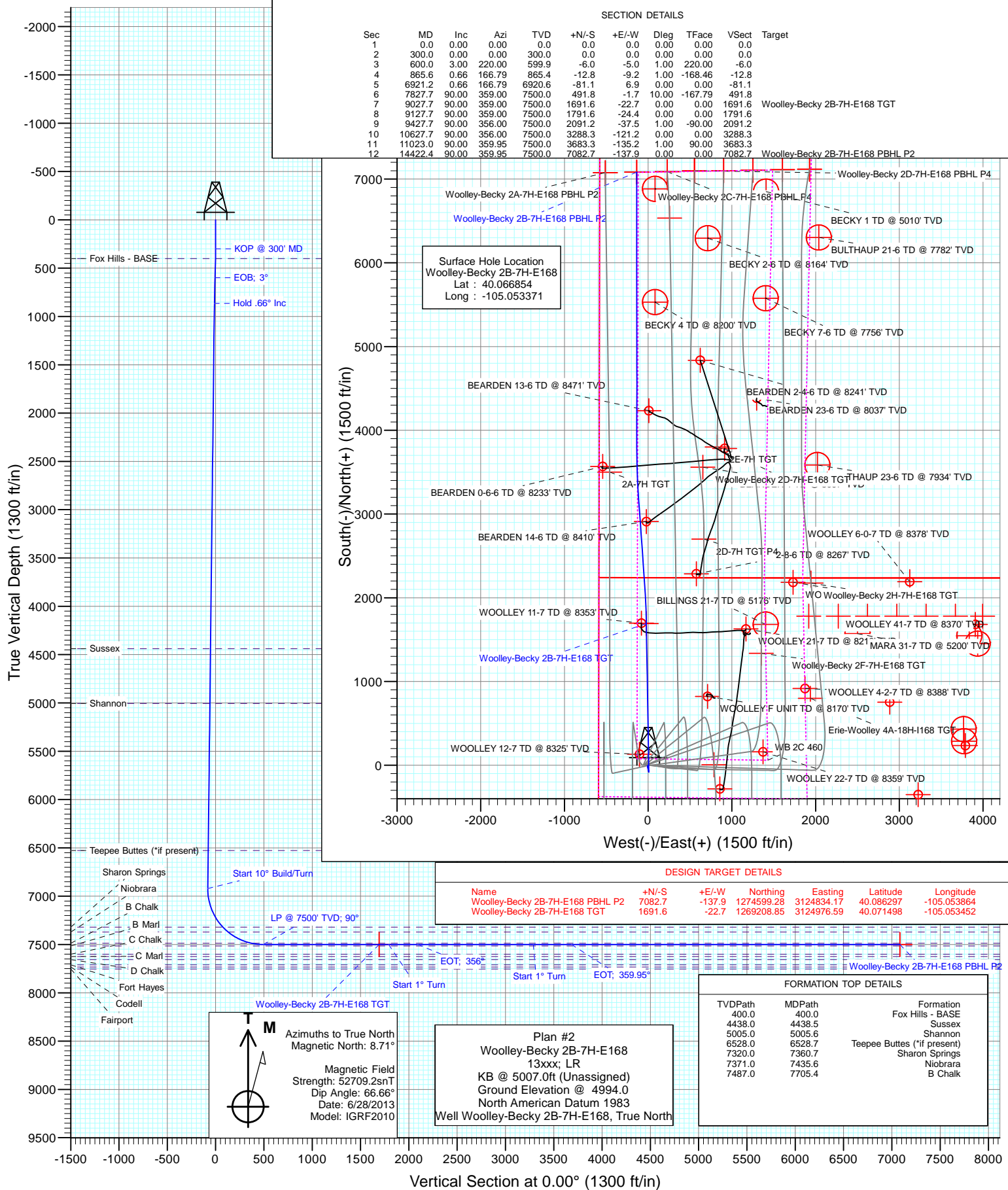




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2B-7H-E168
Wellbore: Hz
Design: Plan #2



Cathedral Energy Services

Planning Report

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

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

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

Well	Woolley-Becky 2B-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.41 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,125,007.78 ft	Longitude:	-105.053371
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,994.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/28/2013	8.71	66.66	52,709

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	3.00	220.00	599.9	-6.0	-5.0	1.00	1.00	0.00	220.00	
865.6	0.66	166.79	865.4	-12.8	-9.2	1.00	-0.88	-20.03	-168.46	
6,921.2	0.66	166.79	6,920.6	-81.1	6.9	0.00	0.00	0.00	0.00	
7,827.7	90.00	359.00	7,500.0	491.8	-1.7	10.00	9.86	-18.51	-167.79	
9,027.7	90.00	359.00	7,500.0	1,691.6	-22.7	0.00	0.00	0.00	0.00	Woolley-Becky 2B-7H
9,127.7	90.00	359.00	7,500.0	1,791.6	-24.4	0.00	0.00	0.00	0.00	
9,427.7	90.00	356.00	7,500.0	2,091.2	-37.5	1.00	0.00	-1.00	-90.00	
10,627.7	90.00	356.00	7,500.0	3,288.3	-121.2	0.00	0.00	0.00	0.00	
11,023.0	90.00	359.95	7,500.0	3,683.3	-135.2	1.00	0.00	1.00	90.00	
14,422.4	90.00	359.95	7,500.0	7,082.7	-137.9	0.00	0.00	0.00	0.00	Woolley-Becky 2B-7H

