	131.5	-113.6	477.6	452.3	25.33	18.853	
7,250.0	7,241.1	7,329.1	7,329.1	14.0	12.8	-90.45	131.5	-113.6	478.4	452.9	25.51	18.755	
7,300.0	7,290.3	7,378.3	7,378.3	14.0	12.9	-83.18	131.5	-113.6	477.8	452.1	25.67	18.611	
7,350.0	7,338.5	7,426.5	7,426.5	14.1	13.0	-81.12	131.5	-113.6	475.9	450.0	25.83	18.424	
7,400.0	7,385.5	7,473.5	7,473.5	14.2	13.0	-81.23	131.5	-113.6	473.0	447.0	25.99	18.200	
7,450.0	7,430.8	7,518.8	7,518.8	14.3	13.1	-82.55	131.5	-113.6	469.7	443.5	26.17	17.950	
7,500.0	7,474.1	7,562.1	7,562.1	14.5	13.2	-84.60	131.5	-113.6	466.5	440.1	26.36	17.694	
7,550.0	7,515.0	7,603.0	7,603.0	14.6	13.3	-87.09	131.5	-113.6	463.9	437.4	26.58	17.457	
7,600.0	7,553.3	7,641.3	7,641.3	14.8	13.3	-89.76	131.5	-113.6	462.8	436.0	26.80	17.269	
7,604.5	7,556.6	7,644.6	7,644.6	14.8	13.3	-90.00	131.5	-113.6	462.8	436.0	26.82	17.255	
7,650.0	7,588.7	7,676.7	7,676.7	15.0	13.4	-92.38	131.5	-113.6	463.8	436.8	27.03	17.158	
7,700.0	7,620.9	7,708.9	7,708.9	15.2	13.5	-94.76	131.5	-113.6	467.6	440.3	27.27	17.146 SF	
7,750.0	7,649.6	7,737.6	7,737.6	15.5	13.5	-96.69	131.5	-113.6	474.7	447.2	27.53	17.243	
7,800.0	7,674.7	7,762.7	7,762.7	15.8	13.5	-98.03	131.5	-113.6	485.6	457.8	27.83	17.449	
7,850.0	7,695.9	7,783.9	7,783.9	16.1	13.6	-98.65	131.5	-113.6	500.5	472.3	28.20	17.751	
7,900.0	7,713.1	7,801.1	7,801.1	16.5	13.6	-98.44	131.5	-113.6	519.5	490.9	28.65	18.133	
7,950.0	7,726.1	7,814.1	7,814.1	16.9	13.6	-97.31	131.5	-113.6	542.4	513.2	29.20	18.578	
8,000.0	7,734.9	7,822.9	7,822.9	17.4	13.7	-95.20	131.5	-113.6	568.8	539.0	29.80	19.085	
8,050.0	7,739.4	7,827.4	7,827.4	17.9	13.7	-92.07	131.5	-113.6	598.3	567.9	30.42	19.668	
8,076.4	7,740.0	7,828.0	7,828.0	18.2	13.7	-90.00	131.5	-113.6	614.9	584.2	30.71	20.021	
8,100.0	7,740.0	7,828.0	7,828.0	18.4	13.7	-90.00	131.5	-113.6	630.3	599.3	30.98	20.344	
8,200.0	7,740.0	7,828.0	7,828.0	19.6	13.7	-90.00	131.5	-113.6	700.7	668.5	32.19	21.770	
8,300.0	7,740.0	7,828.0	7,828.0	20.8	13.7	-90.00	131.5	-113.6	777.6	744.1	33.47	23.232	
8,400.0	7,740.0	7,828.0	7,828.0	22.1	13.7	-90.00	131.5	-113.6	859.2	824.4	34.82	24.675	
8,500.0	7,740.0	7,828.0	7,828.0	23.4	13.7	-90.00	131.5	-113.6	944.4	908.2	36.23	26.067	
8,600.0	7,740.0	7,828.0	7,828.0	24.8	13.7	-90.00	131.5	-113.6	1,032.3	994.6	37.68	27.393	
8,700.0	7,740.0	7,828.0	7,828.0	26.3	13.7	-90.00	131.5	-113.6	1,122.2	1,083.0	39.17	28.645	
8,800.0	7,740.0	7,828.0	7,828.0	27.8	13.7	-90.00	131.5	-113.6	1,213.6	1,172.9	40.70	29.821	
8,900.0	7,740.0	7,828.0	7,828.0	29.3	13.7	-90.00	131.5	-113.6	1,306.3	1,264.1	42.25	30.922	
9,000.0	7,740.0	7,828.0	7,828.0	30.8	13.7	-90.00	131.5	-113.6	1,400.1	1,356.3	43.82	31.952	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
9,100.0	7,740.0	7,828.0	7,828.0	32.4	13.7	-90.00	131.5	-113.6	1,494.6	1,449.2	45.41	32.914		
9,200.0	7,740.0	7,828.0	7,828.0	33.9	13.7	-90.00	131.5	-113.6	1,589.8	1,542.8	47.02	33.814		
9,300.0	7,740.0	7,828.0	7,828.0	35.5	13.7	-90.00	131.5	-113.6	1,685.6	1,636.9	48.64	34.656		
9,400.0	7,740.0	7,828.0	7,828.0	37.2	13.7	-90.00	131.5	-113.6	1,781.8	1,731.5	50.27	35.444		
9,500.0	7,740.0	7,828.0	7,828.0	38.8	13.7	-90.00	131.5	-113.6	1,878.4	1,826.5	51.92	36.182		
9,600.0	7,740.0	7,828.0	7,828.0	40.4	13.7	-90.00	131.5	-113.6	1,975.4	1,921.8	53.57	36.875		
9,700.0	7,740.0	7,828.0	7,828.0	42.0	13.7	-90.00	131.5	-113.6	2,072.6	2,017.4	55.23	37.526		
9,800.0	7,740.0	7,828.0	7,828.0	43.7	13.7	-90.00	131.5	-113.6	2,170.1	2,113.2	56.90	38.139		
9,900.0	7,740.0	7,828.0	7,828.0	45.4	13.7	-90.00	131.5	-113.6	2,267.8	2,209.3	58.58	38.716		
10,000.0	7,740.0	7,828.0	7,828.0	47.0	13.7	-90.00	131.5	-113.6	2,365.7	2,305.5	60.26	39.260		
10,100.0	7,740.0	7,828.0	7,828.0	48.7	13.7	-90.00	131.5	-113.6	2,463.8	2,401.9	61.94	39.774		
10,200.0	7,740.0	7,828.0	7,828.0	50.4	13.7	-90.00	131.5	-113.6	2,562.0	2,498.4	63.64	40.261		
10,300.0	7,740.0	7,828.0	7,828.0	52.1	13.7	-90.00	131.5	-113.6	2,660.4	2,595.1	65.33	40.721		
10,400.0	7,740.0	7,828.0	7,828.0	53.7	13.7	-90.00	131.5	-113.6	2,758.9	2,691.8	67.03	41.158		
10,500.0	7,740.0	7,828.0	7,828.0	55.4	13.7	-90.00	131.5	-113.6	2,857.4	2,788.7	68.73	41.573		
10,600.0	7,740.0	7,828.0	7,828.0	57.1	13.7	-90.00	131.5	-113.6	2,956.1	2,885.7	70.44	41.967		
10,700.0	7,740.0	7,828.0	7,828.0	58.8	13.7	-90.00	131.5	-113.6	3,054.9	2,982.7	72.15	42.342		
10,800.0	7,740.0	7,828.0	7,828.0	60.5	13.7	-90.00	131.5	-113.6	3,153.7	3,079.9	73.86	42.699		
10,900.0	7,740.0	7,828.0	7,828.0	62.2	13.7	-90.00	131.5	-113.6	3,252.6	3,177.1	75.57	43.039		
11,000.0	7,740.0	7,828.0	7,828.0	63.9	13.7	-90.00	131.5	-113.6	3,351.6	3,274.3	77.29	43.364		
11,100.0	7,740.0	7,828.0	7,828.0	65.7	13.7	-90.00	131.5	-113.6	3,450.6	3,371.6	79.01	43.675		
11,200.0	7,740.0	7,828.0	7,828.0	67.4	13.7	-90.00	131.5	-113.6	3,549.7	3,469.0	80.73	43.972		
11,300.0	7,740.0	7,828.0	7,828.0	69.1	13.7	-90.00	131.5	-113.6	3,648.9	3,566.4	82.45	44.256		
11,400.0	7,740.0	7,828.0	7,828.0	70.8	13.7	-90.00	131.5	-113.6	3,748.1	3,663.9	84.17	44.528		
11,500.0	7,740.0	7,828.0	7,828.0	72.5	13.7	-90.00	131.5	-113.6	3,847.3	3,761.4	85.90	44.789		
11,600.0	7,740.0	7,828.0	7,828.0	74.2	13.7	-90.00	131.5	-113.6	3,946.5	3,858.9	87.62	45.040		
11,700.0	7,740.0	7,828.0	7,828.0	76.0	13.7	-90.00	131.5	-113.6	4,045.8	3,956.5	89.35	45.280		
11,800.0	7,740.0	7,828.0	7,828.0	77.7	13.7	-90.00	131.5	-113.6	4,145.2	4,054.1	91.08	45.511		
11,900.0	7,740.0	7,828.0	7,828.0	79.4	13.7	-90.00	131.5	-113.6	4,244.5	4,151.7	92.81	45.734		
12,000.0	7,740.0	7,828.0	7,828.0	81.1	13.7	-90.00	131.5	-113.6	4,343.9	4,249.4	94.54	45.948		
12,100.0	7,740.0	7,828.0	7,828.0	82.9	13.7	-90.00	131.5	-113.6	4,443.4	4,347.1	96.27	46.154		
12,200.0	7,740.0	7,828.0	7,828.0	84.6	13.7	-90.00	131.5	-113.6	4,542.8	4,444.8	98.01	46.353		
12,300.0	7,740.0	7,828.0	7,828.0	86.3	13.7	-90.00	131.5	-113.6	4,642.3	4,542.5	99.74	46.544		
12,400.0	7,740.0	7,828.0	7,828.0	88.0	13.7	-90.00	131.5	-113.6	4,741.8	4,640.3	101.47	46.729		
12,500.0	7,740.0	7,828.0	7,828.0	89.8	13.7	-90.00	131.5	-113.6	4,841.3	4,738.1	103.21	46.908		
12,600.0	7,740.0	7,828.0	7,828.0	91.5	13.7	-90.00	131.5	-113.6	4,940.8	4,835.9	104.94	47.080		
12,700.0	7,740.0	7,828.0	7,828.0	93.2	13.7	-90.00	131.5	-113.6	5,040.4	4,933.7	106.68	47.247		
12,800.0	7,740.0	7,828.0	7,828.0	95.0	13.7	-90.00	131.5	-113.6	5,139.9	5,031.5	108.42	47.408		
12,900.0	7,740.0	7,828.0	7,828.0	96.7	13.7	-90.00	131.5	-113.6	5,239.5	5,129.4	110.16	47.565		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design		S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY											Offset Site Error: 0.0 ft	
Survey Program: 100-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	44.6	44.6	0.0	0.1	37.42	1,576.6	1,206.3	1,985.2					
100.0	100.0	142.5	142.5	0.2	0.3	37.45	1,576.3	1,207.4	1,985.5	1,985.1	0.40	4,955.967		
200.0	200.0	247.8	247.7	0.3	0.4	37.50	1,575.3	1,208.8	1,985.7	1,984.9	0.76	2,616.876		
300.0	300.0	349.6	349.5	0.5	0.6	37.53	1,574.7	1,209.7	1,985.7	1,984.6	1.11	1,787.288		
400.0	400.0	454.4	454.4	0.7	0.8	37.54	1,574.4	1,210.0	1,985.6	1,984.1	1.47	1,352.094		
500.0	500.0	556.6	556.5	0.8	1.0	37.54	1,574.1	1,209.7	1,985.2	1,983.4	1.82	1,089.939		
600.0	600.0	666.4	666.4	1.0	1.2	37.53	1,573.8	1,209.1	1,984.7	1,982.5	2.19	907.123		
700.0	700.0	778.1	778.1	1.2	1.4	-59.23	1,572.9	1,208.1	1,983.1	1,980.5	2.56	774.948		
800.0	800.0	882.0	882.0	1.4	1.5	-59.31	1,571.3	1,207.4	1,980.1	1,977.2	2.92	678.828		
897.7	897.5	982.6	982.5	1.6	1.7	-59.44	1,569.6	1,206.8	1,976.3	1,973.0	3.27	604.736		
900.0	899.9	985.0	985.0	1.6	1.7	-59.44	1,569.5	1,206.8	1,976.2	1,972.9	3.28	603.138		
1,000.0	999.7	1,086.8	1,086.8	1.7	1.9	-59.57	1,567.9	1,205.7	1,971.6	1,968.0	3.64	542.159		
1,100.0	1,099.6	1,194.1	1,194.0	1.9	2.1	-59.72	1,566.4	1,204.0	1,966.9	1,962.9	4.01	490.833		
1,200.0	1,199.5	1,293.0	1,292.8	2.1	2.3	-59.88	1,565.2	1,201.9	1,962.0	1,957.6	4.36	449.497		
1,300.0	1,299.3	1,394.0	1,393.8	2.3	2.4	-60.05	1,564.1	1,199.4	1,957.1	1,952.4	4.73	413.994		
1,400.0	1,399.2	1,489.6	1,489.4	2.5	2.6	-60.23	1,563.5	1,196.6	1,952.3	1,947.2	5.08	384.185		
1,500.0	1,499.1	1,584.6	1,584.3	2.7	2.8	-60.42	1,563.2	1,193.9	1,947.7	1,942.3	5.44	358.306		
1,600.0	1,598.9	1,688.6	1,688.3	2.9	3.0	-60.61	1,562.7	1,191.2	1,943.2	1,937.4	5.81	334.633		
1,700.0	1,698.8	1,780.7	1,780.4	3.1	3.1	-60.80	1,562.5	1,188.5	1,938.8	1,932.6	6.16	314.818		
1,800.0	1,798.6	1,879.3	1,878.9	3.3	3.3	-61.00	1,562.6	1,185.7	1,934.6	1,928.1	6.52	296.655		
1,900.0	1,898.5	1,969.6	1,969.2	3.5	3.5	-61.17	1,562.5	1,183.6	1,930.7	1,923.8	6.87	281.018		
2,000.0	1,998.4	2,059.8	2,059.4	3.7	3.6	-61.33	1,562.7	1,182.0	1,927.3	1,920.1	7.22	266.966		
2,100.0	2,098.2	2,158.2	2,157.8	3.9	3.8	-61.51	1,563.2	1,180.5	1,924.4	1,916.8	7.58	253.772		
2,200.0	2,198.1	2,258.4	2,257.9	4.1	4.0	-61.68	1,563.2	1,179.3	1,921.3	1,913.3	7.95	241.698		
2,300.0	2,298.0	2,359.2	2,358.8	4.2	4.2	-61.83	1,563.1	1,178.5	1,918.3	1,910.0	8.32	230.654		
2,400.0	2,397.8	2,453.0	2,452.5	4.4	4.3	-61.99	1,563.2	1,177.5	1,915.3	1,906.6	8.67	220.838		
2,500.0	2,497.7	2,540.6	2,540.1	4.6	4.5	-62.15	1,564.0	1,176.4	1,912.9	1,903.8	9.02	212.092		
2,600.0	2,597.6	2,634.6	2,634.1	4.8	4.6	-62.34	1,565.7	1,175.0	1,911.0	1,901.7	9.38	203.786		
2,700.0	2,697.4	2,743.6	2,743.0	5.0	4.8	-62.57	1,567.6	1,172.9	1,909.1	1,899.3	9.76	195.527		
2,800.0	2,797.3	2,847.7	2,847.2	5.2	5.0	-62.80	1,569.1	1,170.6	1,906.7	1,896.5	10.14	188.011		
2,900.0	2,897.2	2,942.8	2,942.3	5.4	5.2	-62.99	1,570.2	1,169.1	1,904.4	1,893.8	10.50	181.336		
3,000.0	2,997.0	3,035.7	3,035.1	5.6	5.3	-63.16	1,571.3	1,168.1	1,902.4	1,891.5	10.86	175.206		
3,100.0	3,096.9	3,133.6	3,133.0	5.8	5.5	-63.34	1,572.7	1,167.3	1,900.8	1,889.5	11.22	169.363		
3,200.0	3,196.8	3,248.0	3,247.4	6.0	5.7	-63.54	1,573.7	1,166.5	1,898.8	1,887.2	11.62	163.459		
3,300.0	3,296.6	3,361.9	3,361.3	6.2	5.9	-63.73	1,573.7	1,165.4	1,895.9	1,883.9	12.01	157.876		
3,400.0	3,396.5	3,474.8	3,474.1	6.4	6.1	-63.91	1,573.1	1,164.1	1,892.6	1,880.2	12.40	152.630		
3,500.0	3,496.4	3,582.7	3,582.1	6.6	6.3	-64.08	1,571.8	1,162.6	1,888.5	1,875.7	12.78	147.757		
3,600.0	3,596.2	3,700.0	3,699.3	6.8	6.5	-64.25	1,569.4	1,161.0	1,883.8	1,870.6	13.18	142.954		
3,700.0	3,696.1	3,785.6	3,784.9	7.0	6.7	-64.35	1,567.2	1,160.3	1,879.0	1,865.5	13.52	138.998		
3,800.0	3,796.0	3,889.8	3,889.1	7.2	6.8	-64.47	1,564.9	1,159.9	1,874.6	1,860.7	13.89	134.946		
3,900.0	3,895.8	4,004.9	4,004.1	7.4	7.0	-64.63	1,562.0	1,158.4	1,869.6	1,855.3	14.29	130.874		
4,000.0	3,995.7	4,101.2	4,100.3	7.6	7.2	-64.76	1,559.3	1,157.2	1,864.3	1,849.7	14.64	127.301		
4,100.0	4,095.5	4,206.6	4,205.7	7.8	7.4	-64.88	1,556.0	1,156.1	1,858.9	1,843.9	15.02	123.752		
4,200.0	4,195.4	4,300.0	4,299.1	8.0	7.6	-65.01	1,553.5	1,154.7	1,853.6	1,838.2	15.38	120.540		
4,300.0	4,295.3	4,383.3	4,382.4	8.2	7.7	-65.14	1,551.8	1,153.5	1,848.9	1,833.2	15.72	117.641		
4,400.0	4,395.1	4,470.0	4,469.1	8.4	7.9	-65.28	1,550.7	1,152.5	1,845.0	1,829.0	16.06	114.870		
4,500.0	4,495.0	4,563.0	4,562.0	8.6	8.0	-65.43	1,550.1	1,151.5	1,841.8	1,825.3	16.42	112.175		
4,600.0	4,594.9	4,666.8	4,665.8	8.8	8.2	-65.60	1,549.4	1,150.5	1,838.6	1,821.8	16.79	109.476		
4,700.0	4,694.7	4,765.2	4,764.2	8.9	8.4	-65.76	1,548.7	1,149.4	1,835.2	1,818.1	17.16	106.942		
4,800.0	4,794.6	4,864.7	4,863.7	9.1	8.6	-65.92	1,548.1	1,148.4	1,832.1	1,814.5	17.53	104.511		
4,900.0	4,894.5	4,964.6	4,963.5	9.3	8.7	-66.10	1,547.6	1,147.1	1,828.8	1,810.9	17.90	102.169		
5,000.0	4,994.3	5,055.9	5,054.9	9.5	8.9	-66.27	1,547.4	1,145.8	1,825.8	1,807.5	18.26	100.014		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,094.2	5,149.8	5,148.7	9.7	9.1	-66.44	1,547.6	1,144.6	1,823.3	1,804.7	18.61	97.949	
5,200.0	5,194.1	5,249.3	5,248.3	9.9	9.2	-66.62	1,547.8	1,143.7	1,820.9	1,802.0	18.98	95.916	
5,300.0	5,293.9	5,341.8	5,340.8	10.1	9.4	-66.80	1,548.3	1,142.6	1,818.7	1,799.4	19.34	94.024	
5,400.0	5,393.8	5,435.2	5,434.2	10.3	9.6	-66.99	1,549.4	1,141.4	1,817.1	1,797.4	19.70	92.224	
5,500.0	5,493.7	5,538.1	5,537.0	10.5	9.7	-67.19	1,550.4	1,140.2	1,815.4	1,795.3	20.08	90.405	
5,600.0	5,593.5	5,637.0	5,635.9	10.7	9.9	-67.40	1,551.7	1,138.7	1,813.8	1,793.3	20.45	88.688	
5,700.0	5,693.4	5,738.1	5,737.0	10.9	10.1	-67.61	1,552.8	1,137.3	1,812.0	1,791.2	20.83	87.008	
5,800.0	5,793.3	5,832.3	5,831.2	11.1	10.3	-67.81	1,554.1	1,136.0	1,810.6	1,789.4	21.19	85.450	
5,900.0	5,893.1	5,928.9	5,927.8	11.3	10.4	-68.02	1,555.5	1,134.7	1,809.2	1,787.7	21.56	83.933	
6,000.0	5,993.0	6,021.1	6,020.0	11.5	10.6	-68.22	1,557.3	1,133.5	1,808.4	1,786.4	21.92	82.516	
6,100.0	6,092.8	6,119.6	6,118.4	11.7	10.8	-68.42	1,559.1	1,132.7	1,807.7	1,785.4	22.28	81.118	
6,200.0	6,192.7	6,221.0	6,219.8	11.9	10.9	-68.62	1,560.9	1,132.1	1,807.1	1,784.4	22.66	79.747	
6,300.0	6,292.6	6,324.0	6,322.8	12.1	11.1	-68.83	1,562.6	1,131.1	1,806.2	1,783.2	23.04	78.400	
6,400.0	6,392.4	6,419.3	6,418.0	12.3	11.3	-69.02	1,564.4	1,130.4	1,805.6	1,782.2	23.40	77.152	
6,500.0	6,492.3	6,526.5	6,525.2	12.5	11.5	-69.25	1,566.3	1,129.0	1,804.8	1,781.0	23.79	75.861	
6,600.0	6,592.2	6,620.6	6,619.3	12.7	11.6	-69.45	1,568.0	1,127.9	1,803.9	1,779.8	24.15	74.685	
6,671.9	6,663.9	6,681.6	6,680.3	12.8	11.7	-69.59	1,569.4	1,127.2	1,803.7	1,779.3	24.40	73.912	
6,700.0	6,692.0	6,700.0	6,698.7	12.9	11.8	-69.63	1,569.9	1,127.0	1,803.8	1,779.3	24.49	73.648	
6,800.0	6,791.9	6,792.4	6,791.0	13.1	11.9	-69.84	1,572.7	1,126.2	1,804.4	1,779.5	24.85	72.603	
6,900.0	6,891.8	6,882.4	6,881.0	13.3	12.1	-70.02	1,575.8	1,126.1	1,805.6	1,780.4	25.21	71.631	
7,000.0	6,991.6	6,970.9	6,969.5	13.5	12.2	-70.19	1,579.1	1,126.8	1,807.5	1,781.9	25.56	70.719	
7,100.0	7,091.5	7,056.3	7,054.7	13.7	12.4	-70.33	1,582.6	1,128.0	1,810.0	1,784.1	25.90	69.875	
7,172.4	7,163.8	7,115.7	7,114.0	13.8	12.5	-70.43	1,585.4	1,129.1	1,812.5	1,786.3	26.15	69.310	
7,200.0	7,191.4	7,136.9	7,135.2	13.9	12.5	-24.15	1,586.5	1,129.5	1,812.9	1,786.7	26.21	69.165	
7,250.0	7,241.1	7,175.3	7,173.6	14.0	12.6	5.38	1,588.7	1,130.4	1,811.1	1,784.8	26.22	69.072	
7,300.0	7,290.3	7,214.0	7,212.2	14.0	12.7	14.05	1,591.1	1,131.4	1,805.6	1,779.5	26.10	69.178	
7,350.0	7,338.5	7,253.0	7,251.1	14.1	12.7	18.30	1,593.7	1,132.6	1,796.6	1,770.8	25.86	69.469	
7,400.0	7,385.5	7,300.0	7,297.9	14.2	12.8	21.19	1,597.0	1,134.3	1,784.2	1,758.7	25.53	69.887	
7,450.0	7,430.8	7,349.3	7,347.0	14.3	12.9	23.63	1,600.4	1,136.2	1,768.2	1,743.0	25.11	70.405	
7,500.0	7,474.1	7,410.1	7,407.7	14.5	13.0	26.12	1,603.9	1,138.7	1,748.2	1,723.6	24.66	70.889	
7,550.0	7,515.0	7,465.1	7,462.6	14.6	13.1	28.78	1,606.6	1,141.0	1,724.7	1,700.5	24.19	71.302	
7,600.0	7,553.3	7,517.3	7,514.7	14.8	13.2	31.80	1,608.7	1,143.2	1,697.8	1,674.0	23.76	71.448	
7,650.0	7,588.7	7,567.0	7,564.4	15.0	13.3	35.32	1,610.3	1,145.2	1,667.8	1,644.4	23.47	71.061	
7,700.0	7,620.9	7,609.1	7,606.4	15.2	13.3	39.36	1,611.4	1,146.8	1,635.2	1,611.8	23.40	69.893	
7,750.0	7,649.6	7,639.9	7,637.2	15.5	13.4	43.88	1,612.2	1,147.9	1,600.4	1,576.8	23.61	67.789	
7,800.0	7,674.7	7,667.0	7,664.2	15.8	13.4	49.09	1,612.9	1,148.8	1,563.7	1,539.5	24.20	64.623	
7,850.0	7,695.9	7,690.1	7,687.3	16.1	13.5	55.02	1,613.5	1,149.5	1,525.6	1,500.5	25.17	60.617	
7,900.0	7,713.1	7,709.3	7,706.5	16.5	13.5	61.60	1,613.9	1,150.1	1,486.5	1,460.0	26.43	56.233	
7,950.0	7,726.1	7,724.3	7,721.5	16.9	13.5	68.65	1,614.3	1,150.5	1,446.6	1,418.8	27.82	51.999	
8,000.0	7,734.9	7,734.9	7,732.1	17.4	13.6	75.89	1,614.6	1,150.8	1,406.4	1,377.3	29.11	48.307	
8,050.0	7,739.4	7,740.9	7,738.1	17.9	13.6	82.98	1,614.7	1,151.0	1,366.3	1,336.2	30.15	45.320	
8,076.4	7,740.0	7,742.3	7,739.5	18.2	13.6	86.54	1,614.8	1,151.0	1,345.3	1,314.8	30.56	44.023	
8,100.0	7,740.0	7,742.9	7,740.1	18.4	13.6	86.58	1,614.8	1,151.0	1,326.7	1,295.9	30.83	43.032	
8,200.0	7,740.0	7,745.5	7,742.7	19.6	13.6	86.76	1,614.9	1,151.1	1,249.6	1,217.6	32.04	39.006	
8,300.0	7,740.0	7,748.1	7,745.3	20.8	13.6	86.95	1,614.9	1,151.2	1,176.0	1,142.7	33.33	35.288	
8,400.0	7,740.0	7,750.8	7,747.9	22.1	13.6	87.13	1,615.0	1,151.3	1,106.5	1,071.9	34.68	31.903	
8,500.0	7,740.0	7,753.4	7,750.6	23.4	13.6	87.31	1,615.1	1,151.3	1,042.0	1,005.9	36.10	28.868	
8,600.0	7,740.0	7,756.0	7,753.2	24.8	13.6	87.50	1,615.1	1,151.4	983.5	945.9	37.56	26.187	
8,700.0	7,740.0	7,758.6	7,755.8	26.3	13.6	87.68	1,615.2	1,151.5	932.0	892.9	39.05	23.865	
8,800.0	7,740.0	7,761.2	7,758.4	27.8	13.6	87.86	1,615.3	1,151.5	888.8	848.2	40.58	21.901	
8,900.0	7,740.0	7,763.9	7,761.0	29.3	13.6	88.04	1,615.3	1,151.6	855.2	813.1	42.14	20.295	
9,000.0	7,740.0	7,766.5	7,763.6	30.8	13.6	88.23	1,615.4	1,151.7	832.3	788.6	43.72	19.038	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	7,769.1	7,766.3	32.4	13.6	88.41	1,615.4	1,151.7	821.0	775.7	45.31	18.118	
9,143.4	7,740.0	7,770.2	7,767.4	33.1	13.6	88.49	1,615.5	1,151.8	819.8	773.8	46.01	17.817	CC, ES
9,200.0	7,740.0	7,771.7	7,768.9	33.9	13.6	88.59	1,615.5	1,151.8	821.8	774.9	46.93	17.512	
9,300.0	7,740.0	7,774.4	7,771.5	35.5	13.6	88.78	1,615.6	1,151.9	834.7	786.1	48.56	17.190	
9,400.0	7,740.0	7,777.0	7,774.1	37.2	13.6	88.96	1,615.6	1,151.9	859.0	808.8	50.20	17.114	SF
9,500.0	7,740.0	7,779.6	7,776.8	38.8	13.6	89.14	1,615.7	1,152.0	894.0	842.2	51.85	17.243	
9,600.0	7,740.0	7,782.2	7,779.4	40.4	13.6	89.33	1,615.8	1,152.1	938.4	884.8	53.51	17.537	
9,700.0	7,740.0	7,784.9	7,782.0	42.0	13.6	89.51	1,615.8	1,152.1	990.8	935.7	55.17	17.958	
9,800.0	7,740.0	7,787.5	7,784.6	43.7	13.6	89.69	1,615.9	1,152.2	1,050.2	993.4	56.85	18.474	
9,900.0	7,740.0	7,790.1	7,787.3	45.4	13.6	89.88	1,616.0	1,152.3	1,115.5	1,056.9	58.53	19.058	
10,000.0	7,740.0	7,792.7	7,789.9	47.0	13.7	90.06	1,616.0	1,152.3	1,185.5	1,125.3	60.22	19.688	
10,100.0	7,740.0	7,795.4	7,792.5	48.7	13.7	90.24	1,616.1	1,152.4	1,259.6	1,197.7	61.91	20.347	
10,200.0	7,740.0	7,798.0	7,795.1	50.4	13.7	90.43	1,616.2	1,152.5	1,337.1	1,273.5	63.60	21.023	
10,300.0	7,740.0	7,800.6	7,797.8	52.1	13.7	90.61	1,616.2	1,152.5	1,417.4	1,352.1	65.30	21.706	
10,400.0	7,740.0	7,803.5	7,800.6	53.7	13.7	90.81	1,616.3	1,152.6	1,500.1	1,433.1	67.00	22.389	
10,500.0	7,740.0	7,806.3	7,803.4	55.4	13.7	91.01	1,616.4	1,152.7	1,584.7	1,516.0	68.71	23.065	
10,600.0	7,740.0	7,809.2	7,806.3	57.1	13.7	91.21	1,616.5	1,152.7	1,671.1	1,600.7	70.41	23.733	
10,700.0	7,740.0	7,812.1	7,809.2	58.8	13.7	91.41	1,616.5	1,152.8	1,758.9	1,686.7	72.12	24.388	
10,800.0	7,740.0	7,815.0	7,812.2	60.5	13.7	91.62	1,616.6	1,152.9	1,847.9	1,774.1	73.83	25.029	
10,900.0	7,740.0	7,818.0	7,815.2	62.2	13.7	91.83	1,616.7	1,152.9	1,938.0	1,862.4	75.54	25.655	
11,000.0	7,740.0	7,821.1	7,818.2	63.9	13.7	92.04	1,616.8	1,153.0	2,029.0	1,951.7	77.25	26.264	
11,100.0	7,740.0	7,824.1	7,821.3	65.7	13.7	92.25	1,616.9	1,153.1	2,120.8	2,041.9	78.97	26.858	
11,200.0	7,740.0	7,827.3	7,824.4	67.4	13.7	92.47	1,616.9	1,153.1	2,213.4	2,132.7	80.68	27.434	
11,300.0	7,740.0	7,830.4	7,827.5	69.1	13.7	92.69	1,617.0	1,153.2	2,306.5	2,224.1	82.39	27.995	
11,400.0	7,740.0	7,833.6	7,830.7	70.8	13.7	92.91	1,617.1	1,153.3	2,400.2	2,316.1	84.10	28.539	
11,500.0	7,740.0	7,836.8	7,834.0	72.5	13.7	93.13	1,617.2	1,153.4	2,494.4	2,408.6	85.82	29.067	
11,600.0	7,740.0	7,840.1	7,837.2	74.2	13.7	93.36	1,617.3	1,153.4	2,589.0	2,501.5	87.53	29.579	
11,700.0	7,740.0	7,843.5	7,840.6	76.0	13.7	93.59	1,617.4	1,153.5	2,684.0	2,594.8	89.24	30.077	
11,800.0	7,740.0	7,846.8	7,844.0	77.7	13.7	93.83	1,617.5	1,153.6	2,779.4	2,688.4	90.95	30.560	
11,900.0	7,740.0	7,850.3	7,847.4	79.4	13.8	94.06	1,617.6	1,153.6	2,875.0	2,782.4	92.66	31.029	
12,000.0	7,740.0	7,853.7	7,850.8	81.1	13.8	94.30	1,617.7	1,153.7	2,971.0	2,876.6	94.36	31.485	
12,100.0	7,740.0	7,857.3	7,854.4	82.9	13.8	94.55	1,617.8	1,153.8	3,067.2	2,971.1	96.07	31.928	
12,200.0	7,740.0	7,860.8	7,857.9	84.6	13.8	94.80	1,617.9	1,153.9	3,163.6	3,065.8	97.77	32.358	
12,300.0	7,740.0	7,864.5	7,861.6	86.3	13.8	95.05	1,618.0	1,153.9	3,260.3	3,160.8	99.47	32.777	
12,400.0	7,740.0	7,868.1	7,865.2	88.0	13.8	95.30	1,618.1	1,154.0	3,357.1	3,255.9	101.17	33.184	
12,500.0	7,740.0	7,871.9	7,869.0	89.8	13.8	95.56	1,618.2	1,154.1	3,454.1	3,351.2	102.86	33.581	
12,600.0	7,740.0	7,875.6	7,872.7	91.5	13.8	95.82	1,618.3	1,154.2	3,551.3	3,446.7	104.55	33.967	
12,700.0	7,740.0	7,879.5	7,876.6	93.2	13.8	96.08	1,618.4	1,154.2	3,648.6	3,542.4	106.24	34.343	
12,800.0	7,740.0	7,883.4	7,880.5	95.0	13.8	96.35	1,618.5	1,154.3	3,746.1	3,638.2	107.92	34.711	
12,900.0	7,740.0	7,887.3	7,884.4	96.7	13.8	96.62	1,618.6	1,154.4	3,843.7	3,734.1	109.60	35.069	
13,000.0	7,740.0	7,891.4	7,888.4	98.4	13.8	96.90	1,618.8	1,154.5	3,941.4	3,830.1	111.28	35.419	
13,100.0	7,740.0	7,895.4	7,892.5	100.2	13.8	97.17	1,618.9	1,154.6	4,039.2	3,926.3	112.95	35.761	
13,200.0	7,740.0	7,899.6	7,896.7	101.9	13.8	97.46	1,619.0	1,154.6	4,137.1	4,022.5	114.62	36.095	
13,300.0	7,740.0	7,903.1	7,900.1	103.6	13.8	97.70	1,619.1	1,154.7	4,235.1	4,118.9	116.29	36.419	
13,400.0	7,740.0	7,906.5	7,903.6	105.4	13.8	97.93	1,619.2	1,154.8	4,333.2	4,215.3	117.96	36.735	
13,500.0	7,740.0	7,909.9	7,907.0	107.1	13.9	98.16	1,619.3	1,154.8	4,431.4	4,311.8	119.63	37.044	
13,600.0	7,740.0	7,913.4	7,910.5	108.9	13.9	98.40	1,619.4	1,154.9	4,529.7	4,408.4	121.29	37.346	
13,700.0	7,740.0	7,916.9	7,913.9	110.6	13.9	98.63	1,619.6	1,154.9	4,628.0	4,505.1	122.95	37.642	
13,800.0	7,740.0	7,920.3	7,917.4	112.3	13.9	98.87	1,619.7	1,155.0	4,726.4	4,601.8	124.60	37.932	
13,900.0	7,740.0	7,923.8	7,920.9	114.1	13.9	99.11	1,619.8	1,155.1	4,824.9	4,698.6	126.25	38.216	
14,000.0	7,740.0	7,927.3	7,924.4	115.8	13.9	99.34	1,619.9	1,155.1	4,923.4	4,795.5	127.90	38.494	
14,076.4	7,740.0	7,930.0	7,927.1	117.1	13.9	99.52	1,620.0	1,155.2	4,998.7	4,869.6	129.16	38.702	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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 Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
14,100.0	7,740.0	7,930.9	7,927.9	117.6	13.9	99.82	1,620.0	1,155.2	5,022.0	4,892.6	129.43	38.800				
14,200.0	7,740.0	7,934.4	7,931.4	119.3	13.9	101.26	1,620.1	1,155.2	5,120.8	4,990.4	130.45	39.254				
14,300.0	7,740.0	7,937.9	7,934.9	121.0	13.9	103.12	1,620.2	1,155.3	5,220.0	5,088.8	131.14	39.803				
14,338.4	7,740.0	7,939.2	7,936.2	121.7	13.9	103.99	1,620.2	1,155.3	5,258.1	5,126.8	131.28	40.053				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis			
0.0	0.0	52.2	52.2	0.0	0.1	35.80	1,594.4	1,150.0	1,965.9					
100.0	100.0	151.1	151.1	0.2	0.3	35.80	1,594.4	1,150.0	1,965.9	1,965.5	0.42		4,730.149	
200.0	200.0	246.1	246.1	0.3	0.4	35.79	1,594.8	1,149.8	1,966.1	1,965.3	0.76		2,600.499	
300.0	300.0	382.0	382.0	0.5	0.7	35.76	1,595.1	1,148.6	1,965.8	1,964.6	1.17		1,682.891	
400.0	400.0	528.2	528.0	0.7	0.9	35.88	1,589.2	1,149.3	1,962.7	1,961.1	1.61		1,222.449	
500.0	500.0	811.0	807.6	0.8	1.7	36.84	1,549.2	1,160.6	1,952.5	1,950.1	2.43		802.838	
600.0	600.0	902.0	896.6	1.0	2.0	37.27	1,531.1	1,165.2	1,939.6	1,936.7	2.85		680.055	
700.0	700.0	1,134.8	1,123.2	1.2	3.0	-58.44	1,478.7	1,175.1	1,924.4	1,920.6	3.84		501.015	
800.0	800.0	1,296.4	1,277.6	1.4	3.9	-57.70	1,431.3	1,180.5	1,901.6	1,897.0	4.66		408.080	
897.7	897.5	1,397.3	1,373.2	1.6	4.4	-57.30	1,399.3	1,184.2	1,877.3	1,872.0	5.27		356.414	
900.0	899.9	1,399.4	1,375.2	1.6	4.5	-57.28	1,398.6	1,184.3	1,876.7	1,871.4	5.28		355.364	
1,000.0	999.7	1,502.3	1,472.3	1.7	5.1	-56.62	1,365.1	1,188.9	1,851.3	1,845.4	5.94		311.641	
1,100.0	1,099.6	1,584.0	1,549.4	1.9	5.5	-56.08	1,338.3	1,192.8	1,826.2	1,819.7	6.51		280.572	
1,200.0	1,199.5	1,665.0	1,626.0	2.1	6.0	-55.53	1,312.4	1,197.0	1,802.1	1,795.0	7.09		254.186	
1,300.0	1,299.3	1,768.5	1,723.8	2.3	6.6	-54.78	1,278.9	1,203.2	1,778.4	1,770.6	7.80		227.884	
1,400.0	1,399.2	1,851.1	1,801.6	2.5	7.1	-54.15	1,251.7	1,208.5	1,755.0	1,746.5	8.43		208.227	
1,500.0	1,499.1	1,974.1	1,917.8	2.7	7.8	-53.24	1,211.7	1,214.8	1,731.1	1,721.9	9.24		187.401	
1,600.0	1,598.9	2,037.0	1,977.3	2.9	8.2	-52.78	1,191.6	1,217.4	1,707.6	1,697.9	9.75		175.214	
1,700.0	1,698.8	2,124.0	2,059.9	3.1	8.7	-52.13	1,164.7	1,222.2	1,685.8	1,675.4	10.38		162.348	
1,800.0	1,798.6	2,226.2	2,156.9	3.3	9.3	-51.34	1,133.3	1,228.4	1,664.8	1,653.7	11.12		149.655	
1,900.0	1,898.5	2,330.5	2,255.4	3.5	9.9	-50.46	1,099.6	1,234.9	1,643.0	1,631.1	11.90		138.012	
2,000.0	1,998.4	2,427.4	2,346.9	3.7	10.5	-49.63	1,068.3	1,240.6	1,621.3	1,608.7	12.63		128.321	
2,100.0	2,098.2	2,523.8	2,438.3	3.9	11.0	-48.83	1,037.9	1,245.3	1,599.8	1,586.4	13.36		119.784	
2,200.0	2,198.1	2,620.6	2,530.1	4.1	11.6	-48.02	1,007.5	1,249.8	1,578.5	1,564.5	14.08		112.122	
2,300.0	2,298.0	2,713.6	2,618.4	4.2	12.1	-47.23	978.5	1,253.8	1,557.6	1,542.8	14.79		105.300	
2,400.0	2,397.8	2,811.1	2,767.0	4.4	13.1	-45.79	926.7	1,259.4	1,535.3	1,519.3	15.91		96.495	
2,500.0	2,497.7	2,968.8	2,858.4	4.6	13.7	-44.82	892.2	1,261.7	1,510.8	1,494.1	16.71		90.404	
2,600.0	2,597.6	3,056.6	2,940.4	4.8	14.3	-43.90	861.0	1,264.4	1,487.2	1,469.8	17.46		85.186	
2,700.0	2,697.4	3,139.5	3,018.0	5.0	14.8	-43.02	832.0	1,267.0	1,464.5	1,446.3	18.18		80.537	
2,800.0	2,797.3	3,239.7	3,111.9	5.2	15.4	-41.92	797.0	1,270.8	1,442.7	1,423.7	19.03		75.799	
2,900.0	2,897.2	3,346.0	3,211.3	5.4	16.1	-40.74	759.7	1,273.3	1,420.2	1,400.3	19.91		71.340	
3,000.0	2,997.0	3,433.0	3,293.0	5.6	16.6	-39.78	729.7	1,274.9	1,398.2	1,377.6	20.66		67.671	
3,100.0	3,096.9	3,488.4	3,345.2	5.8	17.0	-39.16	711.4	1,276.8	1,378.6	1,357.4	21.20		65.034	
3,200.0	3,196.8	3,560.3	3,413.5	6.0	17.4	-38.37	689.1	1,280.2	1,361.6	1,339.8	21.84		62.352	
3,300.0	3,296.6	3,639.9	3,489.2	6.2	17.8	-37.49	665.0	1,284.5	1,346.2	1,323.6	22.53		59.756	
3,400.0	3,396.5	3,716.2	3,561.9	6.4	18.2	-36.63	642.3	1,289.8	1,332.7	1,309.5	23.19		57.463	
3,500.0	3,496.4	3,815.1	3,656.9	6.6	18.7	-35.61	615.5	1,296.0	1,320.4	1,296.5	23.93		55.186	
3,600.0	3,596.2	3,973.0	3,809.7	6.8	19.5	-34.21	576.0	1,299.4	1,306.1	1,281.2	24.93		52.389	
3,700.0	3,696.1	4,069.7	3,902.3	7.0	20.0	-33.21	548.2	1,300.0	1,289.1	1,263.4	25.69		50.182	
3,800.0	3,796.0	4,132.0	3,961.8	7.2	20.3	-32.49	529.7	1,302.2	1,274.4	1,248.1	26.26		48.525	
3,900.0	3,895.8	4,236.9	4,061.3	7.4	21.0	-31.15	497.0	1,307.8	1,261.3	1,234.1	27.16		46.432	
4,000.0	3,995.7	4,358.7	4,175.5	7.6	21.8	-29.42	455.2	1,313.6	1,247.0	1,218.8	28.23		44.178	
4,100.0	4,095.5	4,448.6	4,259.6	7.8	22.3	-28.08	423.5	1,317.2	1,232.6	1,203.5	29.06		42.413	
4,200.0	4,195.4	4,527.8	4,333.8	8.0	22.8	-26.89	396.0	1,321.1	1,219.9	1,190.1	29.79		40.945	
4,300.0	4,295.3	4,607.0	4,408.7	8.2	23.3	-25.78	370.8	1,325.2	1,209.1	1,178.7	30.48		39.670	
4,400.0	4,395.1	4,693.0	4,490.8	8.4	23.7	-24.66	345.7	1,329.9	1,200.2	1,169.1	31.18		38.494	
4,500.0	4,495.0	4,794.4	4,588.0	8.6	24.3	-23.36	317.0	1,335.4	1,192.1	1,160.1	31.95		37.316	
4,600.0	4,594.9	4,914.5	4,703.5	8.8	24.9	-21.91	284.7	1,339.8	1,183.4	1,150.6	32.78		36.104	
4,700.0	4,694.7	4,997.7	4,783.9	8.9	25.2	-20.95	263.3	1,342.0	1,174.5	1,141.1	33.37		35.195	
4,800.0	4,794.6	5,080.3	4,864.2	9.1	25.6	-20.07	244.0	1,344.8	1,167.3	1,133.4	33.92		34.412	
4,900.0	4,894.5	5,178.1	4,959.9	9.3	26.0	-19.17	224.3	1,348.1	1,161.2	1,126.7	34.48		33.676	
5,000.0	4,994.3	5,275.5	5,055.9	9.5	26.3	-18.42	207.9	1,350.6	1,155.3	1,120.3	34.98		33.026	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,094.2	5,375.4	5,154.6	9.7	26.6	-17.77	193.3	1,352.8	1,149.6	1,114.2	35.45	32.426		
5,200.0	5,194.1	5,479.1	5,257.5	9.9	26.8	-17.20	180.3	1,354.3	1,143.8	1,107.9	35.89	31.867		
5,300.0	5,293.9	5,581.9	5,359.8	10.1	27.0	-16.77	170.2	1,355.0	1,137.7	1,101.5	36.28	31.360		
5,400.0	5,393.8	5,675.1	5,452.8	10.3	27.2	-16.50	163.4	1,355.2	1,131.7	1,095.1	36.61	30.910		
5,500.0	5,493.7	5,759.3	5,536.9	10.5	27.3	-16.34	159.2	1,355.9	1,126.7	1,089.8	36.89	30.545		
5,600.0	5,593.5	5,878.0	5,655.5	10.7	27.4	-16.35	157.7	1,356.3	1,121.9	1,084.7	37.15	30.202		
5,700.0	5,693.4	5,973.3	5,750.8	10.9	27.4	-16.43	157.6	1,355.2	1,115.7	1,078.3	37.39	29.837		
5,800.0	5,793.3	6,060.3	5,837.8	11.1	27.5	-16.48	157.3	1,355.3	1,110.9	1,073.3	37.63	29.518		
5,900.0	5,893.1	6,160.1	5,937.6	11.3	27.5	-16.54	157.2	1,356.0	1,106.6	1,068.7	37.87	29.221		
6,000.0	5,993.0	6,258.5	6,036.0	11.5	27.6	-16.64	157.7	1,356.7	1,102.3	1,064.2	38.11	28.927		
6,100.0	6,092.8	6,354.2	6,131.7	11.7	27.7	-16.73	158.2	1,357.5	1,098.3	1,060.0	38.35	28.641		
6,200.0	6,192.7	6,454.4	6,231.9	11.9	27.7	-16.82	158.6	1,358.8	1,094.7	1,056.1	38.59	28.364		
6,300.0	6,292.6	6,559.1	6,336.6	12.1	27.8	-16.91	158.9	1,359.7	1,090.6	1,051.8	38.84	28.080		
6,400.0	6,392.4	6,659.6	6,437.1	12.3	27.9	-17.00	159.3	1,360.4	1,086.3	1,047.3	39.09	27.792		
6,500.0	6,492.3	6,759.2	6,536.7	12.5	28.0	-17.08	159.4	1,361.0	1,082.1	1,042.7	39.34	27.507		
6,600.0	6,592.2	6,858.4	6,635.9	12.7	28.0	-17.16	159.5	1,361.8	1,077.8	1,038.2	39.59	27.223		
6,700.0	6,692.0	6,957.5	6,735.0	12.9	28.1	-17.23	159.3	1,362.6	1,073.7	1,033.8	39.85	26.944		
6,800.0	6,791.9	7,056.7	6,834.2	13.1	28.2	-17.29	159.1	1,363.5	1,069.6	1,029.5	40.11	26.668		
6,900.0	6,891.8	7,155.0	6,932.5	13.3	28.3	-17.34	158.8	1,364.6	1,065.6	1,025.2	40.38	26.390		
7,000.0	6,991.6	7,252.7	7,030.1	13.5	28.4	-17.35	157.7	1,365.9	1,061.8	1,021.2	40.66	26.115		
7,100.0	7,091.5	7,357.9	7,135.4	13.7	28.5	-17.35	156.3	1,367.4	1,058.0	1,017.0	40.93	25.846		
7,172.4	7,163.8	7,435.8	7,213.2	13.8	28.6	-17.37	155.6	1,367.9	1,054.7	1,013.6	41.13	25.643		
7,200.0	7,191.4	7,466.4	7,243.9	13.9	28.6	29.13	155.4	1,368.0	1,053.3	1,012.1	41.19	25.572		
7,250.0	7,241.1	7,523.2	7,300.7	14.0	28.6	59.18	155.1	1,367.8	1,049.9	1,008.6	41.28	25.432		
7,300.0	7,290.3	7,579.3	7,356.8	14.0	28.7	68.50	154.8	1,367.2	1,045.5	1,004.1	41.37	25.274		
7,350.0	7,338.5	7,632.5	7,410.0	14.1	28.7	73.47	154.7	1,366.4	1,040.3	998.9	41.45	25.100		
7,400.0	7,385.5	7,676.6	7,454.1	14.2	28.8	76.92	154.6	1,365.6	1,034.8	993.3	41.53	24.917		
7,450.0	7,430.8	7,719.2	7,496.6	14.3	28.8	79.77	154.5	1,365.0	1,029.3	987.7	41.62	24.729		
7,500.0	7,474.1	7,759.9	7,537.3	14.5	28.8	82.31	154.4	1,364.5	1,024.2	982.4	41.74	24.536		
7,550.0	7,515.0	7,798.0	7,575.4	14.6	28.9	84.64	154.4	1,364.1	1,019.6	977.8	41.88	24.344		
7,600.0	7,553.3	7,835.8	7,613.2	14.8	28.9	86.84	154.3	1,363.8	1,016.0	974.0	42.05	24.160		
7,650.0	7,588.7	7,870.4	7,647.8	15.0	28.9	88.82	154.3	1,363.6	1,013.7	971.4	42.26	23.988		
7,697.4	7,619.3	7,900.4	7,677.8	15.2	28.9	90.47	154.4	1,363.4	1,012.9	970.4	42.48	23.841 CC		
7,700.0	7,620.9	7,902.0	7,679.4	15.2	28.9	90.55	154.4	1,363.3	1,012.9	970.4	42.50	23.834 ES		
7,750.0	7,649.6	7,930.3	7,707.7	15.5	29.0	91.97	154.5	1,363.2	1,014.0	971.2	42.78	23.703		
7,800.0	7,674.7	7,955.0	7,732.4	15.8	29.0	93.02	154.6	1,363.0	1,017.2	974.1	43.11	23.597		
7,850.0	7,695.9	7,976.1	7,753.5	16.1	29.0	93.67	154.7	1,362.9	1,022.9	979.4	43.49	23.519		
7,900.0	7,713.1	7,993.2	7,770.7	16.5	29.0	93.85	154.8	1,362.9	1,031.1	987.1	43.93	23.468		
7,950.0	7,726.1	8,006.3	7,783.7	16.9	29.0	93.54	154.8	1,362.8	1,041.9	997.4	44.43	23.447 SF		
8,000.0	7,734.9	8,015.2	7,792.7	17.4	29.0	92.69	154.9	1,362.8	1,055.3	1,010.3	44.99	23.458		
8,050.0	7,739.4	8,019.9	7,797.3	17.9	29.0	91.30	154.9	1,362.7	1,071.2	1,025.7	45.57	23.509		
8,076.4	7,740.0	8,020.7	7,798.1	18.2	29.0	90.35	154.9	1,362.7	1,080.6	1,034.7	45.88	23.554		
8,100.0	7,740.0	8,020.8	7,798.2	18.4	29.0	90.35	154.9	1,362.7	1,089.5	1,043.4	46.15	23.609		
8,200.0	7,740.0	8,021.4	7,798.8	19.6	29.0	90.39	154.9	1,362.7	1,131.9	1,084.5	47.35	23.905		
8,300.0	7,740.0	8,021.9	7,799.3	20.8	29.0	90.42	154.9	1,362.7	1,181.2	1,132.6	48.63	24.288		
8,400.0	7,740.0	8,022.5	7,799.9	22.1	29.0	90.45	154.9	1,362.7	1,236.7	1,186.7	49.99	24.741		
8,500.0	7,740.0	8,023.0	7,800.4	23.4	29.0	90.48	154.9	1,362.7	1,297.5	1,246.1	51.39	25.246		
8,600.0	7,740.0	8,023.6	7,801.0	24.8	29.0	90.51	154.9	1,362.7	1,363.0	1,310.1	52.85	25.791		
8,700.0	7,740.0	8,024.1	7,801.5	26.3	29.0	90.54	154.9	1,362.7	1,432.4	1,378.1	54.34	26.361		
8,800.0	7,740.0	8,024.7	7,802.1	27.8	29.0	90.58	154.9	1,362.7	1,505.3	1,449.4	55.86	26.947		
8,900.0	7,740.0	8,025.3	7,802.7	29.3	29.0	90.61	154.9	1,362.7	1,581.1	1,523.7	57.41	27.541		
9,000.0	7,740.0	8,025.8	7,803.2	30.8	29.0	90.64	154.9	1,362.7	1,659.6	1,600.6	58.98	28.137		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,740.0	8,026.4	7,803.8	32.4	29.0	90.67	154.9	1,362.7	1,740.2	1,679.6	60.57	28.729		
9,200.0	7,740.0	8,026.9	7,804.4	33.9	29.0	90.70	154.9	1,362.7	1,822.7	1,760.6	62.18	29.314		
9,300.0	7,740.0	8,027.5	7,804.9	35.5	29.0	90.74	154.9	1,362.7	1,907.0	1,843.2	63.80	29.889		
9,400.0	7,740.0	8,028.1	7,805.5	37.2	29.0	90.77	154.9	1,362.7	1,992.6	1,927.2	65.43	30.452		
9,500.0	7,740.0	8,028.6	7,806.1	38.8	29.0	90.80	155.0	1,362.7	2,079.6	2,012.5	67.08	31.002		
9,600.0	7,740.0	8,029.2	7,806.6	40.4	29.0	90.83	155.0	1,362.7	2,167.7	2,098.9	68.73	31.538		
9,700.0	7,740.0	8,029.8	7,807.2	42.0	29.0	90.87	155.0	1,362.7	2,256.8	2,186.4	70.39	32.059		
9,800.0	7,740.0	8,030.3	7,807.8	43.7	29.0	90.90	155.0	1,362.7	2,346.7	2,274.7	72.06	32.565		
9,900.0	7,740.0	8,030.9	7,808.3	45.4	29.0	90.93	155.0	1,362.7	2,437.5	2,363.7	73.74	33.056		
10,000.0	7,740.0	8,031.5	7,808.9	47.0	29.0	90.96	155.0	1,362.7	2,528.9	2,453.5	75.42	33.531		
10,100.0	7,740.0	8,032.1	7,809.5	48.7	29.0	91.00	155.0	1,362.7	2,621.0	2,543.9	77.11	33.992		
10,200.0	7,740.0	8,032.6	7,810.0	50.4	29.0	91.03	155.0	1,362.7	2,713.6	2,634.8	78.80	34.438		
10,300.0	7,740.0	8,033.2	7,810.6	52.1	29.0	91.06	155.0	1,362.7	2,806.7	2,726.2	80.49	34.870		
10,400.0	7,740.0	8,033.8	7,811.2	53.7	29.0	91.09	155.0	1,362.7	2,900.3	2,818.1	82.19	35.288		
10,500.0	7,740.0	8,034.4	7,811.8	55.4	29.0	91.13	155.0	1,362.7	2,994.3	2,910.4	83.89	35.693		
10,600.0	7,740.0	8,034.9	7,812.4	57.1	29.0	91.16	155.0	1,362.7	3,088.7	3,003.1	85.60	36.084		
10,700.0	7,740.0	8,035.5	7,812.9	58.8	29.0	91.19	155.0	1,362.7	3,183.4	3,096.1	87.30	36.463		
10,800.0	7,740.0	8,036.1	7,813.5	60.5	29.0	91.23	155.0	1,362.7	3,278.4	3,189.4	89.01	36.830		
10,900.0	7,740.0	8,036.7	7,814.1	62.2	29.0	91.26	155.0	1,362.7	3,373.8	3,283.0	90.73	37.186		
11,000.0	7,740.0	8,037.3	7,814.7	63.9	29.0	91.29	155.0	1,362.7	3,469.4	3,376.9	92.44	37.530		
11,100.0	7,740.0	8,037.9	7,815.3	65.7	29.0	91.33	155.0	1,362.7	3,565.2	3,471.0	94.16	37.863		
11,200.0	7,740.0	8,038.4	7,815.9	67.4	29.0	91.36	155.0	1,362.7	3,661.2	3,565.4	95.88	38.186		
11,300.0	7,740.0	8,039.0	7,816.4	69.1	29.0	91.39	155.0	1,362.7	3,757.5	3,659.9	97.60	38.500		
11,400.0	7,740.0	8,039.6	7,817.0	70.8	29.0	91.43	155.0	1,362.7	3,853.9	3,754.6	99.32	38.803		
11,500.0	7,740.0	8,040.2	7,817.6	72.5	29.0	91.46	155.0	1,362.7	3,950.6	3,849.5	101.04	39.098		