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300' MD
400.0	1.00	220.00	400.0	-0.7	-0.6	-0.7	1.00	1.00	Fox Hills - BASE
500.0	2.00	220.00	500.0	-2.7	-2.2	-2.7	1.00	1.00	
600.0	3.00	220.00	599.9	-6.0	-5.0	-6.0	1.00	1.00	EOB; 3°
700.0	2.03	214.34	699.8	-9.5	-7.7	-9.5	1.00	-0.97	
800.0	1.11	198.97	799.7	-11.9	-9.0	-11.9	1.00	-0.92	
865.6	0.66	166.79	865.4	-12.8	-9.2	-12.8	1.00	-0.69	Hold .66° Inc
900.0	0.66	166.79	899.7	-13.2	-9.1	-13.2	0.00	0.00	
1,000.0	0.66	166.79	999.7	-14.4	-8.8	-14.4	0.00	0.00	
1,100.0	0.66	166.79	1,099.7	-15.5	-8.5	-15.5	0.00	0.00	
1,200.0	0.66	166.79	1,199.7	-16.6	-8.3	-16.6	0.00	0.00	
1,300.0	0.66	166.79	1,299.7	-17.7	-8.0	-17.7	0.00	0.00	
1,400.0	0.66	166.79	1,399.7	-18.9	-7.8	-18.9	0.00	0.00	
1,500.0	0.66	166.79	1,499.7	-20.0	-7.5	-20.0	0.00	0.00	
1,600.0	0.66	166.79	1,599.7	-21.1	-7.2	-21.1	0.00	0.00	
1,700.0	0.66	166.79	1,699.7	-22.2	-7.0	-22.2	0.00	0.00	
1,800.0	0.66	166.79	1,799.7	-23.4	-6.7	-23.4	0.00	0.00	
1,900.0	0.66	166.79	1,899.7	-24.5	-6.4	-24.5	0.00	0.00	
2,000.0	0.66	166.79	1,999.6	-25.6	-6.2	-25.6	0.00	0.00	
2,100.0	0.66	166.79	2,099.6	-26.8	-5.9	-26.8	0.00	0.00	
2,200.0	0.66	166.79	2,199.6	-27.9	-5.6	-27.9	0.00	0.00	
2,300.0	0.66	166.79	2,299.6	-29.0	-5.4	-29.0	0.00	0.00	
2,400.0	0.66	166.79	2,399.6	-30.1	-5.1	-30.1	0.00	0.00	
2,500.0	0.66	166.79	2,499.6	-31.3	-4.8	-31.3	0.00	0.00	
2,600.0	0.66	166.79	2,599.6	-32.4	-4.6	-32.4	0.00	0.00	
2,700.0	0.66	166.79	2,699.6	-33.5	-4.3	-33.5	0.00	0.00	
2,800.0	0.66	166.79	2,799.6	-34.6	-4.0	-34.6	0.00	0.00	
2,900.0	0.66	166.79	2,899.6	-35.8	-3.8	-35.8	0.00	0.00	
3,000.0	0.66	166.79	2,999.6	-36.9	-3.5	-36.9	0.00	0.00	
3,100.0	0.66	166.79	3,099.6	-38.0	-3.3	-38.0	0.00	0.00	
3,200.0	0.66	166.79	3,199.6	-39.2	-3.0	-39.2	0.00	0.00	
3,300.0	0.66	166.79	3,299.6	-40.3	-2.7	-40.3	0.00	0.00	
3,400.0	0.66	166.79	3,399.5	-41.4	-2.5	-41.4	0.00	0.00	
3,500.0	0.66	166.79	3,499.5	-42.5	-2.2	-42.5	0.00	0.00	
3,600.0	0.66	166.79	3,599.5	-43.7	-1.9	-43.7	0.00	0.00	
3,700.0	0.66	166.79	3,699.5	-44.8	-1.7	-44.8	0.00	0.00	
3,800.0	0.66	166.79	3,799.5	-45.9	-1.4	-45.9	0.00	0.00	
3,900.0	0.66	166.79	3,899.5	-47.0	-1.1	-47.0	0.00	0.00	
4,000.0	0.66	166.79	3,999.5	-48.2	-0.9	-48.2	0.00	0.00	
4,100.0	0.66	166.79	4,099.5	-49.3	-0.6	-49.3	0.00	0.00	
4,200.0	0.66	166.79	4,199.5	-50.4	-0.3	-50.4	0.00	0.00	
4,300.0	0.66	166.79	4,299.5	-51.5	-0.1	-51.5	0.00	0.00	
4,400.0	0.66	166.79	4,399.5	-52.7	0.2	-52.7	0.00	0.00	
4,438.5	0.66	166.79	4,438.0	-53.1	0.3	-53.1	0.00	0.00	Sussex
4,500.0	0.66	166.79	4,499.5	-53.8	0.5	-53.8	0.00	0.00	
4,600.0	0.66	166.79	4,599.5	-54.9	0.7	-54.9	0.00	0.00	
4,700.0	0.66	166.79	4,699.5	-56.1	1.0	-56.1	0.00	0.00	
4,800.0	0.66	166.79	4,799.5	-57.2	1.2	-57.2	0.00	0.00	
4,900.0	0.66	166.79	4,899.4	-58.3	1.5	-58.3	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	0.66	166.79	4,999.4	-59.4	1.8	-59.4	0.00	0.00	
5,005.6	0.66	166.79	5,005.0	-59.5	1.8	-59.5	0.00	0.00	Shannon
5,100.0	0.66	166.79	5,099.4	-60.6	2.0	-60.6	0.00	0.00	
5,200.0	0.66	166.79	5,199.4	-61.7	2.3	-61.7	0.00	0.00	
5,300.0	0.66	166.79	5,299.4	-62.8	2.6	-62.8	0.00	0.00	
5,400.0	0.66	166.79	5,399.4	-63.9	2.8	-63.9	0.00	0.00	
5,500.0	0.66	166.79	5,499.4	-65.1	3.1	-65.1	0.00	0.00	
5,600.0	0.66	166.79	5,599.4	-66.2	3.4	-66.2	0.00	0.00	
5,700.0	0.66	166.79	5,699.4	-67.3	3.6	-67.3	0.00	0.00	
5,800.0	0.66	166.79	5,799.4	-68.5	3.9	-68.5	0.00	0.00	
5,900.0	0.66	166.79	5,899.4	-69.6	4.2	-69.6	0.00	0.00	
6,000.0	0.66	166.79	5,999.4	-70.7	4.4	-70.7	0.00	0.00	
6,100.0	0.66	166.79	6,099.4	-71.8	4.7	-71.8	0.00	0.00	
6,200.0	0.66	166.79	6,199.4	-73.0	4.9	-73.0	0.00	0.00	
6,300.0	0.66	166.79	6,299.4	-74.1	5.2	-74.1	0.00	0.00	
6,400.0	0.66	166.79	6,399.3	-75.2	5.5	-75.2	0.00	0.00	
6,500.0	0.66	166.79	6,499.3	-76.3	5.7	-76.3	0.00	0.00	
6,528.7	0.66	166.79	6,528.0	-76.7	5.8	-76.7	0.00	0.00	Teepee Buttes (*if present)
6,600.0	0.66	166.79	6,599.3	-77.5	6.0	-77.5	0.00	0.00	
6,700.0	0.66	166.79	6,699.3	-78.6	6.3	-78.6	0.00	0.00	
6,800.0	0.66	166.79	6,799.3	-79.7	6.5	-79.7	0.00	0.00	
6,900.0	0.66	166.79	6,899.3	-80.9	6.8	-80.9	0.00	0.00	
6,921.2	0.66	166.79	6,920.6	-81.1	6.9	-81.1	0.00	0.00	Start 10° Build/Turn
6,950.0	2.23	2.60	6,949.3	-80.7	6.9	-80.7	10.00	5.45	
7,000.0	7.23	0.11	6,999.1	-76.6	7.0	-76.6	10.00	9.99	
7,050.0	12.23	359.65	7,048.4	-68.1	6.9	-68.1	10.00	10.00	
7,100.0	17.23	359.45	7,096.7	-55.4	6.8	-55.4	10.00	10.00	
7,150.0	22.23	359.34	7,143.8	-38.6	6.7	-38.6	10.00	10.00	
7,200.0	27.23	359.27	7,189.2	-17.6	6.4	-17.6	10.00	10.00	
7,250.0	32.23	359.22	7,232.6	7.1	6.1	7.1	10.00	10.00	
7,300.0	37.23	359.18	7,273.7	35.6	5.7	35.6	10.00	10.00	
7,350.0	42.23	359.15	7,312.1	67.6	5.2	67.6	10.00	10.00	
7,360.7	43.30	359.15	7,320.0	74.8	5.1	74.8	10.00	10.00	Sharon Springs
7,400.0	47.23	359.13	7,347.6	102.7	4.7	102.7	10.00	10.00	
7,435.6	50.79	359.11	7,371.0	129.6	4.3	129.6	10.00	10.00	Niobrara
7,450.0	52.23	359.11	7,379.9	140.9	4.1	140.9	10.00	10.00	
7,500.0	57.23	359.09	7,408.8	181.7	3.5	181.7	10.00	10.00	
7,550.0	62.23	359.07	7,434.0	224.8	2.8	224.8	10.00	10.00	
7,600.0	67.23	359.06	7,455.3	270.0	2.0	270.0	10.00	10.00	
7,650.0	72.23	359.04	7,472.7	316.9	1.3	316.9	10.00	10.00	
7,700.0	77.23	359.03	7,485.8	365.1	0.5	365.1	10.00	10.00	
7,705.4	77.77	359.03	7,487.0	370.4	0.4	370.4	10.00	10.00	B Chalk
7,750.0	82.23	359.02	7,494.7	414.3	-0.4	414.3	10.00	10.00	
7,800.0	87.23	359.01	7,499.3	464.0	-1.2	464.0	10.00	10.00	
7,827.7	90.00	359.00	7,500.0	491.8	-1.7	491.8	10.00	10.00	LP @ 7500' TVD; 90°
7,900.0	90.00	359.00	7,500.0	564.0	-3.0	564.0	0.00	0.00	
8,000.0	90.00	359.00	7,500.0	664.0	-4.7	664.0	0.00	0.00	
8,100.0	90.00	359.00	7,500.0	764.0	-6.5	764.0	0.00	0.00	
8,200.0	90.00	359.00	7,500.0	864.0	-8.2	864.0	0.00	0.00	
8,300.0	90.00	359.00	7,500.0	964.0	-10.0	964.0	0.00	0.00	
8,400.0	90.00	359.00	7,500.0	1,063.9	-11.7	1,063.9	0.00	0.00	
8,500.0	90.00	359.00	7,500.0	1,163.9	-13.5	1,163.9	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,600.0	90.00	359.00	7,500.0	1,263.9	-15.2	1,263.9	0.00	0.00	
8,700.0	90.00	359.00	7,500.0	1,363.9	-16.9	1,363.9	0.00	0.00	
8,800.0	90.00	359.00	7,500.0	1,463.9	-18.7	1,463.9	0.00	0.00	
8,900.0	90.00	359.00	7,500.0	1,563.9	-20.4	1,563.9	0.00	0.00	
9,000.0	90.00	359.00	7,500.0	1,663.9	-22.2	1,663.9	0.00	0.00	
9,027.7	90.00	359.00	7,500.0	1,691.6	-22.7	1,691.6	0.00	0.00	
9,100.0	90.00	359.00	7,500.0	1,763.8	-23.9	1,763.8	0.00	0.00	
9,127.7	90.00	359.00	7,500.0	1,791.5	-24.4	1,791.5	0.00	0.00	Start 1° Turn
9,200.0	90.00	358.28	7,500.0	1,863.8	-26.1	1,863.8	1.00	0.00	
9,300.0	90.00	357.28	7,500.0	1,963.7	-30.0	1,963.7	1.00	0.00	
9,400.0	90.00	356.28	7,500.0	2,063.6	-35.6	2,063.6	1.00	0.00	
9,427.7	90.00	356.00	7,500.0	2,091.2	-37.5	2,091.2	1.00	0.00	EOT; 356°
9,500.0	90.00	356.00	7,500.0	2,163.3	-42.5	2,163.3	0.00	0.00	
9,600.0	90.00	356.00	7,500.0	2,263.1	-49.5	2,263.1	0.00	0.00	
9,700.0	90.00	356.00	7,500.0	2,362.9	-56.5	2,362.9	0.00	0.00	
9,800.0	90.00	356.00	7,500.0	2,462.6	-63.5	2,462.6	0.00	0.00	
9,900.0	90.00	356.00	7,500.0	2,562.4	-70.4	2,562.4	0.00	0.00	
10,000.0	90.00	356.00	7,500.0	2,662.1	-77.4	2,662.1	0.00	0.00	
10,100.0	90.00	356.00	7,500.0	2,761.9	-84.4	2,761.9	0.00	0.00	
10,200.0	90.00	356.00	7,500.0	2,861.6	-91.4	2,861.6	0.00	0.00	
10,300.0	90.00	356.00	7,500.0	2,961.4	-98.3	2,961.4	0.00	0.00	
10,400.0	90.00	356.00	7,500.0	3,061.1	-105.3	3,061.1	0.00	0.00	
10,500.0	90.00	356.00	7,500.0	3,160.9	-112.3	3,160.9	0.00	0.00	
10,600.0	90.00	356.00	7,500.0	3,260.7	-119.3	3,260.7	0.00	0.00	
10,627.7	90.00	356.00	7,500.0	3,288.3	-121.2	3,288.3	0.00	0.00	Start 1° Turn
10,700.0	90.00	356.72	7,500.0	3,360.4	-125.8	3,360.4	1.00	0.00	
10,800.0	90.00	357.72	7,500.0	3,460.3	-130.6	3,460.3	1.00	0.00	
10,900.0	90.00	358.72	7,500.0	3,560.3	-133.7	3,560.3	1.00	0.00	
11,000.0	90.00	359.72	7,500.0	3,660.3	-135.1	3,660.3	1.00	0.00	
11,023.0	90.00	359.95	7,500.0	3,683.3	-135.2	3,683.3	1.00	0.00	EOT; 359.95°
11,100.0	90.00	359.95	7,500.0	3,760.3	-135.2	3,760.3	0.00	0.00	
11,200.0	90.00	359.95	7,500.0	3,860.3	-135.3	3,860.3	0.00	0.00	
11,300.0	90.00	359.95	7,500.0	3,960.3	-135.4	3,960.3	0.00	0.00	
11,400.0	90.00	359.95	7,500.0	4,060.3	-135.5	4,060.3	0.00	0.00	
11,500.0	90.00	359.95	7,500.0	4,160.3	-135.5	4,160.3	0.00	0.00	
11,600.0	90.00	359.95	7,500.0	4,260.3	-135.6	4,260.3	0.00	0.00	
11,700.0	90.00	359.95	7,500.0	4,360.3	-135.7	4,360.3	0.00	0.00	
11,800.0	90.00	359.95	7,500.0	4,460.3	-135.8	4,460.3	0.00	0.00	
11,900.0	90.00	359.95	7,500.0	4,560.3	-135.9	4,560.3	0.00	0.00	
12,000.0	90.00	359.95	7,500.0	4,660.3	-136.0	4,660.3	0.00	0.00	
12,100.0	90.00	359.95	7,500.0	4,760.3	-136.0	4,760.3	0.00	0.00	
12,200.0	90.00	359.95	7,500.0	4,860.3	-136.1	4,860.3	0.00	0.00	
12,300.0	90.00	359.95	7,500.0	4,960.3	-136.2	4,960.3	0.00	0.00	
12,400.0	90.00	359.95	7,500.0	5,060.3	-136.3	5,060.3	0.00	0.00	
12,500.0	90.00	359.95	7,500.0	5,160.3	-136.4	5,160.3	0.00	0.00	
12,600.0	90.00	359.95	7,500.0	5,260.3	-136.4	5,260.3	0.00	0.00	
12,700.0	90.00	359.95	7,500.0	5,360.3	-136.5	5,360.3	0.00	0.00	
12,800.0	90.00	359.95	7,500.0	5,460.3	-136.6	5,460.3	0.00	0.00	
12,900.0	90.00	359.95	7,500.0	5,560.3	-136.7	5,560.3	0.00	0.00	
13,000.0	90.00	359.95	7,500.0	5,660.3	-136.8	5,660.3	0.00	0.00	
13,100.0	90.00	359.95	7,500.0	5,760.3	-136.9	5,760.3	0.00	0.00	
13,200.0	90.00	359.95	7,500.0	5,860.3	-136.9	5,860.3	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
13,300.0	90.00	359.95	7,500.0	5,960.3	-137.0	5,960.3	0.00	0.00	
13,400.0	90.00	359.95	7,500.0	6,060.3	-137.1	6,060.3	0.00	0.00	
13,500.0	90.00	359.95	7,500.0	6,160.3	-137.2	6,160.3	0.00	0.00	
13,600.0	90.00	359.95	7,500.0	6,260.3	-137.3	6,260.3	0.00	0.00	
13,700.0	90.00	359.95	7,500.0	6,360.3	-137.3	6,360.3	0.00	0.00	
13,800.0	90.00	359.95	7,500.0	6,460.3	-137.4	6,460.3	0.00	0.00	
13,900.0	90.00	359.95	7,500.0	6,560.3	-137.5	6,560.3	0.00	0.00	
14,000.0	90.00	359.95	7,500.0	6,660.3	-137.6	6,660.3	0.00	0.00	
14,100.0	90.00	359.95	7,500.0	6,760.3	-137.7	6,760.3	0.00	0.00	
14,200.0	90.00	359.95	7,500.0	6,860.3	-137.8	6,860.3	0.00	0.00	
14,300.0	90.00	359.95	7,500.0	6,960.3	-137.8	6,960.3	0.00	0.00	
14,400.0	90.00	359.95	7,500.0	7,060.3	-137.9	7,060.3	0.00	0.00	
14,422.4	90.00	359.95	7,500.0	7,082.7	-137.9	7,082.7	0.00	0.00	TD at 14422.4

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 2B-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	1,691.6	-22.7	1,269,208.85	3,124,976.59	40.071498	-105.053452
Woolley-Becky 2B-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	7,082.7	-137.9	1,274,599.28	3,124,834.17	40.086297	-105.053864
Woolley-Becky 2B-7H-E - plan misses target center by 72.0ft at 14422.4ft MD (7500.0 TVD, 7082.7 N, -137.9 E) - Point	0.00	0.00	7,572.0	7,083.8	-136.8	1,274,600.38	3,124,835.28	40.086300	-105.053860

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
400.0	400.0	Fox Hills - BASE			
4,438.5	4,438.0	Sussex			
5,005.6	5,005.0	Shannon			
6,528.7	6,528.0	Teepee Buttes (*if present)			
7,360.7	7,320.0	Sharon Springs			
7,435.6	7,371.0	Niobrara			
7,705.4	7,487.0	B Chalk			

Cathedral Energy Services

Planning Report

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

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300' MD
600.0	599.9	-6.0	-5.0	EOB; 3°
865.6	865.4	-12.8	-9.2	Hold .66° Inc
6,921.2	6,920.6	-81.1	6.9	Start 10° Build/Turn
7,827.7	7,500.0	491.8	-1.7	LP @ 7500' TVD; 90°
9,127.7	7,500.0	1,791.5	-24.4	Start 1° Turn
9,427.7	7,500.0	2,091.2	-37.5	EOT; 356°
10,627.7	7,500.0	3,288.3	-121.2	Start 1° Turn
11,023.0	7,500.0	3,683.3	-135.2	EOT; 359.95°
14,422.4	7,500.0	7,082.7	-137.9	TD at 14422.4

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2B-7H-E168

Hz

Plan #2

Anticollision Report

10 December, 2014

Cathedral Energy Services

Anticollision Report

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

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

Survey Tool Program	Date	12/9/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,422.4	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	10,908.7	7,731.9	413.5	334.5	5.236	CC, ES, SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,112.4	7,476.9	1,045.8	963.5	12.706	CC, ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,300.0	7,478.7	1,062.5	976.9	12.420	SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,565.8	7,602.2	149.1	55.7	1.597	CC, ES, SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,232.9	7,651.1	71.8	0.2	1.003	Level 2, CC, ES, SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,694.9	7,453.5	1,426.8	1,334.6	15.473	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,700.0	7,453.7	1,426.8	1,334.5	15.458	ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,100.0	7,472.7	1,483.0	1,383.8	14.940	SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,175.0	7,610.5	757.7	645.7	6.769	CC
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,200.0	7,610.5	758.1	645.7	6.746	ES
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,300.0	7,610.5	767.9	653.8	6.730	SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,570.5	7,684.1	628.1	558.9	9.082	CC, ES
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,700.0	7,684.4	641.3	570.0	8.990	SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,632.7	7,453.0	848.6	722.8	6.745	CC, ES
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,700.0	7,453.0	851.2	724.2	6.703	SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	12,870.4	7,457.0	218.7	106.1	1.943	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,222.9	7,448.0	219.2	83.1	1.611	CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	12,915.6	7,454.0	1,540.0	1,426.7	13.588	CC, ES
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,300.0	7,454.0	1,587.2	1,467.2	13.224	SF
Thomas 7-12 (Existing) - Existing - NO SURVEYS	6,927.6	6,914.9	907.0	882.8	37.572	CC, ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	6,950.0	6,937.3	907.4	883.2	37.493	SF
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	8,981.7	7,712.5	61.2	14.7	1.316	Level 3, CC, ES, SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	7,440.2	7,461.9	107.8	81.5	4.105	CC, ES, SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	8,923.7	7,500.0	1,174.7	1,129.5	25.985	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,400.0	7,517.7	1,273.4	1,220.4	24.010	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	6,967.8	7,413.1	888.6	840.9	18.623	CC, ES
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,000.0	7,445.9	888.8	841.1	18.608	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,157.0	7,527.5	705.5	671.8	20.978	CC, ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,400.0	7,507.3	745.9	708.8	20.130	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	200.0	200.0	10.1	9.4	15.436	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	14,422.4	14,682.3	445.2	230.5	2.074	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	300.0	300.0	10.1	9.1	10.057	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	14,422.4	14,632.3	437.0	223.7	2.049	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	300.0	300.0	19.9	18.9	19.835	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	14,422.4	14,424.3	689.5	436.5	2.726	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	300.0	300.0	29.9	28.9	29.893	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,422.4	14,653.6	1,066.6	820.1	4.327	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	300.0	300.0	40.0	39.0	39.952	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	14,422.4	14,215.3	1,385.0	1,133.4	5.504	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	233.3	233.3	49.8	49.1	64.775	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	300.0	299.6	50.0	49.0	49.978	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #2	14,422.4	14,825.5	1,756.7	1,505.6	6.996	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	200.0	200.0	59.9	59.2	91.758	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	14,422.4	14,448.5	2,033.9	1,785.2	8.179	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	792.4	790.0	520.7	517.9	183.049	CC
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	7,754.1	7,528.7	527.8	497.4	17.364	ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	7,900.0	7,465.5	542.8	510.8	16.951	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	300.0	300.0	70.0	69.0	69.844	CC
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	500.0	498.3	70.2	68.5	41.222	ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	7,550.0	7,553.0	189.0	161.6	6.886	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	770.2	770.2	51.3	48.6	19.023	CC
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	800.0	799.9	51.4	48.6	18.306	ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	7,750.0	7,529.8	201.2	170.8	6.634	SF

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

Cathedral Energy Services

Anticollision Report

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

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	854.4	854.7	40.2	37.2	13.463	CC
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	865.6	865.9	40.2	37.2	13.283	ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	1,100.0	1,099.0	45.5	41.6	11.668	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	793.3	793.1	33.2	30.4	12.067	CC
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	1,300.0	1,300.1	34.4	29.9	7.608	ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	1,500.0	1,499.5	37.1	31.9	7.084	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	691.7	692.1	17.8	15.4	7.342	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	700.0	700.3	17.8	15.4	7.257	ES, SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	564.2	564.5	10.0	8.0	5.059	CC, ES, SF