11,600.0	7,740.0	8,040.8	7,818.2	74.2	29.0	91.49	155.0	1,362.7	4,047.4	3,944.6	102.77	39.383		
11,700.0	7,740.0	8,041.4	7,818.8	76.0	29.0	91.53	155.0	1,362.7	4,144.3	4,039.8	104.49	39.661		
11,800.0	7,740.0	8,042.0	7,819.4	77.7	29.0	91.56	155.0	1,362.7	4,241.4	4,135.2	106.22	39.930		
11,900.0	7,740.0	8,042.6	7,820.0	79.4	29.0	91.59	155.0	1,362.7	4,338.6	4,230.6	107.95	40.191		
12,000.0	7,740.0	8,043.2	7,820.6	81.1	29.0	91.63	155.0	1,362.7	4,435.9	4,326.3	109.68	40.445		
12,100.0	7,740.0	8,043.8	7,821.2	82.9	29.0	91.66	155.0	1,362.7	4,533.4	4,422.0	111.41	40.692		
12,200.0	7,740.0	8,044.4	7,821.8	84.6	29.0	91.70	155.0	1,362.7	4,630.9	4,517.8	113.14	40.932		
12,300.0	7,740.0	8,045.0	7,822.4	86.3	29.0	91.73	155.0	1,362.7	4,728.6	4,613.7	114.87	41.165		
12,400.0	7,740.0	8,045.6	7,823.0	88.0	29.0	91.77	155.0	1,362.6	4,826.4	4,709.8	116.60	41.392		
12,500.0	7,740.0	8,046.2	7,823.6	89.8	29.0	91.80	155.1	1,362.6	4,924.2	4,805.9	118.33	41.613		
12,600.0	7,740.0	8,046.8	7,824.2	91.5	29.0	91.83	155.1	1,362.6	5,022.2	4,902.1	120.07	41.828		
12,700.0	7,740.0	8,047.4	7,824.8	93.2	29.0	91.87	155.1	1,362.6	5,120.2	4,998.4	121.80	42.037		
12,800.0	7,740.0	8,048.0	7,825.4	95.0	29.0	91.90	155.1	1,362.6	5,218.3	5,094.7	123.54	42.241		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 41-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	104.3	104.3	0.0	0.2	35.95	1,584.2	1,148.8	1,957.6				
100.0	100.0	303.5	303.2	0.2	0.6	36.00	1,574.8	1,144.1	1,952.4	1,951.7	0.75	2,617.776	
200.0	200.0	501.6	500.0	0.3	1.1	36.22	1,554.0	1,138.2	1,942.1	1,940.7	1.43	1,355.429	
300.0	300.0	614.8	612.1	0.5	1.5	36.44	1,537.8	1,135.6	1,929.3	1,927.4	1.94	995.698	
400.0	400.0	754.6	749.7	0.7	1.9	36.82	1,513.8	1,133.1	1,914.2	1,911.6	2.56	746.391	
500.0	500.0	868.1	861.2	0.8	2.4	37.18	1,492.0	1,131.6	1,897.9	1,894.8	3.12	607.648	
600.0	600.0	940.8	932.6	1.0	2.6	37.42	1,478.5	1,131.2	1,882.6	1,879.1	3.53	533.010	
700.0	700.0	1,084.7	1,073.8	1.2	3.2	-58.98	1,450.9	1,130.2	1,866.6	1,863.2	3.47	537.815	
800.0	800.0	1,310.9	1,293.2	1.4	4.2	-58.40	1,396.6	1,124.7	1,844.9	1,840.6	4.29	430.152	
897.7	897.5	1,444.5	1,421.1	1.6	4.9	-58.14	1,358.1	1,119.6	1,818.2	1,813.3	4.88	372.899	
900.0	899.9	1,447.5	1,424.0	1.6	4.9	-58.13	1,357.2	1,119.5	1,817.5	1,812.6	4.89	371.661	
1,000.0	999.7	1,572.7	1,542.9	1.7	5.7	-57.62	1,318.4	1,114.6	1,788.0	1,782.5	5.50	324.937	
1,100.0	1,099.6	1,708.1	1,670.6	1.9	6.5	-56.99	1,273.7	1,109.1	1,757.1	1,750.9	6.19	283.766	
1,200.0	1,199.5	1,893.6	1,842.2	2.1	7.8	-55.92	1,204.2	1,099.8	1,721.8	1,714.6	7.17	240.185	
1,300.0	1,299.3	2,000.4	1,939.6	2.3	8.6	-55.17	1,160.5	1,094.8	1,684.6	1,676.7	7.87	214.014	
1,400.0	1,399.2	2,106.3	2,035.6	2.5	9.3	-54.38	1,116.3	1,089.2	1,646.4	1,637.8	8.60	191.492	
1,500.0	1,499.1	2,230.6	2,147.2	2.7	10.3	-53.30	1,061.8	1,083.4	1,607.5	1,598.0	9.50	169.216	
1,600.0	1,598.9	2,348.7	2,251.7	2.9	11.3	-52.14	1,007.1	1,077.2	1,566.3	1,555.9	10.41	150.416	
1,700.0	1,698.8	2,430.3	2,324.0	3.1	12.0	-51.34	969.7	1,072.1	1,525.3	1,514.2	11.11	137.296	
1,800.0	1,798.6	2,504.3	2,389.8	3.3	12.6	-50.58	936.2	1,067.6	1,485.2	1,473.5	11.77	126.168	
1,900.0	1,898.5	2,578.0	2,455.7	3.5	13.1	-49.80	903.5	1,063.6	1,446.6	1,434.2	12.44	116.294	
2,000.0	1,998.4	2,672.5	2,540.8	3.7	13.9	-48.82	862.6	1,057.6	1,408.5	1,395.3	13.24	106.391	
2,100.0	2,098.2	2,754.7	2,614.6	3.9	14.5	-47.91	826.8	1,052.5	1,370.7	1,356.7	14.00	97.934	
2,200.0	2,198.1	2,822.0	2,675.3	4.1	15.0	-47.11	797.9	1,049.4	1,334.7	1,320.0	14.67	90.983	
2,300.0	2,298.0	2,954.6	2,794.3	4.2	16.1	-45.47	740.1	1,041.5	1,297.6	1,281.8	15.84	81.940	
2,400.0	2,397.8	3,047.8	2,877.8	4.4	16.8	-44.26	699.2	1,034.8	1,260.2	1,243.5	16.73	75.330	
2,500.0	2,497.7	3,135.6	2,956.7	4.6	17.5	-43.11	661.3	1,027.5	1,222.9	1,205.3	17.59	69.532	
2,600.0	2,597.6	3,236.4	3,047.3	4.8	18.3	-41.72	617.9	1,019.1	1,186.2	1,167.6	18.58	63.834	
2,700.0	2,697.4	3,315.3	3,117.8	5.0	18.9	-40.53	583.1	1,012.5	1,149.4	1,130.0	19.45	59.101	
2,800.0	2,797.3	3,415.0	3,207.0	5.2	19.7	-38.91	539.1	1,005.2	1,114.1	1,093.5	20.53	54.268	
2,900.0	2,897.2	3,495.9	3,279.1	5.4	20.4	-37.52	503.2	998.6	1,078.6	1,057.1	21.47	50.226	
3,000.0	2,997.0	3,575.9	3,350.6	5.6	21.0	-36.04	467.7	993.2	1,045.0	1,022.5	22.45	46.544	
3,100.0	3,096.9	3,673.0	3,437.4	5.8	21.8	-34.14	424.6	986.9	1,012.5	988.9	23.62	42.865	
3,200.0	3,196.8	3,768.1	3,522.5	6.0	22.5	-32.23	383.0	979.2	980.0	955.3	24.76	39.575	
3,300.0	3,296.6	3,854.0	3,600.1	6.2	23.2	-30.51	346.8	971.3	948.5	922.7	25.79	36.784	
3,400.0	3,396.5	3,938.1	3,676.6	6.4	23.8	-28.83	313.0	963.3	918.5	891.7	26.79	34.284	
3,500.0	3,496.4	4,017.9	3,749.4	6.6	24.4	-27.13	280.8	956.5	890.2	862.5	27.79	32.039	
3,600.0	3,596.2	4,108.5	3,831.7	6.8	25.1	-25.03	243.7	950.0	864.0	835.1	28.94	29.859	
3,700.0	3,696.1	4,184.2	3,900.2	7.0	25.7	-23.13	211.9	945.0	839.4	809.4	29.97	28.011	
3,800.0	3,796.0	4,265.5	3,973.8	7.2	26.3	-20.92	177.2	941.8	818.2	787.2	31.08	26.323	
3,900.0	3,895.8	4,353.9	4,053.7	7.4	27.0	-18.43	139.6	938.3	799.0	766.7	32.27	24.761	
4,000.0	3,995.7	4,452.7	4,142.9	7.6	27.7	-15.53	97.5	934.6	781.7	748.1	33.59	23.272	
4,100.0	4,095.5	4,557.5	4,235.6	7.8	28.6	-12.03	48.8	929.3	764.8	729.7	35.03	21.834	
4,200.0	4,195.4	4,645.4	4,312.9	8.0	29.4	-8.95	7.4	924.0	749.5	713.3	36.21	20.698	
4,300.0	4,295.3	4,723.1	4,382.1	8.2	30.0	-6.25	-27.9	919.9	737.6	700.4	37.18	19.837	
4,400.0	4,395.1	4,809.5	4,460.4	8.4	30.6	-3.43	-64.1	916.3	729.3	691.2	38.12	19.132	
4,500.0	4,495.0	4,902.8	4,546.7	8.6	31.2	-0.63	-99.5	912.7	723.3	684.3	38.99	18.550	
4,600.0	4,594.9	5,010.9	4,648.1	8.8	31.9	2.34	-136.5	907.8	718.1	678.3	39.83	18.028	
4,700.0	4,694.7	5,102.5	4,734.9	8.9	32.4	4.71	-165.3	903.3	713.7	673.3	40.48	17.631	
4,800.0	4,794.6	5,200.9	4,829.3	9.1	32.9	6.99	-193.0	899.2	710.7	669.6	41.05	17.313	
4,900.0	4,894.5	5,302.2	4,927.5	9.3	33.3	9.04	-217.4	895.3	708.1	666.6	41.53	17.049	
5,000.0	4,994.3	5,403.1	5,026.4	9.5	33.7	10.70	-237.1	892.3	705.7	663.8	41.94	16.829	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	5,094.2	5,506.9	5,128.7	9.7	34.0	12.18	-254.2	889.6	703.4	661.1	42.31	16.625	
5,200.0	5,194.1	5,617.3	5,238.0	9.9	34.3	13.52	-269.1	886.5	700.2	657.6	42.62	16.429	
5,300.0	5,293.9	5,724.4	5,344.6	10.1	34.5	14.51	-279.4	883.4	695.8	652.9	42.90	16.219	
5,400.0	5,393.8	5,826.1	5,446.0	10.3	34.6	15.20	-285.9	880.8	690.7	647.6	43.14	16.012	
5,500.0	5,493.7	5,929.1	5,549.0	10.5	34.7	15.68	-289.9	879.1	685.7	642.3	43.37	15.812	
5,600.0	5,593.5	6,037.0	5,656.8	10.7	34.8	15.99	-291.4	877.2	679.6	636.0	43.58	15.593	
5,700.0	5,693.4	6,136.8	5,756.6	10.9	34.8	16.17	-291.3	875.3	672.9	629.1	43.80	15.362	
5,800.0	5,793.3	6,236.1	5,855.9	11.1	34.9	16.34	-291.3	873.6	666.3	622.2	44.02	15.134	
5,900.0	5,893.1	6,335.4	5,955.2	11.3	35.0	16.53	-291.4	871.9	659.7	615.5	44.25	14.911	
6,000.0	5,993.0	6,434.6	6,054.3	11.5	35.0	16.73	-291.5	870.2	653.3	608.8	44.47	14.692	
6,100.0	6,092.8	6,533.0	6,152.8	11.7	35.1	16.92	-291.6	868.7	646.9	602.3	44.68	14.480	
6,200.0	6,192.7	6,630.6	6,250.3	11.9	35.1	17.06	-291.3	867.7	640.9	596.0	44.89	14.279	
6,300.0	6,292.6	6,729.5	6,349.2	12.1	35.2	17.17	-290.7	867.2	635.2	590.1	45.11	14.082	
6,400.0	6,392.4	6,829.0	6,448.8	12.3	35.2	17.31	-290.4	866.5	629.5	584.2	45.33	13.888	
6,500.0	6,492.3	6,929.1	6,548.8	12.5	35.3	17.47	-290.3	865.8	623.9	578.3	45.55	13.696	
6,600.0	6,592.2	7,029.3	6,649.1	12.7	35.4	17.65	-290.3	865.0	618.2	572.4	45.78	13.505	
6,700.0	6,692.0	7,130.4	6,750.2	12.9	35.4	17.85	-290.5	863.9	612.3	566.3	46.00	13.311	
6,800.0	6,791.9	7,231.2	6,850.9	13.1	35.5	18.08	-290.8	862.6	606.3	560.1	46.23	13.116	
6,900.0	6,891.8	7,331.5	6,951.2	13.3	35.6	18.32	-291.1	861.1	600.2	553.7	46.45	12.921	
7,000.0	6,991.6	7,432.5	7,052.2	13.5	35.6	18.57	-291.3	859.5	593.9	547.3	46.67	12.725	
7,100.0	7,091.5	7,533.8	7,153.5	13.7	35.7	18.82	-291.4	857.7	587.4	540.5	46.90	12.526	
7,172.4	7,163.8	7,606.3	7,226.0	13.8	35.8	19.00	-291.5	856.3	582.6	535.6	47.06	12.381	
7,200.0	7,191.4	7,633.9	7,253.5	13.9	35.8	65.60	-291.4	855.8	581.1	534.0	47.12	12.332	
7,250.0	7,241.1	7,683.7	7,303.3	14.0	35.8	95.69	-291.4	854.8	579.9	532.7	47.20	12.286	
7,254.8	7,245.8	7,688.4	7,308.1	14.0	35.8	96.98	-291.4	854.7	579.9	532.7	47.20	12.285 CC, ES, SF	
7,300.0	7,290.3	7,733.1	7,352.8	14.0	35.8	104.88	-291.3	853.8	580.7	533.5	47.21	12.302	
7,350.0	7,338.5	7,781.9	7,401.5	14.1	35.9	109.57	-291.2	852.9	583.9	536.7	47.15	12.382	
7,400.0	7,385.5	7,829.4	7,449.0	14.2	35.9	112.69	-291.0	852.0	589.4	542.4	47.05	12.529	
7,450.0	7,430.8	7,875.3	7,494.9	14.3	35.9	115.04	-290.7	851.1	597.7	550.8	46.89	12.747	
7,500.0	7,474.1	7,917.8	7,537.4	14.5	36.0	116.84	-290.4	850.3	608.9	562.2	46.70	13.037	
7,550.0	7,515.0	7,957.7	7,577.3	14.6	36.0	118.19	-290.0	849.7	623.3	576.8	46.52	13.399	
7,600.0	7,553.3	7,995.1	7,614.7	14.8	36.0	119.13	-289.7	849.2	641.1	594.7	46.36	13.827	
7,650.0	7,588.7	8,029.8	7,649.4	15.0	36.0	119.61	-289.4	848.8	662.3	616.0	46.28	14.312	
7,700.0	7,620.9	8,061.4	7,681.0	15.2	36.0	119.58	-289.1	848.6	686.9	640.6	46.30	14.836	
7,750.0	7,649.6	8,090.2	7,709.8	15.5	36.0	118.99	-288.8	848.4	714.9	668.4	46.49	15.378	
7,800.0	7,674.7	8,115.4	7,735.0	15.8	36.1	117.71	-288.5	848.3	745.9	699.0	46.89	15.908	
7,850.0	7,695.9	8,136.8	7,756.4	16.1	36.1	115.59	-288.3	848.2	779.9	732.3	47.55	16.401	
7,900.0	7,713.1	8,154.3	7,773.9	16.5	36.1	112.50	-288.1	848.1	816.4	767.9	48.49	16.836	
7,950.0	7,726.1	8,167.6	7,787.2	16.9	36.1	108.23	-288.0	848.0	855.2	805.6	49.69	17.213	
8,000.0	7,734.9	8,176.8	7,796.4	17.4	36.1	102.61	-287.9	848.0	895.9	844.9	51.01	17.564	
8,050.0	7,739.4	8,181.7	7,801.3	17.9	36.1	95.53	-287.8	848.0	938.1	885.9	52.20	17.969	
8,076.4	7,740.0	8,182.6	7,802.2	18.2	36.1	91.21	-287.8	848.0	960.8	908.1	52.66	18.246	
8,100.0	7,740.0	8,182.9	7,802.4	18.4	36.1	91.24	-287.8	848.0	981.2	928.3	52.93	18.540	
8,200.0	7,740.0	8,183.9	7,803.5	19.6	36.1	91.36	-287.8	848.0	1,069.4	1,015.3	54.13	19.758	
8,300.0	7,740.0	8,184.9	7,804.5	20.8	36.1	91.48	-287.8	848.0	1,159.6	1,104.1	55.41	20.927	
8,400.0	7,740.0	8,185.9	7,805.5	22.1	36.1	91.60	-287.8	848.0	1,251.2	1,194.4	56.76	22.044	
8,500.0	7,740.0	8,186.9	7,806.5	23.4	36.1	91.72	-287.8	847.9	1,344.0	1,285.8	58.16	23.107	
8,600.0	7,740.0	8,187.9	7,807.5	24.8	36.1	91.84	-287.8	847.9	1,437.8	1,378.1	59.61	24.118	
8,700.0	7,740.0	8,188.9	7,808.5	26.3	36.1	91.96	-287.8	847.9	1,532.3	1,471.2	61.10	25.079	
8,800.0	7,740.0	8,190.0	7,809.6	27.8	36.1	92.08	-287.8	847.9	1,627.5	1,564.9	62.62	25.991	
8,900.0	7,740.0	8,191.0	7,810.6	29.3	36.1	92.20	-287.7	847.9	1,723.3	1,659.1	64.16	26.858	
9,000.0	7,740.0	8,192.0	7,811.6	30.8	36.1	92.32	-287.7	847.9	1,819.5	1,753.8	65.73	27.681	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
9,100.0	7,740.0	8,193.0	7,812.6	32.4	36.1	92.44	-287.7	847.9	1,916.1	1,848.8	67.31	28.465			
9,200.0	7,740.0	8,194.0	7,813.6	33.9	36.1	92.56	-287.7	847.9	2,013.0	1,944.1	68.92	29.210			
9,300.0	7,740.0	8,195.0	7,814.6	35.5	36.1	92.68	-287.7	847.9	2,110.2	2,039.7	70.53	29.920			
9,400.0	7,740.0	8,196.0	7,815.6	37.2	36.1	92.80	-287.7	847.9	2,207.7	2,135.5	72.16	30.596			
9,500.0	7,740.0	8,197.1	7,816.7	38.8	36.1	92.93	-287.7	847.9	2,305.4	2,231.6	73.79	31.241			
9,600.0	7,740.0	8,198.1	7,817.7	40.4	36.1	93.05	-287.7	847.9	2,403.2	2,327.8	75.44	31.858			
9,700.0	7,740.0	8,199.1	7,818.7	42.0	36.1	93.17	-287.7	847.9	2,501.3	2,424.2	77.09	32.446			
9,800.0	7,740.0	8,200.1	7,819.7	43.7	36.1	93.29	-287.6	847.9	2,599.5	2,520.7	78.75	33.010			
9,900.0	7,740.0	8,201.1	7,820.7	45.4	36.1	93.40	-287.6	847.9	2,697.8	2,617.4	80.41	33.549			
10,000.0	7,740.0	8,202.1	7,821.7	47.0	36.1	93.52	-287.6	847.9	2,796.2	2,714.1	82.08	34.066			
10,100.0	7,740.0	8,203.1	7,822.7	48.7	36.1	93.64	-287.6	847.9	2,894.8	2,811.0	83.76	34.561			
10,200.0	7,740.0	8,204.2	7,823.7	50.4	36.1	93.76	-287.6	847.9	2,993.4	2,908.0	85.44	35.037			
10,300.0	7,740.0	8,205.2	7,824.8	52.1	36.1	93.88	-287.6	847.9	3,092.1	3,005.0	87.12	35.494			
10,400.0	7,740.0	8,206.2	7,825.8	53.7	36.1	94.00	-287.6	847.9	3,190.9	3,102.1	88.80	35.934			
10,500.0	7,740.0	8,207.2	7,826.8	55.4	36.1	94.12	-287.6	847.9	3,289.8	3,199.3	90.49	36.356			
10,600.0	7,740.0	8,208.2	7,827.8	57.1	36.1	94.24	-287.6	847.9	3,388.8	3,296.6	92.18	36.764			
10,700.0	7,740.0	8,209.2	7,828.8	58.8	36.1	94.36	-287.6	847.9	3,487.8	3,393.9	93.87	37.156			
10,800.0	7,740.0	8,210.2	7,829.8	60.5	36.1	94.48	-287.5	847.9	3,586.8	3,491.3	95.56	37.534			
10,900.0	7,740.0	8,211.2	7,830.8	62.2	36.1	94.60	-287.5	847.9	3,685.9	3,588.7	97.26	37.899			
11,000.0	7,740.0	8,212.3	7,831.8	63.9	36.1	94.72	-287.5	847.9	3,785.1	3,686.1	98.95	38.252			
11,100.0	7,740.0	8,213.3	7,832.9	65.7	36.1	94.84	-287.5	847.9	3,884.3	3,783.7	100.65	38.593			
11,200.0	7,740.0	8,214.3	7,833.9	67.4	36.1	94.96	-287.5	847.9	3,983.5	3,881.2	102.35	38.922			
11,300.0	7,740.0	8,215.3	7,834.9	69.1	36.1	95.08	-287.5	847.9	4,082.8	3,978.8	104.04	39.241			
11,400.0	7,740.0	8,216.3	7,835.9	70.8	36.1	95.20	-287.5	847.9	4,182.1	4,076.4	105.74	39.550			
11,500.0	7,740.0	8,217.3	7,836.9	72.5	36.1	95.32	-287.5	847.9	4,281.5	4,174.0	107.44	39.849			
11,600.0	7,740.0	8,218.3	7,837.9	74.2	36.1	95.44	-287.5	847.8	4,380.8	4,271.7	109.14	40.139			
11,700.0	7,740.0	8,219.3	7,838.9	76.0	36.1	95.55	-287.5	847.8	4,480.2	4,369.4	110.84	40.420			
11,800.0	7,740.0	8,220.3	7,839.9	77.7	36.1	95.67	-287.4	847.8	4,579.7	4,467.1	112.54	40.693			
11,900.0	7,740.0	8,221.4	7,840.9	79.4	36.1	95.79	-287.4	847.8	4,679.1	4,564.9	114.24	40.958			
12,000.0	7,740.0	8,222.4	7,842.0	81.1	36.1	95.91	-287.4	847.8	4,778.6	4,662.6	115.94	41.216			
12,100.0	7,740.0	8,223.4	7,843.0	82.9	36.1	96.03	-287.4	847.8	4,878.1	4,760.4	117.64	41.466			
12,200.0	7,740.0	8,224.4	7,844.0	84.6	36.1	96.15	-287.4	847.8	4,977.6	4,858.3	119.34	41.710			
12,300.0	7,740.0	8,225.4	7,845.0	86.3	36.1	96.27	-287.4	847.8	5,077.1	4,956.1	121.04	41.947			
12,400.0	7,740.0	8,226.4	7,846.0	88.0	36.1	96.39	-287.4	847.8	5,176.7	5,053.9	122.74	42.177			
12,500.0	7,740.0	8,227.4	7,847.0	89.8	36.1	96.50	-287.4	847.8	5,276.2	5,151.8	124.43	42.402			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 71-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	49.8	49.8	0.0	0.1	35.46	1,615.2	1,150.5	1,983.1				
100.0	100.0	125.5	125.5	0.2	0.2	35.47	1,615.5	1,151.0	1,983.7	1,983.4	0.37	5,333.850	
200.0	200.0	190.3	190.3	0.3	0.3	35.49	1,616.2	1,152.4	1,985.9	1,985.2	0.66	2,991.240	
300.0	300.0	254.0	253.9	0.5	0.5	35.53	1,617.6	1,155.0	1,990.0	1,989.1	0.96	2,076.099	
400.0	400.0	307.4	307.2	0.7	0.6	35.57	1,619.4	1,158.2	1,996.2	1,995.0	1.25	1,603.287	
500.0	500.0	345.0	344.6	0.8	0.7	35.61	1,621.2	1,160.9	2,004.7	2,003.2	1.50	1,337.002	
600.0	600.0	437.0	436.1	1.0	0.9	35.69	1,627.4	1,169.0	2,015.4	2,013.4	1.91	1,057.571	
700.0	700.0	467.8	466.6	1.2	1.0	-60.90	1,630.2	1,172.2	2,027.6	2,025.6	2.04	995.823	
800.0	800.0	529.0	527.0	1.4	1.2	-60.77	1,636.8	1,179.1	2,041.6	2,039.3	2.32	879.261	
897.7	897.5	574.8	572.0	1.6	1.4	-60.65	1,642.5	1,185.0	2,056.5	2,054.0	2.58	796.032	
900.0	899.9	576.1	573.4	1.6	1.4	-60.65	1,642.7	1,185.1	2,056.9	2,054.3	2.59	794.106	
1,000.0	999.7	636.6	632.7	1.7	1.6	-60.67	1,651.0	1,193.7	2,073.8	2,070.9	2.88	719.094	
1,100.0	1,099.6	712.0	706.4	1.9	1.9	-60.69	1,662.1	1,205.2	2,092.1	2,088.9	3.21	652.296	
1,200.0	1,199.5	893.3	884.1	2.1	2.6	-60.77	1,687.8	1,230.3	2,109.5	2,105.7	3.72	566.932	
1,300.0	1,299.3	993.2	982.4	2.3	2.9	-60.81	1,699.9	1,242.7	2,124.0	2,119.9	4.09	519.274	
1,400.0	1,399.2	1,058.6	1,046.7	2.5	3.2	-60.83	1,708.1	1,251.4	2,139.6	2,135.2	4.40	486.288	
1,500.0	1,499.1	1,120.0	1,106.8	2.7	3.4	-60.83	1,716.6	1,260.7	2,157.1	2,152.4	4.70	458.587	
1,600.0	1,598.9	1,184.5	1,169.7	2.9	3.7	-60.84	1,726.4	1,271.0	2,176.2	2,171.2	5.01	434.278	
1,700.0	1,698.8	1,264.4	1,247.5	3.1	4.1	-60.86	1,739.4	1,283.9	2,196.3	2,190.9	5.35	410.673	
1,800.0	1,798.6	1,365.5	1,345.8	3.3	4.5	-60.89	1,756.3	1,300.3	2,216.9	2,211.1	5.72	387.504	
1,900.0	1,898.5	1,526.6	1,503.1	3.5	5.1	-60.99	1,782.3	1,323.2	2,235.8	2,229.6	6.20	360.770	
2,000.0	1,998.4	1,644.0	1,618.2	3.7	5.6	-61.01	1,798.3	1,340.0	2,252.8	2,246.2	6.61	340.738	
2,100.0	2,098.2	1,713.5	1,686.2	3.9	5.9	-61.01	1,807.7	1,350.6	2,270.2	2,263.2	6.93	327.722	
2,200.0	2,198.1	1,808.9	1,779.6	4.1	6.3	-61.06	1,822.4	1,363.9	2,288.4	2,281.1	7.29	314.048	
2,300.0	2,298.0	1,887.2	1,856.1	4.2	6.6	-61.09	1,834.5	1,375.2	2,306.8	2,299.2	7.63	302.522	
2,400.0	2,397.8	1,963.3	1,930.2	4.4	6.9	-61.08	1,845.7	1,388.2	2,326.3	2,318.3	7.97	291.940	
2,500.0	2,497.7	2,065.3	2,029.4	4.6	7.4	-61.01	1,860.1	1,407.4	2,346.3	2,338.0	8.36	280.495	
2,600.0	2,597.6	2,145.4	2,107.2	4.8	7.8	-60.96	1,871.3	1,422.7	2,366.3	2,357.6	8.72	271.347	
2,700.0	2,697.4	2,233.4	2,192.5	5.0	8.2	-60.88	1,883.9	1,440.1	2,387.1	2,378.0	9.09	262.552	
2,800.0	2,797.3	2,339.9	2,295.9	5.2	8.7	-60.81	1,899.4	1,460.9	2,407.9	2,398.4	9.50	253.487	
2,900.0	2,897.2	2,478.6	2,430.8	5.4	9.2	-60.75	1,919.2	1,485.9	2,427.5	2,417.6	9.96	243.740	
3,000.0	2,997.0	2,691.0	2,639.3	5.6	10.0	-60.71	1,943.9	1,517.8	2,442.3	2,431.8	10.56	231.215	
3,100.0	3,096.9	2,735.3	2,682.8	5.8	10.2	-60.71	1,949.3	1,524.1	2,457.9	2,447.0	10.84	226.759	
3,200.0	3,196.8	2,804.0	2,750.0	6.0	10.5	-60.70	1,958.5	1,534.8	2,475.2	2,464.0	11.17	221.671	
3,300.0	3,296.6	2,945.3	2,888.4	6.2	11.0	-60.63	1,975.0	1,558.6	2,492.1	2,480.4	11.65	213.999	
3,400.0	3,396.5	3,070.8	3,011.7	6.4	11.5	-60.58	1,987.8	1,577.6	2,506.5	2,494.4	12.08	207.427	
3,500.0	3,496.4	3,128.0	3,067.8	6.6	11.7	-60.56	1,994.6	1,586.5	2,522.6	2,510.2	12.39	203.650	
3,600.0	3,596.2	3,171.6	3,110.4	6.8	11.9	-60.55	2,000.6	1,593.7	2,540.5	2,527.8	12.66	200.677	
3,700.0	3,696.1	3,276.7	3,213.0	7.0	12.4	-60.55	2,016.0	1,611.1	2,559.6	2,546.5	13.06	196.008	
3,800.0	3,796.0	3,390.0	3,323.6	7.2	12.8	-60.51	2,030.6	1,630.1	2,577.4	2,563.9	13.47	191.344	
3,900.0	3,895.8	3,459.3	3,391.4	7.4	13.1	-60.50	2,040.3	1,641.3	2,595.7	2,581.9	13.79	188.219	
4,000.0	3,995.7	3,511.1	3,441.8	7.6	13.4	-60.50	2,048.3	1,649.9	2,615.5	2,601.4	14.09	185.681	
4,100.0	4,095.5	3,564.0	3,493.0	7.8	13.6	-60.49	2,056.8	1,660.0	2,637.2	2,622.8	14.38	183.327	
4,200.0	4,195.4	4,053.6	3,973.8	8.0	15.3	-60.69	2,121.1	1,722.3	2,654.8	2,639.4	15.44	171.949	
4,300.0	4,295.3	4,314.3	4,233.8	8.2	15.7	-60.99	2,136.3	1,731.0	2,658.0	2,641.9	16.07	165.379	
4,400.0	4,395.1	4,469.1	4,388.5	8.4	15.9	-61.17	2,141.5	1,733.0	2,659.2	2,642.6	16.53	160.907	
4,500.0	4,495.0	4,626.8	4,546.2	8.6	16.1	-61.31	2,142.0	1,734.2	2,657.1	2,640.1	16.99	156.368	
4,600.0	4,594.9	4,746.4	4,665.7	8.8	16.1	-61.43	2,141.7	1,734.0	2,654.3	2,636.9	17.39	152.645	
4,700.0	4,694.7	4,872.1	4,791.4	8.9	16.2	-61.57	2,140.9	1,732.5	2,650.6	2,632.8	17.79	148.971	
4,800.0	4,794.6	4,975.5	4,894.9	9.1	16.3	-61.69	2,139.8	1,730.9	2,646.4	2,628.2	18.17	145.679	
4,900.0	4,894.5	5,076.6	4,995.9	9.3	16.4	-61.79	2,138.4	1,729.5	2,642.0	2,623.5	18.53	142.564	
5,000.0	4,994.3	5,172.7	5,092.0	9.5	16.4	-61.89	2,137.2	1,728.3	2,637.8	2,618.9	18.89	139.642	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,094.2	5,268.4	5,187.7	9.7	16.5	-62.00	2,136.2	1,727.0	2,633.7	2,614.4	19.25	136.845		
5,200.0	5,194.1	5,363.7	5,282.9	9.9	16.6	-62.11	2,135.4	1,725.6	2,629.8	2,610.2	19.60	134.165		
5,300.0	5,293.9	5,455.3	5,374.5	10.1	16.6	-62.22	2,134.8	1,724.3	2,626.1	2,606.1	19.95	131.631		
5,400.0	5,393.8	5,544.9	5,464.1	10.3	16.7	-62.33	2,134.6	1,723.3	2,622.7	2,602.5	20.30	129.226		
5,500.0	5,493.7	5,639.8	5,559.1	10.5	16.8	-62.44	2,134.7	1,722.2	2,619.8	2,599.1	20.65	126.869		
5,600.0	5,593.5	5,737.1	5,656.3	10.7	16.9	-62.57	2,135.0	1,720.9	2,616.9	2,595.9	21.01	124.579		
5,700.0	5,693.4	5,831.9	5,751.1	10.9	17.0	-62.69	2,135.6	1,719.5	2,614.2	2,592.8	21.36	122.389		
5,800.0	5,793.3	5,926.4	5,845.6	11.1	17.1	-62.82	2,136.3	1,718.2	2,611.7	2,590.0	21.71	120.287		
5,900.0	5,893.1	6,020.8	5,940.0	11.3	17.2	-62.95	2,137.2	1,717.1	2,609.4	2,587.4	22.07	118.255		
6,000.0	5,993.0	6,113.9	6,033.1	11.5	17.3	-63.08	2,138.2	1,716.0	2,607.4	2,584.9	22.42	116.312		
6,100.0	6,092.8	6,201.6	6,120.8	11.7	17.4	-63.20	2,139.5	1,715.2	2,605.7	2,582.9	22.76	114.491		
6,200.0	6,192.7	6,293.0	6,212.1	11.9	17.5	-63.32	2,141.2	1,714.6	2,604.5	2,581.4	23.11	112.713		
6,300.0	6,292.6	6,398.4	6,317.5	12.1	17.6	-63.47	2,143.1	1,713.8	2,603.3	2,579.8	23.48	110.870		
6,400.0	6,392.4	6,504.4	6,423.5	12.3	17.8	-63.61	2,144.8	1,713.1	2,601.9	2,578.1	23.86	109.072		
6,500.0	6,492.3	6,610.9	6,530.0	12.5	17.9	-63.76	2,146.3	1,712.0	2,600.3	2,576.1	24.23	107.319		
6,600.0	6,592.2	6,704.4	6,623.5	12.7	18.0	-63.89	2,147.7	1,711.1	2,598.7	2,574.1	24.58	105.709		
6,700.0	6,692.0	6,797.3	6,716.3	12.9	18.1	-64.01	2,149.2	1,710.3	2,597.3	2,572.4	24.94	104.162		
6,800.0	6,791.9	6,908.3	6,827.3	13.1	18.2	-64.16	2,150.9	1,709.4	2,595.9	2,570.6	25.32	102.519		
6,900.0	6,891.8	7,003.0	6,922.0	13.3	18.4	-64.29	2,151.9	1,708.8	2,594.2	2,568.5	25.68	101.027		
7,000.0	6,991.6	7,077.9	6,997.0	13.5	18.5	-64.38	2,153.2	1,708.6	2,593.3	2,567.3	26.00	99.733		
7,046.1	7,037.7	7,112.5	7,031.5	13.6	18.5	-64.42	2,154.0	1,708.7	2,593.2	2,567.0	26.15	99.160		
7,100.0	7,091.5	7,155.8	7,074.8	13.7	18.6	-64.48	2,155.1	1,709.0	2,593.3	2,567.0	26.33	98.490		
7,172.4	7,163.8	7,227.3	7,146.3	13.8	18.7	-64.57	2,157.0	1,709.5	2,593.6	2,567.0	26.60	97.519		
7,200.0	7,191.4	7,254.6	7,173.6	13.9	18.7	-18.23	2,157.7	1,709.7	2,593.2	2,566.5	26.70	97.108		
7,250.0	7,241.1	7,304.0	7,222.9	14.0	18.8	11.42	2,159.1	1,710.1	2,589.6	2,562.8	26.78	96.698		
7,300.0	7,290.3	7,356.3	7,275.3	14.0	18.9	20.26	2,160.4	1,710.6	2,582.4	2,555.6	26.72	96.659		
7,350.0	7,338.5	7,409.2	7,328.1	14.1	19.0	24.74	2,161.7	1,711.0	2,571.5	2,545.0	26.52	96.962		
7,400.0	7,385.5	7,460.6	7,379.5	14.2	19.0	27.86	2,162.9	1,711.3	2,557.1	2,530.9	26.21	97.543		
7,450.0	7,430.8	7,507.6	7,426.5	14.3	19.1	30.53	2,164.0	1,711.6	2,539.3	2,513.4	25.83	98.304		
7,500.0	7,474.1	7,547.8	7,466.7	14.5	19.2	33.10	2,164.9	1,711.9	2,518.3	2,492.9	25.41	99.090		
7,550.0	7,515.0	7,585.9	7,504.8	14.6	19.2	35.79	2,165.7	1,712.3	2,494.5	2,469.4	25.04	99.625		
7,600.0	7,553.3	7,621.7	7,540.6	14.8	19.3	38.75	2,166.6	1,712.7	2,467.9	2,443.1	24.78	99.577		
7,650.0	7,588.7	7,654.9	7,573.8	15.0	19.3	42.05	2,167.4	1,713.1	2,438.9	2,414.1	24.74	98.571		
7,700.0	7,620.9	7,687.0	7,605.8	15.2	19.4	45.82	2,168.1	1,713.6	2,407.6	2,382.6	25.01	96.268		
7,750.0	7,649.6	7,716.7	7,635.5	15.5	19.4	50.10	2,168.8	1,714.0	2,374.4	2,348.7	25.65	92.563		
7,800.0	7,674.7	7,742.9	7,661.7	15.8	19.5	54.91	2,169.5	1,714.4	2,339.5	2,312.8	26.68	87.699		
7,850.0	7,695.9	7,765.2	7,684.0	16.1	19.5	60.24	2,170.0	1,714.7	2,303.3	2,275.3	28.02	82.192		
7,900.0	7,713.1	7,783.6	7,702.3	16.5	19.5	66.01	2,170.5	1,714.9	2,266.1	2,236.5	29.55	76.674		
7,950.0	7,726.1	7,797.8	7,716.6	16.9	19.5	72.11	2,170.8	1,715.1	2,228.2	2,197.1	31.08	71.686		
8,000.0	7,734.9	7,807.8	7,726.6	17.4	19.6	78.33	2,171.0	1,715.3	2,190.0	2,157.6	32.42	67.559		
8,050.0	7,739.4	7,813.5	7,732.2	17.9	19.6	84.46	2,171.2	1,715.4	2,151.8	2,118.4	33.41	64.407		
8,076.4	7,740.0	7,814.7	7,733.5	18.2	19.6	87.59	2,171.2	1,715.4	2,131.8	2,098.0	33.77	63.123		
8,100.0	7,740.0	7,815.3	7,734.1	18.4	19.6	87.62	2,171.2	1,715.4	2,114.0	2,079.9	34.04	62.099		
8,200.0	7,740.0	7,817.7	7,736.5	19.6	19.6	87.72	2,171.3	1,715.4	2,039.9	2,004.6	35.25	57.874		
8,300.0	7,740.0	7,820.1	7,738.9	20.8	19.6	87.82	2,171.3	1,715.5	1,968.0	1,931.5	36.53	53.869		
8,400.0	7,740.0	7,822.5	7,741.3	22.1	19.6	87.92	2,171.4	1,715.5	1,898.8	1,860.9	37.89	50.114		
8,500.0	7,740.0	7,825.0	7,743.7	23.4	19.6	88.02	2,171.5	1,715.5	1,832.3	1,793.0	39.30	46.624		
8,600.0	7,740.0	7,827.4	7,746.2	24.8	19.6	88.12	2,171.5	1,715.5	1,769.0	1,728.3	40.76	43.406		
8,700.0	7,740.0	7,829.8	7,748.6	26.3	19.6	88.22	2,171.6	1,715.6	1,709.3	1,667.0	42.25	40.456		
8,800.0	7,740.0	7,832.2	7,751.0	27.8	19.6	88.31	2,171.6	1,715.6	1,653.4	1,609.6	43.78	37.769		
8,900.0	7,740.0	7,834.7	7,753.4	29.3	19.6	88.41	2,171.7	1,715.6	1,601.8	1,556.5	45.33	35.337		
9,000.0	7,740.0	7,837.1	7,755.9	30.8	19.6	88.51	2,171.8	1,715.7	1,554.9	1,508.0	46.90	33.150		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
9,100.0	7,740.0	7,839.5	7,758.3	32.4	19.6	88.61	2,171.8	1,715.7	1,513.2	1,464.7	48.50	31.201	
9,200.0	7,740.0	7,842.0	7,760.7	33.9	19.6	88.71	2,171.9	1,715.7	1,477.1	1,427.0	50.11	29.477	
9,300.0	7,740.0	7,844.4	7,763.2	35.5	19.6	88.82	2,171.9	1,715.8	1,447.0	1,395.3	51.74	27.969	
9,400.0	7,740.0	7,846.9	7,765.6	37.2	19.6	88.92	2,172.0	1,715.8	1,423.3	1,370.0	53.37	26.667	
9,500.0	7,740.0	7,849.3	7,768.1	38.8	19.6	89.02	2,172.1	1,715.8	1,406.4	1,351.3	55.02	25.560	
9,600.0	7,740.0	7,851.7	7,770.5	40.4	19.6	89.12	2,172.1	1,715.9	1,396.4	1,339.7	56.68	24.637	
9,690.2	7,740.0	7,853.9	7,772.7	41.9	19.6	89.21	2,172.2	1,715.9	1,393.5	1,335.3	58.18	23.951 CC	
9,700.0	7,740.0	7,854.1	7,772.9	42.0	19.6	89.21	2,172.2	1,715.9	1,393.5	1,335.2	58.34	23.884 ES	
9,800.0	7,740.0	7,856.5	7,775.3	43.7	19.6	89.31	2,172.2	1,715.9	1,397.8	1,337.8	60.02	23.290	
9,900.0	7,740.0	7,858.9	7,777.7	45.4	19.6	89.41	2,172.3	1,716.0	1,409.2	1,347.5	61.70	22.840	
10,000.0	7,740.0	7,861.3	7,780.1	47.0	19.6	89.51	2,172.3	1,716.0	1,427.5	1,364.1	63.38	22.522	
10,100.0	7,740.0	7,863.7	7,782.5	48.7	19.6	89.61	2,172.4	1,716.0	1,452.5	1,387.4	65.07	22.321	
10,200.0	7,740.0	7,866.1	7,784.8	50.4	19.6	89.70	2,172.5	1,716.1	1,483.8	1,417.0	66.77	22.223	
10,300.0	7,740.0	7,868.4	7,787.2	52.1	19.7	89.80	2,172.5	1,716.1	1,521.0	1,452.5	68.47	22.216 SF	
10,400.0	7,740.0	7,870.8	7,789.5	53.7	19.7	89.90	2,172.6	1,716.1	1,563.8	1,493.6	70.17	22.286	
10,500.0	7,740.0	7,873.1	7,791.9	55.4	19.7	89.99	2,172.6	1,716.2	1,611.6	1,539.7	71.87	22.423	
10,600.0	7,740.0	7,875.4	7,794.2	57.1	19.7	90.09	2,172.7	1,716.2	1,664.1	1,590.5	73.58	22.615	
10,700.0	7,740.0	7,877.7	7,796.5	58.8	19.7	90.18	2,172.7	1,716.2	1,720.7	1,645.4	75.29	22.854	
10,800.0	7,740.0	7,880.0	7,798.8	60.5	19.7	90.28	2,172.8	1,716.3	1,781.2	1,704.2	77.01	23.131	
10,900.0	7,740.0	7,882.3	7,801.1	62.2	19.7	90.37	2,172.8	1,716.3	1,845.2	1,766.4	78.72	23.439	
11,000.0	7,740.0	7,884.6	7,803.4	63.9	19.7	90.47	2,172.9	1,716.3	1,912.2	1,831.7	80.44	23.772	
11,100.0	7,740.0	7,886.9	7,805.7	65.7	19.7	90.56	2,173.0	1,716.3	1,982.0	1,899.8	82.16	24.124	
11,200.0	7,740.0	7,889.2	7,807.9	67.4	19.7	90.65	2,173.0	1,716.4	2,054.3	1,970.4	83.88	24.490	
11,300.0	7,740.0	7,891.4	7,810.2	69.1	19.7	90.75	2,173.1	1,716.4	2,128.8	2,043.2	85.60	24.868	
11,400.0	7,740.0	7,893.7	7,812.4	70.8	19.7	90.84	2,173.1	1,716.4	2,205.4	2,118.0	87.33	25.254	
11,500.0	7,740.0	7,895.9	7,814.7	72.5	19.7	90.93	2,173.2	1,716.5	2,283.7	2,194.7	89.05	25.645	
11,600.0	7,740.0	7,898.2	7,816.9	74.2	19.7	91.02	2,173.2	1,716.5	2,363.7	2,273.0	90.78	26.038	
11,700.0	7,740.0	7,900.4	7,819.1	76.0	19.7	91.11	2,173.3	1,716.5	2,445.2	2,352.7	92.51	26.433	
11,800.0	7,740.0	7,902.6	7,821.3	77.7	19.7	91.21	2,173.3	1,716.6	2,528.0	2,433.8	94.23	26.826	
11,900.0	7,740.0	7,904.8	7,823.5	79.4	19.7	91.30	2,173.4	1,716.6	2,612.0	2,516.0	95.96	27.218	
12,000.0	7,740.0	7,907.0	7,825.7	81.1	19.7	91.39	2,173.4	1,716.6	2,697.1	2,599.4	97.69	27.607	
12,100.0	7,740.0	7,909.2	7,827.9	82.9	19.7	91.48	2,173.5	1,716.6	2,783.1	2,683.7	99.42	27.993	
12,200.0	7,740.0	7,911.4	7,830.1	84.6	19.7	91.57	2,173.5	1,716.7	2,870.1	2,769.0	101.15	28.374	
12,300.0	7,740.0	7,913.5	7,832.3	86.3	19.7	91.65	2,173.6	1,716.7	2,957.9	2,855.0	102.89	28.749	
12,400.0	7,740.0	7,915.7	7,834.4	88.0	19.7	91.74	2,173.6	1,716.7	3,046.5	2,941.9	104.62	29.120	
12,500.0	7,740.0	7,917.8	7,836.6	89.8	19.7	91.83	2,173.7	1,716.8	3,135.7	3,029.4	106.35	29.485	
12,600.0	7,740.0	7,920.0	7,838.7	91.5	19.7	91.92	2,173.7	1,716.8	3,225.6	3,117.5	108.08	29.843	
12,700.0	7,740.0	7,922.1	7,840.9	93.2	19.7	92.01	2,173.8	1,716.8	3,316.0	3,206.2	109.82	30.196	
12,800.0	7,740.0	7,924.3	7,843.0	95.0	19.7	92.09	2,173.8	1,716.8	3,407.0	3,295.4	111.55	30.543	
12,900.0	7,740.0	7,926.4	7,845.1	96.7	19.7	92.18	2,173.9	1,716.9	3,498.5	3,385.2	113.28	30.883	
13,000.0	7,740.0	7,928.5	7,847.2	98.4	19.7	92.27	2,173.9	1,716.9	3,590.4	3,475.4	115.02	31.216	
13,100.0	7,740.0	7,930.6	7,849.3	100.2	19.7	92.35	2,174.0	1,716.9	3,682.7	3,566.0	116.75	31.544	
13,200.0	7,740.0	7,932.7	7,851.4	101.9	19.7	92.44	2,174.0	1,717.0	3,775.5	3,657.0	118.48	31.865	
13,300.0	7,740.0	7,934.8	7,853.5	103.6	19.8	92.53	2,174.1	1,717.0	3,868.6	3,748.3	120.22	32.180	
13,400.0	7,740.0	7,936.8	7,855.6	105.4	19.8	92.61	2,174.1	1,717.0	3,962.0	3,840.0	121.95	32.488	
13,500.0	7,740.0	7,938.9	7,857.7	107.1	19.8	92.70	2,174.1	1,717.0	4,055.7	3,932.0	123.68	32.791	
13,600.0	7,740.0	7,941.0	7,859.7	108.9	19.8	92.78	2,174.2	1,717.1	4,149.8	4,024.3	125.42	33.087	
13,700.0	7,740.0	7,943.0	7,861.8	110.6	19.8	92.86	2,174.2	1,717.1	4,244.1	4,116.9	127.15	33.378	
13,800.0	7,740.0	7,945.1	7,863.8	112.3	19.8	92.95	2,174.3	1,717.1	4,338.6	4,209.7	128.89	33.662	
13,900.0	7,740.0	7,947.1	7,865.9	114.1	19.8	93.03	2,174.3	1,717.1	4,433.4	4,302.8	130.62	33.941	
14,000.0	7,740.0	7,949.2	7,867.9	115.8	19.8	93.11	2,174.4	1,717.2	4,528.4	4,396.1	132.35	34.215	
14,076.4	7,740.0	7,950.7	7,869.4	117.1	19.8	93.18	2,174.4	1,717.2	4,601.2	4,467.5	133.68	34.420	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
14,100.0	7,740.0	7,951.2	7,869.9	117.6	19.8	93.24	2,174.4	1,717.2	4,623.7	4,489.6	134.03	34.498					
14,200.0	7,740.0	7,953.2	7,871.9	119.3	19.8	93.52	2,174.5	1,717.2	4,719.5	4,584.0	135.50	34.831					
14,300.0	7,740.0	7,955.1	7,873.9	121.0	19.8	93.84	2,174.5	1,717.3	4,815.9	4,679.0	136.92	35.174					
14,338.4	7,740.0	7,955.9	7,874.6	121.7	19.8	93.98	2,174.5	1,717.3	4,853.1	4,715.7	137.45	35.308					
14,400.0	7,740.0	7,957.1	7,875.8	122.8	19.8	94.04	2,174.6	1,717.3	4,912.8	4,774.3	138.52	35.468					
14,500.0	7,740.0	7,959.0	7,877.8	124.5	19.8	94.13	2,174.6	1,717.3	5,009.9	4,869.7	140.24	35.723					
14,600.0	7,740.0	7,961.0	7,879.7	126.2	19.8	94.22	2,174.6	1,717.3	5,107.1	4,965.1	141.97	35.973					
14,632.3	7,740.0	7,961.6	7,880.3	126.8	19.8	94.25	2,174.7	1,717.3	5,138.5	4,996.0	142.53	36.052					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	33.3	33.3	0.0	0.1	44.29	801.4	781.8	1,119.6				
100.0	100.0	122.6	122.6	0.2	0.2	44.32	801.6	782.8	1,120.5	1,120.2	0.37	3,049.446	
200.0	200.0	221.0	221.0	0.3	0.4	44.38	801.9	784.7	1,122.1	1,121.4	0.72	1,568.583	
300.0	300.0	333.0	333.0	0.5	0.6	44.42	802.1	786.0	1,123.0	1,121.9	1.09	1,034.993	
400.0	400.0	436.3	436.2	0.7	0.8	44.42	802.2	786.2	1,123.2	1,121.8	1.44	780.385	
500.0	500.0	535.9	535.8	0.8	0.9	44.40	802.6	786.1	1,123.5	1,121.7	1.79	628.528	
600.0	600.0	639.6	639.6	1.0	1.1	44.40	802.7	786.0	1,123.5	1,121.3	2.14	524.335	
700.0	700.0	744.4	744.3	1.2	1.3	-52.37	802.7	785.7	1,122.7	1,120.2	2.50	449.297	
800.0	800.0	848.2	848.2	1.4	1.5	-52.54	802.5	784.5	1,120.2	1,117.3	2.86	392.260	
897.7	897.5	945.8	945.7	1.6	1.7	-52.80	802.7	783.2	1,116.8	1,113.6	3.20	348.949	
900.0	899.9	948.2	948.2	1.6	1.7	-52.80	802.7	783.2	1,116.7	1,113.5	3.21	347.993	
1,000.0	999.7	1,050.0	1,050.0	1.7	1.8	-53.06	802.4	781.9	1,112.5	1,108.9	3.57	311.786	
1,100.0	1,099.6	1,151.3	1,151.3	1.9	2.0	-53.31	802.0	780.6	1,108.3	1,104.4	3.93	282.133	
1,200.0	1,199.5	1,253.1	1,253.0	2.1	2.2	-53.58	801.7	779.0	1,103.8	1,099.5	4.29	257.281	
1,300.0	1,299.3	1,349.3	1,349.2	2.3	2.4	-53.85	801.6	777.2	1,099.4	1,094.8	4.64	236.745	
1,400.0	1,399.2	1,444.6	1,444.5	2.5	2.5	-54.13	801.9	775.7	1,095.6	1,090.6	5.00	219.242	
1,500.0	1,499.1	1,545.4	1,545.2	2.7	2.7	-54.43	802.5	774.2	1,091.9	1,086.5	5.36	203.686	
1,600.0	1,598.9	1,644.0	1,643.8	2.9	2.9	-54.73	802.8	772.5	1,088.0	1,082.3	5.72	190.184	
1,700.0	1,698.8	1,739.1	1,738.9	3.1	3.0	-55.02	803.6	771.3	1,084.7	1,078.6	6.08	178.523	
1,800.0	1,798.6	1,838.5	1,838.4	3.3	3.2	-55.33	804.5	770.0	1,081.6	1,075.1	6.44	167.961	
1,900.0	1,898.5	1,937.1	1,936.9	3.5	3.4	-55.64	805.6	768.5	1,078.5	1,071.7	6.80	158.551	
2,000.0	1,998.4	2,031.3	2,031.1	3.7	3.6	-55.96	806.9	767.2	1,075.8	1,068.6	7.16	150.293	
2,100.0	2,098.2	2,123.9	2,123.7	3.9	3.7	-56.27	808.7	766.4	1,073.7	1,066.2	7.51	142.956	
2,200.0	2,198.1	2,219.7	2,219.5	4.1	3.9	-56.58	810.9	765.9	1,072.2	1,064.4	7.87	136.242	
2,300.0	2,298.0	2,319.2	2,318.9	4.2	4.1	-56.91	813.2	765.6	1,071.0	1,062.8	8.24	130.045	
2,400.0	2,397.8	2,424.4	2,424.1	4.4	4.2	-57.23	815.2	765.3	1,069.5	1,060.9	8.61	124.199	
2,500.0	2,497.7	2,528.5	2,528.2	4.6	4.4	-57.53	816.6	765.1	1,067.6	1,058.6	8.98	118.829	
2,600.0	2,597.6	2,630.4	2,630.1	4.8	4.6	-57.82	817.6	764.9	1,065.4	1,056.1	9.35	113.904	
2,700.0	2,697.4	2,731.9	2,731.6	5.0	4.8	-58.10	818.5	764.4	1,063.1	1,053.3	9.72	109.336	
2,800.0	2,797.3	2,831.5	2,831.2	5.2	5.0	-58.38	819.3	764.1	1,060.8	1,050.7	10.09	105.143	
2,900.0	2,897.2	2,934.3	2,934.0	5.4	5.1	-58.68	820.1	763.5	1,058.3	1,047.8	10.46	101.161	
3,000.0	2,997.0	3,035.3	3,035.0	5.6	5.3	-59.01	821.1	762.3	1,055.6	1,044.8	10.83	97.459	
3,100.0	3,096.9	3,136.9	3,136.6	5.8	5.5	-59.34	821.9	761.1	1,052.9	1,041.7	11.20	93.986	
3,200.0	3,196.8	3,238.5	3,238.1	6.0	5.7	-59.67	822.7	759.6	1,050.0	1,038.4	11.57	90.712	
3,300.0	3,296.6	3,335.7	3,335.4	6.2	5.9	-60.01	823.6	758.0	1,047.1	1,035.2	11.94	87.700	
3,400.0	3,396.5	3,430.8	3,430.4	6.4	6.0	-60.34	824.8	756.6	1,044.7	1,032.4	12.30	84.928	
3,500.0	3,496.4	3,525.2	3,524.8	6.6	6.2	-60.65	826.1	755.9	1,042.8	1,030.1	12.66	82.363	
3,600.0	3,596.2	3,616.6	3,616.2	6.8	6.3	-60.95	827.8	755.6	1,041.5	1,028.5	13.01	80.028	
3,700.0	3,696.1	3,709.7	3,709.2	7.0	6.5	-61.26	830.2	755.6	1,041.2	1,027.8	13.37	77.859	
3,800.0	3,796.0	3,819.5	3,819.0	7.2	6.7	-61.64	833.0	755.3	1,040.6	1,026.8	13.76	75.620	
3,900.0	3,895.8	3,928.3	3,927.8	7.4	6.9	-61.99	834.7	754.7	1,039.1	1,025.0	14.15	73.454	
4,000.0	3,995.7	4,037.3	4,036.8	7.6	7.1	-62.34	835.7	753.7	1,036.9	1,022.4	14.53	71.351	
4,100.0	4,095.5	4,144.2	4,143.7	7.8	7.3	-62.71	835.9	751.8	1,033.7	1,018.8	14.92	69.294	
4,200.0	4,195.4	4,242.5	4,242.0	8.0	7.5	-63.07	836.3	749.7	1,030.5	1,015.2	15.29	67.412	
4,300.0	4,295.3	4,342.2	4,341.7	8.2	7.6	-63.41	836.3	748.1	1,027.2	1,011.6	15.66	65.613	
4,400.0	4,395.1	4,441.5	4,440.9	8.4	7.8	-63.73	836.4	746.7	1,024.2	1,008.2	16.03	63.905	
4,500.0	4,495.0	4,538.0	4,537.3	8.6	8.0	-64.12	837.0	744.3	1,021.2	1,004.8	16.40	62.284	
4,600.0	4,594.9	4,632.2	4,631.5	8.8	8.1	-64.52	838.6	742.0	1,018.9	1,002.2	16.76	60.795	
4,700.0	4,694.7	4,736.7	4,736.0	8.9	8.3	-64.93	839.7	739.9	1,016.6	999.5	17.14	59.304	