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU										Offset Site Error: 0.0 ft			
Survey Program: 46-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (")	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	15.09	3,634.0	979.7	3,763.8				
100.0	100.0	71.0	71.0	0.2	0.1	15.09	3,634.2	979.6	3,763.9	3,763.7	0.25	N/A	
200.0	200.0	157.3	157.3	0.3	0.3	15.08	3,634.8	979.3	3,764.5	3,763.9	0.58	6,510.542	
300.0	300.0	226.0	226.0	0.5	0.4	15.07	3,635.6	978.8	3,765.5	3,764.7	0.87	4,314.983	
400.0	400.0	320.8	320.7	0.7	0.5	155.04	3,637.5	977.8	3,767.9	3,766.7	1.22	3,099.115	
500.0	500.0	409.8	409.8	0.9	0.7	155.00	3,639.7	975.6	3,772.1	3,770.6	1.55	2,429.414	
600.0	599.9	519.1	518.8	1.0	0.9	154.91	3,643.5	970.1	3,778.1	3,776.1	1.94	1,944.621	
700.0	699.8	756.8	755.0	1.2	1.5	160.25	3,649.4	944.7	3,781.5	3,778.8	2.69	1,404.616	
800.0	799.7	849.1	846.5	1.4	1.7	175.46	3,650.7	932.9	3,782.3	3,779.2	3.11	1,215.390	
865.6	865.4	895.7	892.7	1.5	1.9	-152.46	3,651.6	926.8	3,782.3	3,779.0	3.35	1,127.632	
883.8	883.5	912.0	908.9	1.5	1.9	-152.50	3,651.9	924.7	3,782.3	3,778.9	3.43	1,102.509	
900.0	899.7	927.0	923.7	1.6	2.0	-152.53	3,652.3	922.7	3,782.3	3,778.8	3.50	1,079.805	
1,000.0	999.7	1,193.8	1,187.1	1.7	2.8	-153.19	3,654.7	880.1	3,780.6	3,776.1	4.52	835.654	
1,100.0	1,099.7	1,303.0	1,294.3	1.9	3.2	-153.49	3,653.5	859.6	3,776.1	3,771.1	5.08	742.725	
1,200.0	1,199.7	1,427.7	1,416.4	2.1	3.7	-153.88	3,652.2	833.9	3,771.4	3,765.7	5.74	656.772	
1,300.0	1,299.7	1,595.0	1,578.5	2.3	4.5	-154.50	3,650.0	792.6	3,765.7	3,759.0	6.69	563.273	
1,400.0	1,399.7	1,808.5	1,781.4	2.4	5.7	-155.48	3,644.6	726.7	3,757.4	3,749.4	8.06	466.167	
1,500.0	1,499.7	1,900.7	1,867.9	2.6	6.3	-155.96	3,641.5	694.7	3,747.9	3,739.1	8.81	425.367	
1,600.0	1,599.7	2,005.2	1,965.5	2.8	7.0	-156.52	3,638.4	657.6	3,738.9	3,729.3	9.65	387.345	
1,700.0	1,699.7	2,110.8	2,064.1	3.0	7.7	-157.09	3,634.7	620.0	3,729.7	3,719.2	10.52	354.657	
1,800.0	1,799.7	2,181.7	2,130.2	3.1	8.1	-157.47	3,632.4	594.6	3,721.0	3,709.9	11.15	333.587	
1,900.0	1,899.7	2,281.7	2,223.7	3.3	8.8	-158.01	3,629.3	559.1	3,713.0	3,701.0	11.98	309.885	
2,000.0	1,999.6	2,352.3	2,289.8	3.5	9.3	-158.39	3,627.2	534.4	3,705.3	3,692.7	12.61	293.732	
2,100.0	2,099.6	2,457.2	2,388.0	3.7	9.9	-158.95	3,624.3	497.9	3,698.2	3,684.8	13.47	274.463	
2,200.0	2,199.6	2,557.8	2,482.4	3.9	10.6	-159.49	3,621.3	462.9	3,691.2	3,676.9	14.31	257.965	
2,300.0	2,299.6	2,685.3	2,601.7	4.0	11.4	-160.18	3,616.7	418.1	3,683.9	3,668.6	15.33	240.374	
2,400.0	2,399.6	2,767.2	2,678.4	4.2	12.0	-160.62	3,613.2	389.9	3,676.6	3,660.5	16.03	229.308	
2,500.0	2,499.6	2,827.3	2,734.9	4.4	12.4	-160.94	3,611.1	369.3	3,670.2	3,653.6	16.60	221.107	
2,600.0	2,599.6	2,884.0	2,788.1	4.6	12.7	-161.24	3,609.8	350.0	3,665.1	3,648.0	17.14	213.797	
2,700.0	2,699.6	2,967.7	2,867.0	4.7	13.3	-161.68	3,608.3	322.1	3,661.0	3,643.1	17.84	205.179	
2,800.0	2,799.6	3,113.2	3,003.6	4.9	14.2	-162.46	3,603.8	272.0	3,655.5	3,636.5	19.00	192.401	
2,900.0	2,899.6	3,178.3	3,064.4	5.1	14.7	-162.82	3,602.2	249.0	3,651.2	3,631.6	19.62	186.089	
3,000.0	2,999.6	3,253.8	3,134.9	5.3	15.2	-163.25	3,600.8	222.0	3,647.8	3,627.5	20.31	179.601	
3,100.0	3,099.6	3,345.7	3,221.0	5.4	15.8	-163.76	3,599.2	189.9	3,645.0	3,623.9	21.10	172.732	
3,200.0	3,199.6	3,444.1	3,313.3	5.6	16.4	-164.30	3,597.5	155.7	3,642.4	3,620.5	21.94	166.046	
3,300.0	3,299.6	3,575.8	3,436.7	5.8	17.3	-165.02	3,594.6	110.0	3,639.8	3,616.8	22.99	158.296	
3,400.0	3,399.5	3,700.3	3,553.3	6.0	18.1	-165.71	3,590.2	66.4	3,636.2	3,612.2	24.01	151.432	
3,500.0	3,499.5	3,796.7	3,643.5	6.1	18.8	-166.24	3,586.6	32.8	3,632.9	3,608.0	24.83	146.296	
3,600.0	3,599.5	3,865.7	3,708.2	6.3	19.2	-166.62	3,584.1	9.0	3,629.9	3,604.5	25.47	142.524	
3,700.0	3,699.5	3,925.6	3,764.4	6.5	19.6	-166.95	3,582.6	-11.8	3,628.3	3,602.2	26.05	139.300	
3,800.0	3,799.5	4,043.4	3,874.7	6.7	20.4	-167.61	3,579.7	-53.1	3,627.1	3,600.1	27.02	134.230	
3,900.0	3,899.5	4,136.8	3,962.0	6.8	21.1	-168.14	3,576.9	-86.4	3,625.8	3,597.9	27.85	130.210	
4,000.0	3,999.5	4,224.4	4,043.4	7.0	21.7	-168.65	3,574.5	-118.5	3,625.0	3,596.4	28.65	126.529	
4,100.0	4,099.5	4,315.1	4,127.5	7.2	22.3	-169.19	3,572.0	-152.6	3,624.7	3,595.2	29.47	122.981	
4,200.0	4,199.5	4,461.1	4,263.5	7.4	23.3	-170.03	3,567.0	-205.2	3,624.1	3,593.5	30.64	118.264	
4,300.0	4,299.5	4,544.3	4,341.3	7.5	23.9	-170.50	3,563.7	-234.5	3,623.3	3,591.9	31.38	115.456	
4,343.1	4,342.6	4,572.8	4,368.0	7.6	24.1	-170.66	3,562.6	-244.6	3,623.2	3,591.5	31.65	114.468	
4,400.0	4,399.5	4,612.0	4,404.6	7.7	24.4	-170.88	3,561.4	-258.5	3,623.3	3,591.3	32.02	113.166	
4,500.0	4,499.5	4,688.1	4,475.7	7.9	24.9	-171.31	3,559.2	-285.5	3,624.3	3,591.6	32.70	110.829	
4,600.0	4,599.5	4,770.0	4,552.7	8.1	25.4	-171.76	3,557.2	-313.4	3,625.9	3,592.5	33.39	108.585	
4,700.0	4,699.5	4,856.0	4,633.9	8.2	25.9	-172.21	3,555.5	-341.7	3,628.1	3,594.0	34.10	106.410	
4,800.0	4,799.5	4,942.8	4,716.3	8.4	26.4	-172.64	3,554.2	-368.9	3,630.9	3,596.2	34.76	104.447	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 46-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
4,900.0	4,899.4	5,043.4	4,812.6	8.6	27.0	-173.10	3,553.0	-397.7	3,634.0	3,598.5	35.46	102.491	
5,000.0	4,999.4	5,158.0	4,923.3	8.8	27.5	-173.57	3,551.8	-427.4	3,637.2	3,601.0	36.16	100.577	
5,100.0	5,099.4	5,271.7	5,034.1	8.9	28.0	-173.97	3,550.1	-453.2	3,639.6	3,602.8	36.81	98.887	
5,200.0	5,199.4	5,366.4	5,126.8	9.1	28.3	-174.27	3,549.0	-472.1	3,642.2	3,604.9	37.32	97.582	
5,300.0	5,299.4	5,442.9	5,202.1	9.3	28.6	-174.49	3,548.6	-486.0	3,645.2	3,607.5	37.75	96.554	
5,400.0	5,399.4	5,563.3	5,321.0	9.5	28.9	-174.78	3,548.4	-504.5	3,648.4	3,610.1	38.26	95.356	
5,500.0	5,499.4	5,676.5	5,433.3	9.6	29.2	-175.00	3,548.4	-518.6	3,651.3	3,612.6	38.70	94.355	
5,600.0	5,599.4	5,791.8	5,548.1	9.8	29.4	-175.17	3,548.1	-528.9	3,653.4	3,614.4	39.08	93.476	
5,700.0	5,699.4	5,924.7	5,680.8	10.0	29.6	-175.31	3,547.6	-537.6	3,655.2	3,615.7	39.45	92.652	
5,800.0	5,799.4	6,032.4	5,788.4	10.2	29.8	-175.38	3,546.7	-541.9	3,656.1	3,616.4	39.75	91.983	
5,900.0	5,899.4	6,143.8	5,899.7	10.3	29.9	-175.43	3,546.0	-545.0	3,657.1	3,617.1	40.03	91.369	
6,000.0	5,999.4	6,243.9	5,999.8	10.5	29.9	-175.46	3,545.1	-546.9	3,657.6	3,617.3	40.29	90.785	
6,100.0	6,099.4	6,317.4	6,073.3	10.7	30.0	-175.48	3,544.8	-548.0	3,658.6	3,618.1	40.52	90.290	
6,200.0	6,199.4	6,399.0	6,154.9	10.9	30.1	-175.49	3,545.2	-549.0	3,660.5	3,619.7	40.76	89.808	
6,300.0	6,299.4	6,471.6	6,227.5	11.1	30.1	-175.50	3,546.1	-549.8	3,663.0	3,622.0	40.98	89.375	