4,800.0	4,794.6	4,839.3	4,838.6	9.1	8.5	-65.32	840.4	737.8	1,013.9	996.4	17.52	57.873	
4,900.0	4,894.5	4,942.1	4,941.4	9.3	8.7	-65.65	840.3	736.6	1,011.1	993.2	17.90	56.498	
5,000.0	4,994.3	5,041.6	5,040.9	9.5	8.9	-65.97	839.9	735.3	1,007.9	989.7	18.27	55.179	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	5,094.2	5,137.8	5,137.1	9.7	9.0	-66.31	840.2	733.8	1,005.2	986.6	18.63	53.950	
5,200.0	5,194.1	5,239.3	5,238.5	9.9	9.2	-66.70	840.7	731.9	1,002.7	983.6	19.01	52.742	
5,300.0	5,293.9	5,337.1	5,336.3	10.1	9.4	-67.08	841.0	729.9	999.9	980.5	19.38	51.593	
5,400.0	5,393.8	5,431.7	5,431.0	10.3	9.6	-67.41	841.7	728.7	997.9	978.1	19.74	50.542	
5,500.0	5,493.7	5,534.8	5,534.0	10.5	9.7	-67.76	842.1	727.6	995.7	975.6	20.12	49.484	
5,600.0	5,593.5	5,634.1	5,633.3	10.7	9.9	-68.11	842.6	726.4	993.6	973.1	20.49	48.482	
5,700.0	5,693.4	5,737.2	5,736.4	10.9	10.1	-68.51	843.2	724.5	991.4	970.5	20.88	47.489	
5,800.0	5,793.3	5,838.5	5,837.7	11.1	10.3	-68.92	843.6	722.4	988.8	967.6	21.25	46.524	
5,900.0	5,893.1	5,936.3	5,935.4	11.3	10.4	-69.31	844.1	720.3	986.5	964.8	21.63	45.614	
6,000.0	5,993.0	6,038.9	6,038.0	11.5	10.6	-69.72	844.6	718.3	984.2	962.2	22.01	44.722	
6,100.0	6,092.8	6,144.3	6,143.4	11.7	10.8	-70.15	844.6	715.8	981.3	958.9	22.39	43.821	
6,200.0	6,192.7	6,243.1	6,242.2	11.9	11.0	-70.56	844.4	713.3	978.3	955.5	22.77	42.968	
6,300.0	6,292.6	6,340.4	6,339.4	12.1	11.2	-70.95	844.4	711.1	975.5	952.4	23.14	42.159	
6,400.0	6,392.4	6,435.0	6,434.0	12.3	11.3	-71.32	844.5	709.3	973.1	949.6	23.51	41.401	
6,500.0	6,492.3	6,529.6	6,528.5	12.5	11.5	-71.72	845.4	707.4	971.5	947.6	23.87	40.696	
6,600.0	6,592.2	6,630.4	6,629.4	12.7	11.7	-72.11	846.2	706.1	970.0	945.7	24.25	40.002	
6,700.0	6,692.0	6,731.4	6,730.3	12.9	11.9	-72.49	846.9	704.7	968.5	943.9	24.63	39.328	
6,800.0	6,791.9	6,835.3	6,834.3	13.1	12.0	-72.88	847.2	703.4	966.7	941.7	25.01	38.656	
6,900.0	6,891.8	6,936.5	6,935.4	13.3	12.2	-73.28	847.3	701.5	964.6	939.2	25.39	37.995	
7,000.0	6,991.6	7,036.3	7,035.2	13.5	12.4	-73.71	847.8	699.2	962.6	936.8	25.76	37.362	
7,100.0	7,091.5	7,140.9	7,139.8	13.7	12.6	-74.11	847.6	697.5	960.4	934.2	26.15	36.727	
7,172.4	7,163.8	7,217.8	7,216.7	13.8	12.7	-74.44	847.3	695.6	958.4	932.0	26.43	36.261	
7,200.0	7,191.4	7,248.1	7,246.9	13.9	12.8	-28.16	847.1	694.7	956.9	930.4	26.51	36.095	
7,250.0	7,241.1	7,303.9	7,302.7	14.0	12.9	1.40	846.6	692.9	951.0	924.5	26.55	35.818	
7,300.0	7,290.3	7,382.3	7,381.1	14.0	13.0	10.19	844.4	689.8	940.1	913.7	26.49	35.486	
7,350.0	7,338.5	7,449.4	7,448.0	14.1	13.1	14.83	840.5	687.5	924.1	897.9	26.28	35.171	
7,400.0	7,385.5	7,500.0	7,498.4	14.2	13.2	18.31	835.9	687.3	903.7	877.8	25.91	34.873	
7,450.0	7,430.8	7,533.6	7,531.8	14.3	13.3	21.32	832.7	687.8	879.9	854.5	25.44	34.594	
7,500.0	7,474.1	7,561.1	7,559.3	14.5	13.3	24.23	830.5	688.5	853.6	828.7	24.89	34.290	
7,550.0	7,515.0	7,600.0	7,598.0	14.6	13.4	27.71	828.1	689.8	825.1	800.7	24.38	33.848	
7,600.0	7,553.3	7,615.7	7,613.6	14.8	13.4	30.94	827.3	690.4	794.1	770.2	23.87	33.262	
7,650.0	7,588.7	7,645.1	7,643.0	15.0	13.4	35.21	826.1	691.3	761.0	737.4	23.58	32.276	
7,700.0	7,620.9	7,672.2	7,670.1	15.2	13.5	40.22	825.1	692.0	726.0	702.4	23.57	30.805	
7,750.0	7,649.6	7,700.0	7,697.9	15.5	13.5	46.29	824.4	692.5	689.4	665.4	23.99	28.740	
7,800.0	7,674.7	7,719.2	7,717.1	15.8	13.6	52.75	824.1	692.9	651.7	626.9	24.78	26.294	
7,850.0	7,695.9	7,738.3	7,736.2	16.1	13.6	60.13	823.7	693.2	613.3	587.3	25.98	23.609	
7,900.0	7,713.1	7,753.7	7,751.6	16.5	13.6	67.78	823.5	693.5	574.8	547.5	27.32	21.039	
7,950.0	7,726.1	7,765.3	7,763.2	16.9	13.6	75.17	823.3	693.7	536.8	508.2	28.57	18.788	
8,000.0	7,734.9	7,773.0	7,770.9	17.4	13.7	81.76	823.2	693.9	500.1	470.5	29.58	16.908	
8,050.0	7,739.4	7,776.6	7,774.5	17.9	13.7	87.17	823.2	693.9	465.5	435.2	30.32	15.353	
8,076.4	7,740.0	7,776.9	7,774.7	18.2	13.7	89.46	823.2	693.9	448.4	417.8	30.63	14.639	
8,100.0	7,740.0	7,776.6	7,774.4	18.4	13.7	89.41	823.2	693.9	433.9	403.0	30.90	14.042	
8,200.0	7,740.0	7,775.3	7,773.1	19.6	13.7	89.20	823.2	693.9	382.7	350.6	32.10	11.922	
8,300.0	7,740.0	7,773.9	7,771.8	20.8	13.7	88.98	823.2	693.9	353.0	319.6	33.38	10.574	
8,359.2	7,740.0	7,773.2	7,771.0	21.6	13.7	88.85	823.2	693.9	348.0	313.8	34.18	10.181 CC, ES	
8,400.0	7,740.0	7,772.6	7,770.5	22.1	13.7	88.76	823.2	693.9	350.3	315.6	34.73	10.088 SF	
8,500.0	7,740.0	7,771.2	7,769.1	23.4	13.7	88.54	823.2	693.8	375.4	339.2	36.13	10.389	
8,600.0	7,740.0	7,769.9	7,767.7	24.8	13.7	88.31	823.3	693.8	423.1	385.5	37.58	11.260	
8,700.0	7,740.0	7,768.4	7,766.3	26.3	13.6	88.07	823.3	693.8	487.0	447.9	39.06	12.467	
8,800.0	7,740.0	7,767.0	7,764.9	27.8	13.6	87.84	823.3	693.7	561.5	520.9	40.58	13.838	
8,900.0	7,740.0	7,765.5	7,763.4	29.3	13.6	87.59	823.3	693.7	643.0	600.9	42.12	15.267	
9,000.0	7,740.0	7,764.0	7,761.9	30.8	13.6	87.35	823.3	693.7	729.1	685.4	43.68	16.692	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL											Offset Site Error:		0.0 ft
Survey Program: 100-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,740.0	7,762.5	7,760.4	32.4	13.6	87.09	823.4	693.7	818.3	773.1	45.26	18.082	
9,200.0	7,740.0	7,760.9	7,758.8	33.9	13.6	86.84	823.4	693.6	909.8	863.0	46.85	19.420	
9,300.0	7,740.0	7,759.3	7,757.2	35.5	13.6	86.58	823.4	693.6	1,003.0	954.5	48.46	20.698	
9,400.0	7,740.0	7,757.7	7,755.6	37.2	13.6	86.31	823.4	693.6	1,097.3	1,047.2	50.07	21.914	
9,500.0	7,740.0	7,756.0	7,753.9	38.8	13.6	86.04	823.5	693.5	1,192.5	1,140.8	51.70	23.068	
9,600.0	7,740.0	7,754.3	7,752.2	40.4	13.6	85.76	823.5	693.5	1,288.5	1,235.2	53.33	24.162	
9,700.0	7,740.0	7,752.6	7,750.5	42.0	13.6	85.47	823.5	693.5	1,385.0	1,330.1	54.96	25.199	
9,800.0	7,740.0	7,750.8	7,748.7	43.7	13.6	85.18	823.5	693.4	1,482.0	1,425.4	56.60	26.182	
9,900.0	7,740.0	7,749.0	7,746.9	45.4	13.6	84.89	823.6	693.4	1,579.4	1,521.1	58.25	27.115	
10,000.0	7,740.0	7,747.2	7,745.1	47.0	13.6	84.58	823.6	693.4	1,677.1	1,617.2	59.89	28.000	
10,100.0	7,740.0	7,745.3	7,743.2	48.7	13.6	84.27	823.6	693.3	1,775.0	1,713.5	61.54	28.842	
10,200.0	7,740.0	7,743.4	7,741.2	50.4	13.6	83.96	823.7	693.3	1,873.2	1,810.0	63.19	29.643	
10,300.0	7,740.0	7,741.4	7,739.3	52.1	13.6	83.64	823.7	693.3	1,971.5	1,906.6	64.84	30.406	
10,400.0	7,740.0	7,739.4	7,737.3	53.7	13.6	83.31	823.7	693.2	2,070.0	2,003.5	66.49	31.134	
10,500.0	7,740.0	7,737.3	7,735.2	55.4	13.6	82.97	823.8	693.2	2,168.6	2,100.5	68.13	31.830	
10,600.0	7,740.0	7,735.2	7,733.1	57.1	13.6	82.63	823.8	693.1	2,267.4	2,197.6	69.77	32.496	
10,700.0	7,740.0	7,733.0	7,730.9	58.8	13.6	82.28	823.8	693.1	2,366.2	2,294.8	71.41	33.134	
10,800.0	7,740.0	7,730.8	7,728.7	60.5	13.6	81.92	823.9	693.1	2,465.1	2,392.1	73.05	33.747	
10,900.0	7,740.0	7,728.5	7,726.4	62.2	13.6	81.55	823.9	693.0	2,564.2	2,489.5	74.68	34.336	
11,000.0	7,740.0	7,726.2	7,724.1	63.9	13.6	81.17	823.9	693.0	2,663.3	2,587.0	76.30	34.903	
11,100.0	7,740.0	7,723.8	7,721.7	65.7	13.6	80.79	824.0	692.9	2,762.4	2,684.5	77.92	35.450	
11,200.0	7,740.0	7,721.4	7,719.3	67.4	13.6	80.39	824.0	692.9	2,861.6	2,782.1	79.54	35.979	
11,300.0	7,740.0	7,718.9	7,716.8	69.1	13.6	79.99	824.1	692.8	2,960.9	2,879.8	81.14	36.491	
11,400.0	7,740.0	7,716.4	7,714.3	70.8	13.2	50.69	835.9	687.3	3,059.9	2,993.1	82.72	37.003	
11,500.0	7,740.0	7,713.9	7,711.8	72.5	13.2	50.69	835.9	687.3	3,158.9	3,090.8	84.25	37.515	
11,600.0	7,740.0	7,711.4	7,709.3	74.2	13.2	50.69	835.9	687.3	3,258.0	3,188.5	85.78	38.027	
11,700.0	7,740.0	7,708.9	7,706.8	76.0	13.2	50.69	835.9	687.3	3,357.1	3,286.3	87.30	38.539	
11,800.0	7,740.0	7,706.4	7,704.3	77.7	13.2	50.69	835.9	687.3	3,456.2	3,384.1	88.82	39.051	
11,900.0	7,740.0	7,703.9	7,701.8	79.4	13.2	50.69	835.9	687.3	3,555.4	3,482.0	90.34	39.563	
12,000.0	7,740.0	7,701.4	7,699.3	81.1	13.2	50.69	835.9	687.3	3,654.7	3,579.9	91.86	40.075	
12,100.0	7,740.0	7,698.9	7,696.8	82.9	13.2	50.69	835.9	687.3	3,754.0	3,677.8	93.38	40.587	
12,200.0	7,740.0	7,696.4	7,694.3	84.6	13.1	47.18	839.4	687.3	3,852.7	3,778.7	94.90	41.099	
12,300.0	7,740.0	7,693.9	7,691.8	86.3	13.1	46.96	839.6	687.3	3,952.0	3,877.0	96.42	41.611	
12,400.0	7,740.0	7,691.4	7,689.3	88.0	13.1	46.75	839.8	687.3	4,051.3	3,975.3	97.94	42.123	
12,500.0	7,740.0	7,688.9	7,686.8	89.8	13.1	46.55	840.0	687.4	4,150.6	4,073.6	99.46	42.635	
12,600.0	7,740.0	7,686.4	7,684.3	91.5	13.1	46.35	840.2	687.4	4,250.0	4,171.9	100.98	43.147	
12,700.0	7,740.0	7,683.9	7,681.8	93.2	13.1	46.16	840.3	687.4	4,349.4	4,270.2	102.50	43.659	
12,800.0	7,740.0	7,681.4	7,679.3	95.0	13.1	45.98	840.5	687.5	4,448.8	4,368.6	104.02	44.171	
12,900.0	7,740.0	7,678.9	7,676.8	96.7	13.1	45.81	840.7	687.5	4,548.3	4,467.0	105.54	44.683	
13,000.0	7,740.0	7,676.4	7,674.3	98.4	13.1	45.64	840.8	687.5	4,647.7	4,565.4	107.06	45.195	
13,100.0	7,740.0	7,673.9	7,671.8	100.2	13.1	45.48	841.0	687.6	4,747.2	4,663.9	108.58	45.707	
13,200.0	7,740.0	7,671.4	7,669.3	101.9	13.1	45.32	841.1	687.6	4,846.7	4,762.3	110.10	46.219	
13,300.0	7,740.0	7,668.9	7,666.8	103.6	13.1	45.17	841.2	687.7	4,946.2	4,860.8	111.62	46.731	
13,400.0	7,740.0	7,666.4	7,664.3	105.4	13.1	45.02	841.3	687.7	5,045.7	4,959.3	113.14	47.243	
13,500.0	7,740.0	7,663.9	7,661.8	107.1	13.0	42.16	843.6	689.0	5,145.8	5,062.0	114.66	47.755	
13,600.0	7,740.0	7,661.4	7,659.3	108.9	13.0	42.16	843.6	689.0	5,245.3	5,160.4	116.18	48.267	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-20.2	20.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-20.2	20.2	19.8	0.30	66.355		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-20.2	20.2	19.5	0.65	30.871 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-91.19	-0.4	-20.9	20.9	19.9	1.00	20.866		
400.0	400.0	399.3	399.3	0.7	0.7	-94.28	-1.7	-23.2	23.2	21.9	1.36	17.142		
500.0	500.0	498.8	498.7	0.8	0.9	-98.24	-3.9	-26.9	27.2	25.5	1.72	15.858		
600.0	600.0	598.1	597.8	1.0	1.1	-102.15	-6.9	-32.1	32.9	30.8	2.09	15.773		
700.0	700.0	698.0	697.4	1.2	1.3	159.64	-9.6	-38.2	40.3	37.9	2.40	16.796		
800.0	800.0	797.6	796.9	1.4	1.5	160.77	-11.0	-44.3	49.0	46.3	2.74	17.852		
897.7	897.5	894.7	893.8	1.6	1.7	162.10	-12.3	-50.2	59.1	56.0	3.08	19.174		
900.0	899.9	897.1	896.1	1.6	1.7	162.13	-12.3	-50.4	59.4	56.3	3.09	19.208		
1,000.0	999.7	996.4	995.3	1.7	1.9	163.31	-13.6	-56.5	70.6	67.2	3.44	20.517		
1,100.0	1,099.6	1,095.8	1,094.5	1.9	2.1	164.16	-15.0	-62.5	81.8	78.0	3.79	21.591		
1,200.0	1,199.5	1,195.2	1,193.6	2.1	2.3	164.81	-16.3	-68.6	93.1	88.9	4.14	22.486		
1,300.0	1,299.3	1,294.5	1,292.8	2.3	2.5	165.32	-17.7	-74.7	104.3	99.8	4.49	23.245		
1,400.0	1,399.2	1,393.9	1,392.0	2.5	2.7	165.73	-19.0	-80.8	115.6	110.7	4.84	23.895		
1,500.0	1,499.1	1,493.2	1,491.1	2.7	2.9	166.06	-20.3	-86.9	126.8	121.7	5.19	24.459		
1,600.0	1,598.9	1,592.6	1,590.3	2.9	3.1	166.34	-21.7	-93.0	138.1	132.6	5.53	24.952		
1,700.0	1,698.8	1,692.0	1,689.5	3.1	3.3	166.58	-23.0	-99.0	149.4	143.5	5.88	25.388		
1,800.0	1,798.6	1,791.3	1,788.6	3.3	3.5	166.79	-24.4	-105.1	160.7	154.4	6.23	25.775		
1,900.0	1,898.5	1,890.7	1,887.8	3.5	3.7	166.97	-25.7	-111.2	171.9	165.3	6.58	26.121		
2,000.0	1,998.4	1,990.0	1,987.0	3.7	3.9	167.12	-27.0	-117.3	183.2	176.3	6.93	26.433		
2,100.0	2,098.2	2,089.4	2,086.1	3.9	4.1	167.26	-28.4	-123.4	194.5	187.2	7.28	26.715		
2,200.0	2,198.1	2,188.8	2,185.3	4.1	4.3	167.38	-29.7	-129.4	205.8	198.1	7.63	26.971		
2,300.0	2,298.0	2,288.1	2,284.5	4.2	4.5	167.49	-31.0	-135.5	217.0	209.1	7.98	27.205		
2,400.0	2,397.8	2,387.5	2,383.6	4.4	4.7	167.59	-32.4	-141.6	228.3	220.0	8.33	27.419		
2,500.0	2,497.7	2,486.9	2,482.8	4.6	4.9	167.68	-33.7	-147.7	239.6	230.9	8.68	27.617		
2,600.0	2,597.6	2,586.2	2,582.0	4.8	5.1	167.77	-35.1	-153.8	250.9	241.8	9.02	27.799		
2,700.0	2,697.4	2,685.6	2,681.1	5.0	5.3	167.84	-36.4	-159.9	262.1	252.8	9.37	27.967		
2,800.0	2,797.3	2,784.9	2,780.3	5.2	5.5	167.91	-37.7	-165.9	273.4	263.7	9.72	28.124		
2,900.0	2,897.2	2,884.3	2,879.5	5.4	5.7	167.97	-39.1	-172.0	284.7	274.6	10.07	28.270		
3,000.0	2,997.0	2,983.7	2,978.6	5.6	5.9	168.03	-40.4	-178.1	296.0	285.6	10.42	28.406		
3,100.0	3,096.9	3,083.0	3,077.8	5.8	6.1	168.09	-41.8	-184.2	307.3	296.5	10.77	28.533		
3,200.0	3,196.8	3,182.4	3,177.0	6.0	6.4	168.14	-43.1	-190.3	318.6	307.4	11.12	28.652		
3,300.0	3,296.6	3,281.7	3,276.1	6.2	6.6	168.18	-44.4	-196.4	329.8	318.4	11.47	28.764		
3,400.0	3,396.5	3,381.1	3,375.3	6.4	6.8	168.23	-45.8	-202.4	341.1	329.3	11.82	28.870		
3,500.0	3,496.4	3,480.5	3,474.5	6.6	7.0	168.27	-47.1	-208.5	352.4	340.2	12.16	28.969		
3,600.0	3,596.2	3,579.8	3,573.6	6.8	7.2	168.31	-48.5	-214.6	363.7	351.2	12.51	29.063		
3,700.0	3,696.1	3,679.2	3,672.8	7.0	7.4	168.34	-49.8	-220.7	375.0	362.1	12.86	29.152		
3,800.0	3,796.0	3,778.5	3,771.9	7.2	7.6	168.38	-51.1	-226.8	386.2	373.0	13.21	29.236		
3,900.0	3,895.8	3,877.9	3,871.1	7.4	7.8	168.41	-52.5	-232.8	397.5	384.0	13.56	29.316		
4,000.0	3,995.7	3,977.3	3,970.3	7.6	8.0	168.44	-53.8	-238.9	408.8	394.9	13.91	29.391		
4,100.0	4,095.5	4,076.6	4,069.4	7.8	8.2	168.47	-55.2	-245.0	420.1	405.8	14.26	29.464		
4,200.0	4,195.4	4,176.0	4,168.6	8.0	8.4	168.50	-56.5	-251.1	431.4	416.8	14.61	29.532		
4,300.0	4,295.3	4,275.4	4,267.8	8.2	8.6	168.52	-57.8	-257.2	442.7	427.7	14.96	29.598		
4,400.0	4,395.1	4,374.7	4,366.9	8.4	8.8	168.55	-59.2	-263.3	453.9	438.6	15.30	29.660		
4,500.0	4,495.0	4,474.1	4,466.1	8.6	9.0	168.57	-60.5	-269.3	465.2	449.6	15.65	29.720		
4,600.0	4,594.9	4,573.4	4,565.3	8.8	9.2	168.59	-61.9	-275.4	476.5	460.5	16.00	29.777		
4,700.0	4,694.7	4,672.8	4,664.4	8.9	9.4	168.61	-63.2	-281.5	487.8	471.4	16.35	29.832		
4,800.0	4,794.6	4,772.2	4,763.6	9.1	9.6	168.63	-64.5	-287.6	499.1	482.4	16.70	29.884		
4,900.0	4,894.5	4,871.5	4,862.8	9.3	9.8	168.65	-65.9	-293.7	510.4	493.3	17.05	29.934		
5,000.0	4,994.3	4,970.9	4,961.9	9.5	10.0	168.67	-67.2	-299.8	521.6	504.2	17.40	29.983		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
5,100.0	5,094.2	5,070.2	5,061.1	9.7	10.2	168.69	-68.6	-305.8	532.9	515.2	17.75	30.029	
5,200.0	5,194.1	5,169.6	5,160.3	9.9	10.4	168.71	-69.9	-311.9	544.2	526.1	18.10	30.074	
5,300.0	5,293.9	5,269.0	5,259.4	10.1	10.6	168.72	-71.2	-318.0	555.5	537.1	18.44	30.117	
5,400.0	5,393.8	5,368.3	5,358.6	10.3	10.9	168.74	-72.6	-324.1	566.8	548.0	18.79	30.158	
5,500.0	5,493.7	5,467.7	5,457.8	10.5	11.1	168.75	-73.9	-330.2	578.1	558.9	19.14	30.198	
5,600.0	5,593.5	5,567.1	5,556.9	10.7	11.3	168.77	-75.2	-336.3	589.4	569.9	19.49	30.236	
5,700.0	5,693.4	5,666.4	5,656.1	10.9	11.5	168.78	-76.6	-342.3	600.6	580.8	19.84	30.273	
5,800.0	5,793.3	5,765.8	5,755.3	11.1	11.7	168.79	-77.9	-348.4	611.9	591.7	20.19	30.309	
5,900.0	5,893.1	5,865.1	5,854.4	11.3	11.9	168.81	-79.3	-354.5	623.2	602.7	20.54	30.343	
6,000.0	5,993.0	5,964.5	5,953.6	11.5	12.1	168.82	-80.6	-360.6	634.5	613.6	20.89	30.377	
6,100.0	6,092.8	6,063.9	6,052.8	11.7	12.3	168.83	-81.9	-366.7	645.8	624.5	21.24	30.409	
6,200.0	6,192.7	6,163.2	6,151.9	11.9	12.5	168.84	-83.3	-372.7	657.1	635.5	21.59	30.440	
6,300.0	6,292.6	6,262.6	6,251.1	12.1	12.7	168.85	-84.6	-378.8	668.3	646.4	21.93	30.470	
6,400.0	6,392.4	6,361.9	6,350.3	12.3	12.9	168.87	-86.0	-384.9	679.6	657.3	22.28	30.500	
6,500.0	6,492.3	6,461.3	6,449.4	12.5	13.1	168.88	-87.3	-391.0	690.9	668.3	22.63	30.528	
6,600.0	6,592.2	6,560.7	6,548.6	12.7	13.3	168.89	-88.6	-397.1	702.2	679.2	22.98	30.556	
6,700.0	6,692.0	6,660.0	6,647.8	12.9	13.5	168.90	-90.0	-403.2	713.5	690.1	23.33	30.582	
6,800.0	6,791.9	6,759.4	6,746.9	13.1	13.7	168.91	-91.3	-409.2	724.8	701.1	23.68	30.608	
6,900.0	6,891.8	6,858.7	6,846.1	13.3	13.9	168.91	-92.7	-415.3	736.0	712.0	24.03	30.634	
7,000.0	6,991.6	6,958.1	6,945.3	13.5	14.1	168.92	-94.0	-421.4	747.3	723.0	24.38	30.658	
7,100.0	7,091.5	7,057.5	7,044.4	13.7	14.3	168.93	-95.3	-427.5	758.6	733.9	24.73	30.682	
7,172.4	7,163.8	7,129.4	7,116.2	13.8	14.5	168.94	-96.3	-431.9	766.8	741.8	24.98	30.699	
7,200.0	7,191.4	7,156.8	7,143.6	13.9	14.5	-144.46	-96.7	-433.6	769.9	744.9	25.07	30.711	
7,250.0	7,241.1	7,210.2	7,196.9	14.0	14.6	-114.69	-96.2	-436.8	775.8	750.5	25.23	30.741	
7,300.0	7,290.3	7,266.0	7,252.3	14.0	14.7	-106.01	-90.7	-440.2	781.4	756.0	25.39	30.774	
7,350.0	7,338.5	7,322.3	7,307.3	14.1	14.8	-101.96	-79.7	-443.6	786.9	761.4	25.55	30.802	
7,400.0	7,385.5	7,378.9	7,361.4	14.2	14.9	-99.53	-63.3	-446.9	792.1	766.4	25.71	30.811	
7,450.0	7,430.8	7,435.9	7,413.8	14.3	15.0	-97.86	-41.4	-450.1	797.0	771.1	25.89	30.786	
7,500.0	7,474.1	7,493.1	7,464.1	14.5	15.1	-96.60	-14.2	-453.2	801.6	775.5	26.10	30.710	
7,550.0	7,515.0	7,550.5	7,511.6	14.6	15.2	-95.57	17.9	-456.1	805.8	779.4	26.36	30.566	
7,600.0	7,553.3	7,608.0	7,555.7	14.8	15.4	-94.70	54.7	-458.8	809.5	782.8	26.69	30.333	
7,650.0	7,588.7	7,665.6	7,595.9	15.0	15.6	-93.94	95.7	-461.3	812.8	785.8	27.09	30.002	
7,700.0	7,620.9	7,723.1	7,631.7	15.2	15.8	-93.26	140.6	-463.5	815.7	788.1	27.59	29.567	
7,750.0	7,649.6	7,780.4	7,662.9	15.5	16.1	-92.64	188.6	-465.4	818.0	789.9	28.18	29.028	
7,800.0	7,674.7	7,837.4	7,688.9	15.8	16.4	-92.08	239.3	-467.0	819.9	791.0	28.88	28.393	
7,850.0	7,695.9	7,894.2	7,709.7	16.1	16.8	-91.56	292.1	-468.3	821.2	791.6	29.68	27.674	
7,900.0	7,713.1	7,950.5	7,725.1	16.5	17.2	-91.09	346.2	-469.2	822.1	791.5	30.57	26.888	
7,950.0	7,726.1	8,006.4	7,735.1	16.9	17.7	-90.65	401.2	-469.9	822.4	790.8	31.57	26.052	
8,000.0	7,734.9	8,061.7	7,739.7	17.4	18.2	-90.26	456.3	-470.1	822.2	789.5	32.63	25.193	
8,050.0	7,739.4	8,113.4	7,740.0	17.9	18.7	-90.00	508.0	-470.2	821.5	787.8	33.74	24.349	
8,076.4	7,740.0	8,139.8	7,740.0	18.2	18.9	-90.00	534.3	-470.2	821.1	786.8	34.34	23.911	
8,100.0	7,740.0	8,163.3	7,740.0	18.4	19.2	-90.00	557.9	-470.2	820.7	785.8	34.88	23.528	
8,200.0	7,740.0	8,263.3	7,740.0	19.6	20.3	-90.00	657.9	-470.2	818.9	781.7	37.29	21.961	
8,300.0	7,740.0	8,363.3	7,740.0	20.8	21.5	-90.00	757.9	-470.2	817.2	777.3	39.86	20.500	
8,400.0	7,740.0	8,463.3	7,740.0	22.1	22.7	-90.00	857.9	-470.2	815.5	772.9	42.57	19.155	
8,500.0	7,740.0	8,563.3	7,740.0	23.4	24.1	-90.00	957.9	-470.2	813.7	768.3	45.39	17.928	
8,600.0	7,740.0	8,663.3	7,740.0	24.8	25.4	-90.00	1,057.9	-470.2	812.0	763.7	48.30	16.812	
8,700.0	7,740.0	8,763.3	7,740.0	26.3	26.8	-90.00	1,157.8	-470.2	810.2	758.9	51.28	15.800	
8,800.0	7,740.0	8,863.2	7,740.0	27.8	28.3	-90.00	1,257.8	-470.2	808.5	754.2	54.33	14.882	
8,900.0	7,740.0	8,963.2	7,740.0	29.3	29.8	-90.00	1,357.8	-470.2	806.7	749.3	57.42	14.049	
9,000.0	7,740.0	9,063.2	7,740.0	30.8	31.3	-90.00	1,457.8	-470.2	805.0	744.4	60.57	13.291	
9,100.0	7,740.0	9,163.2	7,740.0	32.4	32.9	-90.00	1,557.8	-470.2	803.2	739.5	63.75	12.600	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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				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	9,263.2	7,740.0	33.9	34.4	-90.00	1,657.8	-470.1	801.5	734.5	66.96	11.969	
9,300.0	7,740.0	9,363.2	7,740.0	35.5	36.0	-90.00	1,757.8	-470.1	799.8	729.5	70.21	11.392	
9,400.0	7,740.0	9,463.1	7,740.0	37.2	37.6	-90.00	1,857.7	-470.1	798.0	724.5	73.47	10.861	
9,500.0	7,740.0	9,563.1	7,740.0	38.8	39.2	-90.00	1,957.7	-470.1	796.3	719.5	76.76	10.373	
9,600.0	7,740.0	9,663.1	7,740.0	40.4	40.8	-90.00	2,057.7	-470.1	794.5	714.4	80.07	9.923	
9,700.0	7,740.0	9,763.1	7,740.0	42.0	42.4	-90.00	2,157.7	-470.1	792.8	709.4	83.39	9.507	
9,800.0	7,740.0	9,863.1	7,740.0	43.7	44.1	-90.00	2,257.7	-470.1	791.0	704.3	86.73	9.121	
9,900.0	7,740.0	9,963.1	7,740.0	45.4	45.7	-90.00	2,357.7	-470.1	789.3	699.2	90.08	8.762	
10,000.0	7,740.0	10,063.1	7,740.0	47.0	47.4	-90.00	2,457.6	-470.1	787.5	694.1	93.44	8.428	
10,100.0	7,740.0	10,163.0	7,740.0	48.7	49.0	-90.00	2,557.6	-470.1	785.8	689.0	96.81	8.117	
10,200.0	7,740.0	10,263.0	7,740.0	50.4	50.7	-90.00	2,657.6	-470.1	784.0	683.8	100.19	7.825	
10,300.0	7,740.0	10,363.0	7,740.0	52.1	52.4	-90.00	2,757.6	-470.1	782.3	678.7	103.58	7.552	
10,400.0	7,740.0	10,463.0	7,740.0	53.7	54.1	-90.00	2,857.6	-470.1	780.6	673.6	106.98	7.296	
10,500.0	7,740.0	10,563.0	7,740.0	55.4	55.8	-90.00	2,957.6	-470.1	778.8	668.4	110.39	7.055	
10,600.0	7,740.0	10,663.0	7,740.0	57.1	57.4	-90.00	3,057.6	-470.1	777.1	663.3	113.80	6.828	
10,700.0	7,740.0	10,762.9	7,740.0	58.8	59.1	-90.00	3,157.5	-470.1	775.3	658.1	117.21	6.615	
10,800.0	7,740.0	10,862.9	7,740.0	60.5	60.8	-90.00	3,257.5	-470.1	773.6	652.9	120.64	6.412	
10,900.0	7,740.0	10,962.9	7,740.0	62.2	62.5	-90.00	3,357.5	-470.1	771.8	647.8	124.06	6.221	
11,000.0	7,740.0	11,062.9	7,740.0	63.9	64.2	-90.00	3,457.5	-470.1	770.1	642.6	127.49	6.040	
11,100.0	7,740.0	11,156.1	7,740.0	65.7	65.8	-90.00	3,550.7	-470.4	768.6	637.8	130.81	5.876	
11,200.0	7,740.0	11,251.4	7,740.0	67.4	67.5	-90.00	3,646.0	-471.7	768.2	634.0	134.17	5.726	
11,300.0	7,740.0	11,351.4	7,740.0	69.1	69.2	-90.00	3,746.0	-473.2	768.0	630.4	137.61	5.581	
11,400.0	7,740.0	11,451.4	7,740.0	70.8	70.9	-90.00	3,846.0	-474.7	767.7	626.7	141.06	5.443	
11,500.0	7,740.0	11,551.4	7,740.0	72.5	72.6	-90.00	3,946.0	-476.2	767.5	623.0	144.51	5.311	
11,600.0	7,740.0	11,651.4	7,740.0	74.2	74.3	-90.00	4,045.9	-477.7	767.2	619.3	147.96	5.185	
11,700.0	7,740.0	11,751.4	7,740.0	76.0	76.0	-90.00	4,145.9	-479.2	767.0	615.5	151.41	5.065	
11,800.0	7,740.0	11,851.4	7,740.0	77.7	77.8	-90.00	4,245.9	-480.7	766.7	611.8	154.87	4.951	
11,900.0	7,740.0	11,951.4	7,740.0	79.4	79.5	-90.00	4,345.9	-482.1	766.5	608.1	158.33	4.841	
12,000.0	7,740.0	12,051.4	7,740.0	81.1	81.2	-90.00	4,445.9	-483.6	766.2	604.4	161.79	4.736	
12,100.0	7,740.0	12,151.4	7,740.0	82.9	82.9	-90.00	4,545.9	-485.1	766.0	600.7	165.25	4.635	
12,200.0	7,740.0	12,251.4	7,740.0	84.6	84.6	-90.00	4,645.9	-486.6	765.7	597.0	168.72	4.538	
12,300.0	7,740.0	12,351.4	7,740.0	86.3	86.4	-90.00	4,745.9	-488.1	765.5	593.3	172.19	4.445	
12,400.0	7,740.0	12,451.4	7,740.0	88.0	88.1	-90.00	4,845.8	-489.6	765.2	589.5	175.66	4.356	
12,500.0	7,740.0	12,551.4	7,740.0	89.8	89.8	-90.00	4,945.8	-491.1	764.9	585.8	179.13	4.270	
12,600.0	7,740.0	12,651.4	7,740.0	91.5	91.6	-90.00	5,045.8	-492.6	764.7	582.1	182.60	4.188	
12,700.0	7,740.0	12,751.4	7,740.0	93.2	93.3	-90.00	5,145.8	-494.1	764.4	578.4	186.07	4.108	
12,800.0	7,740.0	12,851.4	7,740.0	95.0	95.0	-90.00	5,245.8	-495.6	764.2	574.7	189.54	4.032	
12,900.0	7,740.0	12,951.4	7,740.0	96.7	96.8	-90.00	5,345.8	-497.1	763.9	570.9	193.02	3.958	
13,000.0	7,740.0	13,051.4	7,740.0	98.4	98.5	-90.00	5,445.8	-498.6	763.7	567.2	196.50	3.887	
13,100.0	7,740.0	13,151.4	7,740.0	100.2	100.2	-90.00	5,545.8	-500.1	763.4	563.5	199.97	3.818	
13,200.0	7,740.0	13,251.4	7,740.0	101.9	102.0	-90.00	5,645.8	-501.6	763.2	559.7	203.45	3.751	
13,300.0	7,740.0	13,351.4	7,740.0	103.6	103.7	-90.00	5,745.7	-503.1	762.9	556.0	206.93	3.687	
13,400.0	7,740.0	13,451.4	7,740.0	105.4	105.4	-90.00	5,845.7	-504.6	762.7	552.3	210.41	3.625	
13,500.0	7,740.0	13,551.4	7,740.0	107.1	107.2	-90.00	5,945.7	-506.1	762.4	548.5	213.90	3.565	
13,600.0	7,740.0	13,651.4	7,740.0	108.9	108.9	-90.00	6,045.7	-507.5	762.2	544.8	217.38	3.506	
13,700.0	7,740.0	13,751.4	7,740.0	110.6	110.6	-90.00	6,145.7	-509.0	761.9	541.1	220.86	3.450	
13,800.0	7,740.0	13,851.4	7,740.0	112.3	112.4	-90.00	6,245.7	-510.5	761.7	537.3	224.35	3.395	
13,900.0	7,740.0	13,951.4	7,740.0	114.1	114.1	-90.00	6,345.7	-512.0	761.4	533.6	227.83	3.342	
14,000.0	7,740.0	14,051.4	7,740.0	115.8	115.9	-90.00	6,445.7	-513.5	761.2	529.9	231.32	3.291	
14,076.4	7,740.0	14,127.8	7,740.0	117.1	117.2	-90.00	6,522.1	-514.7	761.0	527.0	233.98	3.250	
14,100.0	7,740.0	14,151.4	7,740.0	117.6	117.6	-90.00	6,545.7	-515.0	760.9	526.1	234.80	3.241	
14,200.0	7,740.0	14,251.4	7,740.0	119.3	119.3	-90.00	6,645.6	-516.5	759.3	521.1	238.24	3.187	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
14,300.0	7,740.0	14,351.3	7,740.0	121.0	121.1	-90.00	6,745.6	-518.0	756.1	514.4	241.62	3.129	
14,338.4	7,740.0	14,389.7	7,740.0	121.7	121.8	-90.00	6,784.0	-518.6	754.3	511.4	242.89	3.106	
14,400.0	7,740.0	14,451.2	7,740.0	122.8	122.8	-90.00	6,845.4	-519.5	751.4	506.3	245.04	3.066	
14,500.0	7,740.0	14,551.1	7,740.0	124.5	124.6	-90.00	6,945.3	-521.0	746.5	498.0	248.52	3.004	
14,600.0	7,740.0	14,651.0	7,740.0	126.2	126.3	-90.00	7,045.2	-522.5	741.7	489.7	252.01	2.943	
14,632.3	7,740.0	14,682.3	7,740.0	126.8	126.8	-90.00	7,076.5	-522.9	740.2	487.0	253.12	2.924 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
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 CC, ES		
400.0	400.0	399.9	399.9	0.7	0.7	-93.59	-0.7	-10.6	10.7	9.3	1.35	7.888		
500.0	500.0	499.7	499.7	0.8	0.9	-102.22	-2.7	-12.3	12.6	10.9	1.70	7.400		
600.0	600.0	599.4	599.3	1.0	1.0	-111.64	-6.0	-15.1	16.3	14.2	2.06	7.888		
700.0	700.0	699.6	699.3	1.2	1.2	146.60	-9.5	-17.8	20.9	18.5	2.40	8.700		
800.0	800.0	799.9	799.6	1.4	1.4	146.36	-11.9	-19.1	25.3	22.6	2.75	9.202		
897.7	897.5	897.7	897.5	1.6	1.6	148.62	-13.2	-19.2	29.5	26.4	3.10	9.533		
900.0	899.9	900.1	899.8	1.6	1.6	148.69	-13.2	-19.1	29.6	26.5	3.10	9.543		
1,000.0	999.7	1,000.0	999.7	1.7	1.7	151.30	-14.4	-18.9	34.3	30.9	3.46	9.928		
1,100.0	1,099.6	1,099.8	1,099.5	1.9	1.9	153.28	-15.5	-18.6	39.1	35.3	3.81	10.257		
1,200.0	1,199.5	1,199.7	1,199.4	2.1	2.1	154.83	-16.6	-18.4	43.9	39.7	4.16	10.539		
1,300.0	1,299.3	1,299.6	1,299.3	2.3	2.3	156.07	-17.7	-18.1	48.7	44.2	4.52	10.783		
1,400.0	1,399.2	1,399.5	1,399.2	2.5	2.4	157.09	-18.9	-17.8	53.5	48.7	4.87	10.997		
1,500.0	1,499.1	1,499.4	1,499.0	2.7	2.6	157.94	-20.0	-17.6	58.4	53.2	5.22	11.184		
1,600.0	1,598.9	1,599.2	1,598.9	2.9	2.8	158.66	-21.1	-17.3	63.2	57.7	5.57	11.350		
1,700.0	1,698.8	1,699.1	1,698.8	3.1	3.0	159.27	-22.2	-17.0	68.1	62.2	5.92	11.498		
1,800.0	1,798.6	1,799.0	1,798.6	3.3	3.1	159.81	-23.4	-16.8	73.0	66.7	6.27	11.631		
1,900.0	1,898.5	1,898.9	1,898.5	3.5	3.3	160.28	-24.5	-16.5	77.9	71.2	6.63	11.751		
2,000.0	1,998.4	1,998.7	1,998.4	3.7	3.5	160.69	-25.6	-16.2	82.8	75.8	6.98	11.859		
2,100.0	2,098.2	2,098.6	2,098.3	3.9	3.7	161.05	-26.7	-16.0	87.6	80.3	7.33	11.957		
2,200.0	2,198.1	2,198.5	2,198.1	4.1	3.8	161.38	-27.9	-15.7	92.5	84.9	7.68	12.047		
2,300.0	2,298.0	2,298.4	2,298.0	4.2	4.0	161.67	-29.0	-15.4	97.4	89.4	8.03	12.130		
2,400.0	2,397.8	2,398.3	2,397.9	4.4	4.2	161.94	-30.1	-15.2	102.3	93.9	8.38	12.206		
2,500.0	2,497.7	2,498.1	2,497.8	4.6	4.4	162.18	-31.2	-14.9	107.2	98.5	8.74	12.276		
2,600.0	2,597.6	2,598.0	2,597.6	4.8	4.5	162.40	-32.4	-14.7	112.1	103.0	9.09	12.340		
2,700.0	2,697.4	2,697.9	2,697.5	5.0	4.7	162.61	-33.5	-14.4	117.0	107.6	9.44	12.401		
2,800.0	2,797.3	2,797.8	2,797.4	5.2	4.9	162.79	-34.6	-14.1	121.9	112.2	9.79	12.457		
2,900.0	2,897.2	2,897.7	2,897.2	5.4	5.1	162.96	-35.7	-13.9	126.8	116.7	10.14	12.509		
3,000.0	2,997.0	2,997.5	2,997.1	5.6	5.3	163.12	-36.9	-13.6	131.8	121.3	10.49	12.558		
3,100.0	3,096.9	3,097.4	3,097.0	5.8	5.4	163.27	-38.0	-13.3	136.7	125.8	10.84	12.604		
3,200.0	3,196.8	3,197.3	3,196.9	6.0	5.6	163.41	-39.1	-13.1	141.6	130.4	11.19	12.647		
3,300.0	3,296.6	3,297.2	3,296.7	6.2	5.8	163.53	-40.2	-12.8	146.5	134.9	11.55	12.687		
3,400.0	3,396.5	3,397.1	3,396.6	6.4	6.0	163.65	-41.4	-12.5	151.4	139.5	11.90	12.726		
3,500.0	3,496.4	3,496.9	3,496.5	6.6	6.1	163.77	-42.5	-12.3	156.3	144.1	12.25	12.762		
3,600.0	3,596.2	3,596.8	3,596.3	6.8	6.3	163.87	-43.6	-12.0	161.2	148.6	12.60	12.796		
3,700.0	3,696.1	3,696.7	3,696.2	7.0	6.5	163.97	-44.7	-11.8	166.1	153.2	12.95	12.828		
3,800.0	3,796.0	3,796.6	3,796.1	7.2	6.7	164.06	-45.9	-11.5	171.0	157.7	13.30	12.859		
3,900.0	3,895.8	3,896.4	3,896.0	7.4	6.8	164.15	-47.0	-11.2	176.0	162.3	13.65	12.888		
4,000.0	3,995.7	3,996.3	3,995.8	7.6	7.0	164.24	-48.1	-11.0	180.9	166.9	14.00	12.916		
4,100.0	4,095.5	4,096.2	4,095.7	7.8	7.2	164.31	-49.3	-10.7	185.8	171.4	14.35	12.942		
4,200.0	4,195.4	4,196.1	4,195.6	8.0	7.4	164.39	-50.4	-10.4	190.7	176.0	14.71	12.967		
4,300.0	4,295.3	4,296.0	4,295.5	8.2	7.5	164.46	-51.5	-10.2	195.6	180.5	15.06	12.991		
4,400.0	4,395.1	4,395.8	4,395.3	8.4	7.7	164.53	-52.6	-9.9	200.5	185.1	15.41	13.014		
4,500.0	4,495.0	4,495.7	4,495.2	8.6	7.9	164.59	-53.8	-9.6	205.4	189.7	15.76	13.036		
4,600.0	4,594.9	4,595.6	4,595.1	8.8	8.1	164.65	-54.9	-9.4	210.4	194.2	16.11	13.057		
4,700.0	4,694.7	4,695.5	4,694.9	8.9	8.2	164.71	-56.0	-9.1	215.3	198.8	16.46	13.077		
4,800.0	4,794.6	4,795.4	4,794.8	9.1	8.4	164.77	-57.1	-8.8	220.2	203.4	16.81	13.096		
4,900.0	4,894.5	4,895.2	4,894.7	9.3	8.6	164.82	-58.3	-8.6	225.1	207.9	17.16	13.115		
5,000.0	4,994.3	4,995.1	4,994.6	9.5	8.8	164.87	-59.4	-8.3	230.0	212.5	17.51	13.132		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,094.2	5,095.0	5,094.4	9.7	8.9	164.92	-60.5	-8.1	234.9	217.1	17.87	13.149		
5,200.0	5,194.1	5,194.9	5,194.3	9.9	9.1	164.97	-61.6	-7.8	239.8	221.6	18.22	13.166		
5,300.0	5,293.9	5,294.7	5,294.2	10.1	9.3	165.02	-62.8	-7.5	244.8	226.2	18.57	13.182		
5,400.0	5,393.8	5,394.6	5,394.0	10.3	9.5	165.06	-63.9	-7.3	249.7	230.8	18.92	13.197		
5,500.0	5,493.7	5,494.5	5,493.9	10.5	9.6	165.10	-65.0	-7.0	254.6	235.3	19.27	13.212		
5,600.0	5,593.5	5,594.4	5,593.8	10.7	9.8	165.14	-66.1	-6.7	259.5	239.9	19.62	13.226		
5,700.0	5,693.4	5,694.3	5,693.7	10.9	10.0	165.18	-67.3	-6.5	264.4	244.5	19.97	13.240		
5,800.0	5,793.3	5,794.1	5,793.5	11.1	10.2	165.22	-68.4	-6.2	269.3	249.0	20.32	13.253		
5,900.0	5,893.1	5,894.0	5,893.4	11.3	10.3	165.25	-69.5	-5.9	274.3	253.6	20.67	13.266		
6,000.0	5,993.0	5,993.9	5,993.3	11.5	10.5	165.29	-70.6	-5.7	279.2	258.2	21.03	13.278		
6,100.0	6,092.8	6,093.8	6,093.1	11.7	10.7	165.32	-71.8	-5.4	284.1	262.7	21.38	13.290		
6,200.0	6,192.7	6,193.7	6,193.0	11.9	10.9	165.35	-72.9	-5.1	289.0	267.3	21.73	13.301		
6,300.0	6,292.6	6,293.5	6,292.9	12.1	11.0	165.38	-74.0	-4.9	293.9	271.9	22.08	13.313		
6,400.0	6,392.4	6,393.4	6,392.8	12.3	11.2	165.41	-75.1	-4.6	298.9	276.4	22.43	13.323		
6,500.0	6,492.3	6,493.3	6,492.6	12.5	11.4	165.44	-76.3	-4.4	303.8	281.0	22.78	13.334		
6,600.0	6,592.2	6,593.2	6,592.5	12.7	11.6	165.47	-77.4	-4.1	308.7	285.6	23.13	13.344		
6,700.0	6,692.0	6,693.1	6,692.4	12.9	11.7	165.50	-78.5	-3.8	313.6	290.1	23.48	13.354		
6,800.0	6,791.9	6,792.9	6,792.3	13.1	11.9	165.53	-79.6	-3.6	318.5	294.7	23.83	13.364		
6,900.0	6,891.8	6,892.8	6,892.1	13.3	12.1	165.55	-80.8	-3.3	323.4	299.3	24.19	13.373		
7,000.0	6,991.6	6,992.7	6,991.9	13.5	12.3	165.58	-81.9	-3.1	328.3	303.9	24.54	13.382		
7,100.0	7,091.5	7,092.6	7,091.8	13.7	12.4	170.31	-55.7	-3.2	331.2	306.4	24.80	13.358		
7,172.4	7,163.8	7,165.5	7,159.0	13.8	12.5	174.46	-32.1	-3.5	334.9	309.9	24.99	13.398		
7,200.0	7,191.4	7,190.8	7,181.0	13.9	12.5	-137.32	-21.8	-3.6	336.9	311.8	25.07	13.436		
7,250.0	7,241.1	7,233.9	7,218.9	14.0	12.6	-104.52	-1.2	-3.9	341.4	316.1	25.24	13.528		
7,300.0	7,290.3	7,275.9	7,254.2	14.0	12.7	-92.94	21.5	-4.2	346.9	321.4	25.42	13.643		
7,350.0	7,338.5	7,316.9	7,287.0	14.1	12.8	-86.16	46.1	-4.5	353.1	327.5	25.63	13.776		
7,400.0	7,385.5	7,357.1	7,317.3	14.2	12.9	-81.21	72.3	-4.9	360.0	334.1	25.86	13.923		
7,450.0	7,430.8	7,400.0	7,347.6	14.3	13.1	-77.04	102.7	-5.4	367.3	341.2	26.10	14.075		
7,500.0	7,474.1	7,435.2	7,370.7	14.5	13.2	-73.82	129.2	-5.8	374.8	348.5	26.31	14.243		
7,550.0	7,515.0	7,473.3	7,393.8	14.6	13.4	-70.89	159.5	-6.3	382.4	355.9	26.53	14.412		
7,600.0	7,553.3	7,510.9	7,414.6	14.8	13.6	-68.33	190.9	-6.8	389.9	363.2	26.74	14.582		
7,650.0	7,588.7	7,550.0	7,434.0	15.0	13.8	-66.01	224.8	-7.3	397.2	370.2	26.94	14.743		
7,700.0	7,620.9	7,584.7	7,449.2	15.2	14.1	-64.11	256.0	-7.8	404.1	377.0	27.13	14.897		
7,750.0	7,649.6	7,621.1	7,463.2	15.5	14.4	-62.39	289.6	-8.4	410.6	383.2	27.32	15.027		
7,800.0	7,674.7	7,657.2	7,474.8	15.8	14.7	-60.92	323.8	-8.9	416.5	388.9	27.53	15.130		
7,850.0	7,695.9	7,693.1	7,484.2	16.1	15.0	-59.66	358.4	-9.5	421.7	394.0	27.76	15.193		
7,900.0	7,713.1	7,728.7	7,491.5	16.5	15.3	-58.62	393.2	-10.1	426.3	398.3	28.03	15.207		
7,950.0	7,726.1	7,764.1	7,496.5	16.9	15.7	-57.78	428.3	-10.7	430.1	401.7	28.35	15.169		
8,000.0	7,734.9	7,800.0	7,499.3	17.4	16.0	-57.12	464.0	-11.3	433.1	404.3	28.74	15.069		
8,050.0	7,739.4	7,837.6	7,500.0	17.9	16.5	-56.66	501.6	-12.0	435.2	406.0	29.22	14.894		
8,076.4	7,740.0	7,864.0	7,500.0	18.2	16.8	-56.56	528.0	-12.4	435.5	406.0	29.58	14.722		
8,100.0	7,740.0	7,887.6	7,500.0	18.4	17.0	-56.56	551.6	-12.8	435.5	405.5	30.04	14.500		
8,200.0	7,740.0	7,987.6	7,500.0	19.6	18.2	-56.56	651.6	-14.6	435.5	403.5	32.06	13.584		
8,300.0	7,740.0	8,087.6	7,500.0	20.8	19.5	-56.56	751.6	-16.3	435.5	401.3	34.22	12.727		
8,400.0	7,740.0	8,187.6	7,500.0	22.1	20.9	-56.56	851.5	-18.1	435.5	399.0	36.49	11.937		
8,500.0	7,740.0	8,287.6	7,500.0	23.4	22.3	-56.56	951.5	-19.8	435.5	396.7	38.84	11.213		
8,600.0	7,740.0	8,387.6	7,500.0	24.8	23.8	-56.56	1,051.5	-21.6	435.5	394.3	41.27	10.552		
8,700.0	7,740.0	8,487.6	7,500.0	26.3	25.3	-56.56	1,151.5	-23.3	435.5	391.8	43.77	9.951		
8,800.0	7,740.0	8,587.6	7,500.0	27.8	26.8	-56.56	1,251.5	-25.1	435.5	389.2	46.31	9.405		
8,900.0	7,740.0	8,687.6	7,500.0	29.3	28.4	-56.56	1,351.5	-26.8	435.5	386.6	48.90	8.907		
9,000.0	7,740.0	8,787.6	7,500.0	30.8	30.0	-56.56	1,451.5	-28.5	435.5	384.0	51.52	8.453		
9,100.0	7,740.0	8,887.6	7,500.0	32.4	31.6	-56.56	1,551.4	-30.3	435.5	381.4	54.18	8.038		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	8,987.6	7,500.0	33.9	33.2	-56.56	1,651.4	-32.0	435.5	378.7	56.87	7.659	
9,300.0	7,740.0	9,087.6	7,500.0	35.5	34.8	-56.56	1,751.4	-33.8	435.5	376.0	59.58	7.311	
9,322.1	7,740.0	9,109.6	7,500.0	35.9	35.2	-56.56	1,773.5	-34.2	435.5	375.4	60.18	7.238	
9,400.0	7,740.0	9,184.0	7,500.0	37.2	36.4	-56.58	1,847.8	-35.7	435.8	373.5	62.27	6.998	
9,500.0	7,740.0	9,278.0	7,500.0	38.8	37.9	-56.70	1,941.8	-39.1	437.3	372.3	65.01	6.726	
9,600.0	7,740.0	9,371.9	7,500.0	40.4	39.5	-56.93	2,035.6	-43.9	440.2	372.3	67.85	6.487	
9,700.0	7,740.0	9,468.2	7,500.0	42.0	41.1	-57.27	2,131.6	-50.4	444.3	373.5	70.82	6.274	
9,800.0	7,740.0	9,568.1	7,500.0	43.7	42.8	-57.63	2,231.2	-57.4	448.7	374.8	73.89	6.073	
9,900.0	7,740.0	9,667.9	7,500.0	45.4	44.4	-57.99	2,330.8	-64.3	453.2	376.2	76.99	5.886	
10,000.0	7,740.0	9,767.8	7,500.0	47.0	46.1	-58.33	2,430.5	-71.3	457.6	377.5	80.11	5.712	
10,100.0	7,740.0	9,867.6	7,500.0	48.7	47.8	-58.67	2,530.1	-78.3	462.1	378.8	83.25	5.550	
10,200.0	7,740.0	9,967.5	7,500.0	50.4	49.5	-59.01	2,629.7	-85.2	466.6	380.1	86.42	5.399	
10,300.0	7,740.0	10,067.4	7,500.0	52.1	51.2	-59.34	2,729.3	-92.2	471.1	381.4	89.60	5.257	
10,400.0	7,740.0	10,167.2	7,500.0	53.7	52.9	-59.66	2,828.9	-99.2	475.6	382.8	92.80	5.124	
10,500.0	7,740.0	10,267.1	7,500.0	55.4	54.6	-59.97	2,928.6	-106.1	480.1	384.1	96.02	5.000	
10,600.0	7,740.0	10,367.0	7,500.0	57.1	56.3	-60.28	3,028.2	-113.1	484.6	385.4	99.26	4.882	
10,700.0	7,740.0	10,466.8	7,500.0	58.8	58.0	-60.59	3,127.8	-120.1	489.2	386.7	102.51	4.772	