6,400.0	6,399.3	6,559.4	6,315.3	11.2	30.2	-175.51	3,547.5	-550.4	3,665.8	3,624.6	41.22	88.933	
6,500.0	6,499.3	6,665.5	6,421.4	11.4	30.3	-175.52	3,549.4	-551.0	3,668.8	3,627.3	41.47	88.465	
6,600.0	6,599.3	6,776.5	6,532.3	11.6	30.4	-175.53	3,551.0	-551.7	3,671.5	3,629.7	41.72	87.993	
6,700.0	6,699.3	6,892.7	6,648.5	11.8	30.4	-175.53	3,552.3	-552.1	3,673.8	3,631.8	41.98	87.518	
6,800.0	6,799.3	6,998.7	6,754.5	11.9	30.5	-175.53	3,553.2	-552.2	3,675.8	3,633.6	42.23	87.050	
6,900.0	6,899.3	7,085.0	6,840.8	12.1	30.6	-175.53	3,553.9	-552.3	3,677.7	3,635.3	42.46	86.613	
6,921.2	6,920.6	7,115.3	6,871.2	12.1	30.6	-175.53	3,554.1	-552.4	3,678.1	3,635.6	42.52	86.499	
6,950.0	6,949.3	7,138.3	6,894.1	12.2	30.6	-11.35	3,554.3	-552.4	3,678.0	3,635.4	42.56	86.412	
7,000.0	6,999.1	7,178.0	6,933.8	12.3	30.6	-8.92	3,554.8	-552.6	3,674.5	3,632.1	42.42	86.630	
7,050.0	7,048.4	7,217.3	6,973.1	12.3	30.7	-8.59	3,555.3	-552.7	3,666.9	3,624.9	41.99	87.323	
7,100.0	7,096.7	7,256.1	7,011.9	12.4	30.7	-8.60	3,556.0	-553.0	3,655.2	3,613.9	41.30	88.506	
7,150.0	7,143.8	7,322.6	7,078.4	12.5	30.7	-8.79	3,557.1	-553.1	3,639.3	3,598.9	40.35	90.199	
7,200.0	7,189.2	7,386.7	7,142.5	12.5	30.8	-9.12	3,557.8	-552.7	3,619.1	3,579.9	39.15	92.444	
7,250.0	7,232.6	7,441.3	7,197.1	12.6	30.8	-9.58	3,558.3	-552.0	3,594.8	3,557.1	37.72	95.307	
7,300.0	7,273.7	7,480.1	7,235.9	12.7	30.8	-10.17	3,558.6	-551.3	3,566.9	3,530.8	36.08	98.873	
7,350.0	7,312.1	7,516.5	7,272.3	12.9	30.8	-10.95	3,559.0	-550.7	3,535.5	3,501.2	34.26	103.206	
7,400.0	7,347.6	7,550.3	7,306.0	13.1	30.8	-11.96	3,559.3	-550.1	3,500.9	3,468.6	32.30	108.386	
7,450.0	7,379.9	7,581.1	7,336.8	13.3	30.9	-13.28	3,559.6	-549.5	3,463.4	3,433.2	30.26	114.461	
7,500.0	7,408.8	7,613.8	7,369.5	13.5	30.9	-15.06	3,560.0	-548.9	3,423.3	3,395.1	28.21	121.349	
7,550.0	7,434.0	7,650.7	7,406.4	13.8	30.9	-17.58	3,560.3	-548.3	3,380.7	3,354.4	26.27	128.671	
7,600.0	7,455.3	7,681.6	7,437.4	14.2	30.9	-21.19	3,560.4	-547.8	3,336.0	3,311.4	24.63	135.440	
7,650.0	7,472.7	7,706.4	7,462.1	14.6	30.9	-26.61	3,560.5	-547.5	3,289.7	3,266.1	23.62	139.273	
7,700.0	7,485.8	7,725.0	7,480.7	15.0	30.9	-35.28	3,560.5	-547.4	3,242.0	3,218.1	23.83	136.034	
7,750.0	7,494.7	7,737.4	7,493.1	15.5	31.0	-50.08	3,560.4	-547.2	3,193.3	3,167.4	25.99	122.861	
7,800.0	7,499.3	7,743.5	7,499.3	16.0	31.0	-74.74	3,560.4	-547.2	3,144.2	3,114.9	29.23	107.581	
7,827.7	7,500.0	7,744.3	7,500.0	16.3	31.0	-91.87	3,560.4	-547.2	3,116.8	3,087.1	29.68	105.018	
7,900.0	7,500.0	7,743.9	7,499.6	17.2	31.0	-91.82	3,560.4	-547.2	3,045.4	3,014.9	30.51	99.826	
8,000.0	7,500.0	7,743.4	7,499.1	18.4	31.0	-91.76	3,560.4	-547.2	2,946.8	2,915.1	31.74	92.849	
8,100.0	7,500.0	7,742.9	7,498.6	19.7	31.0	-91.70	3,560.4	-547.2	2,848.2	2,815.2	33.05	86.188	
8,200.0	7,500.0	7,742.4	7,498.1	21.1	31.0	-91.64	3,560.4	-547.2	2,749.8	2,715.4	34.42	79.887	
8,300.0	7,500.0	7,741.9	7,497.6	22.5	31.0	-91.58	3,560.4	-547.2	2,651.5	2,615.6	35.85	73.963	
8,400.0	7,500.0	7,741.4	7,497.1	24.0	31.0	-91.53	3,560.4	-547.2	2,553.3	2,516.0	37.32	68.417	
8,500.0	7,500.0	7,740.9	7,496.7	25.5	31.0	-91.47	3,560.4	-547.2	2,455.2	2,416.4	38.83	63.236	
8,600.0	7,500.0	7,740.5	7,496.2	27.0	31.0	-91.42	3,560.4	-547.2	2,357.3	2,317.0	40.36	58.403	
8,700.0	7,500.0	7,740.0	7,495.8	28.6	31.0	-91.37	3,560.4	-547.2	2,259.6	2,217.7	41.93	53.897	
8,800.0	7,500.0	7,739.6	7,495.3	30.2	31.0	-91.32	3,560.4	-547.2	2,162.2	2,118.6	43.51	49.695	
8,900.0	7,500.0	7,739.2	7,494.9	31.8	31.0	-91.27	3,560.4	-547.2	2,064.9	2,019.8	45.11	45.775	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 46-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,000.0	7,500.0	7,738.8	7,494.5	33.4	31.0	-91.22	3,560.4	-547.2	1,967.9	1,921.2	46.73	42.115	
9,027.7	7,500.0	7,738.7	7,494.4	33.8	31.0	-91.21	3,560.4	-547.2	1,941.1	1,893.9	47.18	41.144	
9,100.0	7,500.0	7,738.4	7,494.1	35.0	31.0	-91.18	3,560.4	-547.2	1,871.3	1,822.9	48.36	38.697	
9,127.7	7,500.0	7,738.3	7,494.0	35.5	31.0	-91.17	3,560.4	-547.2	1,844.5	1,795.7	48.81	37.789	
9,200.0	7,500.0	7,738.0	7,493.7	36.6	31.0	-91.19	3,560.4	-547.2	1,774.9	1,724.9	49.97	35.516	
9,300.0	7,500.0	7,737.6	7,493.3	38.3	31.0	-91.21	3,560.4	-547.2	1,678.4	1,626.8	51.60	32.528	
9,400.0	7,500.0	7,737.2	7,492.9	40.0	31.0	-91.24	3,560.4	-547.2	1,581.9	1,528.6	53.24	29.712	
9,427.7	7,500.0	7,737.1	7,492.8	40.4	31.0	-91.24	3,560.4	-547.2	1,555.1	1,501.4	53.70	28.960	
9,500.0	7,500.0	7,736.8	7,492.5	41.6	31.0	-91.20	3,560.4	-547.2	1,485.5	1,430.6	54.91	27.055	
9,600.0	7,500.0	7,736.4	7,492.1	43.3	31.0	-91.14	3,560.4	-547.3	1,389.6	1,333.0	56.58	24.557	
9,700.0	7,500.0	7,736.0	7,491.7	45.0	31.0	-91.09	3,560.4	-547.3	1,294.3	1,236.0	58.27	22.212	
9,800.0	7,500.0	7,735.6	7,491.3	46.7	31.0	-91.03	3,560.4	-547.3	1,199.7	1,139.8	59.96	20.009	
9,900.0	7,500.0	7,735.2	7,491.0	48.4	31.0	-90.98	3,560.4	-547.3	1,106.1	1,044.5	61.65	17.942	
10,000.0	7,500.0	7,734.9	7,490.6	50.1	31.0	-90.93	3,560.4	-547.3	1,013.8	950.4	63.35	16.003	
10,100.0	7,500.0	7,734.5	7,490.2	51.8	31.0	-90.88	3,560.4	-547.3	923.0	858.0	65.05	14.189	
10,200.0	7,500.0	7,734.1	7,489.9	53.5	31.0	-90.83	3,560.4	-547.3	834.4	767.6	66.76	12.498	
10,300.0	7,500.0	7,733.8	7,489.5	55.2	31.0	-90.78	3,560.4	-547.3	748.6	680.1	68.47	10.933	
10,400.0	7,500.0	7,733.5	7,489.2	56.9	31.0	-90.73	3,560.4	-547.3	666.8	596.6	70.18	9.501	
10,500.0	7,500.0	7,733.1	7,488.9	58.6	31.0	-90.69	3,560.4	-547.3	590.6	518.7	71.90	8.215	
10,600.0	7,500.0	7,732.8	7,488.5	60.3	31.0	-90.64	3,560.4	-547.3	522.6	449.0	73.62	7.099	
10,627.7	7,500.0	7,732.7	7,488.4	60.8	31.0	-90.63	3,560.4	-547.3	505.6	431.5	74.09	6.823	
10,700.0	7,500.0	7,732.5	7,488.2	62.0	31.0	-90.59	3,560.4	-547.3	466.6	391.2	75.35	6.192	
10,800.0	7,500.0	7,732.2	7,487.9	63.7	31.0	-90.55	3,560.4	-547.3	428.5	351.4	77.08	5.560	
10,900.0	7,500.0	7,731.9	7,487.6	65.5	31.0	-90.51	3,560.4	-547.3	413.6	334.8	78.81	5.247	
10,908.7	7,500.0	7,731.9	7,487.6	65.6	31.0	-90.50	3,560.4	-547.3	413.5	334.5	78.97	5.236	CC, ES, SF
11,000.0	7,500.0	7,731.7	7,487.4	67.2	31.0	-90.47	3,560.4	-547.3	424.1	343.6	80.55	5.266	
11,023.0	7,500.0	7,731.6	7,487.3	67.6	31.0	-90.46	3,560.4	-547.3	430.1	349.1	80.95	5.313	
11,100.0	7,500.0	7,731.4	7,487.2	68.9	31.0	-90.44	3,560.4	-547.3	458.0	375.7	82.27	5.567	
11,200.0	7,500.0	7,731.2	7,486.9	70.6	31.0	-90.41	3,560.4	-547.3	509.6	425.6	84.00	6.066	
11,300.0	7,500.0	7,731.0	7,486.7	72.3	31.0	-90.37	3,560.4	-547.3	574.1	488.3	85.72	6.697	