10,800.0	7,740.0	10,566.7	7,500.0	60.5	59.7	-60.88	3,227.4	-127.0	493.7	388.0	105.78	4.668	
10,900.0	7,740.0	10,666.9	7,500.0	62.2	61.5	-61.18	3,330.3	-134.1	498.2	389.1	109.11	4.566	
11,000.0	7,740.0	10,778.0	7,500.0	63.9	63.4	-61.39	3,438.3	-139.8	501.3	388.9	112.46	4.458	
11,100.0	7,740.0	10,886.3	7,500.0	65.7	65.2	-61.49	3,546.6	-143.5	502.8	387.1	115.70	4.345	
11,200.0	7,740.0	10,994.6	7,500.0	67.4	67.1	-61.47	3,654.9	-145.1	502.6	383.8	118.84	4.229	
11,300.0	7,740.0	11,096.8	7,500.0	69.1	68.8	-61.39	3,757.1	-145.3	501.2	379.4	121.81	4.115	
11,400.0	7,740.0	11,196.8	7,500.0	70.8	70.6	-61.29	3,857.1	-145.4	499.7	375.0	124.74	4.006	
11,500.0	7,740.0	11,296.8	7,500.0	72.5	72.3	-61.20	3,957.1	-145.5	498.3	370.6	127.66	3.903	
11,600.0	7,740.0	11,396.8	7,500.0	74.2	74.0	-61.11	4,057.0	-145.5	496.8	366.2	130.58	3.805	
11,700.0	7,740.0	11,496.8	7,500.0	76.0	75.7	-61.02	4,157.0	-145.6	495.4	361.9	133.50	3.711	
11,800.0	7,740.0	11,596.8	7,500.0	77.7	77.5	-60.92	4,257.0	-145.7	493.9	357.5	136.41	3.621	
11,900.0	7,740.0	11,696.7	7,500.0	79.4	79.2	-60.83	4,357.0	-145.8	492.5	353.1	139.32	3.535	
12,000.0	7,740.0	11,796.7	7,500.0	81.1	80.9	-60.73	4,457.0	-145.9	491.0	348.8	142.22	3.452	
12,100.0	7,740.0	11,896.7	7,500.0	82.9	82.7	-60.64	4,557.0	-145.9	489.5	344.4	145.12	3.373	
12,200.0	7,740.0	11,996.7	7,500.0	84.6	84.4	-60.54	4,657.0	-146.0	488.1	340.1	148.01	3.298	
12,300.0	7,740.0	12,096.7	7,500.0	86.3	86.1	-60.45	4,757.0	-146.1	486.7	335.8	150.90	3.225	
12,400.0	7,740.0	12,196.7	7,500.0	88.0	87.9	-60.35	4,856.9	-146.2	485.2	331.4	153.78	3.155	
12,500.0	7,740.0	12,296.7	7,500.0	89.8	89.6	-60.25	4,956.9	-146.3	483.8	327.1	156.66	3.088	
12,600.0	7,740.0	12,396.6	7,500.0	91.5	91.3	-60.16	5,056.9	-146.4	482.3	322.8	159.53	3.023	
12,700.0	7,740.0	12,496.6	7,500.0	93.2	93.1	-60.06	5,156.9	-146.4	480.9	318.5	162.39	2.961	
12,800.0	7,740.0	12,596.6	7,500.0	95.0	94.8	-59.96	5,256.9	-146.5	479.4	314.2	165.25	2.901	
12,900.0	7,740.0	12,696.6	7,500.0	96.7	96.5	-59.86	5,356.9	-146.6	478.0	309.9	168.10	2.843	
13,000.0	7,740.0	12,796.6	7,500.0	98.4	98.3	-59.76	5,456.9	-146.7	476.6	305.6	170.95	2.788	
13,100.0	7,740.0	12,896.6	7,500.0	100.2	100.0	-59.66	5,556.8	-146.8	475.1	301.3	173.79	2.734	
13,200.0	7,740.0	12,996.6	7,500.0	101.9	101.8	-59.55	5,656.8	-146.8	473.7	297.1	176.62	2.682	
13,300.0	7,740.0	13,096.5	7,500.0	103.6	103.5	-59.45	5,756.8	-146.9	472.3	292.8	179.45	2.632	
13,400.0	7,740.0	13,196.5	7,500.0	105.4	105.2	-59.35	5,856.8	-147.0	470.8	288.6	182.27	2.583	
13,500.0	7,740.0	13,296.5	7,500.0	107.1	107.0	-59.25	5,956.8	-147.1	469.4	284.3	185.08	2.536	
13,600.0	7,740.0	13,396.5	7,500.0	108.9	108.7	-59.14	6,056.8	-147.2	468.0	280.1	187.89	2.491	
13,700.0	7,740.0	13,496.5	7,500.0	110.6	110.5	-59.04	6,156.8	-147.3	466.5	275.9	190.68	2.447	
13,800.0	7,740.0	13,596.5	7,500.0	112.3	112.2	-58.93	6,256.7	-147.3	465.1	271.6	193.47	2.404	
13,900.0	7,740.0	13,696.5	7,500.0	114.1	113.9	-58.83	6,356.7	-147.4	463.7	267.4	196.25	2.363	
14,000.0	7,740.0	13,796.4	7,500.0	115.8	115.7	-58.72	6,456.7	-147.5	462.3	263.2	199.03	2.323	
14,076.4	7,740.0	13,872.8	7,500.0	117.1	117.0	-58.64	6,533.1	-147.6	461.2	260.0	201.14	2.293	
14,100.0	7,740.0	13,896.4	7,500.0	117.6	117.4	-58.61	6,556.7	-147.6	460.8	259.0	201.76	2.284	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,200.0	7,740.0	13,996.4	7,500.0	119.3	119.2	-58.40	6,656.7	-147.7	458.3	254.1	204.17	2.245		
14,300.0	7,740.0	14,096.3	7,500.0	121.0	120.9	-58.07	6,756.5	-147.7	454.3	248.1	206.23	2.203		
14,338.4	7,740.0	14,134.7	7,500.0	121.7	121.6	-57.91	6,794.9	-147.8	452.4	245.4	206.93	2.186		
14,400.0	7,740.0	14,196.1	7,500.0	122.8	122.7	-57.65	6,856.4	-147.8	449.1	240.9	208.18	2.157		
14,500.0	7,740.0	14,295.9	7,500.0	124.5	124.4	-57.22	6,956.2	-147.9	443.9	233.7	210.17	2.112		
14,600.0	7,740.0	14,395.7	7,500.0	126.2	126.1	-56.78	7,056.0	-148.0	438.6	226.5	212.09	2.068		
14,632.3	7,740.0	14,422.4	7,500.0	126.8	126.6	-56.66	7,082.7	-148.0	437.0	224.3	212.68	2.055 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	9.8	9.8					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	9.8	9.8	9.5	0.30	32.256		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	9.8	9.8	9.1	0.65	15.007		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	9.8	9.8	8.8	1.00	9.778		
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	9.8	9.8	8.4	1.35	7.251		
500.0	500.0	500.0	500.0	0.8	0.8	90.00	0.0	9.8	9.8	8.1	1.70	5.762 CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	90.52	-0.1	10.7	10.7	8.6	2.05	5.203		
700.0	700.0	699.6	699.6	1.2	1.2	-5.40	-0.4	13.3	12.4	10.0	2.40	5.170		
800.0	800.0	799.4	799.2	1.4	1.4	-4.84	-0.9	17.6	14.1	11.4	2.75	5.145		
897.7	897.5	896.7	896.4	1.6	1.6	-4.44	-1.5	23.4	15.8	12.7	3.08	5.126		
900.0	899.9	899.1	898.8	1.6	1.6	-4.43	-1.5	23.6	15.9	12.8	3.09	5.126		
1,000.0	999.7	998.8	998.1	1.7	1.8	-3.94	-2.4	31.4	18.5	15.0	3.44	5.372		
1,100.0	1,099.6	1,098.6	1,097.5	1.9	2.0	-3.38	-3.4	40.4	22.4	18.6	3.79	5.911		
1,200.0	1,199.5	1,198.5	1,197.0	2.1	2.2	-2.98	-4.5	49.5	26.4	22.3	4.14	6.376		
1,300.0	1,299.3	1,298.4	1,296.5	2.3	2.4	-2.69	-5.5	58.6	30.4	25.9	4.49	6.769		
1,400.0	1,399.2	1,398.3	1,396.0	2.5	2.7	-2.46	-6.5	67.7	34.4	29.5	4.84	7.105		
1,500.0	1,499.1	1,498.3	1,495.5	2.7	2.9	-2.28	-7.5	76.8	38.4	33.2	5.19	7.396		
1,600.0	1,598.9	1,598.2	1,595.0	2.9	3.1	-2.14	-8.5	85.9	42.4	36.8	5.54	7.650		
1,700.0	1,698.8	1,698.1	1,694.5	3.1	3.3	-2.02	-9.6	95.1	46.4	40.5	5.89	7.875		
1,800.0	1,798.6	1,798.0	1,794.0	3.3	3.6	-1.92	-10.6	104.2	50.3	44.1	6.24	8.074		
1,900.0	1,898.5	1,897.9	1,893.5	3.5	3.8	-1.83	-11.6	113.3	54.3	47.8	6.59	8.252		
2,000.0	1,998.4	1,997.9	1,993.0	3.7	4.0	-1.76	-12.6	122.4	58.3	51.4	6.93	8.412		
2,100.0	2,098.2	2,097.8	2,092.5	3.9	4.3	-1.69	-13.6	131.5	62.3	55.0	7.28	8.557		
2,200.0	2,198.1	2,197.7	2,192.0	4.1	4.5	-1.64	-14.7	140.6	66.3	58.7	7.63	8.689		
2,300.0	2,298.0	2,297.6	2,291.5	4.2	4.7	-1.59	-15.7	149.7	70.3	62.3	7.98	8.809		
2,400.0	2,397.8	2,397.5	2,391.0	4.4	5.0	-1.54	-16.7	158.8	74.3	66.0	8.33	8.919		
2,500.0	2,497.7	2,497.5	2,490.5	4.6	5.2	-1.50	-17.7	168.0	78.3	69.6	8.68	9.020		
2,600.0	2,597.6	2,597.4	2,590.0	4.8	5.4	-1.46	-18.7	177.1	82.3	73.3	9.03	9.114		
2,700.0	2,697.4	2,697.3	2,689.5	5.0	5.7	-1.43	-19.8	186.2	86.3	76.9	9.38	9.200		
2,800.0	2,797.3	2,797.2	2,789.0	5.2	5.9	-1.40	-20.8	195.3	90.3	80.5	9.73	9.280		
2,900.0	2,897.2	2,897.1	2,888.5	5.4	6.1	-1.37	-21.8	204.4	94.3	84.2	10.08	9.355		
3,000.0	2,997.0	2,997.1	2,988.0	5.6	6.4	-1.35	-22.8	213.5	98.3	87.8	10.43	9.425		
3,100.0	3,096.9	3,097.0	3,087.5	5.8	6.6	-1.32	-23.9	222.6	102.3	91.5	10.77	9.490		
3,200.0	3,196.8	3,196.9	3,187.0	6.0	6.8	-1.30	-24.9	231.7	106.2	95.1	11.12	9.551		
3,300.0	3,296.6	3,296.8	3,286.5	6.2	7.1	-1.28	-25.9	240.8	110.2	98.8	11.47	9.608		
3,400.0	3,396.5	3,396.8	3,386.0	6.4	7.3	-1.26	-26.9	250.0	114.2	102.4	11.82	9.662		
3,500.0	3,496.4	3,496.7	3,485.5	6.6	7.5	-1.25	-27.9	259.1	118.2	106.1	12.17	9.713		
3,600.0	3,596.2	3,596.6	3,585.0	6.8	7.8	-1.23	-29.0	268.2	122.2	109.7	12.52	9.761		
3,700.0	3,696.1	3,696.5	3,684.5	7.0	8.0	-1.21	-30.0	277.3	126.2	113.3	12.87	9.807		
3,800.0	3,796.0	3,796.4	3,784.0	7.2	8.3	-1.20	-31.0	286.4	130.2	117.0	13.22	9.850		
3,900.0	3,895.8	3,896.4	3,883.5	7.4	8.5	-1.19	-32.0	295.5	134.2	120.6	13.57	9.891		
4,000.0	3,995.7	3,996.3	3,983.0	7.6	8.7	-1.17	-33.0	304.6	138.2	124.3	13.92	9.930		
4,100.0	4,095.5	4,096.2	4,082.5	7.8	9.0	-1.16	-34.1	313.7	142.2	127.9	14.27	9.967		
4,200.0	4,195.4	4,196.1	4,182.0	8.0	9.2	-1.15	-35.1	322.9	146.2	131.6	14.61	10.002		
4,300.0	4,295.3	4,296.0	4,281.5	8.2	9.4	-1.14	-36.1	332.0	150.2	135.2	14.96	10.035		
4,400.0	4,395.1	4,396.0	4,381.0	8.4	9.7	-1.13	-37.1	341.1	154.2	138.8	15.31	10.067		
4,500.0	4,495.0	4,495.9	4,480.5	8.6	9.9	-1.12	-38.1	350.2	158.2	142.5	15.66	10.098		
4,600.0	4,594.9	4,595.8	4,580.0	8.8	10.1	-1.11	-39.2	359.3	162.1	146.1	16.01	10.127		
4,700.0	4,694.7	4,695.7	4,679.5	8.9	10.4	-1.10	-40.2	368.4	166.1	149.8	16.36	10.155		
4,800.0	4,794.6	4,795.6	4,779.0	9.1	10.6	-1.09	-41.2	377.5	170.1	153.4	16.71	10.182		
4,900.0	4,894.5	4,895.6	4,878.5	9.3	10.9	-1.09	-42.2	386.6	174.1	157.1	17.06	10.207		
5,000.0	4,994.3	4,995.5	4,978.0	9.5	11.1	-1.08	-43.3	395.7	178.1	160.7	17.41	10.232		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4										Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,094.2	5,095.4	5,077.5	9.7	11.3	-1.07	-44.3	404.9	182.1	164.4	17.76	10.256	
5,200.0	5,194.1	5,195.3	5,177.0	9.9	11.6	-1.06	-45.3	414.0	186.1	168.0	18.11	10.279	
5,300.0	5,293.9	5,295.2	5,276.5	10.1	11.8	-1.06	-46.3	423.1	190.1	171.6	18.45	10.300	
5,400.0	5,393.8	5,395.2	5,376.0	10.3	12.0	-1.05	-47.3	432.2	194.1	175.3	18.80	10.322	
5,500.0	5,493.7	5,495.1	5,475.5	10.5	12.3	-1.04	-48.4	441.3	198.1	178.9	19.15	10.342	
5,600.0	5,593.5	5,595.0	5,575.0	10.7	12.5	-1.04	-49.4	450.4	202.1	182.6	19.50	10.362	
5,700.0	5,693.4	5,694.9	5,674.5	10.9	12.7	-1.03	-50.4	459.5	206.1	186.2	19.85	10.380	
5,800.0	5,793.3	5,794.8	5,774.0	11.1	13.0	-1.03	-51.4	468.6	210.1	189.9	20.20	10.399	
5,900.0	5,893.1	5,894.8	5,873.5	11.3	13.2	-1.02	-52.4	477.7	214.1	193.5	20.55	10.416	
6,000.0	5,993.0	5,994.7	5,973.0	11.5	13.5	-1.02	-53.5	486.9	218.0	197.1	20.90	10.433	
6,100.0	6,092.8	6,094.6	6,072.5	11.7	13.7	-1.01	-54.5	496.0	222.0	200.8	21.25	10.450	
6,200.0	6,192.7	6,194.5	6,172.0	11.9	13.9	-1.01	-55.5	505.1	226.0	204.4	21.60	10.466	
6,300.0	6,292.6	6,294.4	6,271.5	12.1	14.2	-1.00	-56.5	514.2	230.0	208.1	21.95	10.481	
6,400.0	6,392.4	6,394.4	6,371.0	12.3	14.4	-1.00	-57.6	523.3	234.0	211.7	22.29	10.496	
6,500.0	6,492.3	6,494.3	6,470.5	12.5	14.6	-0.99	-58.6	532.4	238.0	215.4	22.64	10.511	
6,600.0	6,592.2	6,594.2	6,570.0	12.7	14.9	-0.99	-59.6	541.5	242.0	219.0	22.99	10.525	
6,700.0	6,692.0	6,694.1	6,669.5	12.9	15.1	-0.99	-60.6	550.6	246.0	222.7	23.34	10.539	
6,800.0	6,791.9	6,794.0	6,769.0	13.1	15.3	-0.98	-61.6	559.8	250.0	226.3	23.69	10.552	
6,900.0	6,891.8	6,894.0	6,868.5	13.3	15.6	-0.98	-62.7	568.9	254.0	229.9	24.04	10.565	
7,000.0	6,991.6	6,995.6	6,969.7	13.5	15.8	-1.38	-61.9	578.2	257.8	233.4	24.39	10.570	
7,100.0	7,091.5	7,096.6	7,068.9	13.7	16.0	-5.06	-46.0	587.4	261.0	236.2	24.76	10.540	
7,172.4	7,163.8	7,164.8	7,133.5	13.8	16.2	-9.62	-25.5	593.6	264.4	239.3	25.05	10.553	
7,200.0	7,191.4	7,189.5	7,156.4	13.9	16.2	34.61	-16.2	595.7	266.3	241.1	25.17	10.579	
7,250.0	7,241.1	7,233.5	7,195.8	14.0	16.3	60.37	2.8	599.6	270.8	245.4	25.41	10.657	
7,300.0	7,290.3	7,276.4	7,232.8	14.0	16.5	65.23	24.2	603.2	276.3	250.7	25.60	10.794	
7,350.0	7,338.5	7,318.4	7,267.4	14.1	16.6	65.64	47.7	606.6	282.7	256.9	25.75	10.977	
7,400.0	7,385.5	7,359.6	7,299.5	14.2	16.7	64.64	73.3	609.8	289.7	263.8	25.84	11.208	
7,450.0	7,430.8	7,400.0	7,329.2	14.3	16.8	63.10	100.5	612.8	297.1	271.3	25.87	11.486	
7,500.0	7,474.1	7,439.8	7,356.5	14.5	17.0	61.39	129.3	615.6	304.9	279.0	25.84	11.800	
7,550.0	7,515.0	7,479.0	7,381.4	14.6	17.2	59.66	159.5	618.2	312.7	286.9	25.74	12.146	
7,600.0	7,553.3	7,517.7	7,403.9	14.8	17.4	58.01	190.9	620.6	320.4	294.8	25.61	12.511	
7,650.0	7,588.7	7,556.0	7,424.0	15.0	17.6	56.48	223.4	622.8	328.0	302.5	25.46	12.880	
7,700.0	7,620.9	7,593.9	7,441.7	15.2	17.8	55.09	256.8	624.8	335.2	309.9	25.34	13.228	
7,750.0	7,649.6	7,631.4	7,457.0	15.5	18.0	53.85	291.1	626.5	342.0	316.7	25.28	13.530	
7,800.0	7,674.7	7,668.7	7,470.0	15.8	18.3	52.77	325.9	628.1	348.3	322.9	25.31	13.761	
7,850.0	7,695.9	7,700.0	7,479.2	16.1	18.5	51.92	355.9	629.2	354.0	328.5	25.45	13.908	
7,900.0	7,713.1	7,742.5	7,489.0	16.5	18.9	51.07	397.2	630.6	358.9	333.1	25.79	13.914	
7,950.0	7,726.1	7,779.2	7,495.0	16.9	19.2	50.46	433.4	631.5	363.2	336.9	26.31	13.803	
8,000.0	7,734.9	7,815.7	7,498.6	17.4	19.5	49.99	469.7	632.2	366.7	339.7	27.03	13.567	
8,050.0	7,739.4	7,852.2	7,500.0	17.9	19.8	49.66	506.1	632.7	369.4	341.5	27.95	13.218	
8,076.4	7,740.0	7,877.5	7,500.0	18.2	20.1	49.59	531.4	633.0	370.3	341.8	28.58	12.959	
8,100.0	7,740.0	7,901.0	7,500.0	18.4	20.3	49.66	555.0	633.2	370.8	341.8	29.00	12.788	
8,200.0	7,740.0	8,001.0	7,500.0	19.6	21.3	49.94	654.9	634.3	373.0	342.1	30.88	12.076	
8,300.0	7,740.0	8,101.0	7,500.0	20.8	22.5	50.21	754.9	635.3	375.1	342.2	32.90	11.400	
8,400.0	7,740.0	8,200.9	7,500.0	22.1	23.7	50.48	854.8	636.4	377.3	342.2	35.04	10.766	
8,500.0	7,740.0	8,300.9	7,500.0	23.4	25.0	50.75	954.8	637.4	379.4	342.1	37.28	10.178	
8,600.0	7,740.0	8,400.9	7,500.0	24.8	26.3	51.02	1,054.8	638.5	381.6	342.0	39.60	9.635	
8,700.0	7,740.0	8,500.8	7,500.0	26.3	27.7	51.28	1,154.7	639.5	383.8	341.8	42.01	9.136	
8,800.0	7,740.0	8,600.8	7,500.0	27.8	29.1	51.54	1,254.7	640.6	385.9	341.5	44.47	8.678	
8,900.0	7,740.0	8,700.7	7,500.0	29.3	30.5	51.79	1,354.6	641.6	388.1	341.1	47.00	8.258	
9,000.0	7,740.0	8,800.7	7,500.0	30.8	32.0	52.05	1,454.6	642.7	390.3	340.8	49.58	7.873	
9,100.0	7,740.0	8,900.7	7,500.0	32.4	33.5	52.30	1,554.5	643.7	392.5	340.3	52.21	7.518	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	9,000.6	7,500.0	33.9	35.1	52.55	1,654.5	644.7	394.8	339.9	54.88	7.193	
9,300.0	7,740.0	9,100.6	7,500.0	35.5	36.6	52.79	1,754.4	645.8	397.0	339.4	57.59	6.893	
9,400.0	7,740.0	9,200.5	7,500.0	37.2	38.2	53.03	1,854.4	646.8	399.2	338.9	60.34	6.616	
9,500.0	7,740.0	9,300.5	7,500.0	38.8	39.8	53.27	1,954.4	647.9	401.4	338.3	63.12	6.360	
9,600.0	7,740.0	9,400.5	7,500.0	40.4	41.4	53.51	2,054.3	648.9	403.7	337.8	65.93	6.123	
9,700.0	7,740.0	9,500.4	7,500.0	42.0	43.0	53.74	2,154.3	650.0	405.9	337.2	68.76	5.903	
9,800.0	7,740.0	9,600.4	7,500.0	43.7	44.6	53.98	2,254.2	651.0	408.2	336.6	71.63	5.699	
9,900.0	7,740.0	9,700.3	7,500.0	45.4	46.2	54.21	2,354.2	652.1	410.4	335.9	74.51	5.508	
10,000.0	7,740.0	9,800.3	7,500.0	47.0	47.9	54.43	2,454.1	653.1	412.7	335.3	77.43	5.330	
10,100.0	7,740.0	9,900.3	7,500.0	48.7	49.5	54.66	2,554.1	654.2	415.0	334.6	80.36	5.164	
10,200.0	7,740.0	10,000.2	7,500.0	50.4	51.2	54.88	2,654.0	655.2	417.3	334.0	83.31	5.008	
10,300.0	7,740.0	10,103.6	7,500.0	52.1	52.9	55.08	2,757.4	656.0	419.3	333.0	86.32	4.858	
10,400.0	7,740.0	10,210.0	7,500.0	53.7	54.6	55.15	2,863.8	655.1	420.0	330.8	89.26	4.706	
10,500.0	7,740.0	10,316.4	7,500.0	55.4	56.4	55.07	2,970.2	652.2	419.2	327.2	92.06	4.554	
10,600.0	7,740.0	10,422.7	7,500.0	57.1	58.2	54.83	3,076.4	647.3	416.9	322.2	94.70	4.402	
10,700.0	7,740.0	10,528.9	7,500.0	58.8	59.9	54.43	3,182.3	640.4	413.1	315.9	97.14	4.252	
10,800.0	7,740.0	10,634.8	7,500.0	60.5	61.7	53.86	3,287.9	631.6	407.7	308.4	99.36	4.103	
10,900.0	7,740.0	10,740.5	7,500.0	62.2	63.4	53.12	3,393.0	620.9	401.0	299.7	101.32	3.958	
11,000.0	7,740.0	10,845.8	7,500.0	63.9	65.2	52.17	3,497.5	608.3	392.8	289.9	102.96	3.816	
11,100.0	7,740.0	10,948.3	7,500.0	65.7	66.9	51.05	3,599.1	594.4	383.5	279.3	104.23	3.679	
11,200.0	7,740.0	11,047.6	7,500.0	67.4	68.5	49.88	3,697.4	580.6	374.1	268.8	105.28	3.553	
11,300.0	7,740.0	11,146.8	7,500.0	69.1	70.2	48.65	3,795.7	566.8	364.8	258.7	106.12	3.438	
11,400.0	7,740.0	11,246.1	7,500.0	70.8	71.8	47.36	3,894.0	552.9	355.7	249.0	106.73	3.333	
11,500.0	7,740.0	11,341.6	7,500.0	72.5	73.4	46.12	3,988.6	540.3	347.3	240.1	107.24	3.238	
11,600.0	7,740.0	11,437.0	7,500.0	74.2	75.0	45.02	4,083.4	529.2	340.2	232.4	107.84	3.155	
11,700.0	7,740.0	11,532.7	7,500.0	76.0	76.6	44.07	4,178.6	519.7	334.5	225.9	108.58	3.080	
11,800.0	7,740.0	11,628.6	7,500.0	77.7	78.3	43.28	4,274.2	511.7	329.9	220.4	109.52	3.012	
11,900.0	7,740.0	11,724.8	7,500.0	79.4	79.9	42.68	4,370.2	505.4	326.6	215.9	110.74	2.949	
12,000.0	7,740.0	11,821.0	7,500.0	81.1	81.6	42.28	4,466.3	500.6	324.4	212.2	112.28	2.889	
12,100.0	7,740.0	11,917.4	7,500.0	82.9	83.2	42.09	4,562.6	497.5	323.4	209.2	114.20	2.832	
12,140.3	7,740.0	11,956.2	7,500.0	83.5	83.9	42.07	4,601.4	496.7	323.3	208.2	115.09	2.809	
12,200.0	7,740.0	12,013.7	7,500.0	84.6	84.9	42.11	4,658.9	495.9	323.5	207.0	116.53	2.776	
12,300.0	7,740.0	12,110.0	7,500.0	86.3	86.6	42.34	4,755.2	496.0	324.8	205.5	119.30	2.722	
12,400.0	7,740.0	12,207.7	7,500.0	88.0	88.2	42.77	4,852.9	497.7	327.1	204.5	122.52	2.670	
12,500.0	7,740.0	12,307.6	7,500.0	89.8	90.0	43.25	4,952.8	499.6	329.6	203.7	125.89	2.618	
12,600.0	7,740.0	12,407.6	7,500.0	91.5	91.7	43.72	5,052.7	501.6	332.2	202.9	129.28	2.569	
12,700.0	7,740.0	12,507.5	7,500.0	93.2	93.4	44.17	5,152.6	503.6	334.7	202.1	132.69	2.523	
12,800.0	7,740.0	12,607.4	7,500.0	95.0	95.2	44.63	5,252.5	505.5	337.3	201.2	136.12	2.478	
12,900.0	7,740.0	12,707.4	7,500.0	96.7	96.9	45.07	5,352.5	507.5	340.0	200.4	139.56	2.436	
13,000.0	7,740.0	12,807.3	7,500.0	98.4	98.6	45.51	5,452.4	509.5	342.6	199.6	143.02	2.396	
13,100.0	7,740.0	12,907.2	7,500.0	100.2	100.4	45.94	5,552.3	511.4	345.3	198.8	146.50	2.357	
13,200.0	7,740.0	13,007.1	7,500.0	101.9	102.1	46.37	5,652.2	513.4	347.9	198.0	149.99	2.320	
13,300.0	7,740.0	13,107.1	7,500.0	103.6	103.8	46.79	5,752.1	515.4	350.7	197.2	153.49	2.284	
13,400.0	7,740.0	13,207.0	7,500.0	105.4	105.6	47.20	5,852.0	517.4	353.4	196.4	157.01	2.251	
13,500.0	7,740.0	13,306.9	7,500.0	107.1	107.3	47.61	5,951.9	519.3	356.1	195.6	160.54	2.218	
13,600.0	7,740.0	13,406.9	7,500.0	108.9	109.0	48.01	6,051.8	521.3	358.9	194.8	164.08	2.187	
13,700.0	7,740.0	13,506.8	7,500.0	110.6	110.8	48.40	6,151.7	523.3	361.6	194.0	167.63	2.157	
13,800.0	7,740.0	13,606.7	7,500.0	112.3	112.5	48.79	6,251.7	525.2	364.4	193.2	171.19	2.129	
13,900.0	7,740.0	13,706.7	7,500.0	114.1	114.3	49.17	6,351.6	527.2	367.2	192.5	174.77	2.101	
14,000.0	7,740.0	13,806.6	7,500.0	115.8	116.0	49.55	6,451.5	529.2	370.0	191.7	178.35	2.075	
14,076.4	7,740.0	13,882.9	7,500.0	117.1	117.3	49.83	6,527.8	530.7	372.2	191.1	181.09	2.055	
14,100.0	7,740.0	13,906.5	7,500.0	117.6	117.7	49.92	6,551.4	531.2	372.9	191.0	181.89	2.050	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
14,200.0	7,740.0	14,006.4	7,500.0	119.3	119.5	50.38	6,651.2	533.1	376.8	191.3	185.49	2.031	
14,300.0	7,740.0	14,106.2	7,500.0	121.0	121.2	50.99	6,751.0	535.1	382.0	192.6	189.43	2.017	
14,338.4	7,740.0	14,144.5	7,500.0	121.7	121.9	51.27	6,789.3	535.8	384.4	193.3	191.02	2.012	
14,400.0	7,740.0	14,205.8	7,500.0	122.8	122.9	51.74	6,850.6	537.1	388.4	194.5	193.88	2.003	
14,500.0	7,740.0	14,305.5	7,500.0	124.5	124.7	52.48	6,950.3	539.0	394.9	196.4	198.50	1.989	
14,600.0	7,740.0	14,405.2	7,500.0	126.2	126.4	53.20	7,049.9	541.0	401.5	198.4	203.08	1.977	
14,632.3	7,740.0	14,437.3	7,500.0	126.8	127.0	53.42	7,082.1	541.6	403.7	199.1	204.55	1.973 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	499.6	499.6	0.8	0.8	90.17	-0.1	20.7	20.7	19.0	1.70	12.200		
600.0	600.0	599.2	599.2	1.0	1.0	90.60	-0.2	23.3	23.3	21.3	2.05	11.377		
700.0	700.0	698.7	698.6	1.2	1.2	-5.77	-0.5	27.6	26.8	24.4	2.40	11.191		
800.0	800.0	798.2	797.9	1.4	1.4	-5.65	-1.0	33.7	30.3	27.5	2.74	11.037		
897.7	897.5	895.2	894.6	1.6	1.6	-5.69	-1.5	41.2	33.7	30.6	3.08	10.919		
900.0	899.9	897.6	896.9	1.6	1.6	-5.69	-1.5	41.4	33.7	30.7	3.09	10.917		
1,000.0	999.7	996.8	995.8	1.7	1.8	-5.72	-2.2	50.9	38.1	34.7	3.44	11.080		
1,100.0	1,099.6	1,096.1	1,094.4	1.9	2.1	-5.62	-3.0	62.0	44.2	40.4	3.79	11.661		
1,200.0	1,199.5	1,195.9	1,193.5	2.1	2.3	-5.52	-3.8	73.7	50.8	46.7	4.14	12.276		
1,300.0	1,299.3	1,295.7	1,292.6	2.3	2.6	-5.44	-4.6	85.4	57.4	52.9	4.49	12.796		
1,400.0	1,399.2	1,395.4	1,391.7	2.5	2.8	-5.37	-5.4	97.2	64.0	59.2	4.84	13.241		
1,500.0	1,499.1	1,495.2	1,490.7	2.7	3.1	-5.32	-6.2	108.9	70.7	65.5	5.19	13.625		
1,600.0	1,598.9	1,595.0	1,589.8	2.9	3.3	-5.28	-7.1	120.6	77.3	71.7	5.53	13.962		
1,700.0	1,698.8	1,694.8	1,688.9	3.1	3.6	-5.24	-7.9	132.3	83.9	78.0	5.88	14.258		
1,800.0	1,798.6	1,794.6	1,788.0	3.3	3.9	-5.21	-8.7	144.1	90.5	84.3	6.23	14.521		
1,900.0	1,898.5	1,894.3	1,887.1	3.5	4.1	-5.18	-9.5	155.8	97.1	90.5	6.58	14.757		
2,000.0	1,998.4	1,994.1	1,986.2	3.7	4.4	-5.16	-10.4	167.5	103.8	96.8	6.93	14.968		
2,100.0	2,098.2	2,093.9	2,085.3	3.9	4.7	-5.14	-11.2	179.2	110.4	103.1	7.28	15.160		
2,200.0	2,198.1	2,193.7	2,184.3	4.1	4.9	-5.12	-12.0	191.0	117.0	109.4	7.63	15.334		
2,300.0	2,298.0	2,293.5	2,283.4	4.2	5.2	-5.11	-12.8	202.7	123.6	115.6	7.98	15.492		
2,400.0	2,397.8	2,393.3	2,382.5	4.4	5.4	-5.09	-13.7	214.4	130.2	121.9	8.33	15.638		
2,500.0	2,497.7	2,493.0	2,481.6	4.6	5.7	-5.08	-14.5	226.2	136.9	128.2	8.68	15.771		
2,600.0	2,597.6	2,592.8	2,580.7	4.8	6.0	-5.07	-15.3	237.9	143.5	134.4	9.03	15.895		
2,700.0	2,697.4	2,692.6	2,679.8	5.0	6.2	-5.06	-16.1	249.6	150.1	140.7	9.38	16.009		
2,800.0	2,797.3	2,792.4	2,778.9	5.2	6.5	-5.05	-16.9	261.3	156.7	147.0	9.72	16.115		
2,900.0	2,897.2	2,892.2	2,877.9	5.4	6.8	-5.04	-17.8	273.1	163.3	153.3	10.07	16.213		
3,000.0	2,997.0	2,991.9	2,977.0	5.6	7.1	-5.03	-18.6	284.8	170.0	159.5	10.42	16.305		
3,100.0	3,096.9	3,091.7	3,076.1	5.8	7.3	-5.02	-19.4	296.5	176.6	165.8	10.77	16.392		
3,200.0	3,196.8	3,191.5	3,175.2	6.0	7.6	-5.01	-20.2	308.3	183.2	172.1	11.12	16.472		
3,300.0	3,296.6	3,291.3	3,274.3	6.2	7.9	-5.01	-21.1	320.0	189.8	178.3	11.47	16.548		
3,400.0	3,396.5	3,391.1	3,373.4	6.4	8.1	-5.00	-21.9	331.7	196.4	184.6	11.82	16.619		
3,500.0	3,496.4	3,490.8	3,472.4	6.6	8.4	-4.99	-22.7	343.4	203.1	190.9	12.17	16.686		
3,600.0	3,596.2	3,590.6	3,571.5	6.8	8.7	-4.99	-23.5	355.2	209.7	197.2	12.52	16.750		
3,700.0	3,696.1	3,690.4	3,670.6	7.0	8.9	-4.98	-24.4	366.9	216.3	203.4	12.87	16.810		
3,800.0	3,796.0	3,790.2	3,769.7	7.2	9.2	-4.98	-25.2	378.6	222.9	209.7	13.22	16.867		
3,900.0	3,895.8	3,890.0	3,868.8	7.4	9.5	-4.97	-26.0	390.3	229.5	216.0	13.57	16.921		
4,000.0	3,995.7	3,989.7	3,967.9	7.6	9.7	-4.97	-26.8	402.1	236.2	222.2	13.91	16.972		
4,100.0	4,095.5	4,089.5	4,067.0	7.8	10.0	-4.96	-27.6	413.8	242.8	228.5	14.26	17.021		
4,200.0	4,195.4	4,189.3	4,166.0	8.0	10.3	-4.96	-28.5	425.5	249.4	234.8	14.61	17.067		
4,300.0	4,295.3	4,289.1	4,265.1	8.2	10.5	-4.96	-29.3	437.3	256.0	241.1	14.96	17.111		
4,400.0	4,395.1	4,388.9	4,364.2	8.4	10.8	-4.95	-30.1	449.0	262.6	247.3	15.31	17.153		
4,500.0	4,495.0	4,488.6	4,463.3	8.6	11.1	-4.95	-30.9	460.7	269.3	253.6	15.66	17.194		
4,600.0	4,594.9	4,588.4	4,562.4	8.8	11.4	-4.95	-31.8	472.4	275.9	259.9	16.01	17.232		
4,700.0	4,694.7	4,688.2	4,661.5	8.9	11.6	-4.94	-32.6	484.2	282.5	266.1	16.36	17.269		
4,800.0	4,794.6	4,788.0	4,760.6	9.1	11.9	-4.94	-33.4	495.9	289.1	272.4	16.71	17.305		
4,900.0	4,894.5	4,887.8	4,859.6	9.3	12.2	-4.94	-34.2	507.6	295.7	278.7	17.06	17.338		
5,000.0	4,994.3	4,987.5	4,958.7	9.5	12.4	-4.94	-35.0	519.4	302.4	285.0	17.41	17.371		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,094.2	5,087.3	5,057.8	9.7	12.7	-4.93	-35.9	531.1	309.0	291.2	17.76	17.402	
5,200.0	5,194.1	5,187.1	5,156.9	9.9	13.0	-4.93	-36.7	542.8	315.6	297.5	18.10	17.432	
5,300.0	5,293.9	5,286.9	5,256.0	10.1	13.2	-4.93	-37.5	554.5	322.2	303.8	18.45	17.461	
5,400.0	5,393.8	5,386.7	5,355.1	10.3	13.5	-4.93	-38.3	566.3	328.8	310.0	18.80	17.489	
5,500.0	5,493.7	5,486.4	5,454.2	10.5	13.8	-4.92	-39.2	578.0	335.5	316.3	19.15	17.516	
5,600.0	5,593.5	5,586.2	5,553.2	10.7	14.0	-4.92	-40.0	589.7	342.1	322.6	19.50	17.542	
5,700.0	5,693.4	5,686.0	5,652.3	10.9	14.3	-4.92	-40.8	601.4	348.7	328.8	19.85	17.567	
5,800.0	5,793.3	5,785.8	5,751.4	11.1	14.6	-4.92	-41.6	613.2	355.3	335.1	20.20	17.591	
5,900.0	5,893.1	5,885.6	5,850.5	11.3	14.9	-4.92	-42.5	624.9	361.9	341.4	20.55	17.614	
6,000.0	5,993.0	5,985.4	5,949.6	11.5	15.1	-4.92	-43.3	636.6	368.6	347.7	20.90	17.637	
6,100.0	6,092.8	6,085.1	6,048.7	11.7	15.4	-4.91	-44.1	648.4	375.2	353.9	21.25	17.659	
6,200.0	6,192.7	6,184.9	6,147.8	11.9	15.7	-4.91	-44.9	660.1	381.8	360.2	21.60	17.680	
6,300.0	6,292.6	6,284.7	6,246.8	12.1	15.9	-4.91	-45.7	671.8	388.4	366.5	21.94	17.700	
6,400.0	6,392.4	6,384.5	6,345.9	12.3	16.2	-4.91	-46.6	683.5	395.0	372.7	22.29	17.720	
6,500.0	6,492.3	6,484.3	6,445.0	12.5	16.5	-4.91	-47.4	695.3	401.7	379.0	22.64	17.739	
6,600.0	6,592.2	6,584.0	6,544.1	12.7	16.7	-4.91	-48.2	707.0	408.3	385.3	22.99	17.758	
6,700.0	6,692.0	6,683.8	6,643.2	12.9	17.0	-4.90	-49.0	718.7	414.9	391.6	23.34	17.776	
6,800.0	6,791.9	6,783.6	6,742.3	13.1	17.3	-4.90	-49.9	730.5	421.5	397.8	23.69	17.793	
6,900.0	6,891.8	6,883.4	6,841.4	13.3	17.6	-4.90	-50.7	742.2	428.1	404.1	24.04	17.810	
7,000.0	6,991.6	6,983.2	6,940.4	13.5	17.8	-4.90	-51.5	753.9	434.8	410.4	24.39	17.827	
7,100.0	7,091.5	7,082.9	7,039.5	13.7	18.1	-4.90	-52.3	765.6	441.4	416.6	24.74	17.843	
7,172.4	7,163.8	7,155.2	7,111.3	13.8	18.3	-4.90	-52.9	774.1	446.2	421.2	24.99	17.854	
7,200.0	7,191.4	7,182.7	7,138.6	13.9	18.4	41.33	-53.2	777.4	448.0	422.9	25.09	17.860	
7,250.0	7,241.1	7,233.3	7,188.8	14.0	18.5	70.98	-53.1	783.3	451.6	426.3	25.25	17.882	
7,300.0	7,290.3	7,285.2	7,240.2	14.0	18.6	79.60	-49.1	789.3	455.2	429.7	25.42	17.907	
7,350.0	7,338.5	7,337.6	7,291.5	14.1	18.8	83.56	-40.3	795.3	458.8	433.2	25.59	17.928	
7,400.0	7,385.5	7,390.5	7,342.3	14.2	18.9	85.83	-26.7	801.2	462.3	436.6	25.77	17.938	
7,450.0	7,430.8	7,443.8	7,392.0	14.3	19.0	87.31	-8.2	806.9	465.9	439.9	25.98	17.931	
7,500.0	7,474.1	7,497.6	7,440.1	14.5	19.2	88.33	15.0	812.4	469.3	443.1	26.22	17.898	
7,550.0	7,515.0	7,551.8	7,486.2	14.6	19.3	89.07	42.9	817.6	472.6	446.1	26.50	17.830	
7,600.0	7,553.3	7,606.3	7,529.8	14.8	19.5	89.61	75.3	822.5	475.7	448.9	26.85	17.720	
7,650.0	7,588.7	7,661.2	7,570.4	15.0	19.7	90.00	111.9	827.0	478.6	451.4	27.25	17.562	
7,700.0	7,620.9	7,716.4	7,607.6	15.2	19.9	90.28	152.5	831.0	481.4	453.6	27.74	17.353	
7,750.0	7,649.6	7,771.9	7,640.8	15.5	20.1	90.46	196.8	834.6	483.8	455.5	28.31	17.091	
7,800.0	7,674.7	7,827.5	7,669.7	15.8	20.4	90.56	244.2	837.6	486.0	457.0	28.96	16.779	
7,850.0	7,695.9	7,883.3	7,694.0	16.1	20.7	90.58	294.3	840.0	487.9	458.2	29.71	16.420	
7,900.0	7,713.1	7,939.1	7,713.3	16.5	21.1	90.54	346.7	841.9	489.5	458.9	30.55	16.021	
7,950.0	7,726.1	7,995.0	7,727.5	16.9	21.4	90.44	400.7	843.1	490.7	459.2	31.48	15.590	
8,000.0	7,734.9	8,050.8	7,736.4	17.4	21.9	90.29	455.8	843.6	491.6	459.1	32.48	15.135	
8,050.0	7,739.4	8,106.6	7,739.9	17.9	22.3	90.08	511.4	843.6	492.2	458.6	33.56	14.666	
8,076.4	7,740.0	8,133.9	7,740.0	18.2	22.5	90.00	538.6	843.3	492.4	458.3	34.14	14.424	
8,100.0	7,740.0	8,157.5	7,740.0	18.4	22.7	90.00	562.2	843.1	492.6	457.9	34.68	14.205	
8,200.0	7,740.0	8,257.4	7,740.0	19.6	23.7	90.00	662.2	842.3	493.5	456.4	37.07	13.310	
8,300.0	7,740.0	8,357.4	7,740.0	20.8	24.7	90.00	762.2	841.4	494.3	454.7	39.64	12.472	
8,400.0	7,740.0	8,457.4	7,740.0	22.1	25.8	90.00	862.2	840.5	495.2	452.9	42.33	11.698	
8,500.0	7,740.0	8,557.4	7,740.0	23.4	27.0	90.00	962.2	839.6	496.1	451.0	45.14	10.990	
8,600.0	7,740.0	8,657.4	7,740.0	24.8	28.2	90.00	1,062.2	838.8	497.0	448.9	48.04	10.344	
8,700.0	7,740.0	8,757.4	7,740.0	26.3	29.5	90.00	1,162.2	837.9	497.8	446.8	51.02	9.758	
8,800.0	7,740.0	8,857.4	7,740.0	27.8	30.8	90.00	1,262.2	837.0	498.7	444.6	54.06	9.225	
8,900.0	7,740.0	8,957.4	7,740.0	29.3	32.2	90.00	1,362.2	836.1	499.6	442.4	57.16	8.741	
9,000.0	7,740.0	9,057.4	7,740.0	30.8	33.6	90.00	1,462.2	835.3	500.5	440.2	60.30	8.300	
9,100.0	7,740.0	9,157.4	7,740.0	32.4	35.0	90.00	1,562.2	834.4	501.3	437.9	63.48	7.898	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	9,257.4	7,740.0	33.9	36.5	90.00	1,662.2	833.5	502.2	435.5	66.69	7.531	
9,300.0	7,740.0	9,357.4	7,740.0	35.5	38.0	90.00	1,762.1	832.7	503.1	433.1	69.93	7.194	
9,400.0	7,740.0	9,457.4	7,740.0	37.2	39.5	90.00	1,862.1	831.8	503.9	430.8	73.19	6.885	
9,500.0	7,740.0	9,557.4	7,740.0	38.8	41.0	90.00	1,962.1	830.9	504.8	428.3	76.48	6.601	
9,600.0	7,740.0	9,657.4	7,740.0	40.4	42.6	90.00	2,062.1	830.0	505.7	425.9	79.79	6.338	
9,700.0	7,740.0	9,757.4	7,740.0	42.0	44.1	90.00	2,162.1	829.2	506.6	423.5	83.11	6.095	
9,800.0	7,740.0	9,857.4	7,740.0	43.7	45.7	90.00	2,262.1	828.3	507.4	421.0	86.44	5.870	
9,900.0	7,740.0	9,957.4	7,740.0	45.4	47.3	90.00	2,362.1	827.4	508.3	418.5	89.79	5.661	
10,000.0	7,740.0	10,057.4	7,740.0	47.0	48.9	90.00	2,462.1	826.5	509.2	416.0	93.16	5.466	
10,100.0	7,740.0	10,157.4	7,740.0	48.7	50.5	90.00	2,562.1	825.7	510.1	413.5	96.53	5.284	
10,200.0	7,740.0	10,257.4	7,740.0	50.4	52.1	90.00	2,662.1	824.8	510.9	411.0	99.91	5.114	
10,300.0	7,740.0	10,357.4	7,740.0	52.1	53.8	90.00	2,762.1	823.9	511.8	408.5	103.30	4.955	
10,400.0	7,740.0	10,457.4	7,740.0	53.7	55.4	90.00	2,862.1	823.1	512.7	406.0	106.70	4.805	
10,500.0	7,740.0	10,557.4	7,740.0	55.4	57.0	90.00	2,962.1	822.2	513.5	403.4	110.10	4.664	
10,600.0	7,740.0	10,657.4	7,740.0	57.1	58.7	90.00	3,062.0	821.3	514.4	400.9	113.51	4.532	
10,700.0	7,740.0	10,757.4	7,740.0	58.8	60.4	90.00	3,162.0	820.4	515.3	398.4	116.93	4.407	
10,800.0	7,740.0	10,857.3	7,740.0	60.5	62.0	90.00	3,262.0	819.6	516.2	395.8	120.35	4.289	
10,900.0	7,740.0	10,957.3	7,740.0	62.2	63.7	90.00	3,362.0	818.7	517.0	393.3	123.78	4.177	
11,000.0	7,740.0	11,057.3	7,740.0	63.9	65.4	90.00	3,462.0	817.8	517.9	390.7	127.21	4.071	
11,100.0	7,740.0	11,157.3	7,740.0	65.7	67.0	90.00	3,562.0	816.9	518.8	388.1	130.64	3.971	
11,200.0	7,740.0	11,257.3	7,740.0	67.4	68.7	90.00	3,662.0	816.1	519.7	385.6	134.08	3.876	
11,300.0	7,740.0	11,357.3	7,740.0	69.1	70.4	90.00	3,762.0	815.2	520.5	383.0	137.53	3.785	
11,400.0	7,740.0	11,452.2	7,740.0	70.8	72.0	90.00	3,856.8	814.7	521.7	380.8	140.88	3.703	
11,500.0	7,740.0	11,543.8	7,740.0	72.5	73.5	90.00	3,948.4	815.5	524.4	380.2	144.19	3.637	
11,600.0	7,740.0	11,639.9	7,740.0	74.2	75.2	90.00	4,044.6	817.7	528.4	380.8	147.57	3.581	
11,700.0	7,740.0	11,739.8	7,740.0	76.0	76.9	90.00	4,144.4	820.1	532.6	381.5	151.02	3.526	
11,800.0	7,740.0	11,839.8	7,740.0	77.7	78.6	90.00	4,244.3	822.5	536.7	382.3	154.47	3.475	
11,900.0	7,740.0	11,939.7	7,740.0	79.4	80.3	90.00	4,344.2	825.0	540.9	383.0	157.93	3.425	
12,000.0	7,740.0	12,039.6	7,740.0	81.1	82.0	90.00	4,444.1	827.4	545.1	383.7	161.39	3.377	
12,100.0	7,740.0	12,139.5	7,740.0	82.9	83.7	90.00	4,544.0	829.8	549.3	384.4	164.85	3.332	
12,200.0	7,740.0	12,239.4	7,740.0	84.6	85.4	90.00	4,643.9	832.3	553.4	385.1	168.31	3.288	
12,300.0	7,740.0	12,339.3	7,740.0	86.3	87.1	90.00	4,743.7	834.7	557.6	385.8	171.78	3.246	
12,400.0	7,740.0	12,439.2	7,740.0	88.0	88.9	90.00	4,843.6	837.1	561.8	386.6	175.24	3.206	
12,500.0	7,740.0	12,539.1	7,740.0	89.8	90.6	90.00	4,943.5	839.6	566.0	387.3	178.71	3.167	
12,600.0	7,740.0	12,639.1	7,740.0	91.5	92.3	90.00	5,043.4	842.0	570.1	388.0	182.18	3.130	
12,700.0	7,740.0	12,739.0	7,740.0	93.2	94.0	90.00	5,143.3	844.4	574.3	388.7	185.65	3.094	
12,800.0	7,740.0	12,838.9	7,740.0	95.0	95.7	90.00	5,243.2	846.8	578.5	389.4	189.12	3.059	
12,900.0	7,740.0	12,938.8	7,740.0	96.7	97.5	90.00	5,343.0	849.3	582.7	390.1	192.59	3.025	
13,000.0	7,740.0	13,038.7	7,740.0	98.4	99.2	90.00	5,442.9	851.7	586.8	390.8	196.06	2.993	
13,100.0	7,740.0	13,138.6	7,740.0	100.2	100.9	90.00	5,542.8	854.1	591.0	391.5	199.54	2.962	
13,200.0	7,740.0	13,238.5	7,740.0	101.9	102.6	90.00	5,642.7	856.6	595.2	392.2	203.02	2.932	
13,300.0	7,740.0	13,338.4	7,740.0	103.6	104.4	90.00	5,742.6	859.0	599.4	392.9	206.49	2.903	
13,400.0	7,740.0	13,438.4	7,740.0	105.4	106.1	90.00	5,842.5	861.4	603.6	393.6	209.97	2.874	
13,500.0	7,740.0	13,538.3	7,740.0	107.1	107.8	90.00	5,942.3	863.8	607.7	394.3	213.45	2.847	
13,600.0	7,740.0	13,638.2	7,740.0	108.9	109.5	90.00	6,042.2	866.3	611.9	395.0	216.93	2.821	
13,700.0	7,740.0	13,738.1	7,740.0	110.6	111.3	90.00	6,142.1	868.7	616.1	395.7	220.41	2.795	
13,800.0	7,740.0	13,838.0	7,740.0	112.3	113.0	90.00	6,242.0	871.1	620.3	396.4	223.89	2.770	
13,900.0	7,740.0	13,937.9	7,740.0	114.1	114.7	90.00	6,341.9	873.6	624.4	397.1	227.37	2.746	
14,000.0	7,740.0	14,037.8	7,740.0	115.8	116.5	90.00	6,441.8	876.0	628.6	397.8	230.86	2.723	
14,076.4	7,740.0	14,114.2	7,740.0	117.1	117.8	90.00	6,518.1	877.9	631.8	398.3	233.52	2.706	
14,100.0	7,740.0	14,137.7	7,740.0	117.6	118.2	90.00	6,541.6	878.4	632.8	398.6	234.24	2.702	
14,200.0	7,740.0	14,237.6	7,740.0	119.3	119.9	90.00	6,641.5	880.9	638.3	401.0	237.27	2.690	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	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)							
14,300.0	7,740.0	14,337.3	7,740.0	121.0	121.7	90.00	6,741.2	883.3	645.5	405.3	240.23	2.687					
14,338.4	7,740.0	14,375.6	7,740.0	121.7	122.3	90.00	6,779.5	884.2	648.7	407.4	241.34	2.688					
14,400.0	7,740.0	14,437.0	7,740.0	122.8	123.4	90.00	6,840.8	885.7	654.1	410.6	243.48	2.686					
14,500.0	7,740.0	14,536.6	7,740.0	124.5	125.1	90.00	6,940.4	888.1	662.8	415.9	246.96	2.684					
14,600.0	7,740.0	14,636.2	7,740.0	126.2	126.9	90.00	7,039.9	890.5	671.6	421.1	250.44	2.682					
14,632.3	7,740.0	14,668.4	7,740.0	126.8	127.4	90.00	7,072.1	891.3	674.4	422.8	251.56	2.681 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	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		
300.0	300.0	300.0	300.0	0.5	0.5	90.70	-0.4	29.9	29.9	28.9	1.00	29.895 CC, ES		
400.0	400.0	399.5	399.5	0.7	0.7	90.46	-0.2	30.8	30.8	29.5	1.35	22.810		
500.0	500.0	498.9	498.9	0.8	0.9	89.81	0.1	33.4	33.4	31.7	1.70	19.606		
600.0	600.0	598.2	598.1	1.0	1.0	88.94	0.7	37.6	37.7	35.6	2.06	18.279		
700.0	700.0	697.4	697.0	1.2	1.2	-8.89	1.5	43.6	42.9	40.5	2.39	17.903		
800.0	800.0	796.4	795.8	1.4	1.4	-10.27	2.6	51.2	48.0	45.3	2.74	17.527		
897.7	897.5	893.1	892.0	1.6	1.7	-11.82	3.8	60.3	53.1	50.1	3.08	17.256		
900.0	899.9	895.4	894.3	1.6	1.7	-11.86	3.9	60.6	53.3	50.2	3.09	17.250		
1,000.0	999.7	994.2	992.5	1.7	1.9	-13.38	5.4	71.6	59.4	56.0	3.44	17.301		
1,100.0	1,099.6	1,092.8	1,090.3	1.9	2.2	-14.62	7.1	84.2	67.4	63.6	3.78	17.805		
1,200.0	1,199.5	1,191.1	1,187.5	2.1	2.5	-15.57	9.1	98.5	77.0	72.9	4.13	18.644		
1,300.0	1,299.3	1,289.0	1,284.1	2.3	2.8	-16.27	11.3	114.3	88.4	83.9	4.48	19.738		
1,400.0	1,399.2	1,386.6	1,380.1	2.5	3.1	-16.78	13.7	131.7	101.5	96.7	4.83	21.028		
1,500.0	1,499.1	1,484.9	1,476.6	2.7	3.5	-17.14	16.3	150.5	115.9	110.7	5.18	22.391		
1,600.0	1,598.9	1,583.9	1,573.6	2.9	3.8	-17.43	18.9	169.5	130.4	124.9	5.53	23.594		
1,700.0	1,698.8	1,682.8	1,670.7	3.1	4.2	-17.65	21.6	188.6	144.9	139.0	5.88	24.653		
1,800.0	1,798.6	1,781.8	1,767.8	3.3	4.5	-17.84	24.2	207.6	159.4	153.2	6.23	25.593		
1,900.0	1,898.5	1,880.7	1,864.8	3.5	4.9	-17.99	26.8	226.6	173.9	167.3	6.58	26.432		
2,000.0	1,998.4	1,979.6	1,961.9	3.7	5.3	-18.12	29.5	245.6	188.4	181.5	6.93	27.186		
2,100.0	2,098.2	2,078.6	2,058.9	3.9	5.7	-18.24	32.1	264.6	202.9	195.6	7.28	27.867		
2,200.0	2,198.1	2,177.5	2,156.0	4.1	6.0	-18.33	34.7	283.7	217.4	209.8	7.63	28.485		
2,300.0	2,298.0	2,276.5	2,253.1	4.2	6.4	-18.42	37.3	302.7	231.9	223.9	7.98	29.049		
2,400.0	2,397.8	2,375.4	2,350.1	4.4	6.8	-18.49	40.0	321.7	246.4	238.1	8.34	29.564		
2,500.0	2,497.7	2,474.4	2,447.2	4.6	7.2	-18.56	42.6	340.7	260.9	252.3	8.69	30.038		
2,600.0	2,597.6	2,573.3	2,544.3	4.8	7.5	-18.62	45.2	359.7	275.4	266.4	9.04	30.475		
2,700.0	2,697.4	2,672.2	2,641.3	5.0	7.9	-18.67	47.9	378.8	290.0	280.6	9.39	30.879		
2,800.0	2,797.3	2,771.2	2,738.4	5.2	8.3	-18.72	50.5	397.8	304.5	294.7	9.74	31.254		
2,900.0	2,897.2	2,870.1	2,835.4	5.4	8.7	-18.76	53.1	416.8	319.0	308.9	10.09	31.602		
3,000.0	2,997.0	2,969.1	2,932.5	5.6	9.0	-18.80	55.7	435.8	333.5	323.0	10.44	31.927		
3,100.0	3,096.9	3,068.0	3,029.6	5.8	9.4	-18.84	58.4	454.8	348.0	337.2	10.80	32.231		
3,200.0	3,196.8	3,166.9	3,126.6	6.0	9.8	-18.88	61.0	473.9	362.5	351.3	11.15	32.515		
3,300.0	3,296.6	3,265.9	3,223.7	6.2	10.2	-18.91	63.6	492.9	377.0	365.5	11.50	32.782		
3,400.0	3,396.5	3,364.8	3,320.7	6.4	10.6	-18.94	66.3	511.9	391.5	379.7	11.85	33.033		
3,500.0	3,496.4	3,463.8	3,417.8	6.6	10.9	-18.96	68.9	530.9	406.0	393.8	12.20	33.270		
3,600.0	3,596.2	3,562.7	3,514.9	6.8	11.3	-18.99	71.5	549.9	420.5	408.0	12.56	33.493		
3,700.0	3,696.1	3,661.7	3,611.9	7.0	11.7	-19.01	74.2	569.0	435.0	422.1	12.91	33.704		
3,800.0	3,796.0	3,760.6	3,709.0	7.2	12.1	-19.03	76.8	588.0	449.5	436.3	13.26	33.904		
3,900.0	3,895.8	3,859.5	3,806.0	7.4	12.5	-19.05	79.4	607.0	464.0	450.4	13.61	34.094		
4,000.0	3,995.7	3,958.5	3,903.1	7.6	12.8	-19.07	82.0	626.0	478.6	464.6	13.96	34.273		
4,100.0	4,095.5	4,057.4	4,000.2	7.8	13.2	-19.09	84.7	645.0	493.1	478.7	14.31	34.444		
4,200.0	4,195.4	4,156.4	4,097.2	8.0	13.6	-19.11	87.3	664.1	507.6	492.9	14.67	34.607		
4,300.0	4,295.3	4,255.3	4,194.3	8.2	14.0	-19.12	89.9	683.1	522.1	507.1	15.02	34.762		
4,400.0	4,395.1	4,354.3	4,291.4	8.4	14.4	-19.14	92.6	702.1	536.6	521.2	15.37	34.910		
4,500.0	4,495.0	4,453.2	4,388.4	8.6	14.7	-19.15	95.2	721.1	551.1	535.4	15.72	35.052		
4,600.0	4,594.9	4,552.1	4,485.5	8.8	15.1	-19.17	97.8	740.1	565.6	549.5	16.07	35.187		
4,700.0	4,694.7	4,651.1	4,582.5	8.9	15.5	-19.18	100.4	759.2	580.1	563.7	16.43	35.316		
4,800.0	4,794.6	4,750.0	4,679.6	9.1	15.9	-19.19	103.1	778.2	594.6	577.8	16.78	35.440		
4,900.0	4,894.5	4,849.0	4,776.7	9.3	16.3	-19.21	105.7	797.2	609.1	592.0	17.13	35.559		
5,000.0	4,994.3	4,947.9	4,873.7	9.5	16.7	-19.22	108.3	816.2	623.6	606.2	17.48	35.673		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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)			
5,100.0	5,094.2	5,046.8	4,970.8	9.7	17.0	-19.23	111.0	835.2	638.1	620.3	17.83	35.782	
5,200.0	5,194.1	5,145.8	5,067.8	9.9	17.4	-19.24	113.6	854.3	652.7	634.5	18.19	35.887	
5,300.0	5,293.9	5,244.7	5,164.9	10.1	17.8	-19.25	116.2	873.3	667.2	648.6	18.54	35.989	
5,400.0	5,393.8	5,343.7	5,262.0	10.3	18.2	-19.26	118.9	892.3	681.7	662.8	18.89	36.086	
5,500.0	5,493.7	5,442.6	5,359.0	10.5	18.6	-19.27	121.5	911.3	696.2	676.9	19.24	36.180	
5,600.0	5,593.5	5,541.6	5,456.1	10.7	18.9	-19.27	124.1	930.3	710.7	691.1	19.59	36.270	
5,700.0	5,693.4	5,640.5	5,553.1	10.9	19.3	-19.28	126.7	949.4	725.2	705.3	19.95	36.358	
5,800.0	5,793.3	5,739.4	5,650.2	11.1	19.7	-19.29	129.4	968.4	739.7	719.4	20.30	36.442	
5,900.0	5,893.1	5,838.4	5,747.3	11.3	20.1	-19.30	132.0	987.4	754.2	733.6	20.65	36.523	
6,000.0	5,993.0	5,937.3	5,844.3	11.5	20.5	-19.31	134.6	1,006.4	768.7	747.7	21.00	36.602	
6,100.0	6,092.8	6,036.3	5,941.4	11.7	20.9	-19.31	137.3	1,025.4	783.2	761.9	21.35	36.678	
6,200.0	6,192.7	6,135.2	6,038.4	11.9	21.2	-19.32	139.9	1,044.4	797.7	776.0	21.71	36.751	
6,300.0	6,292.6	6,234.1	6,135.5	12.1	21.6	-19.33	142.5	1,063.5	812.3	790.2	22.06	36.822	
6,400.0	6,392.4	6,333.1	6,232.6	12.3	22.0	-19.33	145.1	1,082.5	826.8	804.4	22.41	36.891	
6,500.0	6,492.3	6,432.0	6,329.6	12.5	22.4	-19.34	147.8	1,101.5	841.3	818.5	22.76	36.958	
6,600.0	6,592.2	6,531.0	6,426.7	12.7	22.8	-19.35	150.4	1,120.5	855.8	832.7	23.11	37.023	
6,700.0	6,692.0	6,629.9	6,523.8	12.9	23.1	-19.35	153.0	1,139.5	870.3	846.8	23.47	37.086	
6,800.0	6,791.9	6,728.9	6,620.8	13.1	23.5	-19.36	155.7	1,158.6	884.8	861.0	23.82	37.147	
6,900.0	6,891.8	6,827.8	6,717.9	13.3	23.9	-19.36	158.3	1,177.6	899.3	875.1	24.17	37.206	
7,000.0	6,991.6	6,926.7	6,814.9	13.5	24.3	-19.37	160.9	1,196.6	913.8	889.3	24.52	37.264	
7,100.0	7,091.5	7,025.7	6,912.0	13.7	24.7	-19.37	163.6	1,215.6	928.3	903.5	24.88	37.319	
7,172.4	7,163.8	7,089.4	6,974.5	13.8	24.9	-19.40	165.6	1,227.9	939.0	913.8	25.11	37.386	
7,200.0	7,191.4	7,109.3	6,993.9	13.9	25.0	26.48	167.3	1,231.7	943.2	917.9	25.23	37.381	
7,250.0	7,241.1	7,150.0	7,033.5	14.0	25.2	55.18	172.7	1,239.5	950.6	925.2	25.42	37.395	
7,300.0	7,290.3	7,181.0	7,063.4	14.0	25.3	62.89	178.8	1,245.4	957.8	932.3	25.56	37.471	
7,350.0	7,338.5	7,216.9	7,097.4	14.1	25.5	66.03	187.8	1,252.1	964.7	939.1	25.67	37.578	
7,400.0	7,385.5	7,250.0	7,128.3	14.2	25.6	67.60	198.1	1,258.3	971.3	945.5	25.75	37.721	
7,450.0	7,430.8	7,288.7	7,163.6	14.3	25.8	68.52	212.3	1,265.3	977.4	951.6	25.81	37.874	
7,500.0	7,474.1	7,324.8	7,195.5	14.5	26.0	69.09	227.8	1,271.7	983.1	957.3	25.86	38.018	
7,550.0	7,515.0	7,361.0	7,226.6	14.6	26.1	69.51	245.4	1,277.9	988.4	962.5	25.93	38.120	
7,600.0	7,553.3	7,400.0	7,258.7	14.8	26.3	69.87	266.5	1,284.4	993.2	967.2	26.04	38.136	
7,650.0	7,588.7	7,434.1	7,285.6	15.0	26.5	70.17	286.7	1,289.8	997.5	971.3	26.22	38.037	
7,700.0	7,620.9	7,471.1	7,313.4	15.2	26.7	70.50	310.5	1,295.5	1,001.3	974.8	26.51	37.776	
7,750.0	7,649.6	7,508.4	7,339.8	15.5	26.9	70.86	336.2	1,300.9	1,004.6	977.7	26.91	37.332	
7,800.0	7,674.7	7,550.0	7,367.2	15.8	27.2	71.32	367.0	1,306.5	1,007.4	979.9	27.48	36.659	
7,850.0	7,695.9	7,584.2	7,388.1	16.1	27.4	71.73	393.7	1,310.8	1,009.7	981.5	28.16	35.850	
7,900.0	7,713.1	7,622.8	7,409.8	16.5	27.7	72.24	425.4	1,315.3	1,011.5	982.4	29.03	34.845	
7,950.0	7,726.1	7,662.0	7,429.6	16.9	27.9	72.82	458.9	1,319.5	1,012.8	982.7	30.04	33.712	
8,000.0	7,734.9	7,700.0	7,446.5	17.4	28.2	73.43	492.7	1,323.1	1,013.6	982.4	31.17	32.517	
8,050.0	7,739.4	7,742.4	7,462.8	17.9	28.5	74.16	531.7	1,326.6	1,014.0	981.5	32.47	31.233	
8,076.4	7,740.0	7,764.1	7,470.1	18.2	28.7	74.56	552.1	1,328.2	1,014.0	980.9	33.18	30.565	
8,079.5	7,740.0	7,766.7	7,470.9	18.2	28.7	74.61	554.5	1,328.4	1,014.0	980.8	33.24	30.505	
8,100.0	7,740.0	7,783.9	7,476.0	18.4	28.8	74.91	570.9	1,329.6	1,014.1	980.4	33.68	30.110	
8,200.0	7,740.0	7,871.8	7,494.5	19.6	29.5	76.00	656.6	1,333.9	1,015.3	979.3	35.95	28.245	
8,300.0	7,740.0	7,964.7	7,500.0	20.8	30.3	76.35	749.3	1,335.8	1,017.5	979.1	38.37	26.519	
8,400.0	7,740.0	8,064.7	7,500.0	22.1	31.2	76.39	849.2	1,336.7	1,020.1	979.1	40.99	24.885	
8,500.0	7,740.0	8,164.7	7,500.0	23.4	32.2	76.42	949.2	1,337.6	1,022.6	978.9	43.72	23.391	
8,600.0	7,740.0	8,264.6	7,500.0	24.8	33.2	76.46	1,049.2	1,338.4	1,025.1	978.6	46.54	22.029	
8,700.0	7,740.0	8,364.6	7,500.0	26.3	34.3	76.49	1,149.1	1,339.3	1,027.7	978.3	49.43	20.791	
8,800.0	7,740.0	8,464.5	7,500.0	27.8	35.4	76.52	1,249.1	1,340.2	1,030.2	977.9	52.39	19.666	
8,900.0	7,740.0	8,564.5	7,500.0	29.3	36.6	76.56	1,349.0	1,341.1	1,032.8	977.4	55.40	18.643	
9,000.0	7,740.0	8,664.5	7,500.0	30.8	37.9	76.59	1,449.0	1,341.9	1,035.3	976.9	58.46	17.711	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
9,100.0	7,740.0	8,764.4	7,500.0	32.4	39.2	76.63	1,549.0	1,342.8	1,037.9	976.3	61.55	16.861	
9,200.0	7,740.0	8,864.4	7,500.0	33.9	40.5	76.66	1,648.9	1,343.7	1,040.4	975.7	64.68	16.085	
9,300.0	7,740.0	8,964.4	7,500.0	35.5	41.8	76.69	1,748.9	1,344.5	1,043.0	975.1	67.84	15.374	
9,400.0	7,740.0	9,064.3	7,500.0	37.2	43.2	76.72	1,848.9	1,345.4	1,045.5	974.5	71.03	14.720	
9,500.0	7,740.0	9,164.3	7,500.0	38.8	44.6	76.76	1,948.8	1,346.3	1,048.1	973.8	74.23	14.119	
9,600.0	7,740.0	9,264.3	7,500.0	40.4	46.0	76.79	2,048.8	1,347.2	1,050.6	973.2	77.46	13.564	
9,700.0	7,740.0	9,364.2	7,500.0	42.0	47.5	76.82	2,148.7	1,348.0	1,053.2	972.5	80.70	13.051	
9,800.0	7,740.0	9,464.2	7,500.0	43.7	48.9	76.86	2,248.7	1,348.9	1,055.7	971.8	83.96	12.575	
9,900.0	7,740.0	9,566.9	7,500.0	45.4	50.5	76.89	2,351.4	1,349.8	1,058.2	971.0	87.27	12.126	
10,000.0	7,740.0	9,688.8	7,500.0	47.0	52.3	76.91	2,473.3	1,349.2	1,059.5	968.6	90.91	11.654	
10,100.0	7,740.0	9,810.8	7,500.0	48.7	54.1	76.90	2,595.2	1,346.1	1,058.7	964.1	94.56	11.196	
10,200.0	7,740.0	9,932.6	7,500.0	50.4	55.9	76.85	2,716.9	1,340.3	1,055.8	957.6	98.20	10.751	
10,300.0	7,740.0	10,054.3	7,500.0	52.1	57.8	76.77	2,838.3	1,332.0	1,050.9	949.0	101.84	10.319	
10,400.0	7,740.0	10,175.6	7,500.0	53.7	59.6	76.66	2,959.1	1,321.2	1,043.8	938.4	105.46	9.898	
10,500.0	7,740.0	10,279.9	7,500.0	55.4	61.2	76.55	3,062.9	1,310.4	1,035.4	926.6	108.80	9.517	
10,600.0	7,740.0	10,379.5	7,500.0	57.1	62.7	76.43	3,161.9	1,299.9	1,026.9	914.9	112.07	9.164	
10,700.0	7,740.0	10,479.1	7,500.0	58.8	64.2	76.32	3,261.0	1,289.5	1,018.5	903.1	115.33	8.830	
10,800.0	7,740.0	10,578.7	7,500.0	60.5	65.8	76.20	3,360.1	1,279.1	1,010.0	891.4	118.60	8.516	
10,900.0	7,740.0	10,678.4	7,500.0	62.2	67.3	76.08	3,459.1	1,268.7	1,001.5	879.7	121.87	8.218	
11,000.0	7,740.0	10,778.0	7,500.0	63.9	68.9	75.96	3,558.2	1,258.3	993.1	867.9	125.14	7.936	
11,100.0	7,740.0	10,877.6	7,500.0	65.7	70.5	75.84	3,657.3	1,247.9	984.6	856.2	128.40	7.668	
11,200.0	7,740.0	10,977.2	7,500.0	67.4	72.0	75.72	3,756.4	1,237.5	976.2	844.5	131.67	7.414	
11,300.0	7,740.0	11,076.8	7,500.0	69.1	73.6	75.59	3,855.4	1,227.0	967.7	832.8	134.93	7.172	
11,400.0	7,740.0	11,176.5	7,500.0	70.8	75.2	75.46	3,954.5	1,216.6	959.3	821.1	138.19	6.942	
11,500.0	7,740.0	11,276.1	7,500.0	72.5	76.8	75.33	4,053.6	1,206.2	950.8	809.4	141.45	6.722	
11,600.0	7,740.0	11,375.7	7,500.0	74.2	78.4	75.19	4,152.7	1,195.8	942.4	797.7	144.70	6.513	
11,700.0	7,740.0	11,475.3	7,500.0	76.0	80.1	75.06	4,251.7	1,185.4	934.0	786.0	147.95	6.313	
11,800.0	7,740.0	11,574.9	7,500.0	77.7	81.7	74.92	4,350.8	1,175.0	925.6	774.4	151.19	6.122	
11,900.0	7,740.0	11,674.6	7,500.0	79.4	83.3	74.77	4,449.9	1,164.6	917.1	762.7	154.43	5.939	
12,000.0	7,740.0	11,774.2	7,500.0	81.1	84.9	74.63	4,549.0	1,154.2	908.7	751.1	157.67	5.764	
12,100.0	7,740.0	11,864.3	7,500.0	82.9	86.4	74.50	4,638.7	1,145.1	900.7	740.0	160.76	5.603	
12,200.0	7,740.0	11,951.0	7,500.0	84.6	87.9	74.40	4,725.0	1,137.6	894.1	730.3	163.80	5.458	
12,300.0	7,740.0	12,037.9	7,500.0	86.3	89.3	74.32	4,811.6	1,131.4	888.9	722.1	166.86	5.327	
12,400.0	7,740.0	12,124.8	7,500.0	88.0	90.8	74.26	4,898.5	1,126.6	885.2	715.3	169.94	5.209	
12,500.0	7,740.0	12,211.9	7,500.0	89.8	92.2	74.23	4,985.4	1,123.0	883.0	709.9	173.03	5.103	
12,600.0	7,740.0	12,300.0	7,500.0	91.5	93.7	74.21	5,073.5	1,120.8	882.2	706.0	176.16	5.008	
12,608.6	7,740.0	12,306.5	7,500.0	91.7	93.8	74.21	5,080.0	1,120.7	882.2	705.8	176.42	5.001	
12,700.0	7,740.0	12,386.0	7,500.0	93.2	95.2	74.22	5,159.6	1,119.9	882.9	703.6	179.28	4.925	
12,800.0	7,740.0	12,473.1	7,500.0	95.0	96.7	74.26	5,246.6	1,120.3	885.0	702.6	182.44	4.851	
12,900.0	7,740.0	12,560.1	7,500.0	96.7	98.2	74.32	5,333.6	1,122.0	888.6	703.0	185.61	4.788	
13,000.0	7,740.0	12,646.9	7,500.0	98.4	99.7	74.40	5,420.4	1,125.1	893.7	704.9	188.81	4.733	
13,100.0	7,740.0	12,733.6	7,500.0	100.2	101.2	74.50	5,507.0	1,129.5	900.2	708.2	192.02	4.688	
13,200.0	7,740.0	12,822.2	7,500.0	101.9	102.7	74.62	5,595.4	1,135.3	908.2	712.9	195.29	4.650	
13,300.0	7,740.0	12,921.8	7,500.0	103.6	104.4	74.77	5,694.7	1,142.3	916.7	717.9	198.77	4.612	
13,400.0	7,740.0	13,021.4	7,500.0	105.4	106.1	74.91	5,794.1	1,149.3	925.2	722.9	202.25	4.574	
13,500.0	7,740.0	13,121.0	7,500.0	107.1	107.9	75.05	5,893.5	1,156.3	933.7	727.9	205.74	4.538	
13,600.0	7,740.0	13,220.7	7,500.0	108.9	109.6	75.19	5,992.8	1,163.4	942.2	732.9	209.22	4.503	
13,700.0	7,740.0	13,320.3	7,500.0	110.6	111.3	75.32	6,092.2	1,170.4	950.7	738.0	212.71	4.469	
13,800.0	7,740.0	13,419.9	7,500.0	112.3	113.1	75.46	6,191.6	1,177.4	959.2	743.0	216.20	4.437	
13,900.0	7,740.0	13,519.5	7,500.0	114.1	114.8	75.59	6,290.9	1,184.4	967.7	748.0	219.68	4.405	
14,000.0	7,740.0	13,619.1	7,500.0	115.8	116.5	75.71	6,390.3	1,191.5	976.2	753.0	223.17	4.374	
14,076.4	7,740.0	13,695.2	7,500.0	117.1	117.8	75.81	6,466.2	1,196.8	982.7	756.9	225.84	4.351	

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design											S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3			Offset Site Error:		0.0 ft	
Survey Program:				0-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
14,100.0	7,740.0	13,718.7	7,500.0	117.6	118.3	75.84	6,489.6	1,198.5	984.8	758.2	226.55	4.347					
14,200.0	7,740.0	13,818.2	7,500.0	119.3	120.0	75.95	6,588.9	1,205.5	994.6	765.1	229.51	4.333					
14,300.0	7,740.0	13,917.5	7,500.0	121.0	121.7	76.09	6,687.9	1,212.5	1,006.0	773.6	232.41	4.329					
14,338.4	7,740.0	13,955.6	7,500.0	121.7	122.4	76.15	6,726.0	1,215.2	1,010.9	777.4	233.50	4.329					
14,400.0	7,740.0	14,016.6	7,500.0	122.8	123.4	76.26	6,786.8	1,219.5	1,018.9	783.2	235.68	4.323					
14,500.0	7,740.0	14,115.7	7,500.0	124.5	125.2	76.43	6,885.7	1,226.5	1,031.8	792.6	239.22	4.313					
14,600.0	7,740.0	14,214.8	7,500.0	126.2	126.9	76.60	6,984.5	1,233.5	1,044.8	802.0	242.75	4.304					
14,632.3	7,740.0	14,246.8	7,500.0	126.8	127.4	76.66	7,016.5	1,235.7	1,049.0	805.1	243.89	4.301 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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			
0.0	0.0	0.0	0.0	0.0	0.0	90.53	-0.4	39.7	39.7						
100.0	100.0	100.0	100.0	0.2	0.2	90.53	-0.4	39.7	39.7	39.4	0.30	130.873			
200.0	200.0	200.0	200.0	0.3	0.3	90.53	-0.4	39.7	39.7	39.1	0.65	60.888			
233.3	233.3	233.3	233.3	0.4	0.4	90.53	-0.4	39.7	39.7	39.0	0.77	51.675 CC			
300.0	300.0	299.7	299.7	0.5	0.5	90.58	-0.4	40.0	40.0	39.0	1.00	39.907 ES			
400.0	400.0	398.9	398.9	0.7	0.7	90.97	-0.7	41.6	41.7	40.3	1.35	30.844			
500.0	500.0	498.1	498.1	0.8	0.9	91.66	-1.3	45.0	45.1	43.4	1.71	26.437			
600.0	600.0	597.2	597.0	1.0	1.0	92.51	-2.2	50.1	50.2	48.2	2.07	24.282			
700.0	700.0	696.1	695.7	1.2	1.2	-3.36	-3.4	56.8	56.2	53.8	2.39	23.509			
800.0	800.0	794.9	794.1	1.4	1.5	-2.59	-4.9	65.2	62.2	59.5	2.74	22.713			
897.7	897.5	891.3	890.0	1.6	1.7	-1.88	-6.6	75.0	68.0	65.0	3.08	22.106			
900.0	899.9	893.6	892.3	1.6	1.7	-1.87	-6.6	75.3	68.2	65.1	3.09	22.093			
1,000.0	999.7	992.1	990.1	1.7	2.0	-1.18	-8.7	87.0	75.0	71.6	3.43	21.855			
1,100.0	1,099.6	1,090.4	1,087.4	1.9	2.2	-0.53	-11.1	100.3	83.6	79.8	3.78	22.118			
1,200.0	1,199.5	1,188.4	1,184.2	2.1	2.5	0.06	-13.7	115.2	93.9	89.8	4.13	22.756			
1,300.0	1,299.3	1,285.9	1,280.3	2.3	2.9	0.58	-16.6	131.7	105.9	101.4	4.47	23.680			
1,400.0	1,399.2	1,383.1	1,375.7	2.5	3.2	1.02	-19.8	149.7	119.5	114.7	4.81	24.826			
1,500.0	1,499.1	1,479.8	1,470.3	2.7	3.6	1.39	-23.2	169.2	134.9	129.7	5.16	26.150			
1,600.0	1,598.9	1,575.9	1,564.1	2.9	4.0	1.71	-26.9	190.2	151.9	146.4	5.50	27.616			
1,700.0	1,698.8	1,671.4	1,656.9	3.1	4.4	1.97	-30.8	212.5	170.6	164.7	5.84	29.197			
1,800.0	1,798.6	1,766.9	1,749.3	3.3	4.8	2.18	-35.0	236.3	190.8	184.7	6.18	30.866			
1,900.0	1,898.5	1,865.0	1,844.0	3.5	5.3	2.06	-38.3	261.4	211.6	205.1	6.53	32.416			
2,000.0	1,998.4	1,963.0	1,938.7	3.7	5.8	1.53	-39.9	286.7	232.3	225.4	6.87	33.798			
2,100.0	2,098.2	2,064.5	2,036.8	3.9	6.2	0.83	-40.4	312.4	252.4	245.2	7.22	34.934			
2,200.0	2,198.1	2,167.4	2,136.9	4.1	6.7	0.25	-40.9	336.6	270.8	263.2	7.58	35.731			
2,300.0	2,298.0	2,266.5	2,233.5	4.2	7.1	-0.20	-41.3	359.0	288.1	280.2	7.93	36.349			
2,400.0	2,397.8	2,365.0	2,329.4	4.4	7.5	-0.61	-41.7	381.1	305.4	297.1	8.27	36.920			
2,500.0	2,497.7	2,463.5	2,425.4	4.6	8.0	-0.97	-42.1	403.2	322.7	314.1	8.62	37.447			
2,600.0	2,597.6	2,561.9	2,521.3	4.8	8.4	-1.29	-42.5	425.4	340.0	331.1	8.96	37.934			
2,700.0	2,697.4	2,660.4	2,617.3	5.0	8.8	-1.59	-42.9	447.5	357.4	348.1	9.31	38.386			
2,800.0	2,797.3	2,758.9	2,713.2	5.2	9.2	-1.85	-43.3	469.7	374.7	365.1	9.66	38.807			
2,900.0	2,897.2	2,857.3	2,809.1	5.4	9.7	-2.09	-43.7	491.8	392.1	382.1	10.00	39.199			
3,000.0	2,997.0	2,955.8	2,905.1	5.6	10.1	-2.32	-44.1	513.9	409.5	399.1	10.35	39.565			
3,100.0	3,096.9	3,054.3	3,001.0	5.8	10.5	-2.52	-44.6	536.1	426.8	416.1	10.70	39.908			
3,200.0	3,196.8	3,152.7	3,097.0	6.0	10.9	-2.71	-45.0	558.2	444.2	433.2	11.04	40.230			
3,300.0	3,296.6	3,251.2	3,192.9	6.2	11.4	-2.88	-45.4	580.4	461.6	450.2	11.39	40.533			
3,400.0	3,396.5	3,349.7	3,288.9	6.4	11.8	-3.04	-45.8	602.5	479.0	467.2	11.73	40.818			
3,500.0	3,496.4	3,448.2	3,384.8	6.6	12.2	-3.19	-46.2	624.6	496.4	484.3	12.08	41.087			
3,600.0	3,596.2	3,546.6	3,480.8	6.8	12.7	-3.33	-46.6	646.8	513.7	501.3	12.43	41.341			
3,700.0	3,696.1	3,645.1	3,576.7	7.0	13.1	-3.46	-47.0	668.9	531.1	518.4	12.77	41.582			
3,800.0	3,796.0	3,743.6	3,672.7	7.2	13.5	-3.58	-47.4	691.1	548.5	535.4	13.12	41.810			
3,900.0	3,895.8	3,842.0	3,768.6	7.4	14.0	-3.70	-47.8	713.2	565.9	552.5	13.47	42.027			
4,000.0	3,995.7	3,940.5	3,864.6	7.6	14.4	-3.81	-48.2	735.3	583.3	569.5	13.81	42.232			
4,100.0	4,095.5	4,039.0	3,960.5	7.8	14.8	-3.91	-48.7	757.5	600.7	586.6	14.16	42.428			
4,200.0	4,195.4	4,137.4	4,056.5	8.0	15.2	-4.00	-49.1	779.6	618.1	603.6	14.50	42.615			
4,300.0	4,295.3	4,235.9	4,152.4	8.2	15.7	-4.09	-49.5	801.8	635.5	620.7	14.85	42.793			
4,400.0	4,395.1	4,334.4	4,248.3	8.4	16.1	-4.18	-49.9	823.9	652.9	637.7	15.20	42.963			
4,500.0	4,495.0	4,432.8	4,344.3	8.6	16.5	-4.26	-50.3	846.0	670.3	654.8	15.54	43.125			
4,600.0	4,594.9	4,531.3	4,440.2	8.8	17.0	-4.34	-50.7	868.2	687.7	671.9	15.89	43.281			
4,700.0	4,694.7	4,629.8	4,536.2	8.9	17.4	-4.41	-51.1	890.3	705.2	688.9	16.24	43.429			
4,800.0	4,794.6	4,728.3	4,632.1	9.1	17.8	-4.48	-51.5	912.5	722.6	706.0	16.58	43.572			
4,900.0	4,894.5	4,826.7	4,728.1	9.3	18.3	-4.55	-51.9	934.6	740.0	723.0	16.93	43.709			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	4,994.3	4,925.2	4,824.0	9.5	18.7	-4.61	-52.3	956.8	757.4	740.1	17.28	43.840	
5,100.0	5,094.2	5,023.7	4,920.0	9.7	19.1	-4.67	-52.8	978.9	774.8	757.2	17.62	43.967	
5,200.0	5,194.1	5,122.1	5,015.9	9.9	19.5	-4.73	-53.2	1,001.0	792.2	774.2	17.97	44.088	
5,300.0	5,293.9	5,220.6	5,111.9	10.1	20.0	-4.79	-53.6	1,023.2	809.6	791.3	18.32	44.205	
5,400.0	5,393.8	5,319.1	5,207.8	10.3	20.4	-4.84	-54.0	1,045.3	827.0	808.4	18.66	44.318	
5,500.0	5,493.7	5,417.5	5,303.8	10.5	20.8	-4.89	-54.4	1,067.5	844.5	825.4	19.01	44.426	
5,600.0	5,593.5	5,516.0	5,399.7	10.7	21.3	-4.94	-54.8	1,089.6	861.9	842.5	19.35	44.531	
5,700.0	5,693.4	5,614.5	5,495.7	10.9	21.7	-4.99	-55.2	1,111.7	879.3	859.6	19.70	44.632	
5,800.0	5,793.3	5,712.9	5,591.6	11.1	22.1	-5.03	-55.6	1,133.9	896.7	876.7	20.05	44.730	
5,900.0	5,893.1	5,811.4	5,687.5	11.3	22.6	-5.07	-56.0	1,156.0	914.1	893.7	20.39	44.824	
6,000.0	5,993.0	5,909.9	5,783.5	11.5	23.0	-5.12	-56.4	1,178.2	931.5	910.8	20.74	44.915	
6,100.0	6,092.8	6,008.4	5,879.4	11.7	23.4	-5.16	-56.9	1,200.3	949.0	927.9	21.09	45.003	
6,200.0	6,192.7	6,106.8	5,975.4	11.9	23.9	-5.20	-57.3	1,222.4	966.4	944.9	21.43	45.088	
6,300.0	6,292.6	6,205.3	6,071.3	12.1	24.3	-5.23	-57.7	1,244.6	983.8	962.0	21.78	45.171	
6,400.0	6,392.4	6,303.8	6,167.3	12.3	24.7	-5.27	-58.1	1,266.7	1,001.2	979.1	22.13	45.251	
6,500.0	6,492.3	6,402.2	6,263.2	12.5	25.1	-5.30	-58.5	1,288.9	1,018.6	996.2	22.47	45.329	
6,600.0	6,592.2	6,500.7	6,359.2	12.7	25.6	-5.34	-58.9	1,311.0	1,036.1	1,013.2	22.82	45.404	
6,700.0	6,692.0	6,599.2	6,455.1	12.9	26.0	-5.37	-59.3	1,333.1	1,053.5	1,030.3	23.17	45.477	
6,800.0	6,791.9	6,697.6	6,551.1	13.1	26.4	-5.40	-59.7	1,355.3	1,070.9	1,047.4	23.51	45.548	
6,900.0	6,891.8	6,796.1	6,647.0	13.3	26.9	-5.43	-60.1	1,377.4	1,088.3	1,064.5	23.86	45.617	
7,000.0	6,991.6	6,894.6	6,743.0	13.5	27.3	-5.46	-60.5	1,399.6	1,105.7	1,081.5	24.20	45.683	
7,100.0	7,091.5	6,993.0	6,838.9	13.7	27.7	-5.49	-61.0	1,421.7	1,123.2	1,098.6	24.55	45.748	
7,172.4	7,163.8	7,064.3	6,908.4	13.8	28.0	-5.51	-61.3	1,437.7	1,135.8	1,111.0	24.80	45.794	
7,200.0	7,191.4	7,091.5	6,934.8	13.9	28.2	40.36	-61.4	1,443.8	1,140.6	1,115.7	24.91	45.794	
7,250.0	7,241.1	7,140.5	6,982.6	14.0	28.4	69.14	-61.6	1,454.9	1,149.5	1,124.4	25.10	45.796	
7,300.0	7,290.3	7,188.9	7,029.8	14.0	28.6	77.03	-61.8	1,465.8	1,158.4	1,133.2	25.29	45.812	
7,350.0	7,338.5	7,236.4	7,076.0	14.1	28.8	80.46	-62.0	1,476.4	1,167.6	1,142.1	25.47	45.845	
7,400.0	7,385.5	7,282.5	7,121.0	14.2	29.0	82.37	-62.2	1,486.8	1,176.9	1,151.2	25.64	45.893	
7,450.0	7,430.8	7,327.0	7,164.3	14.3	29.2	83.63	-62.3	1,496.8	1,186.5	1,160.7	25.82	45.949	
7,500.0	7,474.1	7,376.7	7,212.8	14.5	29.4	84.68	-61.5	1,508.0	1,196.5	1,170.5	26.01	46.002	
7,550.0	7,515.0	7,432.5	7,266.7	14.6	29.6	85.59	-55.6	1,520.4	1,206.6	1,180.4	26.22	46.020	
7,600.0	7,553.3	7,491.9	7,323.4	14.8	29.9	86.38	-43.5	1,533.4	1,216.6	1,190.2	26.46	45.981	
7,650.0	7,588.7	7,555.6	7,382.4	15.0	30.1	87.09	-23.9	1,546.9	1,226.5	1,199.7	26.75	45.855	
7,700.0	7,620.9	7,624.1	7,443.2	15.2	30.4	87.75	4.6	1,560.8	1,236.0	1,208.9	27.10	45.603	
7,750.0	7,649.6	7,698.1	7,504.5	15.5	30.7	88.39	43.5	1,574.7	1,245.0	1,217.4	27.55	45.194	
7,800.0	7,674.7	7,778.0	7,564.7	15.8	31.0	88.98	94.1	1,588.4	1,253.2	1,225.1	28.12	44.567	
7,850.0	7,695.9	7,863.9	7,621.1	16.1	31.4	89.50	157.6	1,601.0	1,260.5	1,231.6	28.84	43.699	
7,900.0	7,713.1	7,955.5	7,670.3	16.5	31.8	89.91	233.9	1,612.0	1,266.5	1,236.7	29.75	42.566	
7,950.0	7,726.1	8,051.8	7,708.6	16.9	32.2	90.16	321.8	1,620.4	1,271.1	1,240.2	30.87	41.177	
8,000.0	7,734.9	8,151.3	7,732.6	17.4	32.7	90.22	418.1	1,625.4	1,274.0	1,241.8	32.18	39.584	
8,050.0	7,739.4	8,248.3	7,740.0	17.9	33.2	90.05	514.6	1,626.6	1,275.2	1,241.6	33.63	37.916	
8,076.4	7,740.0	8,274.7	7,740.0	18.2	33.4	90.00	541.0	1,626.5	1,275.5	1,241.4	34.18	37.323	
8,100.0	7,740.0	8,298.3	7,740.0	18.4	33.5	90.00	564.6	1,626.3	1,275.8	1,241.1	34.70	36.762	
8,200.0	7,740.0	8,398.3	7,740.0	19.6	34.1	90.00	664.6	1,625.8	1,277.0	1,240.0	37.08	34.436	
8,300.0	7,740.0	8,498.2	7,740.0	20.8	34.8	90.00	764.6	1,625.3	1,278.3	1,238.6	39.63	32.254	
8,400.0	7,740.0	8,598.2	7,740.0	22.1	35.6	90.00	864.6	1,624.8	1,279.5	1,237.2	42.32	30.237	
8,500.0	7,740.0	8,698.2	7,740.0	23.4	36.5	90.00	964.6	1,624.3	1,280.7	1,235.6	45.11	28.388	
8,600.0	7,740.0	8,798.2	7,740.0	24.8	37.4	90.00	1,064.6	1,623.7	1,281.9	1,233.9	48.00	26.704	
8,700.0	7,740.0	8,898.2	7,740.0	26.3	38.3	90.00	1,164.6	1,623.2	1,283.1	1,232.2	50.97	25.173	
8,800.0	7,740.0	8,998.2	7,740.0	27.8	39.4	90.00	1,264.6	1,622.7	1,284.4	1,230.4	54.01	23.781	
8,900.0	7,740.0	9,098.2	7,740.0	29.3	40.4	90.00	1,364.5	1,622.2	1,285.6	1,228.5	57.10	22.517	
9,000.0	7,740.0	9,198.2	7,740.0	30.8	41.5	90.00	1,464.5	1,621.6	1,286.8	1,226.6	60.23	21.365	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	9,298.2	7,740.0	32.4	42.7	90.00	1,564.5	1,621.1	1,288.0	1,224.6	63.40	20.315	
9,200.0	7,740.0	9,398.2	7,740.0	33.9	43.9	90.00	1,664.5	1,620.6	1,289.3	1,222.6	66.61	19.356	
9,300.0	7,740.0	9,498.2	7,740.0	35.5	45.1	90.00	1,764.5	1,620.1	1,290.5	1,220.6	69.84	18.476	
9,400.0	7,740.0	9,598.2	7,740.0	37.2	46.4	90.00	1,864.5	1,619.5	1,291.7	1,218.6	73.11	17.669	
9,500.0	7,740.0	9,698.2	7,740.0	38.8	47.7	90.00	1,964.5	1,619.0	1,292.9	1,216.5	76.39	16.926	
9,600.0	7,740.0	9,798.1	7,740.0	40.4	49.0	90.00	2,064.5	1,618.5	1,294.1	1,214.5	79.69	16.240	
9,700.0	7,740.0	9,898.1	7,740.0	42.0	50.4	90.00	2,164.5	1,618.0	1,295.4	1,212.4	83.01	15.605	
9,800.0	7,740.0	9,998.1	7,740.0	43.7	51.8	90.00	2,264.5	1,617.4	1,296.6	1,210.2	86.34	15.017	
9,900.0	7,740.0	10,098.1	7,740.0	45.4	53.2	90.00	2,364.5	1,616.9	1,297.8	1,208.1	89.69	14.470	
10,000.0	7,740.0	10,198.1	7,740.0	47.0	54.6	90.00	2,464.5	1,616.4	1,299.0	1,206.0	93.05	13.961	
10,100.0	7,740.0	10,298.1	7,740.0	48.7	56.1	90.00	2,564.4	1,615.9	1,300.3	1,203.8	96.42	13.485	
10,200.0	7,740.0	10,398.1	7,740.0	50.4	57.5	90.00	2,664.4	1,615.3	1,301.5	1,201.7	99.80	13.041	
10,300.0	7,740.0	10,498.1	7,740.0	52.1	59.0	90.00	2,764.4	1,614.8	1,302.7	1,199.5	103.19	12.625	
10,400.0	7,740.0	10,598.1	7,740.0	53.7	60.5	90.00	2,864.4	1,614.3	1,303.9	1,197.3	106.58	12.234	
10,500.0	7,740.0	10,698.1	7,740.0	55.4	62.0	90.00	2,964.4	1,613.8	1,305.1	1,195.2	109.98	11.867	
10,600.0	7,740.0	10,798.1	7,740.0	57.1	63.5	90.00	3,064.4	1,613.3	1,306.4	1,193.0	113.39	11.521	
10,700.0	7,740.0	10,898.1	7,740.0	58.8	65.1	90.00	3,164.4	1,612.7	1,307.6	1,190.8	116.81	11.194	
10,800.0	7,740.0	10,998.1	7,740.0	60.5	66.6	90.00	3,264.4	1,612.2	1,308.8	1,188.6	120.23	10.886	
10,900.0	7,740.0	11,098.1	7,740.0	62.2	68.1	90.00	3,364.4	1,611.7	1,310.0	1,186.4	123.65	10.594	
11,000.0	7,740.0	11,198.0	7,740.0	63.9	69.7	90.00	3,464.4	1,611.2	1,311.2	1,184.2	127.08	10.318	
11,100.0	7,740.0	11,298.0	7,740.0	65.7	71.3	90.00	3,564.4	1,610.6	1,312.5	1,181.9	130.52	10.056	
11,200.0	7,740.0	11,398.0	7,740.0	67.4	72.9	90.00	3,664.3	1,610.1	1,313.7	1,179.7	133.95	9.807	
11,300.0	7,740.0	11,498.0	7,740.0	69.1	74.5	90.00	3,764.3	1,609.6	1,314.9	1,177.5	137.40	9.570	
11,400.0	7,740.0	11,598.0	7,740.0	70.8	76.0	90.00	3,864.3	1,609.1	1,316.1	1,175.3	140.84	9.345	
11,500.0	7,740.0	11,698.0	7,740.0	72.5	77.6	90.00	3,964.3	1,608.5	1,317.4	1,173.1	144.29	9.130	
11,600.0	7,740.0	11,798.0	7,740.0	74.2	79.3	90.00	4,064.3	1,608.0	1,318.6	1,170.8	147.74	8.925	
11,700.0	7,740.0	11,898.0	7,740.0	76.0	80.9	90.00	4,164.3	1,607.5	1,319.8	1,168.6	151.19	8.729	
11,800.0	7,740.0	11,998.0	7,740.0	77.7	82.5	90.00	4,264.3	1,607.0	1,321.0	1,166.4	154.65	8.542	
11,900.0	7,740.0	12,098.0	7,740.0	79.4	84.1	90.00	4,364.3	1,606.4	1,322.2	1,164.1	158.11	8.363	
12,000.0	7,740.0	12,198.0	7,740.0	81.1	85.8	90.00	4,464.3	1,605.9	1,323.5	1,161.9	161.57	8.191	
12,100.0	7,740.0	12,298.0	7,740.0	82.9	87.4	90.00	4,564.3	1,605.4	1,324.7	1,159.7	165.03	8.027	
12,200.0	7,740.0	12,398.0	7,740.0	84.6	89.0	90.00	4,664.3	1,604.9	1,325.9	1,157.4	168.49	7.869	
12,300.0	7,740.0	12,497.9	7,740.0	86.3	90.7	90.00	4,764.2	1,604.4	1,327.1	1,155.2	171.96	7.718	
12,400.0	7,740.0	12,597.9	7,740.0	88.0	92.3	90.00	4,864.2	1,603.8	1,328.3	1,152.9	175.43	7.572	
12,500.0	7,740.0	12,697.9	7,740.0	89.8	94.0	90.00	4,964.2	1,603.3	1,329.6	1,150.7	178.89	7.432	
12,600.0	7,740.0	12,797.9	7,740.0	91.5	95.6	90.00	5,064.2	1,602.8	1,330.8	1,148.4	182.36	7.297	
12,700.0	7,740.0	12,897.9	7,740.0	93.2	97.3	90.00	5,164.2	1,602.3	1,332.0	1,146.2	185.84	7.168	
12,800.0	7,740.0	12,997.9	7,740.0	95.0	99.0	90.00	5,264.2	1,601.7	1,333.2	1,143.9	189.31	7.043	
12,900.0	7,740.0	13,097.9	7,740.0	96.7	100.6	90.00	5,364.2	1,601.2	1,334.5	1,141.7	192.78	6.922	
13,000.0	7,740.0	13,197.9	7,740.0	98.4	102.3	90.00	5,464.2	1,600.7	1,335.7	1,139.4	196.26	6.806	
13,100.0	7,740.0	13,297.9	7,740.0	100.2	104.0	90.00	5,564.2	1,600.2	1,336.9	1,137.2	199.74	6.693	
13,200.0	7,740.0	13,397.9	7,740.0	101.9	105.6	90.00	5,664.2	1,599.6	1,338.1	1,134.9	203.22	6.585	
13,300.0	7,740.0	13,497.9	7,740.0	103.6	107.3	90.00	5,764.2	1,599.1	1,339.3	1,132.6	206.69	6.480	
13,400.0	7,740.0	13,597.9	7,740.0	105.4	109.0	90.00	5,864.2	1,598.6	1,340.6	1,130.4	210.17	6.378	
13,500.0	7,740.0	13,697.9	7,740.0	107.1	110.7	90.00	5,964.1	1,598.1	1,341.8	1,128.1	213.65	6.280	
13,600.0	7,740.0	13,797.8	7,740.0	108.9	112.4	90.00	6,064.1	1,597.5	1,343.0	1,125.9	217.14	6.185	
13,700.0	7,740.0	13,897.8	7,740.0	110.6	114.0	90.00	6,164.1	1,597.0	1,344.2	1,123.6	220.62	6.093	
13,800.0	7,740.0	13,997.8	7,740.0	112.3	115.7	90.00	6,264.1	1,596.5	1,345.4	1,121.3	224.10	6.004	
13,900.0	7,740.0	14,097.8	7,740.0	114.1	117.4	90.00	6,364.1	1,596.0	1,346.7	1,119.1	227.59	5.917	
14,000.0	7,740.0	14,197.8	7,740.0	115.8	119.1	90.00	6,464.1	1,595.4	1,347.9	1,116.8	231.07	5.833	
14,076.4	7,740.0	14,274.2	7,740.0	117.1	120.4	90.00	6,540.5	1,595.0	1,348.8	1,115.1	233.73	5.771	
14,100.0	7,740.0	14,297.8	7,740.0	117.6	120.8	90.00	6,564.1	1,594.9	1,349.2	1,114.8	234.41	5.756	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
14,200.0	7,740.0	14,397.8	7,740.0	119.3	122.5	90.00	6,664.1	1,594.4	1,351.7	1,114.4	237.23	5.698					
14,300.0	7,740.0	14,497.7	7,740.0	121.0	124.2	90.00	6,764.0	1,593.9	1,355.9	1,115.9	239.99	5.650					
14,338.4	7,740.0	14,536.1	7,740.0	121.7	124.9	90.00	6,802.3	1,593.7	1,358.0	1,117.0	241.02	5.634					
14,400.0	7,740.0	14,597.5	7,740.0	122.8	125.9	90.00	6,863.8	1,593.4	1,361.6	1,118.4	243.17	5.599					
14,500.0	7,740.0	14,697.4	7,740.0	124.5	127.6	90.00	6,963.6	1,592.8	1,367.4	1,120.7	246.65	5.544					
14,600.0	7,740.0	14,797.2	7,740.0	126.2	129.3	90.00	7,063.5	1,592.3	1,373.2	1,123.0	250.14	5.490					
14,632.3	7,740.0	14,829.4	7,740.0	126.8	129.8	90.00	7,095.7	1,592.1	1,375.0	1,123.8	251.26	5.473 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.42	-0.4	49.8	49.8						
100.0	100.0	100.0	100.0	0.2	0.2	90.42	-0.4	49.8	49.8	49.5	0.30	164.050			
200.0	200.0	200.0	200.0	0.3	0.3	90.42	-0.4	49.8	49.8	49.2	0.65	76.323 CC, ES			
300.0	300.0	299.1	299.1	0.5	0.5	90.44	-0.4	50.7	50.7	49.7	1.00	50.624			
400.0	400.0	398.2	398.2	0.7	0.7	90.51	-0.5	53.2	53.3	51.9	1.35	39.358			
500.0	500.0	497.1	497.0	0.8	0.9	90.60	-0.6	57.5	57.6	55.9	1.71	33.611			
600.0	600.0	595.9	595.6	1.0	1.1	90.72	-0.8	63.5	63.6	61.6	2.08	30.531			
700.0	700.0	694.5	693.9	1.2	1.3	-5.95	-1.0	71.1	70.5	68.1	2.39	29.531			
800.0	800.0	793.0	792.0	1.4	1.5	-6.02	-1.3	80.5	77.4	74.7	2.73	28.307			
897.7	897.5	889.1	887.4	1.6	1.7	-6.17	-1.7	91.2	84.1	81.0	3.07	27.375			
900.0	899.9	891.4	889.7	1.6	1.7	-6.17	-1.7	91.5	84.3	81.2	3.08	27.355			
1,000.0	999.7	989.6	987.1	1.7	2.0	-6.34	-2.1	104.1	92.0	88.6	3.43	26.850			
1,100.0	1,099.6	1,087.5	1,083.9	1.9	2.3	-6.46	-2.5	118.4	101.5	97.7	3.77	26.893			
1,200.0	1,199.5	1,185.0	1,180.2	2.1	2.6	-6.53	-3.0	134.2	112.6	108.5	4.12	27.343			
1,300.0	1,299.3	1,282.2	1,275.8	2.3	3.0	-6.56	-3.6	151.7	125.5	121.0	4.46	28.107			
1,400.0	1,399.2	1,378.9	1,370.6	2.5	3.3	-6.57	-4.2	170.6	140.0	135.2	4.81	29.114			
1,500.0	1,499.1	1,475.1	1,464.6	2.7	3.7	-6.56	-4.8	191.0	156.2	151.0	5.15	30.314			
1,600.0	1,598.9	1,570.7	1,557.7	2.9	4.1	-6.54	-5.5	212.9	174.0	168.5	5.49	31.671			
1,700.0	1,698.8	1,665.8	1,649.9	3.1	4.6	-6.51	-6.2	236.2	193.4	187.6	5.83	33.156			
1,800.0	1,798.6	1,760.2	1,741.0	3.3	5.0	-6.47	-7.0	260.8	214.5	208.3	6.17	34.746			
1,900.0	1,898.5	1,853.9	1,831.0	3.5	5.5	-6.43	-7.8	286.8	237.2	230.7	6.51	36.423			
2,000.0	1,998.4	1,946.9	1,919.9	3.7	6.0	-6.38	-8.7	313.9	261.5	254.6	6.85	38.173			
2,100.0	2,098.2	2,039.9	2,008.4	3.9	6.5	-6.34	-9.6	342.5	287.3	280.1	7.19	39.975			
2,200.0	2,198.1	2,136.3	2,100.1	4.1	7.1	-6.30	-10.5	372.7	313.6	306.1	7.53	41.652			
2,300.0	2,298.0	2,232.8	2,191.7	4.2	7.7	-6.26	-11.4	402.9	339.9	332.0	7.87	43.185			
2,400.0	2,397.8	2,329.3	2,283.3	4.4	8.2	-6.23	-12.4	433.0	366.2	358.0	8.21	44.590			
2,500.0	2,497.7	2,425.8	2,374.9	4.6	8.8	-6.21	-13.3	463.2	392.6	384.0	8.56	45.883			
2,600.0	2,597.6	2,522.2	2,466.6	4.8	9.3	-6.18	-14.3	493.3	418.9	410.0	8.90	47.076			
2,700.0	2,697.4	2,618.7	2,558.2	5.0	9.9	-6.16	-15.2	523.5	445.2	436.0	9.24	48.182			
2,800.0	2,797.3	2,715.2	2,649.8	5.2	10.5	-6.15	-16.2	553.7	471.5	462.0	9.58	49.209			
2,900.0	2,897.2	2,811.6	2,741.5	5.4	11.0	-6.13	-17.1	583.8	497.9	487.9	9.92	50.166			
3,000.0	2,997.0	2,908.1	2,833.1	5.6	11.6	-6.12	-18.1	614.0	524.2	513.9	10.27	51.058			
3,100.0	3,096.9	3,004.6	2,924.7	5.8	12.2	-6.10	-19.0	644.1	550.5	539.9	10.61	51.894			
3,200.0	3,196.8	3,101.1	3,016.4	6.0	12.8	-6.09	-20.0	674.3	576.8	565.9	10.95	52.678			
3,300.0	3,296.6	3,197.5	3,108.0	6.2	13.3	-6.08	-20.9	704.5	603.2	591.9	11.29	53.414			
3,400.0	3,396.5	3,294.0	3,199.6	6.4	13.9	-6.07	-21.9	734.6	629.5	617.9	11.63	54.107			
3,500.0	3,496.4	3,390.5	3,291.3	6.6	14.5	-6.06	-22.8	764.8	655.8	643.8	11.98	54.760			
3,600.0	3,596.2	3,487.0	3,382.9	6.8	15.0	-6.06	-23.8	794.9	682.2	669.8	12.32	55.378			
3,700.0	3,696.1	3,583.4	3,474.5	7.0	15.6	-6.05	-24.7	825.1	708.5	695.8	12.66	55.962			
3,800.0	3,796.0	3,679.9	3,566.2	7.2	16.2	-6.04	-25.6	855.3	734.8	721.8	13.00	56.516			
3,900.0	3,895.8	3,776.4	3,657.8	7.4	16.8	-6.03	-26.6	885.4	761.1	747.8	13.34	57.041			
4,000.0	3,995.7	3,872.8	3,749.4	7.6	17.3	-6.03	-27.5	915.6	787.5	773.8	13.69	57.540			
4,100.0	4,095.5	3,969.3	3,841.1	7.8	17.9	-6.02	-28.5	945.7	813.8	799.8	14.03	58.015			
4,200.0	4,195.4	4,065.8	3,932.7	8.0	18.5	-6.02	-29.4	975.9	840.1	825.7	14.37	58.467			
4,300.0	4,295.3	4,162.3	4,024.3	8.2	19.1	-6.01	-30.4	1,006.1	866.4	851.7	14.71	58.899			
4,400.0	4,395.1	4,258.7	4,115.9	8.4	19.6	-6.01	-31.3	1,036.2	892.8	877.7	15.05	59.311			
4,500.0	4,495.0	4,355.2	4,207.6	8.6	20.2	-6.00	-32.3	1,066.4	919.1	903.7	15.39	59.704			
4,600.0	4,594.9	4,451.7	4,299.2	8.8	20.8	-6.00	-33.2	1,096.6	945.4	929.7	15.74	60.081			
4,700.0	4,694.7	4,548.2	4,390.8	8.9	21.4	-5.99	-34.2	1,126.7	971.7	955.7	16.08	60.442			
4,800.0	4,794.6	4,644.6	4,482.5	9.1	21.9	-5.99	-35.1	1,156.9	998.1	981.7	16.42	60.787			
4,900.0	4,894.5	4,741.1	4,574.1	9.3	22.5	-5.99	-36.1	1,187.0	1,024.4	1,007.6	16.76	61.119			
5,000.0	4,994.3	4,837.6	4,665.7	9.5	23.1	-5.98	-37.0	1,217.2	1,050.7	1,033.6	17.10	61.437			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,094.2	4,934.0	4,757.4	9.7	23.7	-5.98	-38.0	1,247.4	1,077.1	1,059.6	17.44	61.743	
5,200.0	5,194.1	5,030.5	4,849.0	9.9	24.2	-5.98	-38.9	1,277.5	1,103.4	1,085.6	17.79	62.037	
5,300.0	5,293.9	5,127.0	4,940.6	10.1	24.8	-5.97	-39.9	1,307.7	1,129.7	1,111.6	18.13	62.320	
5,400.0	5,393.8	5,223.5	5,032.3	10.3	25.4	-5.97	-40.8	1,337.8	1,156.0	1,137.6	18.47	62.593	
5,500.0	5,493.7	5,319.9	5,123.9	10.5	26.0	-5.97	-41.7	1,368.0	1,182.4	1,163.5	18.81	62.856	
5,600.0	5,593.5	5,416.4	5,215.5	10.7	26.5	-5.97	-42.7	1,398.2	1,208.7	1,189.5	19.15	63.109	
5,700.0	5,693.4	5,512.9	5,307.2	10.9	27.1	-5.96	-43.6	1,428.3	1,235.0	1,215.5	19.49	63.354	
5,800.0	5,793.3	5,609.3	5,398.8	11.1	27.7	-5.96	-44.6	1,458.5	1,261.3	1,241.5	19.84	63.590	
5,900.0	5,893.1	5,705.8	5,490.4	11.3	28.3	-5.96	-45.5	1,488.6	1,287.7	1,267.5	20.18	63.818	
6,000.0	5,993.0	5,802.3	5,582.0	11.5	28.8	-5.96	-46.5	1,518.8	1,314.0	1,293.5	20.52	64.039	
6,100.0	6,092.8	5,898.8	5,673.7	11.7	29.4	-5.95	-47.4	1,549.0	1,340.3	1,319.5	20.86	64.252	
6,200.0	6,192.7	5,995.2	5,765.3	11.9	30.0	-5.95	-48.4	1,579.1	1,366.6	1,345.4	21.20	64.459	
6,300.0	6,292.6	6,091.7	5,856.9	12.1	30.6	-5.95	-49.3	1,609.3	1,393.0	1,371.4	21.54	64.659	
6,400.0	6,392.4	6,188.2	5,948.6	12.3	31.1	-5.95	-50.3	1,639.4	1,419.3	1,397.4	21.88	64.853	
6,500.0	6,492.3	6,284.7	6,040.2	12.5	31.7	-5.95	-51.2	1,669.6	1,445.6	1,423.4	22.23	65.041	
6,600.0	6,592.2	6,381.1	6,131.8	12.7	32.3	-5.95	-52.2	1,699.8	1,472.0	1,449.4	22.57	65.223	
6,700.0	6,692.0	6,477.6	6,223.5	12.9	32.9	-5.94	-53.1	1,729.9	1,498.3	1,475.4	22.91	65.399	
6,800.0	6,791.9	6,574.1	6,315.1	13.1	33.4	-5.94	-54.1	1,760.1	1,524.6	1,501.4	23.25	65.571	