11,400.0	7,500.0	7,730.7	7,486.5	74.1	31.0	-90.34	3,560.4	-547.3	647.6	560.2	87.45	7.406	
11,500.0	7,500.0	7,730.5	7,486.2	75.8	31.0	-90.31	3,560.4	-547.3	727.6	638.4	89.18	8.158	
11,600.0	7,500.0	7,730.3	7,486.0	77.5	31.0	-90.28	3,560.4	-547.3	811.9	721.0	90.91	8.931	
11,700.0	7,500.0	7,730.1	7,485.8	79.3	31.0	-90.25	3,560.4	-547.3	899.5	806.9	92.64	9.710	
11,800.0	7,500.0	7,729.9	7,485.6	81.0	31.0	-90.22	3,560.4	-547.3	989.5	895.1	94.37	10.485	
11,900.0	7,500.0	7,729.7	7,485.4	82.7	31.0	-90.20	3,560.4	-547.3	1,081.2	985.1	96.11	11.250	
12,000.0	7,500.0	7,729.5	7,485.2	84.5	31.0	-90.17	3,560.4	-547.3	1,174.2	1,076.4	97.84	12.002	
12,100.0	7,500.0	7,729.3	7,485.0	86.2	31.0	-90.14	3,560.4	-547.3	1,268.4	1,168.8	99.57	12.738	
12,200.0	7,500.0	7,729.1	7,484.8	87.9	31.0	-90.11	3,560.4	-547.3	1,363.3	1,262.0	101.31	13.457	
12,300.0	7,500.0	7,728.9	7,484.6	89.7	31.0	-90.09	3,560.4	-547.3	1,458.9	1,355.9	103.04	14.158	
12,400.0	7,500.0	7,728.7	7,484.4	91.4	31.0	-90.06	3,560.4	-547.3	1,555.1	1,450.3	104.78	14.842	
12,500.0	7,500.0	7,728.5	7,484.3	93.1	31.0	-90.04	3,560.4	-547.3	1,651.8	1,545.2	106.52	15.507	
12,600.0	7,500.0	7,728.3	7,484.1	94.9	31.0	-90.01	3,560.4	-547.3	1,748.8	1,640.5	108.26	16.154	
12,700.0	7,500.0	7,728.2	7,483.9	96.6	31.0	-89.99	3,560.4	-547.3	1,846.1	1,736.1	110.00	16.784	
12,800.0	7,500.0	7,728.0	7,483.7	98.3	30.9	-89.96	3,560.4	-547.3	1,943.7	1,832.0	111.73	17.396	
12,900.0	7,500.0	7,727.8	7,483.6	100.1	30.9	-89.94	3,560.4	-547.3	2,041.5	1,928.1	113.47	17.991	
13,000.0	7,500.0	7,727.6	7,483.4	101.8	30.9	-89.91	3,560.4	-547.3	2,139.6	2,024.4	115.21	18.571	
13,100.0	7,500.0	7,727.5	7,483.2	103.6	30.9	-89.89	3,560.4	-547.3	2,237.8	2,120.8	116.95	19.134	
13,200.0	7,500.0	7,727.3	7,483.1	105.3	30.9	-89.87	3,560.4	-547.3	2,336.2	2,217.5	118.70	19.682	
13,300.0	7,500.0	7,727.2	7,482.9	107.0	30.9	-89.85	3,560.4	-547.3	2,434.6	2,314.2	120.44	20.215	
13,400.0	7,500.0	7,727.0	7,482.7	108.8	30.9	-89.82	3,560.4	-547.3	2,533.3	2,411.1	122.18	20.734	
13,500.0	7,500.0	7,726.8	7,482.6	110.5	30.9	-89.80	3,560.4	-547.3	2,632.0	2,508.1	123.92	21.239	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 46-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,600.0	7,500.0	7,726.7	7,482.4	112.3	30.9	-89.78	3,560.4	-547.3	2,730.8	2,605.1	125.66	21.731		
13,700.0	7,500.0	7,726.5	7,482.3	114.0	30.9	-89.76	3,560.4	-547.3	2,829.7	2,702.3	127.41	22.210		
13,800.0	7,500.0	7,726.4	7,482.1	115.7	30.9	-89.74	3,560.4	-547.3	2,928.6	2,799.5	129.15	22.677		
13,900.0	7,500.0	7,726.3	7,482.0	117.5	30.9	-89.72	3,560.4	-547.3	3,027.7	2,896.8	130.89	23.131		
14,000.0	7,500.0	7,726.1	7,481.8	119.2	30.9	-89.70	3,560.4	-547.3	3,126.8	2,994.1	132.64	23.574		
14,100.0	7,500.0	7,726.0	7,481.7	121.0	30.9	-89.68	3,560.4	-547.3	3,225.9	3,091.6	134.38	24.006		
14,200.0	7,500.0	7,725.8	7,481.6	122.7	30.9	-89.66	3,560.4	-547.3	3,325.1	3,189.0	136.12	24.427		
14,300.0	7,500.0	7,725.7	7,481.4	124.5	30.9	-89.64	3,560.4	-547.3	3,424.4	3,286.5	137.87	24.838		
14,400.0	7,500.0	7,725.6	7,481.3	126.2	30.9	-89.62	3,560.4	-547.3	3,523.7	3,384.1	139.61	25.239		
14,422.4	7,500.0	7,725.5	7,481.3	126.6	30.9	-89.62	3,560.4	-547.3	3,545.9	3,405.9	140.00	25.327		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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	15.05	3,647.9	980.8	3,777.6					
100.0	100.0	72.4	72.4	0.2	0.1	15.05	3,647.8	980.9	3,777.4	3,777.1	0.28	N/A		
171.6	171.6	140.5	140.5	0.3	0.2	15.05	3,647.7	981.1	3,777.4	3,776.8	0.52	7,235.900		
200.0	200.0	165.9	165.9	0.3	0.3	15.05	3,647.7	981.1	3,777.4	3,776.8	0.62	6,131.731		
300.0	300.0	262.3	262.3	0.5	0.5	15.05	3,648.0	980.6	3,777.5	3,776.6	0.96	3,939.694		
400.0	400.0	375.1	375.1	0.7	0.7	155.03	3,648.5	979.3	3,778.4	3,777.1	1.33	2,837.608		
500.0	500.0	463.6	463.6	0.9	0.8	155.01	3,648.8	977.8	3,780.7	3,779.0	1.66	2,273.647		
600.0	599.9	536.1	536.0	1.0	0.9	154.99	3,649.5	976.5	3,785.1	3,783.1	1.97	1,924.487		
700.0	699.8	600.0	599.9	1.2	1.1	160.67	3,650.6	975.6	3,790.5	3,788.2	2.26	1,680.245		
800.0	799.7	667.5	667.4	1.4	1.2	176.06	3,652.3	974.7	3,795.3	3,792.8	2.55	1,487.741		
865.6	865.4	700.0	699.9	1.5	1.2	-151.76	3,653.4	974.2	3,798.2	3,795.5	2.72	1,394.828		
900.0	899.7	736.3	736.1	1.6	1.3	-151.78	3,654.8	973.6	3,799.7	3,796.9	2.85	1,334.096		
1,000.0	999.7	812.9	812.7	1.7	1.4	-151.82	3,658.3	972.1	3,804.6	3,801.4	3.16	1,203.820		
1,100.0	1,099.7	922.0	921.7	1.9	1.7	-151.88	3,663.4	969.8	3,809.6	3,806.0	3.53	1,078.315		
1,200.0	1,199.7	1,024.1	1,023.6	2.1	1.8	-151.95	3,668.1	967.4	3,814.4	3,810.6	3.89	979.947		
1,300.0	1,299.7	1,129.4	1,128.8	2.3	2.0	-152.00	3,672.6	965.5	3,819.2	3,814.9	4.26	897.268		
1,400.0	1,399.7	1,228.0	1,227.2	2.4	2.2	-152.05	3,676.8	963.9	3,823.9	3,819.3	4.61	829.819		
1,500.0	1,499.7	1,343.2	1,342.3	2.6	2.4	-152.10	3,681.5	962.1	3,828.4	3,823.4	4.99	767.294		
1,600.0	1,599.7	1,450.4	1,449.5	2.8	2.7	-152.15	3,685.5	960.2	3,832.6	3,827.2	5.36	715.307		
1,700.0	1,699.7	1,543.0	1,541.9	3.0	2.8	-152.20	3,689.0	958.2	3,836.8	3,831.1	5.70	673.209		
1,800.0	1,799.7	1,641.1	1,640.0	3.1	3.0	-152.24	3,692.8	957.0	3,841.2	3,835.2	6.05	635.125		
1,900.0	1,899.7	1,746.3	1,745.1	3.3	3.2	-152.28	3,696.5	955.9	3,845.5	3,839.0	6.41	599.982		
2,000.0	1,999.6	1,839.5	1,838.2	3.5	3.4	-152.31	3,700.0	954.9	3,849.8	3,843.0	6.75	570.442		
2,100.0	2,099.6	1,944.8	1,943.5	3.7	3.6	-152.34	3,703.8	954.4	3,854.2	3,847.1	7.11	542.313		
2,200.0	2,199.6	2,067.7	2,066.3	3.9	3.8	-152.37	3,707.5	954.4	3,858.2	3,850.7	7.49	514.827		
2,300.0	2,299.6	2,211.7	2,210.3	4.0	4.0	-152.39	3,710.6	954.6	3,861.3	3,853.4	7.92	487.741		
2,400.0	2,399.6	2,300.0	2,298.6	4.2	4.2	-152.40	3,712.1	954.8	3,864.1	3,855.8	8.24	468.714		
2,500.0	2,499.6	2,441.6	2,440.2	4.4	4.4	-152.40	3,713.7	955.6	3,866.2	3,857.6	8.66	446.478		
2,600.0	2,599.6	2,536.0	2,534.6	4.6	4.6	-152.40	3,714.2	956.3	3,868.0	3,859.0	9.00	429.969		
2,700.0	2,699.6	2,625.4	2,623.9	4.7	4.8	-152.41	3,715.2	956.4	3,870.1	3,860.8	9.33	414.989		
2,800.0	2,799.6	2,736.4	2,735.0	4.9	4.9	-152.43	3,716.5	956.1	3,872.3	3,862.6	9.69	399.436		
2,900.0	2,899.6	2,880.2	2,878.7	5.1	5.2	-152.47	3,717.4	954.4	3,873.6	3,863.4	10.12	382.673		
3,000.0	2,999.6	2,993.4	2,991.9	5.3	5.4	-152.50	3,717.3	952.6	3,874.1	3,863.6	10.50	369.074		
3,100.0	3,099.6	3,075.1	3,073.6	5.4	5.5	-152.52	3,717.3	951.5	3,874.7	3,863.9	10.81	358.290		
3,200.0	3,199.6	3,172.5	3,171.0	5.6	5.7	-152.55	3,717.5	950.5	3,875.7	3,864.6	11.16	347.281		