6,900.0	6,891.8	6,670.5	6,406.7	13.3	34.0	-5.94	-55.0	1,790.3	1,550.9	1,527.3	23.59	65.738	
7,000.0	6,991.6	6,767.0	6,498.4	13.5	34.6	-5.94	-55.9	1,820.4	1,577.3	1,553.3	23.93	65.900	
7,100.0	7,091.5	6,863.5	6,590.0	13.7	35.2	-5.94	-56.9	1,850.6	1,603.6	1,579.3	24.28	66.057	
7,172.4	7,163.8	6,933.3	6,656.3	13.8	35.6	-5.94	-57.6	1,872.4	1,622.7	1,598.1	24.52	66.168	
7,200.0	7,191.4	6,959.9	6,681.6	13.9	35.7	39.67	-57.8	1,880.7	1,629.9	1,605.3	24.65	66.130	
7,250.0	7,241.1	7,007.9	6,727.2	14.0	36.0	67.92	-58.3	1,895.7	1,643.2	1,618.3	24.90	65.986	
7,300.0	7,290.3	7,055.3	6,772.2	14.0	36.3	75.24	-58.8	1,910.5	1,656.4	1,631.3	25.18	65.788	
7,350.0	7,338.5	7,101.7	6,816.3	14.1	36.6	78.05	-59.2	1,925.1	1,669.7	1,644.2	25.46	65.581	
7,400.0	7,385.5	7,146.8	6,859.1	14.2	36.9	79.32	-59.7	1,939.1	1,682.9	1,657.2	25.74	65.394	
7,450.0	7,430.8	7,190.2	6,900.3	14.3	37.1	79.93	-60.1	1,952.7	1,696.2	1,670.2	26.00	65.237	
7,500.0	7,474.1	7,237.1	6,944.9	14.5	37.4	80.30	-60.4	1,967.4	1,709.4	1,683.2	26.25	65.131	
7,550.0	7,515.0	7,318.3	7,021.9	14.6	37.9	81.05	-53.9	1,992.0	1,722.2	1,695.7	26.42	65.193	
7,600.0	7,553.3	7,410.9	7,108.0	14.8	38.3	81.75	-32.6	2,018.2	1,733.8	1,707.2	26.57	65.259	
7,650.0	7,588.7	7,516.2	7,201.0	15.0	38.8	82.39	8.8	2,044.8	1,744.0	1,717.3	26.76	65.163	
7,700.0	7,620.9	7,634.5	7,295.4	15.2	39.3	82.89	75.3	2,069.3	1,752.4	1,725.3	27.08	64.704	
7,750.0	7,649.6	7,763.3	7,381.7	15.5	39.8	83.12	168.5	2,088.7	1,758.4	1,730.8	27.67	63.559	
7,800.0	7,674.7	7,897.0	7,448.5	15.8	40.2	82.98	283.5	2,099.5	1,761.9	1,733.3	28.61	61.593	
7,850.0	7,695.9	8,028.4	7,488.2	16.1	40.6	82.47	408.5	2,100.5	1,762.8	1,732.9	29.91	58.938	
7,900.0	7,713.1	8,149.3	7,500.0	16.5	41.0	81.72	528.3	2,092.9	1,761.2	1,729.8	31.44	56.012	
7,950.0	7,726.1	8,197.3	7,500.0	16.9	41.2	81.65	576.1	2,088.3	1,758.5	1,725.9	32.54	54.036	
8,000.0	7,734.9	8,246.3	7,500.0	17.4	41.3	81.71	624.9	2,083.6	1,755.3	1,721.6	33.77	51.972	
8,050.0	7,739.4	8,296.0	7,500.0	17.9	41.5	81.92	674.3	2,078.8	1,751.8	1,716.8	35.08	49.933	
8,076.4	7,740.0	8,322.3	7,500.0	18.2	41.6	82.09	700.5	2,076.3	1,749.8	1,714.0	35.81	48.860	
8,100.0	7,740.0	8,345.8	7,500.0	18.4	41.7	82.08	723.9	2,074.0	1,748.0	1,711.6	36.37	48.055	
8,200.0	7,740.0	8,445.5	7,500.0	19.6	42.2	82.05	823.1	2,064.5	1,740.2	1,701.4	38.84	44.800	
8,300.0	7,740.0	8,545.2	7,500.0	20.8	42.8	82.01	922.4	2,054.9	1,732.5	1,691.0	41.46	41.788	
8,400.0	7,740.0	8,644.9	7,500.0	22.1	43.4	81.98	1,021.6	2,045.4	1,724.7	1,680.5	44.19	39.029	
8,500.0	7,740.0	8,744.6	7,500.0	23.4	44.0	81.94	1,120.8	2,035.8	1,716.9	1,669.9	47.02	36.515	
8,600.0	7,740.0	8,844.2	7,500.0	24.8	44.8	81.90	1,220.1	2,026.2	1,709.2	1,659.2	49.93	34.231	
8,700.0	7,740.0	8,943.9	7,500.0	26.3	45.6	81.87	1,319.3	2,016.7	1,701.4	1,648.5	52.91	32.158	
8,800.0	7,740.0	9,043.6	7,500.0	27.8	46.4	81.83	1,418.5	2,007.1	1,693.6	1,637.7	55.94	30.276	
8,900.0	7,740.0	9,143.3	7,500.0	29.3	47.3	81.79	1,517.8	1,997.6	1,685.9	1,626.8	59.02	28.564	
9,000.0	7,740.0	9,243.0	7,500.0	30.8	48.2	81.75	1,617.0	1,988.0	1,678.1	1,615.9	62.14	27.005	
9,100.0	7,740.0	9,342.7	7,500.0	32.4	49.2	81.71	1,716.2	1,978.5	1,670.3	1,605.0	65.30	25.581	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,200.0	7,740.0	9,442.4	7,500.0	33.9	50.2	81.67	1,815.5	1,968.9	1,662.6	1,594.1	68.48	24.278	
9,300.0	7,740.0	9,542.1	7,500.0	35.5	51.3	81.64	1,914.7	1,959.4	1,654.8	1,583.1	71.69	23.083	
9,400.0	7,740.0	9,641.8	7,500.0	37.2	52.4	81.60	2,013.9	1,949.8	1,647.0	1,572.1	74.92	21.984	
9,500.0	7,740.0	9,741.5	7,500.0	38.8	53.5	81.56	2,113.1	1,940.2	1,639.3	1,561.1	78.17	20.970	
9,600.0	7,740.0	9,841.2	7,500.0	40.4	54.7	81.52	2,212.4	1,930.7	1,631.5	1,550.1	81.44	20.034	
9,700.0	7,740.0	9,940.9	7,500.0	42.0	55.9	81.47	2,311.6	1,921.1	1,623.7	1,539.0	84.72	19.166	
9,800.0	7,740.0	10,040.5	7,500.0	43.7	57.1	81.43	2,410.8	1,911.6	1,616.0	1,528.0	88.01	18.360	
9,900.0	7,740.0	10,140.2	7,500.0	45.4	58.4	81.39	2,510.1	1,902.0	1,608.2	1,516.9	91.32	17.611	
10,000.0	7,740.0	10,239.9	7,500.0	47.0	59.7	81.35	2,609.3	1,892.5	1,600.5	1,505.8	94.64	16.912	
10,100.0	7,740.0	10,339.6	7,500.0	48.7	61.0	81.31	2,708.5	1,882.9	1,592.7	1,494.8	97.96	16.259	
10,200.0	7,740.0	10,439.3	7,500.0	50.4	62.3	81.26	2,807.8	1,873.4	1,585.0	1,483.7	101.29	15.647	
10,300.0	7,740.0	10,539.0	7,500.0	52.1	63.7	81.22	2,907.0	1,863.8	1,577.2	1,472.6	104.63	15.074	
10,400.0	7,740.0	10,638.7	7,500.0	53.7	65.0	81.18	3,006.2	1,854.3	1,569.4	1,461.5	107.98	14.535	
10,500.0	7,740.0	10,730.9	7,500.0	55.4	66.3	81.14	3,098.0	1,845.5	1,561.8	1,450.6	111.21	14.044	
10,600.0	7,740.0	10,800.0	7,500.0	57.1	67.3	81.11	3,166.9	1,839.6	1,555.2	1,441.2	114.05	13.636	
10,700.0	7,740.0	10,888.3	7,500.0	58.8	68.6	81.08	3,255.0	1,833.3	1,549.9	1,432.7	117.22	13.222	
10,800.0	7,740.0	10,967.2	7,500.0	60.5	69.8	81.06	3,333.7	1,828.8	1,546.1	1,425.8	120.24	12.858	
10,900.0	7,740.0	11,046.1	7,500.0	62.2	70.9	81.05	3,412.6	1,825.4	1,543.5	1,420.3	123.26	12.522	
11,000.0	7,740.0	11,125.1	7,500.0	63.9	72.1	81.05	3,491.5	1,823.1	1,542.4	1,416.1	126.29	12.213	
11,035.5	7,740.0	11,153.1	7,500.0	64.5	72.5	81.05	3,519.6	1,822.6	1,542.3	1,414.9	127.37	12.109	
11,100.0	7,740.0	11,200.0	7,500.0	65.7	73.3	81.05	3,566.4	1,821.9	1,542.6	1,413.3	129.25	11.934	
11,200.0	7,740.0	11,291.1	7,500.0	67.4	74.7	81.06	3,657.5	1,821.7	1,544.0	1,411.5	132.49	11.653	
11,300.0	7,740.0	11,391.0	7,500.0	69.1	76.2	81.07	3,757.5	1,821.7	1,545.7	1,409.9	135.89	11.375	
11,400.0	7,740.0	11,491.0	7,500.0	70.8	77.8	81.08	3,857.4	1,821.7	1,547.5	1,408.2	139.29	11.110	
11,500.0	7,740.0	11,591.0	7,500.0	72.5	79.3	81.09	3,957.4	1,821.7	1,549.2	1,406.5	142.69	10.857	
11,600.0	7,740.0	11,691.0	7,500.0	74.2	80.9	81.10	4,057.4	1,821.7	1,550.9	1,404.8	146.10	10.615	
11,700.0	7,740.0	11,791.0	7,500.0	76.0	82.5	81.11	4,157.4	1,821.7	1,552.6	1,403.1	149.51	10.385	
11,800.0	7,740.0	11,891.0	7,500.0	77.7	84.0	81.12	4,257.4	1,821.7	1,554.4	1,401.4	152.92	10.164	
11,900.0	7,740.0	11,991.0	7,500.0	79.4	85.6	81.13	4,357.4	1,821.7	1,556.1	1,399.7	156.34	9.953	
12,000.0	7,740.0	12,090.9	7,500.0	81.1	87.2	81.14	4,457.3	1,821.7	1,557.8	1,398.1	159.76	9.751	
12,100.0	7,740.0	12,190.9	7,500.0	82.9	88.8	81.15	4,557.3	1,821.7	1,559.5	1,396.4	163.18	9.557	
12,200.0	7,740.0	12,290.9	7,500.0	84.6	90.5	81.16	4,657.3	1,821.7	1,561.3	1,394.7	166.60	9.371	
12,300.0	7,740.0	12,390.9	7,500.0	86.3	92.1	81.17	4,757.3	1,821.7	1,563.0	1,393.0	170.02	9.193	
12,400.0	7,740.0	12,490.9	7,500.0	88.0	93.7	81.18	4,857.3	1,821.7	1,564.7	1,391.3	173.45	9.021	
12,500.0	7,740.0	12,590.9	7,500.0	89.8	95.3	81.19	4,957.3	1,821.7	1,566.4	1,389.6	176.88	8.856	
12,600.0	7,740.0	12,690.9	7,500.0	91.5	96.9	81.20	5,057.3	1,821.7	1,568.2	1,387.8	180.31	8.697	
12,700.0	7,740.0	12,790.8	7,500.0	93.2	98.6	81.20	5,157.2	1,821.7	1,569.9	1,386.1	183.74	8.544	
12,800.0	7,740.0	12,890.8	7,500.0	95.0	100.2	81.21	5,257.2	1,821.7	1,571.6	1,384.4	187.18	8.396	
12,900.0	7,740.0	12,990.8	7,500.0	96.7	101.9	81.22	5,357.2	1,821.7	1,573.3	1,382.7	190.61	8.254	
13,000.0	7,740.0	13,090.8	7,500.0	98.4	103.5	81.23	5,457.2	1,821.7	1,575.1	1,381.0	194.05	8.117	
13,100.0	7,740.0	13,190.8	7,500.0	100.2	105.2	81.24	5,557.2	1,821.7	1,576.8	1,379.3	197.49	7.984	
13,200.0	7,740.0	13,290.8	7,500.0	101.9	106.8	81.25	5,657.2	1,821.7	1,578.5	1,377.6	200.93	7.856	
13,300.0	7,740.0	13,390.7	7,500.0	103.6	108.5	81.26	5,757.1	1,821.7	1,580.2	1,375.9	204.37	7.732	
13,400.0	7,740.0	13,490.7	7,500.0	105.4	110.1	81.27	5,857.1	1,821.7	1,582.0	1,374.1	207.81	7.613	
13,500.0	7,740.0	13,590.7	7,500.0	107.1	111.8	81.28	5,957.1	1,821.7	1,583.7	1,372.4	211.25	7.497	
13,600.0	7,740.0	13,690.7	7,500.0	108.9	113.5	81.29	6,057.1	1,821.7	1,585.4	1,370.7	214.70	7.384	
13,700.0	7,740.0	13,782.0	7,500.0	110.6	115.0	81.30	6,148.4	1,821.8	1,587.2	1,369.2	217.99	7.281	
13,800.0	7,740.0	13,858.9	7,500.0	112.3	116.3	81.31	6,225.3	1,822.8	1,590.2	1,369.2	221.04	7.194	
13,900.0	7,740.0	13,935.6	7,500.0	114.1	117.6	81.33	6,302.0	1,824.9	1,594.7	1,370.6	224.10	7.116	
14,000.0	7,740.0	14,012.3	7,500.0	115.8	118.9	81.36	6,378.6	1,828.1	1,600.6	1,373.4	227.15	7.046	
14,076.4	7,740.0	14,070.8	7,500.0	117.1	119.9	81.38	6,437.0	1,831.3	1,606.1	1,376.6	229.49	6.998	
14,100.0	7,740.0	14,100.0	7,500.0	117.6	120.4	81.39	6,466.1	1,833.2	1,608.0	1,377.8	230.24	6.984	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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				
14,200.0	7,740.0	14,165.0	7,500.0	119.3	121.5	81.41	6,531.0	1,837.9	1,618.0	1,385.7	232.37	6.963					
14,300.0	7,740.0	14,240.8	7,500.0	121.0	122.8	81.45	6,606.5	1,844.4	1,631.2	1,396.6	234.61	6.953					
14,338.4	7,740.0	14,269.8	7,500.0	121.7	123.3	81.46	6,635.4	1,847.2	1,637.1	1,401.7	235.46	6.953					
14,400.0	7,740.0	14,316.1	7,500.0	122.8	124.1	81.50	6,681.4	1,852.0	1,647.2	1,409.9	237.33	6.941					
14,500.0	7,740.0	14,400.0	7,500.0	124.5	125.6	81.58	6,764.8	1,861.7	1,664.8	1,424.2	240.53	6.921					
14,600.0	7,740.0	14,465.6	7,500.0	126.2	126.7	81.64	6,829.8	1,870.2	1,683.7	1,440.3	243.41	6.917					
14,632.3	7,740.0	14,500.0	7,500.0	126.8	127.3	81.68	6,863.9	1,875.0	1,690.1	1,445.5	244.57	6.910 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.4	-538.2	538.2				
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.4	-538.2	538.2	537.9	0.30	1,772.243	
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.4	-538.2	538.2	537.6	0.65	824.520 CC	
200.7	200.7	200.7	200.7	0.3	0.3	-89.96	0.4	-538.2	538.2	537.6	0.66	821.450	
300.0	300.0	300.0	300.0	0.5	0.5	-89.87	1.2	-538.2	538.2	537.2	1.00	537.239	
400.0	400.0	399.9	399.9	0.7	0.7	-89.59	3.9	-538.2	538.2	536.9	1.35	398.445	
500.0	500.0	499.7	499.6	0.8	0.9	-89.13	8.2	-538.2	538.3	536.6	1.70	316.696	
600.0	600.0	599.3	599.0	1.0	1.1	-88.48	14.3	-538.2	538.4	536.4	2.05	262.866 ES	
700.0	700.0	698.9	698.3	1.2	1.3	175.60	21.7	-538.2	539.5	537.0	2.47	218.219	
800.0	800.0	798.6	797.7	1.4	1.5	176.41	29.2	-538.2	542.5	539.6	2.86	189.982	
897.7	897.5	895.9	894.7	1.6	1.7	177.20	36.5	-538.2	547.2	543.9	3.23	169.375	
900.0	899.9	898.2	897.0	1.6	1.7	177.22	36.7	-538.2	547.3	544.1	3.24	168.944	
1,000.0	999.7	997.7	996.3	1.7	1.9	178.02	44.2	-538.2	553.1	549.4	3.63	152.518	
1,100.0	1,099.6	1,097.3	1,095.5	1.9	2.1	178.81	51.7	-538.2	558.9	554.9	4.01	139.259	
1,200.0	1,199.5	1,196.8	1,194.8	2.1	2.3	179.58	59.2	-538.2	564.9	560.5	4.40	128.347	
1,300.0	1,299.3	1,296.3	1,294.0	2.3	2.6	-179.67	66.8	-538.2	571.0	566.2	4.79	119.217	
1,400.0	1,399.2	1,395.9	1,393.3	2.5	2.8	-178.93	74.3	-538.2	577.1	572.0	5.18	111.472	
1,500.0	1,499.1	1,495.4	1,492.5	2.7	3.0	-178.20	81.8	-538.2	583.4	577.8	5.57	104.824	
1,600.0	1,598.9	1,594.9	1,591.8	2.9	3.2	-177.50	89.3	-538.2	589.8	583.8	5.95	99.059	
1,700.0	1,698.8	1,694.5	1,691.0	3.1	3.4	-176.81	96.8	-538.2	596.2	589.9	6.34	94.015	
1,800.0	1,798.6	1,794.0	1,790.3	3.3	3.6	-176.13	104.3	-538.2	602.7	596.0	6.73	89.568	
1,900.0	1,898.5	1,893.5	1,889.5	3.5	3.8	-175.47	111.8	-538.2	609.3	602.2	7.12	85.619	
2,000.0	1,998.4	1,993.1	1,988.8	3.7	4.1	-174.82	119.3	-538.2	616.0	608.5	7.50	82.090	
2,100.0	2,098.2	2,092.6	2,088.0	3.9	4.3	-174.18	126.8	-538.2	622.8	614.9	7.89	78.920	
2,200.0	2,198.1	2,192.1	2,187.3	4.1	4.5	-173.56	134.3	-538.2	629.6	621.4	8.28	76.058	
2,300.0	2,298.0	2,291.7	2,286.5	4.2	4.7	-172.95	141.8	-538.2	636.5	627.9	8.67	73.461	
2,400.0	2,397.8	2,391.2	2,385.8	4.4	4.9	-172.36	149.4	-538.2	643.5	634.5	9.05	71.096	
2,500.0	2,497.7	2,490.7	2,485.0	4.6	5.1	-171.78	156.9	-538.2	650.6	641.1	9.44	68.934	
2,600.0	2,597.6	2,590.3	2,584.3	4.8	5.4	-171.21	164.4	-538.2	657.7	647.9	9.82	66.950	
2,700.0	2,697.4	2,689.8	2,683.5	5.0	5.6	-170.65	171.9	-538.2	664.9	654.7	10.21	65.124	
2,800.0	2,797.3	2,789.3	2,782.8	5.2	5.8	-170.11	179.4	-538.2	672.1	661.5	10.59	63.438	
2,900.0	2,897.2	2,888.9	2,882.0	5.4	6.0	-169.57	186.9	-538.2	679.4	668.4	10.98	61.877	
3,000.0	2,997.0	2,988.4	2,981.3	5.6	6.2	-169.05	194.4	-538.2	686.8	675.4	11.37	60.428	
3,100.0	3,096.9	3,087.9	3,080.5	5.8	6.5	-168.54	201.9	-538.2	694.2	682.4	11.75	59.080	
3,200.0	3,196.8	3,187.5	3,179.8	6.0	6.7	-168.04	209.4	-538.2	701.7	689.5	12.13	57.823	
3,300.0	3,296.6	3,287.0	3,279.0	6.2	6.9	-167.55	216.9	-538.2	709.2	696.7	12.52	56.649	
3,400.0	3,396.5	3,386.6	3,378.3	6.4	7.1	-167.07	224.4	-538.2	716.7	703.8	12.90	55.549	
3,500.0	3,496.4	3,486.1	3,477.5	6.6	7.3	-166.60	231.9	-538.2	724.4	711.1	13.29	54.518	
3,600.0	3,596.2	3,585.6	3,576.8	6.8	7.5	-166.14	239.5	-538.2	732.0	718.4	13.67	53.549	
3,700.0	3,696.1	3,685.2	3,676.0	7.0	7.8	-165.69	247.0	-538.2	739.7	725.7	14.05	52.636	
3,800.0	3,796.0	3,784.7	3,775.3	7.2	8.0	-165.25	254.5	-538.2	747.5	733.1	14.44	51.777	
3,900.0	3,895.8	3,884.2	3,874.5	7.4	8.2	-164.82	262.0	-538.2	755.3	740.5	14.82	50.965	
4,000.0	3,995.7	3,983.8	3,973.8	7.6	8.4	-164.39	269.5	-538.2	763.1	747.9	15.20	50.197	
4,100.0	4,095.5	4,083.3	4,073.1	7.8	8.6	-163.98	277.0	-538.2	771.0	755.4	15.59	49.471	
4,200.0	4,195.4	4,182.8	4,172.3	8.0	8.8	-163.57	284.5	-538.2	779.0	763.0	15.97	48.782	
4,300.0	4,295.3	4,282.4	4,271.6	8.2	9.1	-163.18	292.0	-538.2	786.9	770.6	16.35	48.128	
4,400.0	4,395.1	4,381.9	4,370.8	8.4	9.3	-162.79	299.5	-538.2	794.9	778.2	16.73	47.507	
4,500.0	4,495.0	4,481.4	4,470.1	8.6	9.5	-162.40	307.0	-538.2	802.9	785.8	17.11	46.916	
4,600.0	4,594.9	4,581.0	4,569.3	8.8	9.7	-162.03	314.5	-538.2	811.0	793.5	17.50	46.354	
4,700.0	4,694.7	4,680.5	4,668.6	8.9	9.9	-161.66	322.0	-538.2	819.1	801.2	17.88	45.818	
4,800.0	4,794.6	4,780.0	4,767.8	9.1	10.1	-161.30	329.6	-538.2	827.3	809.0	18.26	45.306	
4,900.0	4,894.5	4,879.6	4,867.1	9.3	10.4	-160.95	337.1	-538.2	835.4	816.8	18.64	44.817	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,994.3	4,979.1	4,966.3	9.5	10.6	-160.60	344.6	-538.2	843.6	824.6	19.02	44.350	
5,100.0	5,094.2	5,078.6	5,065.6	9.7	10.8	-160.26	352.1	-538.2	851.8	832.4	19.40	43.904	
5,200.0	5,194.1	5,178.2	5,164.8	9.9	11.0	-159.93	359.6	-538.2	860.1	840.3	19.78	43.476	
5,300.0	5,293.9	5,277.7	5,264.1	10.1	11.2	-159.60	367.1	-538.2	868.4	848.2	20.16	43.066	
5,400.0	5,393.8	5,377.2	5,363.3	10.3	11.5	-159.28	374.6	-538.2	876.7	856.2	20.54	42.673	
5,500.0	5,493.7	5,476.8	5,462.6	10.5	11.7	-158.97	382.1	-538.2	885.0	864.1	20.93	42.296	
5,600.0	5,593.5	5,576.3	5,561.8	10.7	11.9	-158.66	389.6	-538.2	893.4	872.1	21.31	41.933	
5,700.0	5,693.4	5,675.9	5,661.1	10.9	12.1	-158.36	397.1	-538.2	901.8	880.1	21.69	41.585	
5,800.0	5,793.3	5,775.4	5,760.3	11.1	12.3	-158.06	404.6	-538.2	910.2	888.2	22.07	41.250	
5,900.0	5,893.1	5,874.9	5,859.6	11.3	12.5	-157.77	412.1	-538.2	918.7	896.2	22.45	40.928	
6,000.0	5,993.0	5,974.5	5,958.8	11.5	12.8	-157.48	419.7	-538.2	927.1	904.3	22.83	40.618	
6,100.0	6,092.8	6,074.0	6,058.1	11.7	13.0	-157.20	427.2	-538.2	935.6	912.4	23.21	40.319	
6,200.0	6,192.7	6,173.5	6,157.3	11.9	13.2	-156.92	434.7	-538.2	944.1	920.5	23.59	40.031	
6,300.0	6,292.6	6,273.1	6,256.6	12.1	13.4	-156.65	442.2	-538.2	952.7	928.7	23.96	39.753	
6,400.0	6,392.4	6,372.6	6,355.8	12.3	13.6	-156.39	449.7	-538.2	961.2	936.9	24.34	39.484	
6,500.0	6,492.3	6,472.1	6,455.1	12.5	13.8	-156.12	457.2	-538.2	969.8	945.1	24.72	39.225	
6,600.0	6,592.2	6,571.7	6,554.3	12.7	14.1	-155.87	464.7	-538.2	978.4	953.3	25.10	38.975	
6,700.0	6,692.0	6,671.2	6,653.6	12.9	14.3	-155.61	472.2	-538.2	987.0	961.5	25.48	38.733	
6,800.0	6,791.9	6,770.7	6,752.8	13.1	14.5	-155.37	479.7	-538.2	995.6	969.7	25.86	38.499	
6,900.0	6,891.8	6,870.3	6,852.1	13.3	14.7	-155.12	487.2	-538.2	1,004.3	978.0	26.24	38.272	
7,000.0	6,991.6	6,969.8	6,951.3	13.5	14.9	-154.88	494.7	-538.2	1,012.9	986.3	26.62	38.053	
7,100.0	7,091.5	7,069.3	7,050.6	13.7	15.1	-154.64	502.2	-538.2	1,021.6	994.6	27.00	37.841	
7,172.4	7,163.8	7,141.4	7,122.5	13.8	15.3	-154.48	507.7	-538.2	1,027.9	1,000.6	27.27	37.691	
7,200.0	7,191.4	7,169.8	7,150.6	13.9	14.5	-117.68	347.4	-538.2	1,023.7	996.7	26.97	37.961	
7,250.0	7,241.1	7,219.2	7,199.8	14.0	13.9	-102.86	147.3	-538.2	1,003.1	976.5	26.52	37.821	
7,300.0	7,290.3	7,268.1	7,247.7	14.0	13.9	-99.61	104.9	-538.2	981.9	955.3	26.59	36.930	
7,350.0	7,338.5	7,316.1	7,294.3	14.1	13.9	-98.37	99.1	-538.2	962.4	935.7	26.67	36.081	
7,400.0	7,385.5	7,362.6	7,339.3	14.2	13.9	-97.66	106.3	-538.2	945.1	918.3	26.76	35.320	
7,450.0	7,430.8	7,407.9	7,384.0	14.3	13.9	-97.05	119.4	-538.2	930.0	903.2	26.85	34.642	
7,500.0	7,474.1	7,450.2	7,425.3	14.5	13.9	-96.38	135.5	-538.2	917.4	890.4	26.97	34.015	
7,550.0	7,515.0	7,490.5	7,465.6	14.6	13.9	-95.58	153.4	-538.2	907.2	880.0	27.12	33.449	
7,600.0	7,553.3	7,528.3	7,503.3	14.8	13.9	-94.63	172.2	-538.2	899.4	872.1	27.32	32.925	
7,650.0	7,588.7	7,563.6	7,538.6	15.0	14.0	-93.51	191.6	-538.2	894.0	866.4	27.57	32.429	
7,700.0	7,620.9	7,595.6	7,570.3	15.2	14.0	-92.22	211.1	-538.2	890.9	863.0	27.87	31.969	
7,747.0	7,648.0	7,622.4	7,596.4	15.4	14.0	-90.87	229.5	-538.2	890.0	861.8	28.21	31.553	
7,750.0	7,649.6	7,623.0	7,597.0	15.5	14.0	-90.78	230.7	-538.2	890.0	861.7	28.23	31.529	
7,800.0	7,674.7	7,648.1	7,621.5	15.8	14.1	-89.19	250.1	-538.2	891.1	862.4	28.63	31.129	
7,850.0	7,695.9	7,669.3	7,642.7	16.1	14.2	-87.48	269.2	-538.2	894.0	865.0	29.06	30.763	
7,900.0	7,713.1	7,686.5	7,659.9	16.5	14.2	-85.67	288.0	-538.2	898.7	869.1	29.52	30.447	
7,950.0	7,726.1	7,699.5	7,672.9	16.9	14.3	-83.77	306.3	-538.2	904.7	874.7	29.97	30.183	
8,000.0	7,734.9	7,708.3	7,681.7	17.4	14.4	-81.82	324.1	-538.2	912.0	881.6	30.42	29.979	
8,050.0	7,739.4	7,712.8	7,686.2	17.9	14.5	-79.85	341.3	-538.2	920.3	889.5	30.85	29.836	
8,076.4	7,740.0	7,713.4	7,686.8	18.2	14.5	-78.81	350.1	-538.2	925.0	894.0	31.06	29.784	
8,100.0	7,740.0	7,713.4	7,688.0	18.4	14.5	-78.31	357.7	-538.2	929.5	898.2	31.32	29.681	
8,200.0	7,740.0	7,713.4	7,688.0	19.6	14.7	-76.34	385.1	-538.2	952.9	920.5	32.44	29.373	
8,300.0	7,740.0	7,713.4	7,688.0	20.8	14.8	-74.62	406.4	-538.2	983.5	949.9	33.60	29.268 SF	
8,400.0	7,740.0	7,713.4	7,688.0	22.1	14.9	-72.88	425.5	-538.2	1,021.2	986.4	34.78	29.364	
8,500.0	7,740.0	7,713.4	7,688.0	23.4	15.0	-71.81	436.2	-538.2	1,065.5	1,029.5	36.02	29.585	
8,600.0	7,740.0	7,713.4	7,688.0	24.8	15.1	-70.33	449.7	-538.2	1,116.1	1,078.8	37.22	29.989	
8,700.0	7,740.0	7,713.4	7,688.0	26.3	15.1	-70.33	449.7	-538.2	1,172.2	1,133.6	38.62	30.352	
8,800.0	7,740.0	7,713.4	7,688.0	27.8	15.2	-68.82	462.1	-538.2	1,233.1	1,193.3	39.81	30.977	
8,900.0	7,740.0	7,713.4	7,688.0	29.3	15.2	-67.76	469.9	-538.2	1,298.5	1,257.4	41.05	31.629	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	7,400.0	7,376.1	30.8	15.2	-67.76	469.9	-538.2	1,367.7	1,325.2	42.51	32.173	
9,100.0	7,740.0	7,380.7	7,357.9	32.4	15.2	-66.77	476.7	-538.2	1,440.1	1,396.3	43.75	32.913	
9,200.0	7,740.0	7,370.1	7,348.0	33.9	15.3	-66.23	480.1	-538.2	1,515.5	1,470.4	45.10	33.605	
9,300.0	7,740.0	7,350.0	7,328.8	35.5	15.3	-65.20	486.1	-538.2	1,593.5	1,547.2	46.30	34.416	
9,400.0	7,740.0	7,350.0	7,328.8	37.2	15.3	-65.20	486.1	-538.2	1,673.5	1,625.7	47.79	35.020	
9,500.0	7,740.0	7,350.0	7,328.8	38.8	15.3	-65.20	486.1	-538.2	1,755.5	1,706.2	49.28	35.623	
9,600.0	7,740.0	7,350.0	7,328.8	40.4	15.3	-65.20	486.1	-538.2	1,839.3	1,788.5	50.78	36.219	
9,700.0	7,740.0	7,330.7	7,310.1	42.0	15.3	-64.21	491.3	-538.2	1,924.3	1,872.3	51.95	37.038	
9,800.0	7,740.0	7,324.7	7,304.3	43.7	15.3	-63.91	492.7	-538.2	2,010.7	1,957.3	53.35	37.691	
9,900.0	7,740.0	7,300.0	7,280.2	45.4	15.4	-62.67	498.1	-538.2	2,098.6	2,044.3	54.37	38.600	
10,000.0	7,740.0	7,300.0	7,280.2	47.0	15.4	-62.67	498.1	-538.2	2,187.0	2,131.2	55.86	39.149	
10,100.0	7,740.0	7,300.0	7,280.2	48.7	15.4	-62.67	498.1	-538.2	2,276.4	2,219.0	57.36	39.683	
10,200.0	7,740.0	7,300.0	7,280.2	50.4	15.4	-62.67	498.1	-538.2	2,366.6	2,307.7	58.87	40.202	
10,300.0	7,740.0	7,300.0	7,280.2	52.1	15.4	-62.67	498.1	-538.2	2,457.6	2,397.2	60.38	40.705	
10,400.0	7,740.0	7,300.0	7,280.2	53.7	15.4	-62.67	498.1	-538.2	2,549.2	2,487.3	61.89	41.192	
10,500.0	7,740.0	7,300.0	7,280.2	55.4	15.4	-62.67	498.1	-538.2	2,641.5	2,578.1	63.40	41.663	
10,600.0	7,740.0	7,300.0	7,280.2	57.1	15.4	-62.67	498.1	-538.2	2,734.3	2,669.4	64.92	42.119	
10,700.0	7,740.0	7,300.0	7,280.2	58.8	15.4	-62.67	498.1	-538.2	2,827.6	2,761.1	66.44	42.559	
10,800.0	7,740.0	7,300.0	7,280.2	60.5	15.4	-62.67	498.1	-538.2	2,921.3	2,853.3	67.96	42.985	
10,900.0	7,740.0	7,300.0	7,280.2	62.2	15.4	-62.67	498.1	-538.2	3,015.4	2,945.9	69.48	43.397	
11,000.0	7,740.0	7,278.5	7,259.1	63.9	15.4	-61.60	502.0	-538.2	3,109.5	3,039.1	70.40	44.168	
11,100.0	7,740.0	7,276.0	7,256.6	65.7	15.4	-61.48	502.4	-538.2	3,204.2	3,132.4	71.84	44.602	
11,200.0	7,740.0	7,273.6	7,254.2	67.4	15.4	-61.36	502.7	-538.2	3,299.2	3,225.9	73.28	45.021	
11,300.0	7,740.0	7,271.3	7,252.0	69.1	15.4	-61.25	503.1	-538.2	3,394.5	3,319.8	74.72	45.427	
11,400.0	7,740.0	7,250.0	7,230.9	70.8	15.4	-60.21	505.9	-538.2	3,490.4	3,414.9	75.56	46.196	
11,500.0	7,740.0	7,250.0	7,230.9	72.5	15.4	-60.21	505.9	-538.2	3,586.1	3,509.1	77.06	46.539	
11,600.0	7,740.0	7,250.0	7,230.9	74.2	15.4	-60.21	505.9	-538.2	3,682.1	3,603.5	78.56	46.872	
11,700.0	7,740.0	7,250.0	7,230.9	76.0	15.4	-60.21	505.9	-538.2	3,778.2	3,698.2	80.06	47.194	
11,800.0	7,740.0	7,250.0	7,230.9	77.7	15.4	-60.21	505.9	-538.2	3,874.6	3,793.0	81.56	47.505	
11,900.0	7,740.0	7,250.0	7,230.9	79.4	15.4	-60.21	505.9	-538.2	3,971.1	3,888.0	83.06	47.808	
12,000.0	7,740.0	7,250.0	7,230.9	81.1	15.4	-60.21	505.9	-538.2	4,067.8	3,983.2	84.57	48.100	
12,100.0	7,740.0	7,250.0	7,230.9	82.9	15.4	-60.21	505.9	-538.2	4,164.6	4,078.6	86.07	48.384	
12,200.0	7,740.0	7,250.0	7,230.9	84.6	15.4	-60.21	505.9	-538.2	4,261.6	4,174.1	87.58	48.660	
12,300.0	7,740.0	7,250.0	7,230.9	86.3	15.4	-60.21	505.9	-538.2	4,358.8	4,269.7	89.09	48.927	
12,400.0	7,740.0	7,250.0	7,230.9	88.0	15.4	-60.21	505.9	-538.2	4,456.0	4,365.4	90.60	49.186	
12,500.0	7,740.0	7,250.0	7,230.9	89.8	15.4	-60.21	505.9	-538.2	4,553.4	4,461.3	92.10	49.438	
12,600.0	7,740.0	7,250.0	7,230.9	91.5	15.4	-60.21	505.9	-538.2	4,650.9	4,557.3	93.61	49.682	
12,700.0	7,740.0	7,250.0	7,230.9	93.2	15.4	-60.21	505.9	-538.2	4,748.5	4,653.4	95.12	49.920	
12,800.0	7,740.0	7,250.0	7,230.9	95.0	15.4	-60.21	505.9	-538.2	4,846.2	4,749.6	96.63	50.150	
12,900.0	7,740.0	7,250.0	7,230.9	96.7	15.4	-60.21	505.9	-538.2	4,944.0	4,845.8	98.14	50.375	
13,000.0	7,740.0	7,250.0	7,230.9	98.4	15.4	-60.21	505.9	-538.2	5,041.8	4,942.2	99.66	50.593	
13,100.0	7,740.0	7,250.0	7,230.9	100.2	15.4	-60.21	505.9	-538.2	5,139.8	5,038.6	101.17	50.805	
13,200.0	7,740.0	7,250.0	7,230.9	101.9	15.4	-60.21	505.9	-538.2	5,237.8	5,135.1	102.68	51.011	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	-89.74	0.4	-80.0	80.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.74	0.4	-80.0	80.0	79.7	0.30	263.581		
200.0	200.0	200.0	200.0	0.3	0.3	-89.74	0.4	-80.0	80.0	79.4	0.65	122.629		
300.0	300.0	300.0	300.0	0.5	0.5	-89.74	0.4	-80.0	80.0	79.0	1.00	79.901 CC, ES		
400.0	400.0	399.1	399.1	0.7	0.7	-89.27	1.0	-80.6	80.6	79.3	1.35	59.731		
500.0	500.0	498.1	498.1	0.8	0.9	-87.92	3.0	-82.2	82.3	80.6	1.70	48.474		
600.0	600.0	597.0	596.9	1.0	1.0	-85.79	6.3	-85.0	85.3	83.2	2.05	41.605		
700.0	700.0	695.7	695.4	1.2	1.2	-179.77	10.8	-88.8	90.5	88.1	2.41	37.576		
800.0	800.0	795.3	794.7	1.4	1.4	-177.00	16.1	-93.3	98.3	95.5	2.76	35.563		
897.7	897.5	892.4	891.6	1.6	1.6	-174.77	21.3	-97.6	107.8	104.7	3.11	34.656		
900.0	899.9	894.7	893.9	1.6	1.6	-174.73	21.5	-97.7	108.1	104.9	3.12	34.643		
1,000.0	999.7	994.1	993.0	1.7	1.8	-172.88	26.8	-102.2	118.8	115.3	3.48	34.177		
1,100.0	1,099.6	1,093.4	1,092.2	1.9	2.0	-171.35	32.1	-106.7	129.6	125.8	3.83	33.827		
1,200.0	1,199.5	1,192.8	1,191.3	2.1	2.2	-170.05	37.4	-111.1	140.5	136.3	4.19	33.558		
1,300.0	1,299.3	1,293.3	1,291.6	2.3	2.5	-168.67	43.3	-115.1	151.1	146.5	4.55	33.212		
1,400.0	1,399.2	1,394.0	1,392.0	2.5	2.7	-166.92	50.4	-117.7	160.9	156.0	4.92	32.733		
1,500.0	1,499.1	1,494.1	1,491.7	2.7	2.9	-164.89	58.5	-119.2	170.3	165.0	5.29	32.208		
1,600.0	1,598.9	1,593.5	1,590.8	2.9	3.1	-163.01	66.8	-120.5	179.7	174.0	5.66	31.769		
1,700.0	1,698.8	1,692.9	1,689.8	3.1	3.3	-161.31	75.1	-121.8	189.3	183.2	6.03	31.411		
1,800.0	1,798.6	1,792.3	1,788.8	3.3	3.5	-159.78	83.4	-123.1	199.0	192.6	6.39	31.115		
1,900.0	1,898.5	1,891.7	1,887.9	3.5	3.8	-158.40	91.7	-124.4	208.8	202.1	6.77	30.869		
2,000.0	1,998.4	1,991.1	1,986.9	3.7	4.0	-157.14	100.0	-125.7	218.8	211.7	7.14	30.663		
2,100.0	2,098.2	2,090.5	2,086.0	3.9	4.2	-155.98	108.3	-126.9	228.9	221.4	7.51	30.489		
2,200.0	2,198.1	2,189.9	2,185.0	4.1	4.4	-154.93	116.6	-128.2	239.0	231.1	7.88	30.342		
2,300.0	2,298.0	2,289.3	2,284.0	4.2	4.6	-153.96	124.8	-129.5	249.2	241.0	8.25	30.216		
2,400.0	2,397.8	2,388.7	2,383.1	4.4	4.9	-153.07	133.1	-130.8	259.5	250.9	8.62	30.109		
2,500.0	2,497.7	2,488.1	2,482.1	4.6	5.1	-152.24	141.4	-132.1	269.8	260.8	8.99	30.016		
2,600.0	2,597.6	2,587.4	2,581.1	4.8	5.3	-151.48	149.7	-133.3	280.2	270.9	9.36	29.935		
2,700.0	2,697.4	2,686.8	2,680.2	5.0	5.5	-150.77	158.0	-134.6	290.7	280.9	9.73	29.866		
2,800.0	2,797.3	2,786.2	2,779.2	5.2	5.8	-150.11	166.3	-135.9	301.1	291.0	10.10	29.805		
2,900.0	2,897.2	2,885.6	2,878.3	5.4	6.0	-149.50	174.6	-137.2	311.7	301.2	10.48	29.752		
3,000.0	2,997.0	2,985.0	2,977.3	5.6	6.2	-148.92	182.8	-138.5	322.2	311.4	10.85	29.705		
3,100.0	3,096.9	3,084.4	3,076.3	5.8	6.4	-148.39	191.1	-139.8	332.8	321.6	11.22	29.664		
3,200.0	3,196.8	3,183.8	3,175.4	6.0	6.7	-147.88	199.4	-141.0	343.4	331.8	11.59	29.628		
3,300.0	3,296.6	3,283.2	3,274.4	6.2	6.9	-147.41	207.7	-142.3	354.0	342.1	11.96	29.596		
3,400.0	3,396.5	3,382.6	3,373.4	6.4	7.1	-146.96	216.0	-143.6	364.7	352.3	12.33	29.568		
3,500.0	3,496.4	3,482.0	3,472.5	6.6	7.3	-146.54	224.3	-144.9	375.3	362.6	12.70	29.543		
3,600.0	3,596.2	3,581.4	3,571.5	6.8	7.6	-146.14	232.6	-146.2	386.0	373.0	13.08	29.521		
3,700.0	3,696.1	3,680.8	3,670.6	7.0	7.8	-145.76	240.8	-147.5	396.7	383.3	13.45	29.502		
3,800.0	3,796.0	3,780.1	3,769.6	7.2	8.0	-145.40	249.1	-148.7	407.5	393.7	13.82	29.484		
3,900.0	3,895.8	3,879.5	3,868.6	7.4	8.2	-145.07	257.4	-150.0	418.2	404.0	14.19	29.469		
4,000.0	3,995.7	3,978.9	3,967.7	7.6	8.5	-144.74	265.7	-151.3	429.0	414.4	14.56	29.455		
4,100.0	4,095.5	4,078.3	4,066.7	7.8	8.7	-144.44	274.0	-152.6	439.7	424.8	14.94	29.442		
4,200.0	4,195.4	4,177.7	4,165.7	8.0	8.9	-144.15	282.3	-153.9	450.5	435.2	15.31	29.431		
4,300.0	4,295.3	4,277.1	4,264.8	8.2	9.1	-143.87	290.6	-155.1	461.3	445.6	15.68	29.422		
4,400.0	4,395.1	4,376.5	4,363.8	8.4	9.4	-143.60	298.9	-156.4	472.1	456.1	16.05	29.413		
4,500.0	4,495.0	4,475.9	4,462.9	8.6	9.6	-143.35	307.1	-157.7	482.9	466.5	16.42	29.405		
4,600.0	4,594.9	4,575.3	4,561.9	8.8	9.8	-143.11	315.4	-159.0	493.7	476.9	16.79	29.398		
4,700.0	4,694.7	4,674.7	4,660.9	8.9	10.0	-142.88	323.7	-160.3	504.6	487.4	17.17	29.392		
4,800.0	4,794.6	4,774.1	4,760.0	9.1	10.3	-142.65	332.0	-161.6	515.4	497.9	17.54	29.387		
4,900.0	4,894.5	4,873.5	4,859.0	9.3	10.5	-142.44	340.3	-162.8	526.2	508.3	17.91	29.382		
5,000.0	4,994.3	4,972.9	4,958.0	9.5	10.7	-142.24	348.6	-164.1	537.1	518.8	18.28	29.377		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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		
5,100.0	5,094.2	5,072.2	5,057.1	9.7	10.9	-142.04	356.9	-165.4	547.9	529.3	18.65	29.374		
5,200.0	5,194.1	5,171.6	5,156.1	9.9	11.2	-141.85	365.1	-166.7	558.8	539.8	19.03	29.370		
5,300.0	5,293.9	5,271.0	5,255.2	10.1	11.4	-141.67	373.4	-168.0	569.7	550.3	19.40	29.367		
5,400.0	5,393.8	5,370.4	5,354.2	10.3	11.6	-141.50	381.7	-169.3	580.5	560.8	19.77	29.365		
5,500.0	5,493.7	5,469.8	5,453.2	10.5	11.9	-141.33	390.0	-170.5	591.4	571.3	20.14	29.363		
5,600.0	5,593.5	5,569.2	5,552.3	10.7	12.1	-141.16	398.3	-171.8	602.3	581.8	20.51	29.361		
5,700.0	5,693.4	5,668.6	5,651.3	10.9	12.3	-141.01	406.6	-173.1	613.2	592.3	20.89	29.359		
5,800.0	5,793.3	5,768.0	5,750.3	11.1	12.5	-140.86	414.9	-174.4	624.1	602.8	21.26	29.358		
5,900.0	5,893.1	5,867.4	5,849.4	11.3	12.8	-140.71	423.2	-175.7	635.0	613.4	21.63	29.357		
6,000.0	5,993.0	5,966.8	5,948.4	11.5	13.0	-140.57	431.4	-177.0	645.9	623.9	22.00	29.356		
6,100.0	6,092.8	6,066.2	6,047.5	11.7	13.2	-140.43	439.7	-178.2	656.8	634.4	22.37	29.355		
6,200.0	6,192.7	6,165.6	6,146.5	11.9	13.4	-140.30	448.0	-179.5	667.7	644.9	22.75	29.355		
6,300.0	6,292.6	6,264.9	6,245.5	12.1	13.7	-140.18	456.3	-180.8	678.6	655.5	23.12	29.354		
6,400.0	6,392.4	6,364.3	6,344.6	12.3	13.9	-140.05	464.6	-182.1	689.5	666.0	23.49	29.354		
6,500.0	6,492.3	6,463.7	6,443.6	12.5	14.1	-139.93	472.9	-183.4	700.4	676.6	23.86	29.354		
6,600.0	6,592.2	6,563.1	6,542.6	12.7	14.3	-139.82	481.2	-184.6	711.4	687.1	24.23	29.354		
6,700.0	6,692.0	6,662.5	6,641.7	12.9	14.6	-139.70	489.4	-185.9	722.3	697.7	24.61	29.354		
6,800.0	6,791.9	6,761.9	6,740.7	13.1	14.8	-139.59	497.7	-187.2	733.2	708.2	24.98	29.354		
6,900.0	6,891.8	6,861.3	6,839.8	13.3	15.0	-139.49	506.0	-188.5	744.1	718.8	25.35	29.355		
7,000.0	6,991.6	6,962.6	6,945.7	13.5	15.3	-139.38	514.2	-189.7	755.0	729.3	25.72	28.236		
7,100.0	7,091.5	7,065.7	7,044.0	13.7	15.5	-139.27	522.3	-190.9	765.9	739.4	26.09	25.638		
7,172.4	7,163.8	7,132.2	7,109.1	13.8	15.7	-139.17	529.4	-192.1	775.0	748.4	26.46	23.989		
7,200.0	7,191.4	7,159.2	7,135.5	13.9	15.8	-139.06	536.5	-193.3	784.1	757.5	26.83	23.432		
7,250.0	7,241.1	7,197.9	7,173.5	14.0	16.0	-138.96	543.6	-194.5	793.2	766.6	27.20	22.542		
7,300.0	7,290.3	7,236.6	7,211.5	14.0	16.1	-138.86	550.7	-195.7	802.3	775.7	27.57	21.810		
7,350.0	7,338.5	7,280.0	7,254.9	14.1	16.2	-138.76	557.8	-196.9	811.4	784.8	27.94	21.238		
7,400.0	7,385.5	7,318.0	7,290.0	14.2	16.3	-138.66	564.9	-198.1	820.5	793.9	28.31	20.823		
7,450.0	7,430.8	7,358.0	7,328.0	14.3	16.4	-138.56	572.0	-199.3	829.6	803.0	28.68	20.554		
7,494.8	7,469.7	7,393.7	7,362.5	14.4	16.5	-138.46	579.1	-200.5	838.7	812.1	29.05	20.413		
7,500.0	7,474.1	7,396.8	7,364.1	14.5	16.6	-138.36	586.2	-201.7	847.8	821.2	29.42	20.404		
7,550.0	7,515.0	7,424.9	7,390.0	14.6	16.7	-138.26	593.3	-202.9	856.9	830.3	29.79	20.376 SF		
7,600.0	7,553.3	7,463.2	7,427.0	14.8	16.8	-138.06	607.4	-204.1	870.0	843.4	30.46	20.454		
7,650.0	7,588.7	7,492.7	7,454.1	15.0	17.0	-137.86	621.5	-205.3	883.1	856.5	31.13	20.624		
7,700.0	7,620.9	7,515.0	7,474.8	15.2	17.1	-137.66	635.6	-206.5	896.2	869.6	31.80	20.897		
7,750.0	7,649.6	7,533.3	7,490.8	15.5	17.3	-137.46	649.7	-207.7	909.3	882.7	32.47	21.250		
7,800.0	7,674.7	7,558.5	7,514.4	15.8	17.5	-137.26	663.8	-208.9	922.4	895.8	33.14	21.704		
7,850.0	7,695.9	7,586.5	7,540.0	16.1	17.7	-137.06	677.9	-210.1	935.5	908.9	33.81	22.247		
7,900.0	7,713.1	7,594.2	7,546.0	16.5	17.9	-136.86	692.0	-211.3	948.6	922.0	34.48	22.877		
7,950.0	7,726.1	7,605.0	7,555.8	16.9	18.1	-136.66	706.1	-212.5	961.7	935.1	35.15	23.542		
8,000.0	7,734.9	7,618.9	7,567.6	17.4	18.3	-136.46	720.2	-213.7	974.8	948.2	35.82	24.337		
8,050.0	7,739.4	7,625.0	7,573.1	17.9	18.5	-136.26	734.3	-214.9	987.9	961.8	36.49	25.102		
8,076.4	7,740.0	7,628.0	7,574.7	18.2	18.6	-136.16	739.4	-215.9	993.0	966.4	36.86	25.540		
8,100.0	7,740.0	7,633.3	7,580.3	18.4	18.7	-136.06	744.5	-216.9	998.1	971.5	37.23	25.706		
8,200.0	7,740.0	7,638.2	7,585.4	19.6	18.9	-135.96	759.6	-218.1	1,013.2	986.6	38.90	26.526		
8,300.0	7,740.0	7,643.0	7,590.0	20.8	19.1	-135.86	774.7	-219.3	1,028.3	1,001.7	40.57	27.465		
8,400.0	7,740.0	7,647.0	7,594.2	22.1	19.3	-135.76	789.8	-220.5	1,043.4	1,016.8	42.24	28.786		
8,500.0	7,740.0	7,651.0	7,598.4	23.4	19.5	-135.66	804.9	-221.7	1,058.5	1,031.9	43.91	29.905		
8,600.0	7,740.0	7,655.0	7,602.4	24.8	19.7	-135.56	820.0	-222.9	1,073.6	1,047.0	45.58	31.326		
8,700.0	7,740.0	7,659.0	7,606.0	26.3	19.9	-135.46	835.1	-224.1	1,088.7	1,062.1	47.25	32.620		
8,800.0	7,740.0	7,663.0	7,610.0	27.8	20.1	-135.36	850.2	-225.3	1,103.8	1,077.2	48.92	34.266		
8,900.0	7,740.0	7,667.0	7,614.0	29.3	20.3	-135.26	865.3	-226.5	1,118.9	1,092.3	50.59	35.367		
9,000.0	7,740.0	7,671.0	7,618.0	30.8	20.5	-135.16	880.4	-227.7	1,265.6	1,231.3	34.31	36.892		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	7,200.0	7,170.3	32.4	14.9	-43.73	457.1	-192.8	1,346.3	1,311.4	34.88	38.601	
9,200.0	7,740.0	7,200.0	7,170.3	33.9	14.9	-43.73	457.1	-192.8	1,428.6	1,392.6	35.99	39.696	
9,300.0	7,740.0	7,200.0	7,170.3	35.5	14.9	-43.73	457.1	-192.8	1,513.0	1,475.9	37.11	40.772	
9,400.0	7,740.0	7,176.7	7,148.9	37.2	15.0	-42.65	466.6	-192.5	1,598.5	1,560.8	37.71	42.395	
9,500.0	7,740.0	7,150.0	7,124.1	38.8	15.0	-41.46	476.4	-192.2	1,685.9	1,647.7	38.19	44.144	
9,600.0	7,740.0	7,150.0	7,124.1	40.4	15.0	-41.46	476.4	-192.2	1,773.9	1,734.6	39.29	45.152	
9,700.0	7,740.0	7,150.0	7,124.1	42.0	15.0	-41.46	476.4	-192.2	1,863.1	1,822.7	40.39	46.130	
9,800.0	7,740.0	7,150.0	7,124.1	43.7	15.0	-41.46	476.4	-192.2	1,953.3	1,911.9	41.49	47.075	
9,900.0	7,740.0	7,150.0	7,124.1	45.4	15.0	-41.46	476.4	-192.2	2,044.5	2,001.9	42.61	47.986	
10,000.0	7,740.0	7,126.3	7,101.7	47.0	15.1	-40.42	484.1	-191.9	2,135.8	2,092.8	43.05	49.616	
10,100.0	7,740.0	7,119.9	7,095.6	48.7	15.1	-40.15	486.0	-191.8	2,228.1	2,184.2	43.96	50.687	
10,200.0	7,740.0	7,100.0	7,076.5	50.4	15.1	-39.31	491.5	-191.6	2,321.2	2,276.7	44.46	52.212	
10,300.0	7,740.0	7,100.0	7,076.5	52.1	15.1	-39.31	491.5	-191.6	2,414.4	2,368.8	45.53	53.023	
10,400.0	7,740.0	7,100.0	7,076.5	53.7	15.1	-39.31	491.5	-191.6	2,508.1	2,461.5	46.61	53.805	
10,500.0	7,740.0	7,100.0	7,076.5	55.4	15.1	-39.31	491.5	-191.6	2,602.3	2,554.6	47.70	54.559	
10,600.0	7,740.0	7,100.0	7,076.5	57.1	15.1	-39.31	491.5	-191.6	2,696.9	2,648.1	48.78	55.285	
10,700.0	7,740.0	7,100.0	7,076.5	58.8	15.1	-39.31	491.5	-191.6	2,791.9	2,742.0	49.87	55.985	
10,800.0	7,740.0	7,100.0	7,076.5	60.5	15.1	-39.31	491.5	-191.6	2,887.2	2,836.3	50.96	56.660	
10,900.0	7,740.0	7,100.0	7,076.5	62.2	15.1	-39.31	491.5	-191.6	2,982.9	2,930.8	52.05	57.310	
11,000.0	7,740.0	7,077.9	7,055.1	63.9	15.2	-38.40	496.8	-191.3	3,078.3	3,026.0	52.32	58.839	
11,100.0	7,740.0	7,074.5	7,051.7	65.7	15.2	-38.26	497.6	-191.2	3,174.3	3,121.0	53.26	59.600	
11,200.0	7,740.0	7,050.0	7,027.7	67.4	15.2	-37.29	502.4	-190.9	3,271.0	3,217.6	53.39	61.260	
11,300.0	7,740.0	7,050.0	7,027.7	69.1	15.2	-37.29	502.4	-190.9	3,367.3	3,312.8	54.44	61.848	
11,400.0	7,740.0	7,050.0	7,027.7	70.8	15.2	-37.29	502.4	-190.9	3,463.8	3,408.3	55.49	62.416	
11,500.0	7,740.0	7,050.0	7,027.7	72.5	15.2	-37.29	502.4	-190.9	3,560.5	3,503.9	56.55	62.965	
11,600.0	7,740.0	7,050.0	7,027.7	74.2	15.2	-37.29	502.4	-190.9	3,657.3	3,599.7	57.60	63.496	
11,700.0	7,740.0	7,050.0	7,027.7	76.0	15.2	-37.29	502.4	-190.9	3,754.4	3,695.7	58.65	64.010	