3,300.0	3,299.6	3,280.3	3,278.9	5.8	5.9	-152.58	3,717.7	949.1	3,876.6	3,865.1	11.52	336.369		
3,400.0	3,399.5	3,407.5	3,405.9	6.0	6.1	-152.61	3,717.4	947.1	3,877.0	3,865.1	11.92	325.156		
3,500.0	3,499.5	3,500.0	3,498.5	6.1	6.3	-152.64	3,716.8	945.9	3,877.1	3,864.9	12.26	316.244		
3,600.0	3,599.5	3,590.9	3,589.4	6.3	6.4	-152.66	3,716.4	944.9	3,877.5	3,864.9	12.59	307.875		
3,700.0	3,699.5	3,665.8	3,664.2	6.5	6.5	-152.68	3,716.4	943.9	3,878.3	3,865.4	12.90	300.602		
3,800.0	3,799.5	3,782.3	3,780.7	6.7	6.7	-152.72	3,717.1	941.6	3,879.4	3,866.2	13.28	292.030		
3,900.0	3,899.5	3,873.9	3,872.3	6.8	6.9	-152.76	3,717.4	939.4	3,880.2	3,866.5	13.62	284.839		
4,000.0	3,999.5	3,967.0	3,965.4	7.0	7.1	-152.80	3,718.0	937.3	3,881.2	3,867.3	13.96	277.943		
4,100.0	4,099.5	4,077.0	4,075.4	7.2	7.3	-152.85	3,718.7	934.3	3,882.3	3,867.9	14.34	270.793		
4,200.0	4,199.5	4,169.5	4,167.8	7.4	7.4	-152.90	3,719.2	931.8	3,883.2	3,868.5	14.68	264.563		
4,300.0	4,299.5	4,256.8	4,255.1	7.5	7.6	-152.94	3,719.9	929.6	3,884.4	3,869.4	15.01	258.825		
4,400.0	4,399.5	4,363.3	4,361.6	7.7	7.8	-152.97	3,720.7	928.0	3,885.8	3,870.4	15.37	252.810		
4,500.0	4,499.5	4,451.8	4,450.0	7.9	7.9	-153.00	3,721.2	926.6	3,887.0	3,871.3	15.70	247.548		
4,600.0	4,599.5	4,540.9	4,539.2	8.1	8.1	-153.04	3,722.3	925.1	3,888.8	3,872.7	16.03	242.521		
4,700.0	4,699.5	4,645.0	4,643.2	8.2	8.3	-153.07	3,723.3	923.6	3,890.4	3,874.0	16.39	237.319		
4,800.0	4,799.5	4,742.9	4,741.1	8.4	8.4	-153.10	3,724.4	922.2	3,892.2	3,875.5	16.74	232.498		
4,900.0	4,899.4	4,835.4	4,833.6	8.6	8.6	-153.13	3,725.3	921.1	3,893.9	3,876.8	17.08	228.003		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV											Offset Site Error:		0.0 ft
Survey Program: 100-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,999.4	4,910.4	4,908.5	8.8	8.7	-153.15	3,726.4	920.4	3,896.2	3,878.8	17.38	224.116	
5,100.0	5,099.4	5,010.1	5,008.3	8.9	8.9	-153.17	3,728.2	919.6	3,898.7	3,881.0	17.73	219.842	
5,200.0	5,199.4	5,108.3	5,106.4	9.1	9.1	-153.20	3,730.0	918.8	3,901.4	3,883.3	18.08	215.766	
5,300.0	5,299.4	5,217.7	5,215.8	9.3	9.3	-153.23	3,732.0	917.5	3,903.9	3,885.4	18.45	211.587	
5,400.0	5,399.4	5,325.2	5,323.2	9.5	9.5	-153.27	3,733.7	915.9	3,906.1	3,887.3	18.82	207.603	
5,500.0	5,499.4	5,423.9	5,421.9	9.6	9.7	-153.30	3,735.2	914.4	3,908.3	3,889.1	19.16	203.932	
5,600.0	5,599.4	5,514.9	5,513.0	9.8	9.8	-153.33	3,736.7	913.4	3,910.7	3,891.2	19.50	200.549	
5,700.0	5,699.4	5,612.1	5,610.1	10.0	10.0	-153.36	3,738.5	912.0	3,913.2	3,893.3	19.85	197.163	
5,800.0	5,799.4	5,721.2	5,719.2	10.2	10.2	-153.39	3,740.3	910.6	3,915.5	3,895.3	20.21	193.702	
5,900.0	5,899.4	5,812.5	5,810.4	10.3	10.4	-153.42	3,741.9	909.5	3,917.9	3,897.4	20.55	190.651	
6,000.0	5,999.4	5,915.3	5,913.2	10.5	10.5	-153.46	3,743.8	907.8	3,920.4	3,899.5	20.91	187.500	
6,100.0	6,099.4	6,010.4	6,008.3	10.7	10.7	-153.50	3,745.7	905.8	3,922.9	3,901.6	21.25	184.573	
6,200.0	6,199.4	6,100.0	6,097.9	10.9	10.9	-153.54	3,747.7	904.5	3,925.7	3,904.1	21.59	181.862	
6,300.0	6,299.4	6,222.1	6,220.0	11.1	11.1	-153.56	3,749.7	903.6	3,928.2	3,906.3	21.97	178.770	
6,400.0	6,399.3	6,300.0	6,297.8	11.2	11.2	-153.57	3,751.0	903.8	3,930.9	3,908.6	22.28	176.415	
6,500.0	6,499.3	6,362.2	6,360.0	11.4	11.3	-153.57	3,752.3	904.5	3,934.2	3,911.7	22.56	174.379	
6,600.0	6,599.3	6,465.3	6,463.1	11.6	11.5	-153.56	3,755.0	906.5	3,938.2	3,915.3	22.91	171.889	
6,700.0	6,699.3	6,554.3	6,552.0	11.8	11.7	-153.56	3,757.1	907.5	3,941.9	3,918.7	23.24	169.625	
6,800.0	6,799.3	6,656.6	6,654.3	11.9	11.9	-153.56	3,760.2	908.5	3,946.1	3,922.5	23.59	167.277	
6,900.0	6,899.3	6,755.8	6,753.5	12.1	12.0	-153.57	3,762.9	908.9	3,949.8	3,925.9	23.94	165.008	
6,921.2	6,920.6	6,772.1	6,769.7	12.1	12.1	-153.57	3,763.4	909.0	3,950.7	3,926.7	24.00	164.595	
6,950.0	6,949.3	6,800.0	6,797.6	12.2	12.1	10.60	3,764.2	909.0	3,951.2	3,927.1	24.09	164.011	
7,000.0	6,999.1	6,850.7	6,848.3	12.3	12.2	13.16	3,765.8	909.2	3,948.7	3,924.6	24.16	163.459	
7,050.0	7,048.4	6,922.1	6,919.6	12.3	12.3	13.82	3,767.9	909.3	3,941.9	3,917.8	24.14	163.264	
7,100.0	7,096.7	7,020.2	7,017.7	12.4	12.5	14.40	3,769.6	909.7	3,930.4	3,906.3	24.06	163.326	
7,150.0	7,143.8	7,071.7	7,069.2	12.5	12.6	15.01	3,770.1	910.1	3,914.6	3,890.8	23.80	164.475	
7,200.0	7,189.2	7,117.6	7,115.2	12.5	12.7	15.74	3,770.5	910.6	3,894.8	3,871.3	23.43	166.195	
7,250.0	7,232.6	7,156.9	7,154.5	12.6	12.7	16.64	3,770.9	911.0	3,871.3	3,848.3	22.98	168.439	
7,300.0	7,273.7	7,194.3	7,191.8	12.7	12.8	17.75	3,771.3	911.2	3,844.2	3,821.7	22.47	171.046	
7,350.0	7,312.1	7,250.3	7,247.8	12.9	12.9	19.22	3,771.9	911.4	3,813.7	3,791.7	21.98	173.536	
7,400.0	7,347.6	7,300.0	7,297.5	13.1	13.0	21.08	3,772.2	911.4	3,779.9	3,758.4	21.49	175.868	
7,450.0	7,379.9	7,333.2	7,330.7	13.3	13.0	23.37	3,772.4	911.3	3,743.2	3,722.1	21.07	177.673	
7,500.0	7,408.8	7,360.1	7,357.6	13.5	13.1	26.29	3,772.6	911.2	3,703.9	3,683.1	20.81	178.029	
7,550.0	7,434.0	7,383.6	7,381.2	13.8	13.1	30.10	3,772.7	911.1	3,662.4	3,641.6	20.83	175.807	
7,600.0	7,455.3	7,403.8	7,401.3	14.2	13.2	35.17	3,772.9	911.0	3,619.0	3,597.6	21.31	169.833	
7,650.0	7,472.7	7,420.4	7,417.9	14.6	13.2	42.03	3,773.0	910.9	3,573.9	3,551.5	22.42	159.419	
7,700.0	7,485.8	7,433.2	7,430.7	15.0	13.2	51.37	3,773.1	910.8	3,527.6	3,503.3	24.27	145.326	
7,750.0	7,494.7	7,442.0	7,439.5	15.5	13.2	63.82	3,773.2	910.7	3,480.4	3,453.7	26.69	130.424	
7,800.0	7,499.3	7,446.7	7,444.2	16.0	13.2	79.29	3,773.3	910.7	3,432.7	3,403.8	28.85	118.976	
7,827.7	7,500.0	7,447.6	7,445.1	16.3	13.2	88.59	3,773.3	910.7	3,406.1	3,376.6	29.52	115.393	
7,900.0	7,500.0	7,448.2	7,445.7	17.2	13.2	88.62	3,773.3	910.7	3,336.9	3,306.5	30.35	109.959	
8,000.0	7,500.0	7,449.0	7,446.5	18.4	13.2	88.67	3,773.3	910.7	3,241.3	3,209.7	31.58	102.649	
8,100.0	7,500.0	7,449.9	7,447.4	19.7	13.2	88.72	3,773.3	910.7	3,146.0	3,113.1	32.89	95.663	
8,200.0	7,500.0	7,450.7	7,448.2	21.1	13.2	88.77	3,773.3	910.7	3,051.1	3,016.8	34.26	89.051	
8,300.0	7,500.0	7,451.6	7,449.1	22.5	13.2	88.82	3,773.3	910.7	2,956.4	2,920.7	35.69	82.837	
8,400.0	7,500.0	7,452.4	7,449.9	24.0	13.2	88.87	3,773.3	910.7	2,862.1	2,825.0	37.16	77.019	
8,500.0	7,500.0	7,453.3	7,450.8	25.5	13.2	88.92	3,773.3	910.7	2,768.3	2,729.6	38.67	71.589	
8,600.0	7,500.0	7,454.1	7,451.7	27.0	13.3	88.98	3,773.3	910.7	2,674.8	2,634.6	40.21	66.527	
8,700.0	7,500.0	7,455.0	7,452.5	28.6	13.3	89.03	3,773.3	910.7	2,581.9	2,540.1	41.77	61.812	
8,800.0	7,500.0	7,455.9	7,453.4	30.2	13.3	89.08	3,773.3	910.7	2,489.5	2,446.1	43.35	57.423	