11,800.0	7,740.0	7,050.0	7,027.7	77.7	15.2	-37.29	502.4	-190.9	3,851.6	3,791.8	59.71	64.507	
11,900.0	7,740.0	7,050.0	7,027.7	79.4	15.2	-37.29	502.4	-190.9	3,948.9	3,888.1	60.76	64.989	
12,000.0	7,740.0	7,050.0	7,027.7	81.1	15.2	-37.29	502.4	-190.9	4,046.3	3,984.5	61.82	65.455	
12,100.0	7,740.0	7,050.0	7,027.7	82.9	15.2	-37.29	502.4	-190.9	4,143.9	4,081.0	62.88	65.907	
12,200.0	7,740.0	7,050.0	7,027.7	84.6	15.2	-37.29	502.4	-190.9	4,241.6	4,177.7	63.93	66.344	
12,300.0	7,740.0	7,050.0	7,027.7	86.3	15.2	-37.29	502.4	-190.9	4,339.4	4,274.4	64.99	66.769	
12,400.0	7,740.0	7,050.0	7,027.7	88.0	15.2	-37.29	502.4	-190.9	4,437.3	4,371.3	66.05	67.181	
12,500.0	7,740.0	7,050.0	7,027.7	89.8	15.2	-37.29	502.4	-190.9	4,535.3	4,468.2	67.11	67.580	
12,600.0	7,740.0	7,050.0	7,027.7	91.5	15.2	-37.29	502.4	-190.9	4,633.4	4,565.2	68.17	67.968	
12,700.0	7,740.0	7,050.0	7,027.7	93.2	15.2	-37.29	502.4	-190.9	4,731.5	4,662.3	69.23	68.345	
12,800.0	7,740.0	7,050.0	7,027.7	95.0	15.2	-37.29	502.4	-190.9	4,829.8	4,759.5	70.29	68.711	
12,900.0	7,740.0	7,050.0	7,027.7	96.7	15.2	-37.29	502.4	-190.9	4,928.1	4,856.7	71.35	69.066	
13,000.0	7,740.0	7,050.0	7,027.7	98.4	15.2	-37.29	502.4	-190.9	5,026.4	4,954.0	72.41	69.412	
13,100.0	7,740.0	7,050.0	7,027.7	100.2	15.2	-37.29	502.4	-190.9	5,124.9	5,051.4	73.48	69.748	
13,200.0	7,740.0	7,050.0	7,027.7	101.9	15.2	-37.29	502.4	-190.9	5,223.4	5,148.8	74.54	70.075	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	-89.70	0.4	-70.2	70.3					
100.0	100.0	100.0	100.0	0.2	0.2	-89.70	0.4	-70.2	70.3	69.9	0.30	231.326		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.4	-70.2	70.3	69.6	0.65	107.622		
300.0	300.0	300.0	300.0	0.5	0.5	-89.70	0.4	-70.2	70.3	69.2	1.00	70.123		
400.0	400.0	400.0	400.0	0.7	0.7	-89.70	0.4	-70.2	70.3	68.9	1.35	52.003		
500.0	500.0	500.5	500.5	0.8	0.9	-89.05	1.2	-69.9	69.9	68.2	1.70	41.079		
600.0	600.0	601.0	600.9	1.0	1.0	-87.06	3.5	-68.7	68.8	66.8	2.05	33.534		
700.0	700.0	701.3	701.2	1.2	1.2	179.68	7.5	-66.8	68.1	65.7	2.41	28.219		
701.0	701.0	702.4	702.2	1.2	1.2	179.73	7.5	-66.8	68.1	65.7	2.42	28.174	CC, ES	
800.0	800.0	801.5	801.2	1.4	1.4	-175.49	13.0	-64.1	68.9	66.1	2.78	24.776		
897.7	897.5	899.1	898.5	1.6	1.6	-169.80	19.9	-60.7	71.5	68.4	3.15	22.686		
900.0	899.9	901.5	900.8	1.6	1.6	-169.66	20.1	-60.7	71.6	68.4	3.16	22.649		
1,000.0	999.7	1,001.1	1,000.1	1.7	1.8	-163.88	27.9	-56.9	75.8	72.2	3.55	21.335		
1,100.0	1,099.6	1,100.7	1,099.3	1.9	2.0	-158.74	35.6	-53.1	80.6	76.7	3.94	20.433		
1,200.0	1,199.5	1,200.4	1,198.6	2.1	2.3	-154.21	43.4	-49.3	86.0	81.7	4.34	19.817		
1,300.0	1,299.3	1,300.0	1,297.9	2.3	2.5	-150.24	51.2	-45.5	91.9	87.2	4.74	19.399		
1,400.0	1,399.2	1,399.6	1,397.1	2.5	2.7	-146.76	59.0	-41.7	98.2	93.0	5.13	19.120		
1,500.0	1,499.1	1,499.3	1,496.4	2.7	2.9	-143.71	66.8	-37.9	104.8	99.2	5.53	18.939		
1,600.0	1,598.9	1,598.9	1,595.6	2.9	3.2	-141.02	74.5	-34.2	111.6	105.7	5.93	18.828		
1,700.0	1,698.8	1,698.6	1,694.9	3.1	3.4	-138.65	82.3	-30.4	118.7	112.4	6.32	18.767		
1,800.0	1,798.6	1,798.2	1,794.2	3.3	3.6	-136.55	90.1	-26.6	125.9	119.2	6.72	18.741		
1,900.0	1,898.5	1,897.8	1,893.4	3.5	3.8	-134.68	97.9	-22.8	133.3	126.2	7.11	18.741		
2,000.0	1,998.4	1,997.5	1,992.7	3.7	4.1	-133.00	105.7	-19.0	140.9	133.3	7.51	18.759		
2,100.0	2,098.2	2,097.1	2,091.9	3.9	4.3	-131.50	113.4	-15.2	148.5	140.6	7.90	18.790		
2,200.0	2,198.1	2,196.7	2,191.2	4.1	4.5	-130.14	121.2	-11.4	156.2	147.9	8.30	18.830		
2,300.0	2,298.0	2,296.4	2,290.5	4.2	4.7	-128.92	129.0	-7.7	164.0	155.3	8.69	18.876		
2,400.0	2,397.8	2,396.0	2,389.7	4.4	5.0	-127.80	136.8	-3.9	171.9	162.8	9.08	18.927		
2,500.0	2,497.7	2,495.6	2,489.0	4.6	5.2	-126.78	144.6	-0.1	179.8	170.3	9.47	18.980		
2,600.0	2,597.6	2,595.3	2,588.2	4.8	5.4	-125.85	152.3	3.7	187.8	177.9	9.87	19.035		
2,700.0	2,697.4	2,694.9	2,687.5	5.0	5.7	-125.00	160.1	7.5	195.8	185.6	10.26	19.091		
2,800.0	2,797.3	2,794.6	2,786.8	5.2	5.9	-124.21	167.9	11.3	203.9	193.2	10.65	19.146		
2,900.0	2,897.2	2,894.2	2,886.0	5.4	6.1	-123.48	175.7	15.1	212.0	201.0	11.04	19.201		
3,000.0	2,997.0	2,993.8	2,985.3	5.6	6.3	-122.81	183.5	18.9	220.1	208.7	11.43	19.256		
3,100.0	3,096.9	3,093.5	3,084.5	5.8	6.6	-122.18	191.2	22.6	228.3	216.5	11.82	19.309		
3,200.0	3,196.8	3,193.1	3,183.8	6.0	6.8	-121.60	199.0	26.4	236.5	224.3	12.21	19.362		
3,300.0	3,296.6	3,292.7	3,283.1	6.2	7.0	-121.05	206.8	30.2	244.7	232.1	12.60	19.413		
3,400.0	3,396.5	3,392.4	3,382.3	6.4	7.3	-120.55	214.6	34.0	252.9	239.9	13.00	19.463		
3,500.0	3,496.4	3,492.0	3,481.6	6.6	7.5	-120.07	222.4	37.8	261.2	247.8	13.39	19.511		
3,600.0	3,596.2	3,591.6	3,580.8	6.8	7.7	-119.62	230.1	41.6	269.4	255.7	13.78	19.558		
3,700.0	3,696.1	3,691.3	3,680.1	7.0	8.0	-119.20	237.9	45.4	277.7	263.6	14.17	19.604		
3,800.0	3,796.0	3,790.9	3,779.4	7.2	8.2	-118.81	245.7	49.1	286.0	271.5	14.56	19.648		
3,900.0	3,895.8	3,890.6	3,878.6	7.4	8.4	-118.43	253.5	52.9	294.3	279.4	14.95	19.691		
4,000.0	3,995.7	3,990.2	3,977.9	7.6	8.6	-118.08	261.3	56.7	302.6	287.3	15.34	19.733		
4,100.0	4,095.5	4,089.8	4,077.1	7.8	8.9	-117.74	269.0	60.5	311.0	295.2	15.73	19.773		
4,200.0	4,195.4	4,189.5	4,176.4	8.0	9.1	-117.43	276.8	64.3	319.3	303.2	16.12	19.812		
4,300.0	4,295.3	4,289.1	4,275.7	8.2	9.3	-117.13	284.6	68.1	327.7	311.2	16.51	19.850		
4,400.0	4,395.1	4,388.7	4,374.9	8.4	9.6	-116.84	292.4	71.9	336.0	319.1	16.90	19.886		
4,500.0	4,495.0	4,488.4	4,474.2	8.6	9.8	-116.57	300.2	75.6	344.4	327.1	17.29	19.922		
4,600.0	4,594.9	4,588.0	4,573.4	8.8	10.0	-116.31	307.9	79.4	352.8	335.1	17.68	19.956		
4,700.0	4,694.7	4,687.6	4,672.7	8.9	10.2	-116.06	315.7	83.2	361.1	343.1	18.07	19.989		
4,800.0	4,794.6	4,787.3	4,772.0	9.1	10.5	-115.83	323.5	87.0	369.5	351.1	18.46	20.022		
4,900.0	4,894.5	4,886.9	4,871.2	9.3	10.7	-115.60	331.3	90.8	377.9	359.1	18.85	20.053		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	4,994.3	4,986.6	4,970.5	9.5	10.9	-115.39	339.1	94.6	386.3	367.1	19.24	20.083		
5,100.0	5,094.2	5,086.2	5,069.7	9.7	11.2	-115.18	346.8	98.4	394.7	375.1	19.63	20.113		
5,200.0	5,194.1	5,185.8	5,169.0	9.9	11.4	-114.98	354.6	102.1	403.1	383.1	20.02	20.141		
5,300.0	5,293.9	5,285.5	5,268.3	10.1	11.6	-114.79	362.4	105.9	411.6	391.1	20.41	20.169		
5,400.0	5,393.8	5,385.1	5,367.5	10.3	11.9	-114.61	370.2	109.7	420.0	399.2	20.80	20.196		
5,500.0	5,493.7	5,484.7	5,466.8	10.5	12.1	-114.44	378.0	113.5	428.4	407.2	21.18	20.222		
5,600.0	5,593.5	5,584.4	5,566.0	10.7	12.3	-114.27	385.7	117.3	436.8	415.2	21.57	20.247		
5,700.0	5,693.4	5,684.0	5,665.3	10.9	12.5	-114.11	393.5	121.1	445.2	423.3	21.96	20.272		
5,800.0	5,793.3	5,783.6	5,764.6	11.1	12.8	-113.95	401.3	124.9	453.7	431.3	22.35	20.296		
5,900.0	5,893.1	5,883.3	5,863.8	11.3	13.0	-113.80	409.1	128.6	462.1	439.4	22.74	20.319		
6,000.0	5,993.0	5,982.9	5,963.1	11.5	13.2	-113.66	416.8	132.4	470.6	447.4	23.13	20.342		
6,100.0	6,092.8	6,082.6	6,062.3	11.7	13.5	-113.52	424.6	136.2	479.0	455.5	23.52	20.364		
6,200.0	6,192.7	6,182.2	6,161.6	11.9	13.7	-113.38	432.4	140.0	487.4	463.5	23.91	20.385		
6,300.0	6,292.6	6,281.8	6,260.9	12.1	13.9	-113.25	440.2	143.8	495.9	471.6	24.30	20.406		
6,400.0	6,392.4	6,381.5	6,360.1	12.3	14.2	-113.12	448.0	147.6	504.3	479.6	24.69	20.426		
6,500.0	6,492.3	6,481.1	6,459.4	12.5	14.4	-113.00	455.7	151.4	512.8	487.7	25.08	20.446		
6,600.0	6,592.2	6,580.7	6,558.6	12.7	14.6	-112.89	463.5	155.1	521.2	495.8	25.47	20.466		
6,700.0	6,692.0	6,680.4	6,657.9	12.9	14.8	-112.77	471.3	158.9	529.7	503.8	25.86	20.484		
6,800.0	6,791.9	6,780.0	6,757.2	13.1	15.1	-112.66	479.1	162.7	538.2	511.9	26.25	20.503		
6,900.0	6,891.8	6,879.6	6,856.4	13.3	15.3	-112.55	486.9	166.5	546.6	520.0	26.64	20.520		
7,000.0	6,991.6	6,979.3	6,955.7	13.5	15.5	-112.45	494.6	170.3	555.1	528.1	27.03	20.538		
7,100.0	7,091.5	7,078.9	7,054.9	13.7	15.8	-112.35	502.4	174.1	563.5	536.1	27.42	20.555		
7,172.4	7,163.8	7,250.0	7,225.5	13.8	16.0	-112.43	506.5	180.6	569.3	541.5	27.87	20.425		
7,200.0	7,191.4	7,700.0	7,611.3	13.9	15.0	-76.77	298.5	195.3	555.7	527.4	28.33	19.617		
7,250.0	7,241.1	7,890.1	7,704.9	14.0	14.7	-76.72	134.0	198.9	511.9	484.6	27.31	18.744		
7,300.0	7,290.3	7,928.1	7,716.8	14.0	14.7	-91.59	97.9	199.3	465.1	438.4	26.72	17.403		
7,350.0	7,338.5	7,932.1	7,717.9	14.1	14.7	-102.16	94.2	199.4	418.4	391.8	26.68	15.685		
7,400.0	7,385.5	7,923.7	7,715.5	14.2	14.7	-108.38	102.2	199.3	372.7	346.0	26.70	13.959		
7,450.0	7,430.8	7,909.5	7,711.3	14.3	14.7	-111.58	115.8	199.1	328.4	301.7	26.67	12.314		
7,500.0	7,474.1	7,892.0	7,705.6	14.5	14.7	-112.59	132.2	198.9	286.1	259.5	26.62	10.751		
7,550.0	7,515.0	7,872.7	7,698.7	14.6	14.7	-111.81	150.3	198.6	246.9	220.2	26.62	9.273		
7,600.0	7,553.3	7,852.1	7,690.6	14.8	14.7	-109.45	169.3	198.3	211.9	185.1	26.75	7.921		
7,650.0	7,588.7	7,830.6	7,681.5	15.0	14.7	-105.54	188.8	198.0	183.1	156.0	27.07	6.765		
7,700.0	7,620.9	7,808.4	7,671.4	15.2	14.8	-100.11	208.4	197.6	163.2	135.7	27.57	5.920		
7,750.0	7,649.6	7,785.9	7,660.3	15.5	14.8	-93.25	228.1	197.2	154.9	126.8	28.17	5.499		
7,757.8	7,653.8	7,782.3	7,658.5	15.5	14.8	-92.07	231.1	197.1	154.8	126.5	28.27	5.475 SF		
7,800.0	7,674.7	7,762.9	7,648.3	15.8	14.9	-85.20	247.6	196.7	159.1	130.5	28.67	5.551		
7,850.0	7,695.9	7,739.7	7,635.3	16.1	14.9	-76.43	266.8	196.2	174.1	145.3	28.80	6.046		
7,900.0	7,713.1	7,716.3	7,621.4	16.5	15.0	-67.59	285.7	195.7	196.6	168.2	28.40	6.923		
7,950.0	7,726.1	7,692.7	7,606.7	16.9	15.0	-59.27	304.1	195.1	223.7	196.2	27.49	8.136		
8,000.0	7,734.9	7,669.0	7,591.1	17.4	15.1	-51.88	322.0	194.5	253.1	226.8	26.23	9.647		
8,050.0	7,739.4	7,650.0	7,578.1	17.9	15.2	-46.21	335.8	194.0	283.6	258.6	25.00	11.341		
8,076.4	7,740.0	7,632.5	7,565.7	18.2	15.2	-42.66	348.2	193.6	299.7	275.5	24.15	12.412		
8,100.0	7,740.0	7,621.4	7,557.6	18.4	15.3	-41.41	355.8	193.2	314.4	290.4	24.02	13.090		
8,200.0	7,740.0	7,579.1	7,525.7	19.6	15.4	-37.01	383.5	192.0	381.9	358.2	23.63	16.162		
8,300.0	7,740.0	7,550.0	7,502.6	20.8	15.5	-34.32	401.1	191.1	456.1	432.4	23.62	19.311		
8,400.0	7,740.0	7,513.0	7,471.9	22.1	15.6	-31.29	421.8	190.0	535.0	511.6	23.42	22.839		
8,500.0	7,740.0	7,487.0	7,449.6	23.4	15.7	-29.39	435.1	189.1	617.6	594.1	23.52	26.262		
8,600.0	7,740.0	7,464.6	7,429.9	24.8	15.7	-27.89	445.7	188.4	703.1	679.4	23.70	29.669		
8,700.0	7,740.0	7,450.0	7,416.9	26.3	15.8	-26.98	452.3	187.9	790.8	766.8	24.05	32.876		
8,800.0	7,740.0	7,428.1	7,397.0	27.8	15.8	-25.70	461.4	187.1	880.2	856.0	24.24	36.316		
8,900.0	7,740.0	7,400.0	7,371.0	29.3	15.9	-24.21	472.1	186.1	971.3	947.0	24.29	39.992		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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
9,000.0	7,740.0	7,400.0	7,371.0	30.8	15.9	-24.21	472.1	186.1	1,063.0	1,038.1	24.94	42.629	
9,100.0	7,740.0	7,400.0	7,371.0	32.4	15.9	-24.21	472.1	186.1	1,156.1	1,130.5	25.59	45.173	
9,200.0	7,740.0	7,377.4	7,349.7	33.9	15.9	-23.11	479.7	185.3	1,249.6	1,223.9	25.72	48.582	
9,300.0	7,740.0	7,367.8	7,340.6	35.5	15.9	-22.68	482.7	185.0	1,344.0	1,317.8	26.14	51.411	
9,400.0	7,740.0	7,350.0	7,323.6	37.2	16.0	-21.90	487.8	184.3	1,439.0	1,412.7	26.37	54.574	
9,500.0	7,740.0	7,350.0	7,323.6	38.8	16.0	-21.90	487.8	184.3	1,534.4	1,507.4	26.99	56.847	
9,600.0	7,740.0	7,350.0	7,323.6	40.4	16.0	-21.90	487.8	184.3	1,630.2	1,602.6	27.62	59.030	
9,700.0	7,740.0	7,350.0	7,323.6	42.0	16.0	-21.90	487.8	184.3	1,726.6	1,698.4	28.25	61.125	
9,800.0	7,740.0	7,350.0	7,323.6	43.7	16.0	-21.90	487.8	184.3	1,823.3	1,794.5	28.88	63.135	
9,900.0	7,740.0	7,325.9	7,300.3	45.4	16.0	-20.93	493.9	183.4	1,919.8	1,890.9	28.88	66.472	
10,000.0	7,740.0	7,320.8	7,295.3	47.0	16.0	-20.74	495.0	183.2	2,016.8	1,987.5	29.36	68.690	
10,100.0	7,740.0	7,300.0	7,275.0	48.7	16.0	-19.98	499.3	182.5	2,114.4	2,085.0	29.44	71.815	
10,200.0	7,740.0	7,300.0	7,275.0	50.4	16.0	-19.98	499.3	182.5	2,211.8	2,181.7	30.04	73.637	
10,300.0	7,740.0	7,300.0	7,275.0	52.1	16.0	-19.98	499.3	182.5	2,309.3	2,278.7	30.63	75.391	
10,400.0	7,740.0	7,300.0	7,275.0	53.7	16.0	-19.98	499.3	182.5	2,407.1	2,375.9	31.23	77.081	
10,500.0	7,740.0	7,300.0	7,275.0	55.4	16.0	-19.98	499.3	182.5	2,505.1	2,473.2	31.83	78.709	
10,600.0	7,740.0	7,300.0	7,275.0	57.1	16.0	-19.98	499.3	182.5	2,603.2	2,570.7	32.43	80.278	
10,700.0	7,740.0	7,300.0	7,275.0	58.8	16.0	-19.98	499.3	182.5	2,701.4	2,668.4	33.03	81.791	
10,800.0	7,740.0	7,300.0	7,275.0	60.5	16.0	-19.98	499.3	182.5	2,799.8	2,766.1	33.63	83.250	
10,900.0	7,740.0	7,300.0	7,275.0	62.2	16.0	-19.98	499.3	182.5	2,898.2	2,864.0	34.23	84.659	
11,000.0	7,740.0	7,300.0	7,275.0	63.9	16.0	-19.98	499.3	182.5	2,996.8	2,962.0	34.84	86.019	
11,100.0	7,740.0	7,300.0	7,275.0	65.7	16.0	-19.98	499.3	182.5	3,095.5	3,060.1	35.45	87.332	
11,200.0	7,740.0	7,300.0	7,275.0	67.4	16.0	-19.98	499.3	182.5	3,194.3	3,158.2	36.05	88.602	
11,300.0	7,740.0	7,277.6	7,252.9	69.1	16.0	-19.22	503.1	181.6	3,292.6	3,256.7	35.89	91.733	
11,400.0	7,740.0	7,275.4	7,250.7	70.8	16.0	-19.15	503.4	181.5	3,391.4	3,355.0	36.41	93.146	
11,500.0	7,740.0	7,273.4	7,248.7	72.5	16.0	-19.09	503.7	181.5	3,490.2	3,453.3	36.93	94.519	
11,600.0	7,740.0	7,250.0	7,225.5	74.2	16.0	-18.37	506.5	180.6	3,589.6	3,552.9	36.74	97.714	
11,700.0	7,740.0	7,250.0	7,225.5	76.0	16.0	-18.37	506.5	180.6	3,688.5	3,651.2	37.30	98.877	
11,800.0	7,740.0	7,250.0	7,225.5	77.7	16.0	-18.37	506.5	180.6	3,787.4	3,749.5	37.87	100.006	
11,900.0	7,740.0	7,250.0	7,225.5	79.4	16.0	-18.37	506.5	180.6	3,886.4	3,848.0	38.44	101.102	
12,000.0	7,740.0	7,250.0	7,225.5	81.1	16.0	-18.37	506.5	180.6	3,985.5	3,946.5	39.01	102.165	
12,100.0	7,740.0	7,250.0	7,225.5	82.9	16.0	-18.37	506.5	180.6	4,084.6	4,045.0	39.58	103.197	
12,200.0	7,740.0	7,250.0	7,225.5	84.6	16.0	-18.37	506.5	180.6	4,183.7	4,143.5	40.15	104.201	
12,300.0	7,740.0	7,250.0	7,225.5	86.3	16.0	-18.37	506.5	180.6	4,282.9	4,242.2	40.72	105.175	
12,400.0	7,740.0	7,250.0	7,225.5	88.0	16.0	-18.37	506.5	180.6	4,382.1	4,340.8	41.29	106.123	
12,500.0	7,740.0	7,250.0	7,225.5	89.8	16.0	-18.37	506.5	180.6	4,481.3	4,439.5	41.86	107.045	
12,600.0	7,740.0	7,250.0	7,225.5	91.5	16.0	-18.37	506.5	180.6	4,580.6	4,538.2	42.44	107.941	
12,700.0	7,740.0	7,250.0	7,225.5	93.2	16.0	-18.37	506.5	180.6	4,679.9	4,636.9	43.01	108.814	
12,800.0	7,740.0	7,250.0	7,225.5	95.0	16.0	-18.37	506.5	180.6	4,779.3	4,735.7	43.58	109.663	
12,900.0	7,740.0	7,250.0	7,225.5	96.7	16.0	-18.37	506.5	180.6	4,878.6	4,834.5	44.15	110.490	
13,000.0	7,740.0	7,250.0	7,225.5	98.4	16.0	-18.37	506.5	180.6	4,978.0	4,933.3	44.73	111.296	
13,100.0	7,740.0	7,250.0	7,225.5	100.2	16.0	-18.37	506.5	180.6	5,077.4	5,032.1	45.30	112.081	
13,200.0	7,740.0	7,250.0	7,225.5	101.9	16.0	-18.37	506.5	180.6	5,176.9	5,131.0	45.88	112.846	
13,300.0	7,740.0	7,250.0	7,225.5	103.6	16.0	-18.37	506.5	180.6	5,276.3	5,229.9	46.45	113.592	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	0.4	-60.2	60.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.4	-60.2	60.2	59.9	0.30	198.148		
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.4	-60.2	60.2	59.5	0.65	92.187		
300.0	300.0	300.0	300.0	0.5	0.5	-89.65	0.4	-60.2	60.2	59.2	1.00	60.066		
400.0	400.0	400.0	400.0	0.7	0.7	-89.65	0.4	-60.2	60.2	58.8	1.35	44.545		
500.0	500.0	500.0	500.0	0.8	0.8	-89.65	0.4	-60.2	60.2	58.5	1.70	35.398		
600.0	600.0	600.7	600.7	1.0	1.0	-88.99	1.0	-59.6	59.6	57.6	2.05	29.080		
700.0	700.0	701.3	701.2	1.2	1.2	176.39	3.1	-57.9	58.9	56.5	2.40	24.514		
738.2	738.2	739.7	739.6	1.3	1.3	177.60	4.2	-57.0	58.8	56.3	2.54	23.177 CC		
800.0	800.0	801.8	801.6	1.4	1.4	-180.00	6.5	-55.1	59.0	56.3	2.76	21.398 ES		
897.7	897.5	899.8	899.5	1.6	1.6	-175.19	11.1	-51.3	60.2	57.1	3.11	19.349		
900.0	899.9	902.2	901.8	1.6	1.6	-175.06	11.3	-51.2	60.3	57.2	3.12	19.309		
1,000.0	999.7	1,002.4	1,001.8	1.7	1.8	-169.02	17.4	-46.2	62.1	58.6	3.50	17.742		
1,100.0	1,099.6	1,102.4	1,101.3	1.9	2.0	-161.89	24.8	-40.1	64.1	60.2	3.90	16.442		
1,200.0	1,199.5	1,202.2	1,200.4	2.1	2.2	-153.83	33.5	-32.9	66.8	62.5	4.32	15.460		
1,300.0	1,299.3	1,301.6	1,299.1	2.3	2.5	-145.86	42.9	-25.1	70.8	66.0	4.76	14.881		
1,400.0	1,399.2	1,401.1	1,397.8	2.5	2.7	-138.85	52.3	-17.4	75.9	70.7	5.19	14.631		
1,500.0	1,499.1	1,500.5	1,496.6	2.7	3.0	-132.80	61.7	-9.7	82.1	76.5	5.62	14.605		
1,600.0	1,598.9	1,600.0	1,595.3	2.9	3.3	-127.63	71.0	-2.0	89.0	83.0	6.05	14.725		
1,700.0	1,698.8	1,699.5	1,694.0	3.1	3.5	-123.24	80.4	5.7	96.6	90.1	6.46	14.938		
1,800.0	1,798.6	1,798.9	1,792.7	3.3	3.8	-119.50	89.8	13.5	104.6	97.7	6.88	15.206		
1,900.0	1,898.5	1,898.4	1,891.4	3.5	4.0	-116.30	99.1	21.2	113.0	105.7	7.29	15.506		
2,000.0	1,998.4	1,997.8	1,990.1	3.7	4.3	-113.56	108.5	28.9	121.7	114.0	7.70	15.820		
2,100.0	2,098.2	2,097.3	2,088.9	3.9	4.6	-111.18	117.9	36.6	130.7	122.6	8.10	16.138		
2,200.0	2,198.1	2,196.8	2,187.6	4.1	4.8	-109.11	127.3	44.4	139.9	131.4	8.50	16.453		
2,300.0	2,298.0	2,296.2	2,286.3	4.2	5.1	-107.30	136.6	52.1	149.2	140.3	8.90	16.761		
2,400.0	2,397.8	2,395.7	2,385.0	4.4	5.4	-105.70	146.0	59.8	158.6	149.3	9.30	17.060		
2,500.0	2,497.7	2,495.2	2,483.7	4.6	5.6	-104.28	155.4	67.5	168.2	158.5	9.69	17.347		
2,600.0	2,597.6	2,594.6	2,582.4	4.8	5.9	-103.01	164.8	75.2	177.8	167.7	10.09	17.622		
2,700.0	2,697.4	2,694.1	2,681.2	5.0	6.2	-101.88	174.1	83.0	187.5	177.0	10.49	17.886		
2,800.0	2,797.3	2,793.5	2,779.9	5.2	6.5	-100.85	183.5	90.7	197.3	186.4	10.88	18.137		
2,900.0	2,897.2	2,893.0	2,878.6	5.4	6.7	-99.93	192.9	98.4	207.2	195.9	11.27	18.376		
3,000.0	2,997.0	2,992.5	2,977.3	5.6	7.0	-99.09	202.3	106.1	217.1	205.4	11.67	18.605		
3,100.0	3,096.9	3,091.9	3,076.0	5.8	7.3	-98.32	211.6	113.8	227.0	214.9	12.06	18.822		
3,200.0	3,196.8	3,191.4	3,174.7	6.0	7.5	-97.61	221.0	121.6	237.0	224.5	12.45	19.029		
3,300.0	3,296.6	3,290.8	3,273.5	6.2	7.8	-96.97	230.4	129.3	247.0	234.1	12.85	19.226		
3,400.0	3,396.5	3,390.3	3,372.2	6.4	8.1	-96.37	239.7	137.0	257.0	243.8	13.24	19.414		
3,500.0	3,496.4	3,489.8	3,470.9	6.6	8.4	-95.82	249.1	144.7	267.1	253.4	13.63	19.594		
3,600.0	3,596.2	3,589.2	3,569.6	6.8	8.6	-95.30	258.5	152.4	277.2	263.1	14.02	19.765		
3,700.0	3,696.1	3,688.7	3,668.3	7.0	8.9	-94.83	267.9	160.2	287.3	272.8	14.41	19.928		
3,800.0	3,796.0	3,788.1	3,767.0	7.2	9.2	-94.39	277.2	167.9	297.4	282.6	14.81	20.085		
3,900.0	3,895.8	3,887.6	3,865.8	7.4	9.4	-93.97	286.6	175.6	307.5	292.3	15.20	20.234		
4,000.0	3,995.7	3,987.1	3,964.5	7.6	9.7	-93.58	296.0	183.3	317.7	302.1	15.59	20.377		
4,100.0	4,095.5	4,086.5	4,063.2	7.8	10.0	-93.22	305.4	191.0	327.8	311.9	15.98	20.514		
4,200.0	4,195.4	4,186.0	4,161.9	8.0	10.3	-92.88	314.7	198.8	338.0	321.6	16.37	20.645		
4,300.0	4,295.3	4,285.5	4,260.6	8.2	10.5	-92.56	324.1	206.5	348.2	331.4	16.76	20.770		
4,400.0	4,395.1	4,384.9	4,359.3	8.4	10.8	-92.25	333.5	214.2	358.4	341.2	17.16	20.891		
4,500.0	4,495.0	4,484.4	4,458.1	8.6	11.1	-91.96	342.9	221.9	368.6	351.1	17.55	21.007		
4,600.0	4,594.9	4,583.8	4,556.8	8.8	11.4	-91.69	352.2	229.6	378.8	360.9	17.94	21.118		
4,700.0	4,694.7	4,683.3	4,655.5	8.9	11.6	-91.44	361.6	237.4	389.1	370.7	18.33	21.225		
4,800.0	4,794.6	4,782.8	4,754.2	9.1	11.9	-91.19	371.0	245.1	399.3	380.6	18.72	21.328		
4,900.0	4,894.5	4,882.2	4,852.9	9.3	12.2	-90.96	380.4	252.8	409.5	390.4	19.11	21.427		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,000.0	4,994.3	4,981.7	4,951.6	9.5	12.5	-90.74	389.7	260.5	419.8	400.3	19.50	21.523		
5,100.0	5,094.2	5,081.1	5,050.4	9.7	12.7	-90.53	399.1	268.2	430.0	410.1	19.89	21.615		
5,200.0	5,194.1	5,180.6	5,149.1	9.9	13.0	-90.33	408.5	276.0	440.3	420.0	20.29	21.704		
5,300.0	5,293.9	5,280.1	5,247.8	10.1	13.3	-90.14	417.8	283.7	450.5	429.9	20.68	21.790		
5,400.0	5,393.8	5,379.5	5,346.5	10.3	13.5	-89.96	427.2	291.4	460.8	439.7	21.07	21.872		
5,500.0	5,493.7	5,479.0	5,445.2	10.5	13.8	-89.78	436.6	299.1	471.1	449.6	21.46	21.952		
5,600.0	5,593.5	5,578.4	5,543.9	10.7	14.1	-89.61	446.0	306.8	481.4	459.5	21.85	22.030		
5,700.0	5,693.4	5,677.9	5,642.7	10.9	14.4	-89.45	455.3	314.6	491.6	469.4	22.24	22.104		
5,800.0	5,793.3	5,777.4	5,741.4	11.1	14.6	-89.30	464.7	322.3	501.9	479.3	22.63	22.177		
5,900.0	5,893.1	5,876.8	5,840.1	11.3	14.9	-89.15	474.1	330.0	512.2	489.2	23.02	22.247		
6,000.0	5,993.0	5,976.3	5,938.8	11.5	15.2	-89.01	483.5	337.7	522.5	499.1	23.42	22.315		
6,100.0	6,092.8	6,075.7	6,037.5	11.7	15.5	-88.88	492.8	345.4	532.8	509.0	23.81	22.381		
6,200.0	6,192.7	6,175.2	6,136.2	11.9	15.7	-88.74	502.2	353.2	543.1	518.9	24.20	22.444		
6,300.0	6,292.6	6,274.7	6,235.0	12.1	16.0	-88.62	511.6	360.9	553.4	528.8	24.59	22.506		
6,400.0	6,392.4	6,374.1	6,333.7	12.3	16.3	-88.50	521.0	368.6	563.7	538.7	24.98	22.566		
6,500.0	6,492.3	6,473.6	6,432.4	12.5	16.6	-88.38	530.3	376.3	574.0	548.6	25.37	22.624		
6,600.0	6,592.2	6,573.1	6,531.1	12.7	16.8	-88.27	539.7	384.1	584.3	558.5	25.76	22.681		
6,700.0	6,692.0	6,672.5	6,629.8	12.9	17.1	-88.16	549.1	391.8	594.6	568.5	26.15	22.736		
6,800.0	6,791.9	6,772.0	6,728.5	13.1	17.4	-88.05	558.4	399.5	604.9	578.4	26.54	22.789		
6,900.0	6,891.8	6,871.4	6,827.3	13.3	17.7	-87.95	567.8	407.2	615.2	588.3	26.94	22.841		
7,000.0	6,991.6	7,913.5	7,500.0	13.5	16.6	-8.32	-38.0	459.8	526.6	500.5	26.10	20.178		
7,100.0	7,091.5	7,914.1	7,500.0	13.7	16.6	-8.01	-38.6	459.8	429.4	403.1	26.27	16.345		
7,172.4	7,163.8	7,914.5	7,500.0	13.8	16.6	-7.78	-39.0	459.8	359.9	333.5	26.39	13.637		
7,200.0	7,191.4	7,914.0	7,500.0	13.9	16.6	46.40	-38.5	459.8	333.8	307.4	26.37	12.660		
7,250.0	7,241.1	7,909.8	7,500.0	14.0	16.6	86.08	-34.3	459.8	287.4	260.8	26.59	10.807		
7,300.0	7,290.3	7,901.2	7,500.0	14.0	16.5	99.91	-25.7	459.8	242.8	215.9	26.82	9.052		
7,350.0	7,338.5	7,888.3	7,500.0	14.1	16.5	105.18	-12.8	459.8	201.2	174.3	26.94	7.469		
7,400.0	7,385.5	7,870.6	7,500.0	14.2	16.5	105.14	4.9	459.8	164.4	137.4	26.93	6.103		
7,450.0	7,430.8	7,846.6	7,499.4	14.3	16.4	99.88	28.9	459.8	134.7	107.9	26.85	5.017		
7,500.0	7,474.1	7,822.3	7,497.7	14.5	16.4	92.09	53.1	459.6	116.4	89.6	26.84	4.337		
7,532.3	7,500.8	7,806.6	7,496.1	14.5	16.4	85.87	68.8	459.5	112.9	86.0	26.84	4.204 SF		
7,550.0	7,515.0	7,798.0	7,495.0	14.6	16.4	82.17	77.3	459.4	113.9	87.1	26.82	4.247		
7,600.0	7,553.3	7,773.5	7,491.3	14.8	16.4	71.01	101.5	459.1	127.0	100.4	26.63	4.770		
7,650.0	7,588.7	7,750.0	7,486.8	15.0	16.4	60.20	124.5	458.8	150.7	124.6	26.08	5.779		
7,700.0	7,620.9	7,724.4	7,480.8	15.2	16.4	49.86	149.4	458.3	180.0	154.9	25.14	7.160		
7,750.0	7,649.6	7,700.0	7,474.0	15.5	16.4	41.54	172.9	457.8	211.8	187.8	23.96	8.838		
7,800.0	7,674.7	7,675.1	7,466.1	15.8	16.5	34.81	196.4	457.2	244.4	221.7	22.71	10.762		
7,850.0	7,695.9	7,650.0	7,457.1	16.1	16.5	29.48	219.9	456.5	276.9	255.4	21.48	12.889		
7,900.0	7,713.1	7,625.7	7,447.4	16.5	16.6	25.36	242.1	455.7	308.7	288.3	20.41	15.126		
7,950.0	7,726.1	7,600.0	7,436.1	16.9	16.6	21.99	265.2	454.8	339.5	320.0	19.51	17.403		
8,000.0	7,734.9	7,576.2	7,424.8	17.4	16.7	19.39	286.1	453.9	369.0	350.1	18.88	19.541		
8,050.0	7,739.4	7,550.0	7,411.3	17.9	16.7	17.18	308.6	452.9	397.1	378.6	18.52	21.437		
8,076.4	7,740.0	7,538.4	7,405.0	18.2	16.8	16.25	318.4	452.4	411.3	392.8	18.48	22.260		
8,100.0	7,740.0	7,526.8	7,398.5	18.4	16.8	15.91	327.9	451.9	424.0	405.5	18.49	22.933		
8,200.0	7,740.0	7,481.3	7,371.3	19.6	17.0	14.57	364.3	449.8	482.1	463.5	18.55	25.983		
8,300.0	7,740.0	7,450.0	7,350.9	20.8	17.1	13.67	388.0	448.2	546.3	527.6	18.71	29.198		
8,400.0	7,740.0	7,400.0	7,315.7	22.1	17.2	12.30	423.4	445.4	615.5	596.7	18.74	32.847		
8,500.0	7,740.0	7,373.9	7,296.2	23.4	17.3	11.62	440.6	443.9	688.9	670.0	18.92	36.404		
8,600.0	7,740.0	7,350.0	7,277.7	24.8	17.4	11.03	455.6	442.4	765.9	746.8	19.12	40.062		
8,700.0	7,740.0	7,321.4	7,254.7	26.3	17.5	10.34	472.5	440.6	845.8	826.5	19.28	43.875		
8,800.0	7,740.0	7,300.0	7,236.9	27.8	17.5	9.86	484.4	439.3	928.2	908.7	19.48	47.652		
8,900.0	7,740.0	7,279.8	7,219.8	29.3	17.6	9.41	495.0	437.9	1,012.6	992.9	19.68	51.446		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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				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	7,250.0	7,193.8	30.8	17.7	8.79	509.5	435.9	1,099.0	1,079.2	19.82	55.443	
9,100.0	7,740.0	7,250.0	7,193.8	32.4	17.7	8.79	509.5	435.9	1,186.5	1,166.4	20.15	58.896	
9,200.0	7,740.0	7,232.1	7,177.8	33.9	17.7	8.44	517.6	434.6	1,275.4	1,255.1	20.35	62.672	
9,300.0	7,740.0	7,219.1	7,166.1	35.5	17.8	8.19	523.1	433.7	1,365.5	1,344.9	20.58	66.337	
9,400.0	7,740.0	7,200.0	7,148.7	37.2	17.8	7.83	530.7	432.4	1,456.5	1,435.8	20.77	70.116	
9,500.0	7,740.0	7,200.0	7,148.7	38.8	17.8	7.83	530.7	432.4	1,548.3	1,527.2	21.08	73.440	
9,600.0	7,740.0	7,200.0	7,148.7	40.4	17.8	7.83	530.7	432.4	1,641.0	1,619.6	21.39	76.712	
9,700.0	7,740.0	7,177.5	7,127.9	42.0	17.8	7.43	539.0	430.7	1,734.0	1,712.4	21.54	80.484	
9,800.0	7,740.0	7,169.1	7,120.0	43.7	17.9	7.29	541.8	430.1	1,827.7	1,805.9	21.79	83.880	
9,900.0	7,740.0	7,150.0	7,101.9	45.4	17.9	6.97	547.9	428.7	1,922.0	1,900.1	21.96	87.532	
10,000.0	7,740.0	7,150.0	7,101.9	47.0	17.9	6.97	547.9	428.7	2,016.6	1,994.3	22.25	90.620	
10,100.0	7,740.0	7,150.0	7,101.9	48.7	17.9	6.97	547.9	428.7	2,111.6	2,089.0	22.55	93.650	
10,200.0	7,740.0	7,150.0	7,101.9	50.4	17.9	6.97	547.9	428.7	2,207.0	2,184.2	22.84	96.623	
10,300.0	7,740.0	7,150.0	7,101.9	52.1	17.9	6.97	547.9	428.7	2,302.9	2,279.8	23.14	99.537	
10,400.0	7,740.0	7,150.0	7,101.9	53.7	17.9	6.97	547.9	428.7	2,399.1	2,375.6	23.43	102.394	
10,500.0	7,740.0	7,125.1	7,078.1	55.4	17.9	6.57	555.0	426.8	2,494.9	2,471.4	23.53	106.042	
10,600.0	7,740.0	7,100.0	7,053.8	57.1	17.9	6.19	561.0	424.9	2,591.8	2,568.2	23.63	109.696	
10,700.0	7,740.0	7,100.0	7,053.8	58.8	17.9	6.19	561.0	424.9	2,688.3	2,664.4	23.91	112.446	
10,800.0	7,740.0	7,100.0	7,053.8	60.5	17.9	6.19	561.0	424.9	2,785.1	2,760.9	24.19	115.144	
10,900.0	7,740.0	7,100.0	7,053.8	62.2	17.9	6.19	561.0	424.9	2,882.1	2,857.6	24.47	117.790	
11,000.0	7,740.0	7,100.0	7,053.8	63.9	17.9	6.19	561.0	424.9	2,979.3	2,954.5	24.75	120.386	
11,100.0	7,740.0	7,100.0	7,053.8	65.7	17.9	6.19	561.0	424.9	3,076.7	3,051.6	25.03	122.933	
11,200.0	7,740.0	7,100.0	7,053.8	67.4	17.9	6.19	561.0	424.9	3,174.2	3,148.9	25.31	125.431	
11,300.0	7,740.0	7,100.0	7,053.8	69.1	17.9	6.19	561.0	424.9	3,271.9	3,246.3	25.59	127.881	
11,400.0	7,740.0	7,100.0	7,053.8	70.8	17.9	6.19	561.0	424.9	3,369.7	3,343.8	25.86	130.285	
11,500.0	7,740.0	7,100.0	7,053.8	72.5	17.9	6.19	561.0	424.9	3,467.6	3,441.5	26.14	132.644	
11,600.0	7,740.0	7,100.0	7,053.8	74.2	17.9	6.19	561.0	424.9	3,565.7	3,539.3	26.42	134.959	
11,700.0	7,740.0	7,100.0	7,053.8	76.0	17.9	6.19	561.0	424.9	3,663.8	3,637.1	26.70	137.230	
11,800.0	7,740.0	7,100.0	7,053.8	77.7	17.9	6.19	561.0	424.9	3,762.1	3,735.1	26.98	139.459	
11,900.0	7,740.0	7,077.5	7,031.8	79.4	17.9	5.87	565.5	423.2	3,859.9	3,832.9	27.03	142.792	
12,000.0	7,740.0	7,075.2	7,029.5	81.1	17.9	5.84	565.9	423.0	3,958.2	3,931.0	27.28	145.088	
12,100.0	7,740.0	7,073.0	7,027.4	82.9	17.9	5.81	566.3	422.9	4,056.6	4,029.1	27.53	147.347	
12,200.0	7,740.0	7,050.0	7,004.8	84.6	17.9	5.50	569.8	421.1	4,155.5	4,128.0	27.58	150.661	
12,300.0	7,740.0	7,050.0	7,004.8	86.3	17.9	5.50	569.8	421.1	4,254.0	4,226.1	27.85	152.761	
12,400.0	7,740.0	7,050.0	7,004.8	88.0	17.9	5.50	569.8	421.1	4,352.5	4,324.4	28.11	154.825	
12,500.0	7,740.0	7,050.0	7,004.8	89.8	17.9	5.50	569.8	421.1	4,451.1	4,422.7	28.38	156.854	
12,600.0	7,740.0	7,050.0	7,004.8	91.5	17.9	5.50	569.8	421.1	4,549.7	4,521.1	28.64	158.849	
12,700.0	7,740.0	7,050.0	7,004.8	93.2	17.9	5.50	569.8	421.1	4,648.4	4,619.5	28.91	160.810	
12,800.0	7,740.0	7,050.0	7,004.8	95.0	17.9	5.50	569.8	421.1	4,747.2	4,718.0	29.17	162.738	
12,900.0	7,740.0	7,050.0	7,004.8	96.7	17.9	5.50	569.8	421.1	4,846.0	4,816.6	29.43	164.635	
13,000.0	7,740.0	7,050.0	7,004.8	98.4	17.9	5.50	569.8	421.1	4,944.8	4,915.1	29.70	166.500	
13,100.0	7,740.0	7,050.0	7,004.8	100.2	17.9	5.50	569.8	421.1	5,043.7	5,013.8	29.96	168.335	
13,200.0	7,740.0	7,050.0	7,004.8	101.9	17.9	5.50	569.8	421.1	5,142.7	5,112.5	30.23	170.141	
13,300.0	7,740.0	7,050.0	7,004.8	103.6	17.9	5.50	569.8	421.1	5,241.7	5,211.2	30.49	171.917	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
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	300.0	300.0	0.5	0.5	-90.00	0.0	-50.1	50.1	49.1	1.00	50.007	
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-50.1	50.1	48.7	1.35	37.086	
500.0	500.0	500.0	500.0	0.8	0.8	-90.00	0.0	-50.1	50.1	48.4	1.70	29.471	
600.0	600.0	600.0	600.0	1.0	1.0	-90.00	0.0	-50.1	50.1	48.0	2.05	24.450	CC, ES
700.0	700.0	700.0	700.0	1.2	1.2	173.39	0.0	-50.1	51.0	48.6	2.40	21.255	
800.0	800.0	800.0	800.0	1.4	1.4	173.71	0.0	-50.1	53.6	50.8	2.75	19.506	
897.7	897.5	897.5	897.5	1.6	1.5	174.17	0.0	-50.1	57.8	54.7	3.09	18.727	
900.0	899.9	899.9	899.9	1.6	1.5	174.18	0.0	-50.1	57.9	54.8	3.09	18.717	
1,000.0	999.7	999.7	999.7	1.7	1.7	174.66	0.0	-50.1	63.1	59.6	3.44	18.321	
1,100.0	1,099.6	1,100.5	1,100.5	1.9	1.9	175.55	0.6	-49.4	67.6	63.8	3.79	17.818	
1,200.0	1,199.5	1,201.3	1,201.3	2.1	2.1	177.30	2.2	-47.3	70.8	66.7	4.14	17.087	
1,300.0	1,299.3	1,302.2	1,302.0	2.3	2.3	179.87	5.0	-43.9	72.9	68.4	4.50	16.200	
1,400.0	1,399.2	1,402.9	1,402.6	2.5	2.4	-176.69	8.9	-39.1	73.9	69.0	4.86	15.214	
1,500.0	1,499.1	1,503.6	1,502.9	2.7	2.6	-172.27	13.9	-32.9	74.1	68.9	5.22	14.185	
1,600.0	1,598.9	1,604.1	1,602.9	2.9	2.9	-166.76	20.0	-25.4	73.8	68.2	5.61	13.165	
1,700.0	1,698.8	1,704.3	1,702.5	3.1	3.1	-160.04	27.2	-16.5	73.5	67.5	6.01	12.216	
1,733.9	1,732.6	1,738.2	1,736.1	3.1	3.2	-157.48	29.9	-13.2	73.4	67.3	6.16	11.919	
1,800.0	1,798.6	1,804.2	1,801.6	3.3	3.3	-152.09	35.4	-6.3	73.6	67.2	6.45	11.405	
1,900.0	1,898.5	1,903.8	1,900.0	3.5	3.6	-143.04	44.7	5.2	74.9	68.0	6.93	10.810	
2,000.0	1,998.4	2,003.0	1,998.0	3.7	3.8	-133.84	54.6	17.4	78.0	70.6	7.42	10.521	
2,100.0	2,098.2	2,102.2	2,095.9	3.9	4.1	-125.53	64.4	29.5	83.0	75.1	7.90	10.512	SF
2,200.0	2,198.1	2,201.3	2,193.9	4.1	4.4	-118.29	74.3	41.7	89.6	81.2	8.36	10.711	
2,300.0	2,298.0	2,300.5	2,291.8	4.2	4.7	-112.10	84.1	53.9	97.3	88.5	8.81	11.052	
2,400.0	2,397.8	2,399.7	2,389.7	4.4	5.0	-106.87	94.0	66.1	106.1	96.8	9.24	11.486	
2,500.0	2,497.7	2,498.9	2,487.7	4.6	5.3	-102.47	103.9	78.2	115.6	105.9	9.65	11.975	
2,600.0	2,597.6	2,598.1	2,585.6	4.8	5.6	-98.74	113.7	90.4	125.6	115.6	10.06	12.493	
2,700.0	2,697.4	2,697.3	2,683.6	5.0	5.9	-95.58	123.6	102.6	136.1	125.7	10.45	13.024	
2,800.0	2,797.3	2,796.5	2,781.5	5.2	6.2	-92.87	133.4	114.8	147.0	136.1	10.84	13.554	
2,900.0	2,897.2	2,895.6	2,879.5	5.4	6.5	-90.54	143.3	126.9	158.1	146.9	11.23	14.077	
3,000.0	2,997.0	2,994.8	2,977.4	5.6	6.8	-88.51	153.1	139.1	169.5	157.9	11.62	14.588	
3,100.0	3,096.9	3,094.0	3,075.3	5.8	7.1	-86.75	163.0	151.3	181.1	169.1	12.00	15.083	
3,200.0	3,196.8	3,193.2	3,173.3	6.0	7.4	-85.19	172.8	163.5	192.8	180.4	12.39	15.561	
3,300.0	3,296.6	3,292.4	3,271.2	6.2	7.8	-83.82	182.7	175.6	204.6	191.8	12.77	16.022	
3,400.0	3,396.5	3,391.6	3,369.2	6.4	8.1	-82.59	192.5	187.8	216.5	203.4	13.15	16.464	
3,500.0	3,496.4	3,490.7	3,467.1	6.6	8.4	-81.50	202.4	200.0	228.5	215.0	13.53	16.889	
3,600.0	3,596.2	3,589.9	3,565.0	6.8	8.7	-80.51	212.2	212.2	240.6	226.7	13.91	17.295	
3,700.0	3,696.1	3,689.1	3,663.0	7.0	9.0	-79.62	222.1	224.3	252.8	238.5	14.29	17.685	
3,800.0	3,796.0	3,788.3	3,760.9	7.2	9.3	-78.80	231.9	236.5	265.0	250.3	14.67	18.059	
3,900.0	3,895.8	3,887.5	3,858.9	7.4	9.7	-78.06	241.8	248.7	277.3	262.2	15.05	18.417	
4,000.0	3,995.7	3,986.7	3,956.8	7.6	10.0	-77.39	251.6	260.9	289.6	274.1	15.43	18.760	
4,100.0	4,095.5	4,085.9	4,054.7	7.8	10.3	-76.77	261.5	273.0	301.9	286.1	15.82	19.089	
4,200.0	4,195.4	4,185.0	4,152.7	8.0	10.6	-76.19	271.3	285.2	314.3	298.1	16.20	19.404	
4,300.0	4,295.3	4,284.2	4,250.6	8.2	10.9	-75.66	281.2	297.4	326.7	310.1	16.58	19.707	
4,400.0	4,395.1	4,383.4	4,348.6	8.4	11.3	-75.17	291.0	309.6	339.1	322.1	16.96	19.997	
4,500.0	4,495.0	4,482.6	4,446.5	8.6	11.6	-74.72	300.9	321.7	351.5	334.2	17.34	20.276	
4,600.0	4,594.9	4,581.8	4,544.4	8.8	11.9	-74.29	310.7	333.9	364.0	346.3	17.72	20.544	
4,700.0	4,694.7	4,681.0	4,642.4	8.9	12.2	-73.90	320.6	346.1	376.5	358.4	18.10	20.802	
4,800.0	4,794.6	4,780.2	4,740.3	9.1	12.5	-73.53	330.4	358.3	389.0	370.5	18.48	21.050	
4,900.0	4,894.5	4,879.3	4,838.3	9.3	12.9	-73.18	340.3	370.4	401.5	382.6	18.86	21.289	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	
5,000.0	4,994.3	4,978.5	4,936.2	9.5	13.2	-72.85	350.1	382.6	414.0	394.8	19.24	21.519	
5,100.0	5,094.2	5,077.7	5,034.1	9.7	13.5	-72.54	360.0	394.8	426.6	407.0	19.62	21.741	
5,200.0	5,194.1	5,176.9	5,132.1	9.9	13.8	-72.25	369.8	407.0	439.1	419.1	20.00	21.954	
5,300.0	5,293.9	5,276.1	5,230.0	10.1	14.1	-71.98	379.7	419.1	451.7	431.3	20.38	22.160	
5,400.0	5,393.8	5,375.3	5,328.0	10.3	14.5	-71.72	389.5	431.3	464.3	443.5	20.76	22.359	
5,500.0	5,493.7	5,474.4	5,425.9	10.5	14.8	-71.47	399.4	443.5	476.9	455.7	21.14	22.551	
5,600.0	5,593.5	5,573.6	5,523.9	10.7	15.1	-71.24	409.2	455.7	489.4	467.9	21.53	22.737	
5,700.0	5,693.4	5,672.8	5,621.8	10.9	15.4	-71.02	419.1	467.8	502.0	480.1	21.91	22.917	
5,800.0	5,793.3	5,772.0	5,719.7	11.1	15.7	-70.81	429.0	480.0	514.6	492.4	22.29	23.090	
5,900.0	5,893.1	5,871.2	5,817.7	11.3	16.1	-70.61	438.8	492.2	527.3	504.6	22.67	23.258	
6,000.0	5,993.0	5,970.4	5,915.6	11.5	16.4	-70.42	448.7	504.4	539.9	516.8	23.05	23.421	
6,100.0	6,092.8	6,069.6	6,013.6	11.7	16.7	-70.24	458.5	516.5	552.5	529.1	23.43	23.579	
6,200.0	6,192.7	6,168.7	6,111.5	11.9	17.0	-70.06	468.4	528.7	565.1	541.3	23.81	23.732	
6,300.0	6,292.6	6,267.9	6,209.4	12.1	17.4	-69.90	478.2	540.9	577.8	553.6	24.19	23.880	
6,400.0	6,392.4	6,367.1	6,307.4	12.3	17.7	-69.74	488.1	553.1	590.4	565.8	24.58	24.024	
6,500.0	6,492.3	6,466.3	6,405.3	12.5	18.0	-69.58	497.9	565.2	603.0	578.1	24.96	24.163	
6,600.0	6,592.2	6,565.5	6,503.3	12.7	18.3	-69.44	507.8	577.4	615.7	590.4	25.34	24.298	
6,700.0	6,692.0	6,664.7	6,601.2	12.9	18.7	-69.30	517.6	589.6	628.3	602.6	25.72	24.430	
6,800.0	6,791.9	6,763.9	6,699.1	13.1	19.0	-69.16	527.5	601.8	641.0	614.9	26.10	24.558	
6,900.0	6,891.8	6,863.0	6,797.1	13.3	19.3	-69.03	537.3	613.9	653.7	627.2	26.48	24.682	
7,000.0	6,991.6	6,962.2	6,895.0	13.5	19.6	-68.91	547.2	626.1	666.3	639.5	26.87	24.803	
7,100.0	7,091.5	7,061.4	6,993.0	13.7	19.9	-68.79	557.0	638.3	679.0	651.7	27.25	24.920	
7,172.4	7,163.8	7,133.2	7,063.9	13.8	20.2	-68.70	564.2	647.1	688.2	660.6	27.52	25.003	
7,200.0	7,191.4	7,160.6	7,091.0	13.9	20.3	-22.45	566.9	650.5	691.1	663.4	27.66	24.986	
7,250.0	7,241.1	8,152.2	7,740.0	14.0	20.4	74.12	-3.5	775.6	666.2	639.3	26.87	24.793	
7,300.0	7,290.3	8,143.8	7,740.0	14.0	20.4	87.20	4.9	775.0	628.1	601.1	27.06	23.214	
7,350.0	7,338.5	8,087.9	7,737.4	14.1	20.2	88.86	60.6	770.8	591.8	564.7	27.11	21.832	
7,400.0	7,385.5	8,045.9	7,731.9	14.2	20.2	90.14	102.1	767.1	557.2	529.9	27.22	20.469	
7,450.0	7,430.8	8,011.5	7,725.2	14.3	20.2	91.12	135.7	763.9	524.7	497.3	27.37	19.174	
7,500.0	7,474.1	7,980.6	7,717.5	14.5	20.1	91.62	165.4	760.8	494.8	467.3	27.52	17.977	
7,550.0	7,515.0	7,951.5	7,708.7	14.6	20.1	91.57	193.0	757.7	468.0	440.3	27.69	16.902	
7,600.0	7,553.3	7,923.6	7,699.0	14.8	20.1	90.99	219.0	754.6	444.6	416.8	27.87	15.953	
7,650.0	7,588.7	7,896.3	7,688.4	15.0	20.2	89.88	243.9	751.5	425.1	397.1	28.06	15.149	
7,700.0	7,620.9	7,869.5	7,676.7	15.2	20.2	88.26	267.8	748.3	409.9	381.6	28.28	14.491	
7,750.0	7,649.6	7,843.0	7,664.2	15.5	20.2	86.15	290.9	745.0	399.0	370.5	28.52	13.992	
7,800.0	7,674.7	7,816.9	7,650.7	15.8	20.2	83.60	313.1	741.7	392.8	364.0	28.78	13.648	
7,846.4	7,694.5	7,792.7	7,637.4	16.1	20.3	80.87	333.0	738.6	390.9	361.9	29.03	13.467	
7,850.0	7,695.9	7,790.9	7,636.3	16.1	20.3	80.65	334.5	738.3	390.9	361.9	29.04	13.459	
7,900.0	7,713.1	7,765.0	7,621.1	16.5	20.3	77.35	355.1	734.9	393.2	363.9	29.31	13.415	
7,950.0	7,726.1	7,739.3	7,605.1	16.9	20.3	73.78	374.9	731.4	399.3	369.7	29.57	13.502	
8,000.0	7,734.9	7,713.7	7,588.2	17.4	20.4	70.03	393.8	727.9	408.6	378.7	29.83	13.696	
8,050.0	7,739.4	7,688.1	7,570.6	17.9	20.4	66.18	411.9	724.3	420.4	390.4	30.09	13.972	
8,076.4	7,740.0	7,674.7	7,560.9	18.2	20.4	64.14	421.2	722.4	427.6	397.3	30.24	14.140	
8,100.0	7,740.0	7,662.9	7,552.4	18.4	20.4	62.97	429.0	720.7	434.6	404.2	30.33	14.329	
8,200.0	7,740.0	7,618.6	7,518.6	19.6	20.5	58.54	457.1	714.3	472.2	441.5	30.67	15.395	
8,300.0	7,740.0	7,581.7	7,488.9	20.8	20.6	54.88	478.3	708.9	521.7	490.7	31.00	16.827	
8,400.0	7,740.0	7,550.0	7,462.4	22.1	20.6	51.78	494.9	704.3	581.1	549.7	31.34	18.541	
8,500.0	7,740.0	7,524.7	7,440.6	23.4	20.6	49.38	507.2	700.6	648.3	616.5	31.75	20.415	
8,600.0	7,740.0	7,500.0	7,418.7	24.8	20.7	47.09	518.2	696.9	721.5	689.4	32.12	22.460	
8,700.0	7,740.0	7,483.3	7,403.7	26.3	20.7	45.59	525.0	694.5	799.5	766.8	32.68	24.464	
8,800.0	7,740.0	7,466.7	7,388.6	27.8	20.7	44.14	531.4	692.0	881.0	847.8	33.20	26.536	
8,900.0	7,740.0	7,450.0	7,373.2	29.3	20.7	42.71	537.4	689.6	965.5	931.8	33.69	28.658	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,000.0	7,740.0	7,450.0	7,373.2	30.8	20.7	42.71	537.4	689.6	1,052.4	1,017.6	34.74	30.291	
9,100.0	7,740.0	7,428.0	7,352.6	32.4	20.7	40.90	544.6	686.4	1,140.8	1,105.8	34.97	32.617	
9,200.0	7,740.0	7,417.9	7,343.1	33.9	20.7	40.09	547.7	684.9	1,230.8	1,195.2	35.62	34.555	
9,300.0	7,740.0	7,400.0	7,326.1	35.5	20.7	38.71	552.6	682.3	1,322.2	1,286.2	35.93	36.794	
9,400.0	7,740.0	7,400.0	7,326.1	37.2	20.7	38.71	552.6	682.3	1,414.3	1,377.4	36.95	38.281	
9,500.0	7,740.0	7,400.0	7,326.1	38.8	20.7	38.71	552.6	682.3	1,507.5	1,469.5	37.97	39.707	
9,600.0	7,740.0	7,400.0	7,326.1	40.4	20.7	38.71	552.6	682.3	1,601.5	1,562.5	38.99	41.072	
9,700.0	7,740.0	7,380.2	7,307.2	42.0	20.7	37.23	557.5	679.5	1,695.7	1,656.6	39.11	43.361	
9,800.0	7,740.0	7,374.5	7,301.7	43.7	20.7	36.82	558.7	678.7	1,790.7	1,750.8	39.84	44.942	
9,900.0	7,740.0	7,369.3	7,296.7	45.4	20.7	36.45	559.9	678.0	1,886.1	1,845.5	40.59	46.466	
10,000.0	7,740.0	7,350.0	7,277.9	47.0	20.7	35.10	563.6	675.2	1,982.2	1,941.5	40.64	48.779	
10,100.0	7,740.0	7,350.0	7,277.9	48.7	20.7	35.10	563.6	675.2	2,078.2	2,036.6	41.60	49.954	
10,200.0	7,740.0	7,350.0	7,277.9	50.4	20.7	35.10	563.6	675.2	2,174.6	2,132.1	42.57	51.079	
10,300.0	7,740.0	7,350.0	7,277.9	52.1	20.7	35.10	563.6	675.2	2,271.4	2,227.8	43.55	52.158	
10,400.0	7,740.0	7,350.0	7,277.9	53.7	20.7	35.10	563.6	675.2	2,368.3	2,323.8	44.52	53.192	
10,500.0	7,740.0	7,350.0	7,277.9	55.4	20.7	35.10	563.6	675.2	2,465.6	2,420.1	45.50	54.184	
10,600.0	7,740.0	7,350.0	7,277.9	57.1	20.7	35.10	563.6	675.2	2,563.0	2,516.5	46.49	55.136	
10,700.0	7,740.0	7,350.0	7,277.9	58.8	20.7	35.10	563.6	675.2	2,660.6	2,613.2	47.47	56.050	
10,800.0	7,740.0	7,350.0	7,277.9	60.5	20.7	35.10	563.6	675.2	2,758.4	2,710.0	48.46	56.928	
10,900.0	7,740.0	7,350.0	7,277.9	62.2	20.7	35.10	563.6	675.2	2,856.4	2,807.0	49.44	57.771	
11,000.0	7,740.0	7,350.0	7,277.9	63.9	20.7	35.10	563.6	675.2	2,954.5	2,904.1	50.43	58.583	
11,100.0	7,740.0	7,328.9	7,257.2	65.7	20.6	33.69	567.0	672.3	3,052.2	3,002.2	50.04	60.997	
11,200.0	7,740.0	7,326.7	7,255.1	67.4	20.6	33.55	567.3	672.0	3,150.5	3,099.6	50.85	61.953	
11,300.0	7,740.0	7,324.6	7,253.0	69.1	20.6	33.41	567.5	671.7	3,248.8	3,197.1	51.67	62.878	
11,400.0	7,740.0	7,322.6	7,251.1	70.8	20.6	33.29	567.8	671.4	3,347.2	3,294.7	52.49	63.773	
11,500.0	7,740.0	7,300.0	7,228.8	72.5	20.6	31.88	570.3	668.3	3,446.2	3,394.3	51.90	66.403	
11,600.0	7,740.0	7,300.0	7,228.8	74.2	20.6	31.88	570.3	668.3	3,544.7	3,491.9	52.82	67.114	
11,700.0	7,740.0	7,300.0	7,228.8	76.0	20.6	31.88	570.3	668.3	3,643.3	3,589.5	53.74	67.800	
11,800.0	7,740.0	7,300.0	7,228.8	77.7	20.6	31.88	570.3	668.3	3,741.9	3,687.3	54.66	68.464	
11,900.0	7,740.0	7,300.0	7,228.8	79.4	20.6	31.88	570.3	668.3	3,840.6	3,785.1	55.58	69.106	
12,000.0	7,740.0	7,300.0	7,228.8	81.1	20.6	31.88	570.3	668.3	3,939.4	3,882.9	56.50	69.727	
12,100.0	7,740.0	7,300.0	7,228.8	82.9	20.6	31.88	570.3	668.3	4,038.3	3,980.9	57.42	70.328	
12,200.0	7,740.0	7,300.0	7,228.8	84.6	20.6	31.88	570.3	668.3	4,137.2	4,078.9	58.34	70.910	
12,300.0	7,740.0	7,300.0	7,228.8	86.3	20.6	31.88	570.3	668.3	4,236.2	4,176.9	59.27	71.474	
12,400.0	7,740.0	7,300.0	7,228.8	88.0	20.6	31.88	570.3	668.3	4,335.2	4,275.0	60.19	72.021	
12,500.0	7,740.0	7,300.0	7,228.8	89.8	20.6	31.88	570.3	668.3	4,434.2	4,373.1	61.12	72.551	
12,600.0	7,740.0	7,300.0	7,228.8	91.5	20.6	31.88	570.3	668.3	4,533.3	4,471.3	62.04	73.065	
12,700.0	7,740.0	7,300.0	7,228.8	93.2	20.6	31.88	570.3	668.3	4,632.5	4,569.5	62.97	73.565	
12,800.0	7,740.0	7,300.0	7,228.8	95.0	20.6	31.88	570.3	668.3	4,731.6	4,667.7	63.90	74.049	
12,900.0	7,740.0	7,300.0	7,228.8	96.7	20.6	31.88	570.3	668.3	4,830.8	4,766.0	64.83	74.520	
13,000.0	7,740.0	7,300.0	7,228.8	98.4	20.6	31.88	570.3	668.3	4,930.1	4,864.3	65.75	74.978	
13,100.0	7,740.0	7,300.0	7,228.8	100.2	20.6	31.88	570.3	668.3	5,029.3	4,962.7	66.68	75.422	
13,200.0	7,740.0	7,300.0	7,228.8	101.9	20.6	31.88	570.3	668.3	5,128.6	5,061.0	67.61	75.855	
13,300.0	7,740.0	7,300.0	7,228.8	103.6	20.6	31.88	570.3	668.3	5,228.0	5,159.4	68.54	76.275	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	-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		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-40.0	40.0	39.0	1.00	39.950		
400.0	400.0	400.6	400.6	0.7	0.7	-89.48	0.4	-39.2	39.2	37.9	1.35	28.996		
500.0	500.0	501.2	501.2	0.8	0.9	-87.78	1.4	-36.8	36.8	35.1	1.71	21.587		
600.0	600.0	601.6	601.5	1.0	1.0	-84.40	3.2	-32.8	33.0	30.9	2.07	15.951		
700.0	700.0	702.0	701.6	1.2	1.2	-175.02	5.7	-27.1	28.6	26.2	2.41	11.861		
800.0	800.0	802.2	801.5	1.4	1.5	-165.04	8.9	-19.9	25.2	22.4	2.79	9.037		
897.7	897.5	899.9	898.8	1.6	1.7	-151.19	12.7	-11.3	23.4	20.2	3.19	7.340		
900.0	899.9	902.2	901.1	1.6	1.7	-150.82	12.8	-11.1	23.4	20.2	3.20	7.310		
955.9	955.7	958.0	956.6	1.7	1.8	-141.15	15.3	-5.5	23.1	19.7	3.45	6.709 CC		
1,000.0	999.7	1,002.1	1,000.3	1.7	1.9	-132.64	17.4	-0.7	23.3	19.7	3.65	6.390 ES		
1,100.0	1,099.6	1,101.7	1,099.1	1.9	2.2	-112.25	22.6	11.2	25.7	21.6	4.12	6.250 SF		
1,200.0	1,199.5	1,201.0	1,197.3	2.1	2.5	-94.02	28.6	24.6	31.4	26.9	4.53	6.937		
1,300.0	1,299.3	1,300.0	1,294.9	2.3	2.8	-80.27	35.2	39.6	40.4	35.5	4.90	8.247		
1,400.0	1,399.2	1,398.3	1,391.6	2.5	3.1	-70.59	42.4	56.0	52.1	46.8	5.24	9.944		
1,500.0	1,499.1	1,496.4	1,487.7	2.7	3.5	-63.73	50.3	73.8	66.1	60.5	5.57	11.866		
1,600.0	1,598.9	1,595.0	1,584.2	2.9	3.9	-59.05	58.5	92.3	81.3	75.4	5.91	13.761		
1,700.0	1,698.8	1,693.7	1,680.8	3.1	4.3	-55.86	66.7	110.8	96.9	90.6	6.26	15.491		
1,800.0	1,798.6	1,792.3	1,777.4	3.3	4.6	-53.55	74.9	129.3	112.7	106.1	6.61	17.061		
1,900.0	1,898.5	1,891.0	1,873.9	3.5	5.0	-51.81	83.1	147.8	128.6	121.7	6.96	18.483		
2,000.0	1,998.4	1,989.6	1,970.5	3.7	5.4	-50.46	91.3	166.3	144.6	137.3	7.32	19.773		
2,100.0	2,098.2	2,088.3	2,067.0	3.9	5.8	-49.38	99.4	184.9	160.7	153.0	7.67	20.947		
2,200.0	2,198.1	2,187.0	2,163.6	4.1	6.2	-48.49	107.6	203.4	176.8	168.8	8.03	22.019		
2,300.0	2,298.0	2,285.6	2,260.1	4.2	6.6	-47.75	115.8	221.9	193.0	184.6	8.39	23.001		
2,400.0	2,397.8	2,384.3	2,356.7	4.4	7.0	-47.13	124.0	240.4	209.2	200.4	8.75	23.903		
2,500.0	2,497.7	2,482.9	2,453.3	4.6	7.4	-46.59	132.2	258.9	225.4	216.3	9.11	24.734		
2,600.0	2,597.6	2,581.6	2,549.8	4.8	7.7	-46.13	140.4	277.4	241.6	232.2	9.47	25.503		
2,700.0	2,697.4	2,680.2	2,646.4	5.0	8.1	-45.73	148.6	295.9	257.9	248.0	9.84	26.215		
2,800.0	2,797.3	2,778.9	2,742.9	5.2	8.5	-45.37	156.8	314.5	274.1	263.9	10.20	26.877		
2,900.0	2,897.2	2,877.6	2,839.5	5.4	8.9	-45.05	164.9	333.0	290.4	279.8	10.56	27.493		
3,000.0	2,997.0	2,976.2	2,936.1	5.6	9.3	-44.77	173.1	351.5	306.6	295.7	10.92	28.069		
3,100.0	3,096.9	3,074.9	3,032.6	5.8	9.7	-44.51	181.3	370.0	322.9	311.6	11.29	28.608		
3,200.0	3,196.8	3,173.5	3,129.2	6.0	10.1	-44.28	189.5	388.5	339.2	327.5	11.65	29.113		
3,300.0	3,296.6	3,272.2	3,225.7	6.2	10.5	-44.07	197.7	407.0	355.5	343.5	12.01	29.588		
3,400.0	3,396.5	3,370.8	3,322.3	6.4	10.9	-43.88	205.9	425.5	371.8	359.4	12.38	30.035		
3,500.0	3,496.4	3,469.5	3,418.8	6.6	11.3	-43.71	214.1	444.1	388.0	375.3	12.74	30.457		
3,600.0	3,596.2	3,568.2	3,515.4	6.8	11.7	-43.55	222.3	462.6	404.3	391.2	13.10	30.855		
3,700.0	3,696.1	3,666.8	3,612.0	7.0	12.1	-43.40	230.4	481.1	420.6	407.2	13.47	31.232		
3,800.0	3,796.0	3,765.5	3,708.5	7.2	12.5	-43.26	238.6	499.6	436.9	423.1	13.83	31.588		
3,900.0	3,895.8	3,864.1	3,805.1	7.4	12.9	-43.14	246.8	518.1	453.2	439.0	14.20	31.927		
4,000.0	3,995.7	3,962.8	3,901.6	7.6	13.3	-43.02	255.0	536.6	469.5	455.0	14.56	32.249		
4,100.0	4,095.5	4,061.4	3,998.2	7.8	13.7	-42.91	263.2	555.1	485.8	470.9	14.92	32.555		
4,200.0	4,195.4	4,160.1	4,094.8	8.0	14.1	-42.80	271.4	573.7	502.1	486.9	15.29	32.846		
4,300.0	4,295.3	4,258.8	4,191.3	8.2	14.5	-42.71	279.6	592.2	518.5	502.8	15.65	33.124		
4,400.0	4,395.1	4,357.4	4,287.9	8.4	14.9	-42.62	287.7	610.7	534.8	518.7	16.02	33.389		
4,500.0	4,495.0	4,456.1	4,384.4	8.6	15.3	-42.53	295.9	629.2	551.1	534.7	16.38	33.643		
4,600.0	4,594.9	4,554.7	4,481.0	8.8	15.7	-42.45	304.1	647.7	567.4	550.6	16.74	33.885		
4,700.0	4,694.7	4,653.4	4,577.6	8.9	16.1	-42.37	312.3	666.2	583.7	566.6	17.11	34.117		
4,800.0	4,794.6	4,752.1	4,674.1	9.1	16.5	-42.30	320.5	684.7	600.0	582.5	17.47	34.339		
4,900.0	4,894.5	4,850.7	4,770.7	9.3	16.9	-42.23	328.7	703.2	616.3	598.5	17.84	34.553		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,000.0	4,994.3	4,949.4	4,867.2	9.5	17.3	-42.17	336.9	721.8	632.6	614.4	18.20	34.757	
5,100.0	5,094.2	5,048.0	4,963.8	9.7	17.7	-42.11	345.1	740.3	649.0	630.4	18.57	34.954	
5,200.0	5,194.1	5,146.7	5,060.3	9.9	18.0	-42.05	353.2	758.8	665.3	646.3	18.93	35.143	
5,300.0	5,293.9	5,245.3	5,156.9	10.1	18.4	-41.99	361.4	777.3	681.6	662.3	19.29	35.325	
5,400.0	5,393.8	5,344.0	5,253.5	10.3	18.8	-41.94	369.6	795.8	697.9	678.3	19.66	35.501	
5,500.0	5,493.7	5,442.7	5,350.0	10.5	19.2	-41.89	377.8	814.3	714.2	694.2	20.02	35.669	
5,600.0	5,593.5	5,541.3	5,446.6	10.7	19.6	-41.84	386.0	832.8	730.6	710.2	20.39	35.832	
5,700.0	5,693.4	5,640.0	5,543.1	10.9	20.0	-41.79	394.2	851.4	746.9	726.1	20.75	35.989	
5,800.0	5,793.3	5,738.6	5,639.7	11.1	20.4	-41.75	402.4	869.9	763.2	742.1	21.12	36.141	
5,900.0	5,893.1	5,837.3	5,736.3	11.3	20.8	-41.71	410.6	888.4	779.5	758.0	21.48	36.288	
6,000.0	5,993.0	5,935.9	5,832.8	11.5	21.2	-41.67	418.7	906.9	795.8	774.0	21.85	36.429	
6,100.0	6,092.8	6,034.6	5,929.4	11.7	21.6	-41.63	426.9	925.4	812.2	789.9	22.21	36.566	
6,200.0	6,192.7	6,133.3	6,025.9	11.9	22.0	-41.59	435.1	943.9	828.5	805.9	22.58	36.699	
6,300.0	6,292.6	6,231.9	6,122.5	12.1	22.4	-41.55	443.3	962.4	844.8	821.9	22.94	36.827	
6,400.0	6,392.4	6,330.6	6,219.0	12.3	22.8	-41.52	451.5	981.0	861.1	837.8	23.30	36.951	
6,500.0	6,492.3	6,429.2	6,315.6	12.5	23.2	-41.49	459.7	999.5	877.4	853.8	23.67	37.072	
6,600.0	6,592.2	6,527.9	6,412.2	12.7	23.6	-41.45	467.9	1,018.0	893.8	869.7	24.03	37.189	
6,700.0	6,692.0	6,626.5	6,508.7	12.9	24.0	-41.42	476.1	1,036.5	910.1	885.7	24.40	37.302	
6,800.0	6,791.9	6,725.2	6,605.3	13.1	24.4	-41.39	484.2	1,055.0	926.4	901.6	24.76	37.412	
6,900.0	6,891.8	6,823.9	6,701.8	13.3	24.8	-41.36	492.4	1,073.5	942.7	917.6	25.13	37.519	
7,000.0	6,991.6	6,922.5	6,798.4	13.5	25.2	-41.34	500.6	1,092.0	959.1	933.6	25.49	37.623	
7,100.0	7,091.5	7,123.3	6,995.1	13.7	25.9	-40.80	507.4	1,129.7	975.2	949.1	26.04	37.447	
7,172.4	7,163.8	7,788.4	7,473.7	13.8	26.3	-16.57	110.6	1,221.5	954.4	928.1	26.36	36.205	
7,200.0	7,191.4	7,831.2	7,484.9	13.9	26.3	33.52	69.4	1,223.7	944.3	917.9	26.35	35.835	
7,250.0	7,241.1	7,858.1	7,490.4	14.0	26.4	66.55	43.1	1,224.7	927.0	900.7	26.38	35.141	
7,300.0	7,290.3	7,859.6	7,490.6	14.0	26.4	76.60	41.6	1,224.8	912.0	885.6	26.43	34.502	
7,350.0	7,338.5	7,850.6	7,489.0	14.1	26.4	81.04	50.4	1,224.4	899.5	873.1	26.50	33.951	
7,400.0	7,385.5	7,836.3	7,486.0	14.2	26.3	83.21	64.4	1,223.9	889.7	863.1	26.57	33.480	
7,450.0	7,430.8	7,819.0	7,482.0	14.3	26.3	84.14	81.2	1,223.1	882.5	855.8	26.65	33.110	
7,500.0	7,474.1	7,799.7	7,476.9	14.5	26.3	84.29	99.8	1,222.1	877.8	851.1	26.73	32.838	
7,550.0	7,515.0	7,779.2	7,470.9	14.6	26.3	83.87	119.4	1,221.0	875.7	848.9	26.84	32.628	
7,569.7	7,530.4	7,770.9	7,468.2	14.7	26.3	83.57	127.3	1,220.5	875.5	848.6	26.89	32.562	
7,600.0	7,553.3	7,757.8	7,463.8	14.8	26.3	83.01	139.5	1,219.6	876.0	849.0	26.95	32.497	
7,650.0	7,588.7	7,735.7	7,455.8	15.0	26.3	81.81	160.0	1,218.1	878.4	851.3	27.10	32.418	
7,700.0	7,620.9	7,713.2	7,446.8	15.2	26.3	80.33	180.6	1,216.4	882.8	855.5	27.26	32.389	
7,750.0	7,649.6	7,690.3	7,436.9	15.5	26.3	78.63	201.2	1,214.4	888.9	861.5	27.44	32.398	
7,800.0	7,674.7	7,667.1	7,426.0	15.8	26.3	76.76	221.5	1,212.4	896.6	869.0	27.65	32.429	
7,850.0	7,695.9	7,643.7	7,414.2	16.1	26.3	74.76	241.6	1,210.1	905.5	877.7	27.88	32.476	
7,900.0	7,713.1	7,620.1	7,401.5	16.5	26.3	72.68	261.3	1,207.7	915.5	887.3	28.17	32.504	
7,950.0	7,726.1	7,600.0	7,390.0	16.9	26.3	70.72	277.7	1,205.5	926.2	897.7	28.51	32.486	
8,000.0	7,734.9	7,572.6	7,373.5	17.4	26.3	68.40	299.4	1,202.3	937.4	908.5	28.91	32.425	
8,050.0	7,739.4	7,550.0	7,359.2	17.9	26.3	66.33	316.6	1,199.6	949.0	919.6	29.42	32.252	
8,076.4	7,740.0	7,536.0	7,349.9	18.2	26.3	65.17	327.0	1,197.8	955.1	925.4	29.74	32.117	
8,100.0	7,740.0	7,524.8	7,342.4	18.4	26.3	64.72	335.1	1,196.3	960.8	930.8	29.95	32.082	
8,200.0	7,740.0	7,482.0	7,312.1	19.6	26.3	62.91	364.8	1,190.5	988.7	957.8	30.85	32.048	
8,300.0	7,740.0	7,450.0	7,288.1	20.8	26.3	61.50	385.4	1,185.9	1,023.1	991.3	31.81	32.161	
8,400.0	7,740.0	7,413.6	7,259.4	22.1	26.3	59.84	407.2	1,180.4	1,063.7	1,031.0	32.74	32.490	
8,500.0	7,740.0	7,386.2	7,237.1	23.4	26.3	58.57	422.3	1,176.1	1,110.4	1,076.7	33.72	32.933	
8,600.0	7,740.0	7,350.0	7,206.4	24.8	26.3	56.87	440.7	1,170.3	1,162.8	1,128.2	34.59	33.620	
8,700.0	7,740.0	7,350.0	7,206.4	26.3	26.3	56.87	440.7	1,170.3	1,220.0	1,184.2	35.82	34.056	
8,800.0	7,740.0	7,323.4	7,183.2	27.8	26.2	55.60	452.8	1,165.8	1,281.7	1,245.0	36.76	34.870	
8,900.0	7,740.0	7,300.0	7,162.3	29.3	26.2	54.48	462.6	1,161.8	1,347.6	1,309.9	37.70	35.744	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,740.0	7,300.0	7,162.3	30.8	26.2	54.48	462.6	1,161.8	1,417.0	1,378.1	38.97	36.361		
9,100.0	7,740.0	7,280.0	7,144.1	32.4	26.2	53.53	470.3	1,158.3	1,489.5	1,449.6	39.93	37.301		
9,200.0	7,740.0	7,268.4	7,133.5	33.9	26.2	52.98	474.4	1,156.3	1,564.8	1,523.8	41.02	38.151		
9,300.0	7,740.0	7,250.0	7,116.5	35.5	26.2	52.10	480.6	1,153.0	1,642.6	1,600.6	41.96	39.144		
9,400.0	7,740.0	7,250.0	7,116.5	37.2	26.2	52.10	480.6	1,153.0	1,722.3	1,679.0	43.24	39.827		
9,500.0	7,740.0	7,250.0	7,116.5	38.8	26.2	52.10	480.6	1,153.0	1,804.0	1,759.5	44.53	40.509		
9,600.0	7,740.0	7,250.0	7,116.5	40.4	26.2	52.10	480.6	1,153.0	1,887.5	1,841.7	45.83	41.183		
9,700.0	7,740.0	7,224.8	7,092.8	42.0	26.1	50.91	488.1	1,148.5	1,971.9	1,925.4	46.57	42.348		
9,800.0	7,740.0	7,200.0	7,069.3	43.7	26.1	49.75	494.4	1,144.0	2,058.3	2,011.0	47.26	43.552		
9,900.0	7,740.0	7,200.0	7,069.3	45.4	26.1	49.75	494.4	1,144.0	2,145.2	2,096.7	48.53	44.199		
10,000.0	7,740.0	7,200.0	7,069.3	47.0	26.1	49.75	494.4	1,144.0	2,233.2	2,183.4	49.81	44.831		
10,100.0	7,740.0	7,200.0	7,069.3	48.7	26.1	49.75	494.4	1,144.0	2,322.2	2,271.2	51.10	45.447		
10,200.0	7,740.0	7,200.0	7,069.3	50.4	26.1	49.75	494.4	1,144.0	2,412.1	2,359.7	52.39	46.045		
10,300.0	7,740.0	7,200.0	7,069.3	52.1	26.1	49.75	494.4	1,144.0	2,502.8	2,449.1	53.68	46.625		
10,400.0	7,740.0	7,200.0	7,069.3	53.7	26.1	49.75	494.4	1,144.0	2,594.1	2,539.1	54.97	47.188		
10,500.0	7,740.0	7,200.0	7,069.3	55.4	26.1	49.75	494.4	1,144.0	2,686.0	2,629.8	56.27	47.733		
10,600.0	7,740.0	7,179.4	7,049.6	57.1	26.1	48.80	498.9	1,140.2	2,778.1	2,721.2	56.91	48.812		
10,700.0	7,740.0	7,175.9	7,046.2	58.8	26.0	48.63	499.6	1,139.5	2,870.9	2,812.9	58.08	49.429		
10,800.0	7,740.0	7,172.6	7,043.0	60.5	26.0	48.48	500.2	1,138.9	2,964.2	2,905.0	59.25	50.026		
10,900.0	7,740.0	7,150.0	7,021.1	62.2	26.0	47.45	504.0	1,134.7	3,058.3	2,998.6	59.75	51.189		
11,000.0	7,740.0	7,150.0	7,021.1	63.9	26.0	47.45	504.0	1,134.7	3,152.3	3,091.3	61.01	51.668		
11,100.0	7,740.0	7,150.0	7,021.1	65.7	26.0	47.45	504.0	1,134.7	3,246.6	3,184.3	62.28	52.132		
11,200.0	7,740.0	7,150.0	7,021.1	67.4	26.0	47.45	504.0	1,134.7	3,341.2	3,277.7	63.54	52.581		
11,300.0	7,740.0	7,150.0	7,021.1	69.1	26.0	47.45	504.0	1,134.7	3,436.2	3,371.4	64.81	53.016		
11,400.0	7,740.0	7,150.0	7,021.1	70.8	26.0	47.45	504.0	1,134.7	3,531.4	3,465.3	66.09	53.437		
11,500.0	7,740.0	7,150.0	7,021.1	72.5	26.0	47.45	504.0	1,134.7	3,626.9	3,559.5	67.36	53.845		
11,600.0	7,740.0	7,150.0	7,021.1	74.2	26.0	47.45	504.0	1,134.7	3,722.6	3,654.0	68.63	54.241		
11,700.0	7,740.0	7,150.0	7,021.1	76.0	26.0	47.45	504.0	1,134.7	3,818.6	3,748.7	69.91	54.624		
11,800.0	7,740.0	7,150.0	7,021.1	77.7	26.0	47.45	504.0	1,134.7	3,914.7	3,843.5	71.18	54.996		
11,900.0	7,740.0	7,150.0	7,021.1	79.4	26.0	47.45	504.0	1,134.7	4,011.0	3,938.6	72.46	55.356		
12,000.0	7,740.0	7,150.0	7,021.1	81.1	26.0	47.45	504.0	1,134.7	4,107.5	4,033.8	73.74	55.706		
12,100.0	7,740.0	7,150.0	7,021.1	82.9	26.0	47.45	504.0	1,134.7	4,204.2	4,129.2	75.01	56.045		
12,200.0	7,740.0	7,150.0	7,021.1	84.6	26.0	47.45	504.0	1,134.7	4,301.0	4,224.8	76.29	56.374		
12,300.0	7,740.0	7,150.0	7,021.1	86.3	26.0	47.45	504.0	1,134.7	4,398.0	4,320.4	77.57	56.694		
12,400.0	7,740.0	7,150.0	7,021.1	88.0	26.0	47.45	504.0	1,134.7	4,495.1	4,416.3	78.86	57.004		
12,500.0	7,740.0	7,150.0	7,021.1	89.8	26.0	47.45	504.0	1,134.7	4,592.3	4,512.2	80.14	57.306		
12,600.0	7,740.0	7,150.0	7,021.1	91.5	26.0	47.45	504.0	1,134.7	4,689.7	4,608.3	81.42	57.599		
12,700.0	7,740.0	7,150.0	7,021.1	93.2	26.0	47.45	504.0	1,134.7	4,787.1	4,704.4	82.70	57.884		
12,800.0	7,740.0	7,150.0	7,021.1	95.0	26.0	47.45	504.0	1,134.7	4,884.7	4,800.7	83.99	58.161		
12,900.0	7,740.0	7,150.0	7,021.1	96.7	26.0	47.45	504.0	1,134.7	4,982.3	4,897.1	85.27	58.430		
13,000.0	7,740.0	7,150.0	7,021.1	98.4	26.0	47.45	504.0	1,134.7	5,080.1	4,993.5	86.55	58.692		
13,100.0	7,740.0	7,150.0	7,021.1	100.2	26.0	47.45	504.0	1,134.7	5,177.9	5,090.1	87.84	58.947		
13,200.0	7,740.0	7,126.9	6,998.6	101.9	25.9	46.41	507.0	1,130.4	5,275.3	5,187.5	87.81	60.074		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-30.2	30.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.99	0.0	-30.2	30.2	29.9	0.30	99.533		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-30.2	30.2	29.6	0.65	46.307		
300.0	300.0	300.5	300.5	0.5	0.5	-89.43	0.3	-29.4	29.4	28.4	1.00	29.294		
400.0	400.0	400.9	400.9	0.7	0.7	-87.55	1.2	-26.9	26.9	25.6	1.36	19.829		
500.0	500.0	501.2	501.1	0.8	0.9	-83.52	2.6	-22.7	22.9	21.2	1.72	13.324		
600.0	600.0	601.3	601.0	1.0	1.1	-74.87	4.6	-16.9	17.6	15.5	2.09	8.424		
700.0	700.0	701.3	700.6	1.2	1.3	-151.81	7.1	-9.5	12.7	10.2	2.46	5.158		
775.6	775.6	776.7	775.8	1.3	1.5	-126.02	9.5	-2.8	11.2	8.4	2.79	4.015 CC, ES		
800.0	800.0	801.1	800.0	1.4	1.5	-116.83	10.3	-0.4	11.4	8.5	2.89	3.928 SF		
897.7	897.5	898.4	896.7	1.6	1.8	-87.73	13.9	10.0	15.0	11.7	3.27	4.570		
900.0	899.9	900.7	899.0	1.6	1.8	-87.24	13.9	10.2	15.1	11.8	3.28	4.598		
1,000.0	999.7	1,000.2	997.6	1.7	2.0	-70.59	18.2	22.5	22.0	18.4	3.63	6.060		
1,100.0	1,099.6	1,099.3	1,095.6	1.9	2.3	-60.38	22.9	36.4	31.3	27.3	3.97	7.869		
1,200.0	1,199.5	1,198.0	1,192.9	2.1	2.7	-53.81	28.2	51.7	42.6	38.3	4.32	9.861		
1,300.0	1,299.3	1,296.3	1,289.6	2.3	3.0	-49.30	34.1	68.6	55.8	51.1	4.66	11.958		
1,400.0	1,399.2	1,394.1	1,385.5	2.5	3.4	-46.04	40.4	87.0	70.8	65.8	5.01	14.121		
1,500.0	1,499.1	1,491.3	1,480.4	2.7	3.8	-43.58	47.2	106.8	87.5	82.1	5.36	16.327		
1,600.0	1,598.9	1,588.0	1,574.5	2.9	4.2	-41.66	54.5	128.0	105.9	100.2	5.71	18.564		
1,700.0	1,698.8	1,685.9	1,669.5	3.1	4.6	-40.18	62.2	150.3	125.4	119.3	6.06	20.701		
1,800.0	1,798.6	1,784.0	1,764.7	3.3	5.1	-39.09	69.9	172.6	144.9	138.5	6.41	22.608		
1,900.0	1,898.5	1,882.0	1,859.8	3.5	5.5	-38.27	77.6	195.0	164.5	157.7	6.76	24.316		
2,000.0	1,998.4	1,980.1	1,955.0	3.7	5.9	-37.61	85.3	217.3	184.0	176.9	7.12	25.855		
2,100.0	2,098.2	2,078.1	2,050.1	3.9	6.4	-37.09	93.0	239.7	203.6	196.2	7.47	27.249		
2,200.0	2,198.1	2,176.2	2,145.3	4.1	6.8	-36.65	100.7	262.1	223.2	215.4	7.83	28.516		
2,300.0	2,298.0	2,274.2	2,240.4	4.2	7.3	-36.29	108.4	284.4	242.9	234.7	8.18	29.673		
2,400.0	2,397.8	2,372.2	2,335.6	4.4	7.7	-35.98	116.1	306.8	262.5	254.0	8.54	30.733		
2,500.0	2,497.7	2,470.3	2,430.7	4.6	8.2	-35.71	123.8	329.1	282.1	273.2	8.90	31.709		
2,600.0	2,597.6	2,568.3	2,525.9	4.8	8.6	-35.48	131.5	351.5	301.8	292.5	9.25	32.609		
2,700.0	2,697.4	2,666.4	2,621.0	5.0	9.1	-35.28	139.2	373.8	321.4	311.8	9.61	33.443		
2,800.0	2,797.3	2,764.4	2,716.2	5.2	9.5	-35.10	146.9	396.2	341.1	331.1	9.97	34.217		
2,900.0	2,897.2	2,862.5	2,811.3	5.4	10.0	-34.94	154.6	418.5	360.7	350.4	10.32	34.937		
3,000.0	2,997.0	2,960.5	2,906.5	5.6	10.4	-34.79	162.3	440.9	380.4	369.7	10.68	35.609		
3,100.0	3,096.9	3,058.6	3,001.6	5.8	10.9	-34.66	170.0	463.3	400.0	389.0	11.04	36.238		
3,200.0	3,196.8	3,156.6	3,096.8	6.0	11.3	-34.55	177.7	485.6	419.7	408.3	11.40	36.827		
3,300.0	3,296.6	3,254.7	3,191.9	6.2	11.8	-34.44	185.4	508.0	439.3	427.6	11.75	37.380		
3,400.0	3,396.5	3,352.7	3,287.1	6.4	12.3	-34.34	193.1	530.3	459.0	446.9	12.11	37.901		
3,500.0	3,496.4	3,450.7	3,382.2	6.6	12.7	-34.25	200.8	552.7	478.7	466.2	12.47	38.392		
3,600.0	3,596.2	3,548.8	3,477.4	6.8	13.2	-34.17	208.5	575.0	498.3	485.5	12.82	38.855		
3,700.0	3,696.1	3,646.8	3,572.5	7.0	13.6	-34.09	216.3	597.4	518.0	504.8	13.18	39.293		
3,800.0	3,796.0	3,744.9	3,667.7	7.2	14.1	-34.02	224.0	619.7	537.6	524.1	13.54	39.708		
3,900.0	3,895.8	3,842.9	3,762.8	7.4	14.5	-33.95	231.7	642.1	557.3	543.4	13.90	40.102		
4,000.0	3,995.7	3,941.0	3,858.0	7.6	15.0	-33.89	239.4	664.5	577.0	562.7	14.25	40.476		
4,100.0	4,095.5	4,039.0	3,953.1	7.8	15.4	-33.84	247.1	686.8	596.6	582.0	14.61	40.832		
4,200.0	4,195.4	4,137.1	4,048.3	8.0	15.9	-33.78	254.8	709.2	616.3	601.3	14.97	41.170		
4,300.0	4,295.3	4,235.1	4,143.4	8.2	16.3	-33.73	262.5	731.5	636.0	620.6	15.33	41.493		
4,400.0	4,395.1	4,333.2	4,238.6	8.4	16.8	-33.68	270.2	753.9	655.6	639.9	15.68	41.801		
4,500.0	4,495.0	4,431.2	4,333.7	8.6	17.3	-33.64	277.9	776.2	675.3	659.3	16.04	42.096		
4,600.0	4,594.9	4,529.2	4,428.9	8.8	17.7	-33.60	285.6	798.6	695.0	678.6	16.40	42.377		
4,700.0	4,694.7	4,627.3	4,524.0	8.9	18.2	-33.56	293.3	820.9	714.6	697.9	16.76	42.647		
4,800.0	4,794.6	4,725.3	4,619.2	9.1	18.6	-33.52	301.0	843.3	734.3	717.2	17.11	42.905		
4,900.0	4,894.5	4,823.4	4,714.4	9.3	19.1	-33.48	308.7	865.7	754.0	736.5	17.47	43.153		

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 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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	4,994.3	4,921.4	4,809.5	9.5	19.5	-33.45	316.4	888.0	773.6	755.8	17.83	43.391		
5,100.0	5,094.2	5,019.5	4,904.7	9.7	20.0	-33.42	324.1	910.4	793.3	775.1	18.19	43.619		
5,200.0	5,194.1	5,117.5	4,999.8	9.9	20.4	-33.39	331.8	932.7	813.0	794.4	18.54	43.839		
5,300.0	5,293.9	5,215.6	5,095.0	10.1	20.9	-33.36	339.5	955.1	832.7	813.7	18.90	44.050		
5,400.0	5,393.8	5,313.6	5,190.1	10.3	21.4	-33.33	347.2	977.4	852.3	833.1	19.26	44.253		
5,500.0	5,493.7	5,411.7	5,285.3	10.5	21.8	-33.30	354.9	999.8	872.0	852.4	19.62	44.449		
5,600.0	5,593.5	5,509.7	5,380.4	10.7	22.3	-33.28	362.6	1,022.1	891.7	871.7	19.98	44.638		
5,700.0	5,693.4	5,607.7	5,475.6	10.9	22.7	-33.25	370.3	1,044.5	911.3	891.0	20.33	44.821		
5,800.0	5,793.3	5,705.8	5,570.7	11.1	23.2	-33.23	378.0	1,066.9	931.0	910.3	20.69	44.997		
5,900.0	5,893.1	5,803.8	5,665.9	11.3	23.6	-33.21	385.7	1,089.2	950.7	929.6	21.05	45.167		
6,000.0	5,993.0	5,901.9	5,761.0	11.5	24.1	-33.19	393.4	1,111.6	970.3	948.9	21.41	45.331		
6,100.0	6,092.8	5,999.9	5,856.2	11.7	24.5	-33.17	401.1	1,133.9	990.0	968.3	21.76	45.490		
6,200.0	6,192.7	6,098.0	5,951.3	11.9	25.0	-33.15	408.8	1,156.3	1,009.7	987.6	22.12	45.644		
6,300.0	6,292.6	6,196.0	6,046.5	12.1	25.5	-33.13	416.5	1,178.6	1,029.4	1,006.9	22.48	45.793		
6,400.0	6,392.4	6,294.1	6,141.6	12.3	25.9	-33.11	424.2	1,201.0	1,049.0	1,026.2	22.84	45.937		
6,500.0	6,492.3	6,392.1	6,236.8	12.5	26.4	-33.09	431.9	1,223.3	1,068.7	1,045.5	23.19	46.077		
6,600.0	6,592.2	6,490.2	6,331.9	12.7	26.8	-33.08	439.6	1,245.7	1,088.4	1,064.8	23.55	46.212		
6,700.0	6,692.0	6,588.2	6,427.1	12.9	27.3	-33.06	447.3	1,268.1	1,108.0	1,084.1	23.91	46.344		
6,800.0	6,791.9	6,686.2	6,522.2	13.1	27.7	-33.04	455.0	1,290.4	1,127.7	1,103.4	24.27	46.471		
6,900.0	6,891.8	6,784.3	6,617.4	13.3	28.2	-33.03	462.7	1,312.8	1,147.4	1,122.8	24.62	46.595		
7,000.0	6,991.6	6,882.3	6,712.5	13.5	28.6	-33.01	470.4	1,335.1	1,167.1	1,142.1	24.98	46.716		
7,100.0	7,091.5	6,980.4	6,807.7	13.7	29.1	-33.00	478.1	1,357.5	1,186.7	1,161.4	25.34	46.833		
7,172.4	7,163.8	7,051.4	6,876.6	13.8	29.4	-32.99	483.7	1,373.7	1,201.0	1,175.4	25.60	46.915		
7,200.0	7,191.4	7,078.5	6,902.9	13.9	29.6	12.90	485.8	1,379.8	1,206.1	1,180.3	25.78	46.783		
7,250.0	7,241.1	7,127.6	6,950.6	14.0	29.8	41.85	489.7	1,391.1	1,214.0	1,188.0	26.02	46.662		
7,300.0	7,290.3	7,176.6	6,998.1	14.0	30.0	50.07	493.6	1,402.2	1,220.0	1,193.9	26.13	46.692		
7,350.0	7,338.5	7,224.9	7,045.0	14.1	30.2	53.98	497.4	1,413.2	1,224.2	1,198.1	26.13	46.848		
7,400.0	7,385.5	7,272.3	7,091.0	14.2	30.5	56.54	501.1	1,424.0	1,226.6	1,200.5	26.05	47.078		
7,450.0	7,430.8	7,318.4	7,135.7	14.3	30.7	58.63	504.7	1,434.5	1,227.3	1,201.4	25.95	47.300		
7,500.0	7,474.1	7,522.4	7,332.4	14.5	31.4	65.51	485.5	1,480.7	1,223.9	1,197.8	26.13	46.830		
7,550.0	7,515.0	7,632.7	7,432.4	14.6	31.6	71.21	445.8	1,504.2	1,216.6	1,190.0	26.55	45.825		
7,600.0	7,553.3	7,685.6	7,477.3	14.8	31.7	74.83	419.9	1,514.8	1,208.7	1,181.8	26.97	44.812		
7,650.0	7,588.7	7,709.7	7,496.9	15.0	31.7	77.03	406.8	1,519.4	1,201.7	1,174.3	27.37	43.901		
7,700.0	7,620.9	7,718.0	7,503.6	15.2	31.7	78.29	402.0	1,521.0	1,195.9	1,168.1	27.76	43.083		
7,750.0	7,649.6	7,717.2	7,502.9	15.5	31.7	78.90	402.5	1,520.8	1,191.5	1,163.4	28.15	42.331		
7,800.0	7,674.7	7,710.4	7,497.5	15.8	31.7	79.03	406.4	1,519.5	1,188.7	1,160.1	28.56	41.619		
7,850.0	7,695.9	7,699.7	7,488.8	16.1	31.7	78.79	412.4	1,517.5	1,187.3	1,158.3	29.01	40.925		
7,874.1	7,704.7	7,693.5	7,483.8	16.3	31.7	78.56	415.7	1,516.3	1,187.2	1,157.9	29.25	40.585		
7,900.0	7,713.1	7,686.2	7,477.8	16.5	31.7	78.25	419.6	1,514.9	1,187.4	1,157.8	29.51	40.232		
7,950.0	7,726.1	7,670.8	7,465.0	16.9	31.7	77.48	427.6	1,511.9	1,188.7	1,158.6	30.07	39.525		
8,000.0	7,734.9	7,653.9	7,450.7	17.4	31.7	76.52	436.0	1,508.5	1,191.1	1,160.4	30.71	38.793		
8,050.0	7,739.4	7,635.9	7,435.2	17.9	31.6	75.40	444.4	1,504.9	1,194.6	1,163.2	31.41	38.030		
8,076.4	7,740.0	7,626.0	7,426.5	18.2	31.6	74.76	448.8	1,502.9	1,196.9	1,165.0	31.82	37.613		
8,100.0	7,740.0	7,617.3	7,418.9	18.4	31.6	74.38	452.5	1,501.1	1,199.1	1,167.1	32.07	37.391		
8,200.0	7,740.0	7,585.9	7,390.9	19.6	31.5	73.00	465.1	1,494.5	1,213.1	1,180.0	33.16	36.583		
8,300.0	7,740.0	7,561.2	7,368.4	20.8	31.5	71.90	473.8	1,489.2	1,234.2	1,199.9	34.31	35.976		
8,400.0	7,740.0	7,550.0	7,358.1	22.1	31.5	71.40	477.5	1,486.8	1,262.4	1,226.8	35.54	35.517		
8,500.0	7,740.0	7,524.8	7,334.7	23.4	31.4	70.26	484.9	1,481.3	1,297.1	1,260.3	36.74	35.304		
8,600.0	7,740.0	7,500.0	7,311.3	24.8	31.3	69.12	491.1	1,475.8	1,338.2	1,300.3	37.95	35.263		
8,700.0	7,740.0	7,500.0	7,311.3	26.3	31.3	69.12	491.1	1,475.8	1,385.0	1,345.6	39.34	35.209		
8,800.0	7,740.0	7,500.0	7,311.3	27.8	31.3	69.12	491.1	1,475.8	1,437.2	1,396.4	40.75	35.266		
8,900.0	7,740.0	7,481.1	7,293.3	29.3	31.3	68.25	495.2	1,471.6	1,493.9	1,451.9	42.03	35.543		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	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				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	7,473.6	7,286.1	30.8	31.3	67.91	496.7	1,469.9	1,555.0	1,511.6	43.41	35.818		
9,100.0	7,740.0	7,467.0	7,279.8	32.4	31.2	67.60	497.9	1,468.4	1,619.9	1,575.1	44.82	36.145		
9,200.0	7,740.0	7,450.0	7,263.5	33.9	31.2	66.82	500.6	1,464.6	1,688.3	1,642.2	46.11	36.612		
9,300.0	7,740.0	7,450.0	7,263.5	35.5	31.2	66.82	500.6	1,464.6	1,759.5	1,711.9	47.60	36.964		
9,400.0	7,740.0	7,450.0	7,263.5	37.2	31.2	66.82	500.6	1,464.6	1,833.3	1,784.2	49.10	37.341		
9,500.0	7,740.0	7,450.0	7,263.5	38.8	31.2	66.82	500.6	1,464.6	1,909.6	1,859.0	50.60	37.735		
9,600.0	7,740.0	7,450.0	7,263.5	40.4	31.2	66.82	500.6	1,464.6	1,987.9	1,935.8	52.12	38.140		
9,700.0	7,740.0	7,450.0	7,263.5	42.0	31.2	66.82	500.6	1,464.6	2,068.1	2,014.5	53.65	38.552		
9,800.0	7,740.0	7,450.0	7,263.5	43.7	31.2	66.82	500.6	1,464.6	2,150.0	2,094.8	55.18	38.965		
9,900.0	7,740.0	7,450.0	7,263.5	45.4	31.2	66.82	500.6	1,464.6	2,233.4	2,176.6	56.72	39.378		
10,000.0	7,740.0	7,450.0	7,263.5	47.0	31.2	66.82	500.6	1,464.6	2,318.0	2,259.8	58.26	39.788		
10,100.0	7,740.0	7,428.1	7,242.4	48.7	31.1	65.81	503.3	1,459.6	2,403.4	2,344.0	59.44	40.437		
10,200.0	7,740.0	7,425.8	7,240.1	50.4	31.1	65.71	503.6	1,459.1	2,490.2	2,429.3	60.94	40.866		
10,300.0	7,740.0	7,423.6	7,238.0	52.1	31.1	65.61	503.8	1,458.6	2,578.0	2,515.5	62.44	41.287		
10,400.0	7,740.0	7,421.6	7,236.0	53.7	31.1	65.51	504.0	1,458.1	2,666.6	2,602.6	63.95	41.700		
10,500.0	7,740.0	7,400.0	7,215.1	55.4	31.0	64.52	505.7	1,453.2	2,756.3	2,691.2	65.06	42.365		
10,600.0	7,740.0	7,400.0	7,215.1	57.1	31.0	64.52	505.7	1,453.2	2,846.3	2,779.7	66.60	42.738		
10,700.0	7,740.0	7,400.0	7,215.1	58.8	31.0	64.52	505.7	1,453.2	2,937.0	2,868.8	68.14	43.102		
10,800.0	7,740.0	7,400.0	7,215.1	60.5	31.0	64.52	505.7	1,453.2	3,028.2	2,958.5	69.68	43.456		
10,900.0	7,740.0	7,400.0	7,215.1	62.2	31.0	64.52	505.7	1,453.2	3,120.0	3,048.8	71.23	43.801		
11,000.0	7,740.0	7,400.0	7,215.1	63.9	31.0	64.52	505.7	1,453.2	3,212.3	3,139.5	72.78	44.137		
11,100.0	7,740.0	7,400.0	7,215.1	65.7	31.0	64.52	505.7	1,453.2	3,305.0	3,230.7	74.33	44.463		
11,200.0	7,740.0	7,400.0	7,215.1	67.4	31.0	64.52	505.7	1,453.2	3,398.1	3,322.2	75.88	44.781		
11,300.0	7,740.0	7,400.0	7,215.1	69.1	31.0	64.52	505.7	1,453.2	3,491.6	3,414.2	77.44	45.090		
11,400.0	7,740.0	7,400.0	7,215.1	70.8	31.0	64.52	505.7	1,453.2	3,585.5	3,506.5	78.99	45.390		
11,500.0	7,740.0	7,400.0	7,215.1	72.5	31.0	64.52	505.7	1,453.2	3,679.7	3,599.1	80.55	45.682		
11,600.0	7,740.0	7,400.0	7,215.1	74.2	31.0	64.52	505.7	1,453.2	3,774.2	3,692.1	82.11	45.966		
11,700.0	7,740.0	7,400.0	7,215.1	76.0	31.0	64.52	505.7	1,453.2	3,868.9	3,785.3	83.67	46.241		
11,800.0	7,740.0	7,400.0	7,215.1	77.7	31.0	64.52	505.7	1,453.2	3,964.0	3,878.7	85.23	46.509		
11,900.0	7,740.0	7,400.0	7,215.1	79.4	31.0	64.52	505.7	1,453.2	4,059.2	3,972.4	86.79	46.770		
12,000.0	7,740.0	7,400.0	7,215.1	81.1	31.0	64.52	505.7	1,453.2	4,154.7	4,066.4	88.35	47.023		
12,100.0	7,740.0	7,400.0	7,215.1	82.9	31.0	64.52	505.7	1,453.2	4,250.4	4,160.5	89.92	47.270		
12,200.0	7,740.0	7,400.0	7,215.1	84.6	31.0	64.52	505.7	1,453.2	4,346.3	4,254.8	91.48	47.509		
12,300.0	7,740.0	7,400.0	7,215.1	86.3	31.0	64.52	505.7	1,453.2	4,442.4	4,349.3	93.05	47.742		
12,400.0	7,740.0	7,400.0	7,215.1	88.0	31.0	64.52	505.7	1,453.2	4,538.6	4,444.0	94.62	47.969		
12,500.0	7,740.0	7,400.0	7,215.1	89.8	31.0	64.52	505.7	1,453.2	4,635.0	4,538.8	96.18	48.189		
12,600.0	7,740.0	7,400.0	7,215.1	91.5	31.0	64.52	505.7	1,453.2	4,731.5	4,633.8	97.75	48.404		
12,700.0	7,740.0	7,400.0	7,215.1	93.2	31.0	64.52	505.7	1,453.2	4,828.2	4,728.9	99.32	48.613		
12,800.0	7,740.0	7,400.0	7,215.1	95.0	31.0	64.52	505.7	1,453.2	4,925.0	4,824.2	100.89	48.817		
12,900.0	7,740.0	7,400.0	7,215.1	96.7	31.0	64.52	505.7	1,453.2	5,022.0	4,919.5	102.46	49.015		
13,000.0	7,740.0	7,400.0	7,215.1	98.4	31.0	64.52	505.7	1,453.2	5,119.0	5,015.0	104.03	49.208		
13,100.0	7,740.0	7,400.0	7,215.1	100.2	31.0	64.52	505.7	1,453.2	5,216.2	5,110.6	105.60	49.396		

Cathedral Energy Services

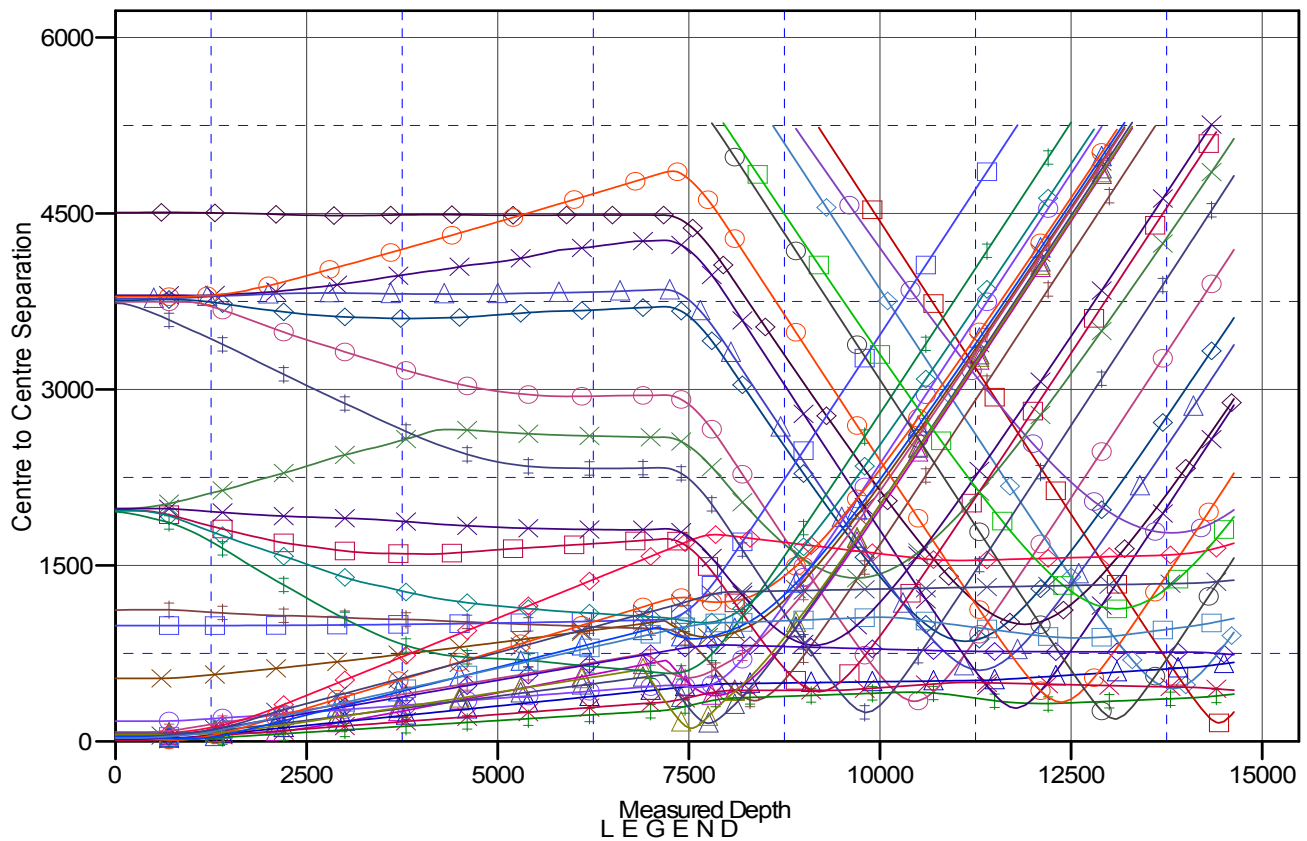
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2C-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2C-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #4	Offset TVD Reference:	Offset Datum

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

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

Ladder Plot



NG), ENCANAWELL, SURVEYS V0	Woolley-Becky 2D-7H-E168, Hz, Plan #4 V0	WOOLLEY 21-7 (EXISTING), ENCAN
NOBLE WELL, NO SURVEYS V0	BEARDEN 13-6 (EXISTING), ENCANAWELL, SURVEYS V0	Woolley-Sosa 2D-7H-E168, HZ, Plan #
38 Hz, Plan #2 V0	Thomas 7-12 (Existing), Existing, NO SURVEYS V0	WOOLLEY 2-4-7 (EXISTING), ENCAN
38 Hz, Plan #3 V0	BULTHAUP 21-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	BECKY 7-6 (EXISTING), NOBLE WEI
ISTING), ENCANAWELL, GYRO V0	Woolley-Sosa 2B-7H-E168, HZ, Plan #2 V0	BECKY 4 (EXISTING), MARTIN EXP1
FOUNDATION WELL, NO SURVEYS V0	BEARDEN 2-4-6 (EXISTING), ENCANAWELL, PLAN ONLY 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 #
ING), ENCANAWELL, SURVEYS V0	Woolley-Becky 2B-7H-E168, Hz, Plan #2 V0	Woolley-Sosa 2F-7H-E168, HZ, Plan #
), ENCANAWELL, SURVEYS V0	Woolley-Sosa 2C-7H-E168, HZ, Plan #2 V0	BEARDEN 2-8-6 (EXISTING), ENCAN
68 Hz, Plan #2 V0	WOOLLEY 11-7 (EXISTING), ENCANAWELL, SURVEYS V0	Woolley-Becky 2F-7H-E168, Hz, Plan #