8,900.0	7,500.0	7,456.7	7,454.2	31.8	13.3	89.13	3,773.3	910.7	2,397.7	2,352.7	44.96	53.334	
9,000.0	7,500.0	7,457.6	7,455.1	33.4	13.3	89.18	3,773.4	910.7	2,306.6	2,260.0	46.57	49.526	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV											Offset Site Error:		0.0 ft
Survey Program: 100-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,027.7	7,500.0	7,457.8	7,455.4	33.8	13.3	89.19	3,773.4	910.7	2,281.5	2,234.4	47.02	48.516	
9,100.0	7,500.0	7,458.5	7,456.0	35.0	13.3	89.23	3,773.4	910.7	2,216.3	2,168.1	48.20	45.976	
9,127.7	7,500.0	7,458.7	7,456.2	35.5	13.3	89.25	3,773.4	910.7	2,191.4	2,142.7	48.66	45.035	
9,200.0	7,500.0	7,459.3	7,456.9	36.6	13.3	89.30	3,773.4	910.7	2,127.0	2,077.1	49.85	42.671	
9,300.0	7,500.0	7,460.2	7,457.7	38.3	13.3	89.37	3,773.4	910.6	2,039.5	1,988.1	51.49	39.609	
9,400.0	7,500.0	7,461.1	7,458.6	40.0	13.3	89.44	3,773.4	910.6	1,954.2	1,901.1	53.14	36.778	
9,427.7	7,500.0	7,461.4	7,458.9	40.4	13.3	89.46	3,773.4	910.6	1,931.0	1,877.4	53.59	36.032	
9,500.0	7,500.0	7,462.0	7,459.6	41.6	13.3	89.49	3,773.4	910.6	1,871.1	1,816.3	54.80	34.144	
9,600.0	7,500.0	7,462.9	7,460.5	43.3	13.3	89.54	3,773.4	910.6	1,789.7	1,733.2	56.48	31.689	
9,700.0	7,500.0	7,463.9	7,461.4	45.0	13.3	89.59	3,773.4	910.6	1,710.3	1,652.1	58.16	29.406	
9,800.0	7,500.0	7,464.8	7,462.3	46.7	13.3	89.64	3,773.4	910.6	1,633.1	1,573.3	59.85	27.286	
9,900.0	7,500.0	7,465.7	7,463.2	48.4	13.3	89.69	3,773.4	910.6	1,558.6	1,497.0	61.55	25.324	
10,000.0	7,500.0	7,466.6	7,464.1	50.1	13.3	89.74	3,773.4	910.6	1,487.0	1,423.8	63.25	23.512	
10,100.0	7,500.0	7,467.5	7,465.0	51.8	13.3	89.79	3,773.4	910.6	1,418.9	1,354.0	64.95	21.847	
10,200.0	7,500.0	7,468.5	7,466.0	53.5	13.3	89.84	3,773.5	910.6	1,354.8	1,288.1	66.66	20.325	
10,300.0	7,500.0	7,469.4	7,466.9	55.2	13.3	89.89	3,773.5	910.6	1,295.2	1,226.8	68.37	18.944	
10,400.0	7,500.0	7,470.3	7,467.8	56.9	13.3	89.94	3,773.5	910.6	1,240.8	1,170.7	70.08	17.705	
10,500.0	7,500.0	7,471.2	7,468.8	58.6	13.3	89.99	3,773.5	910.6	1,192.3	1,120.5	71.80	16.607	
10,600.0	7,500.0	7,472.2	7,469.7	60.3	13.3	90.04	3,773.5	910.6	1,150.5	1,077.0	73.51	15.650	
10,627.7	7,500.0	7,472.4	7,470.0	60.8	13.3	90.05	3,773.5	910.6	1,140.2	1,066.2	73.99	15.409	
10,700.0	7,500.0	7,473.1	7,470.6	62.0	13.3	90.09	3,773.5	910.6	1,115.6	1,040.4	75.25	14.826	
10,800.0	7,500.0	7,474.0	7,471.6	63.7	13.3	90.14	3,773.5	910.6	1,087.3	1,010.3	76.98	14.125	
10,900.0	7,500.0	7,475.0	7,472.5	65.5	13.3	90.19	3,773.5	910.6	1,065.9	987.2	78.69	13.545	
11,000.0	7,500.0	7,475.9	7,473.4	67.2	13.3	90.24	3,773.5	910.6	1,051.8	971.4	80.38	13.085	
11,023.0	7,500.0	7,476.1	7,473.6	67.6	13.3	90.25	3,773.5	910.6	1,049.6	968.8	80.77	12.995	
11,100.0	7,500.0	7,476.8	7,474.3	68.9	13.3	90.29	3,773.5	910.6	1,045.9	963.8	82.10	12.740	
11,112.4	7,500.0	7,476.9	7,474.4	69.1	13.3	90.30	3,773.5	910.6	1,045.8	963.5	82.31	12.706 CC, ES	
11,200.0	7,500.0	7,477.7	7,475.3	70.6	13.3	90.34	3,773.5	910.6	1,049.5	965.6	83.82	12.520	
11,300.0	7,500.0	7,478.7	7,476.2	72.3	13.3	90.39	3,773.5	910.5	1,062.5	976.9	85.55	12.420 SF	
11,400.0	7,500.0	7,479.6	7,477.1	74.1	13.3	90.44	3,773.6	910.5	1,084.6	997.3	87.28	12.427	
11,500.0	7,500.0	7,480.5	7,478.0	75.8	13.3	90.49	3,773.6	910.5	1,115.3	1,026.3	89.01	12.531	
11,600.0	7,500.0	7,481.4	7,479.0	77.5	13.3	90.55	3,773.6	910.5	1,153.9	1,063.1	90.74	12.717	
11,700.0	7,500.0	7,482.4	7,479.9	79.3	13.3	90.60	3,773.6	910.5	1,199.6	1,107.1	92.47	12.973	
11,800.0	7,500.0	7,483.3	7,480.8	81.0	13.3	90.65	3,773.6	910.5	1,251.6	1,157.4	94.20	13.287	
11,900.0	7,500.0	7,484.3	7,481.8	82.7	13.3	90.70	3,773.6	910.5	1,309.2	1,213.3	95.93	13.647	
12,000.0	7,500.0	7,485.2	7,482.7	84.5	13.3	90.75	3,773.6	910.5	1,371.7	1,274.0	97.66	14.045	
12,100.0	7,500.0	7,486.1	7,483.7	86.2	13.3	90.80	3,773.6	910.5	1,438.4	1,339.0	99.40	14.471	
12,200.0	7,500.0	7,487.1	7,484.6	87.9	13.3	90.86	3,773.6	910.5	1,508.8	1,407.7	101.13	14.919	
12,300.0	7,500.0	7,488.0	7,485.6	89.7	13.3	90.91	3,773.6	910.5	1,582.4	1,479.5	102.87	15.383	
12,400.0	7,500.0	7,489.0	7,486.5	91.4	13.3	90.96	3,773.6	910.5	1,658.8	1,554.1	104.61	15.857	
12,500.0	7,500.0	7,490.0	7,487.5	93.1	13.3	91.01	3,773.7	910.5	1,737.5	1,631.2	106.34	16.339	
12,600.0	7,500.0	7,490.9	7,488.4	94.9	13.3	91.06	3,773.7	910.5	1,818.4	1,710.3	108.08	16.824	
12,700.0	7,500.0	7,491.9	7,489.4	96.6	13.3	91.12	3,773.7	910.5	1,901.0	1,791.2	109.82	17.311	
12,800.0	7,500.0	7,492.9	7,490.4	98.3	13.3	91.17	3,773.7	910.5	1,985.3	1,873.7	111.56	17.797	
12,900.0	7,500.0	7,493.8	7,491.3	100.1	13.3	91.22	3,773.7	910.5	2,071.0	1,957.7	113.29	18.280	
13,000.0	7,500.0	7,494.8	7,492.3	101.8	13.3	91.28	3,773.7	910.5	2,157.9	2,042.8	115.03	18.759	
13,100.0	7,500.0	7,495.8	7,493.3	103.6	13.3	91.33	3,773.7	910.5	2,245.9	2,129.1	116.77	19.233	
13,200.0	7,500.0	7,496.8	7,494.3	105.3	13.3	91.38	3,773.7	910.5	2,334.8	2,216.3	118.51	19.701	
13,300.0	7,500.0	7,497.7	7,495.3	107.0	13.3	91.44	3,773.7	910.5	2,424.6	2,304.4	120.25	20.163	
13,400.0	7,500.0	7,498.7	7,496.2	108.8	13.3	91.49	3,773.7	910.4	2,515.2	2,393.2	121.99	20.618	
13,500.0	7,500.0	7,499.7	7,497.2	110.5	13.3	91.55	3,773.7	910.4	2,606.5	2,482.8	123.73	21.066	
13,600.0	7,500.0	7,500.0	7,497.5	112.3	13.3	91.56	3,773.7	910.4	2,698.4	2,572.9	125.47	21.506	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV				Offset Site Error:		0.0 ft	
Survey Program: 100-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	7,500.0	7,500.0	7,497.5	114.0	13.3	91.56	3,773.7	910.4	2,790.8	2,663.6	127.21	21.938					
13,800.0	7,500.0	7,500.0	7,497.5	115.7	13.3	91.56	3,773.7	910.4	2,883.8	2,754.8	128.96	22.362					
13,900.0	7,500.0	7,500.0	7,497.5	117.5	13.3	91.56	3,773.7	910.4	2,977.2	2,846.5	130.70	22.779					
14,000.0	7,500.0	7,500.0	7,497.5	119.2	13.3	91.56	3,773.7	910.4	3,071.0	2,938.6	132.44	23.188					
14,100.0	7,500.0	7,505.0	7,502.5	121.0	13.3	91.84	3,773.8	910.4	3,165.2	3,031.0	134.18	23.590					
14,200.0	7,500.0	7,505.9	7,503.4	122.7	13.3	91.89	3,773.8	910.4	3,259.8	3,123.9	135.92	23.983					
14,300.0	7,500.0	7,506.8	7,504.3	124.5	13.3	91.93	3,773.8	910.4	3,354.6	3,217.0	137.66	24.369					
14,400.0	7,500.0	7,507.7	7,505.2	126.2	13.3	91.98	3,773.8	910.4	3,449.8	3,310.4	139.40	24.747					
14,422.4	7,500.0	7,507.9	7,505.4	126.6	13.3	91.99	3,773.8	910.4	3,471.1	3,331.3	139.79	24.831					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 765-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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	15.35	3,670.5	1,007.7	3,806.3					
100.0	100.0	85.0	85.0	0.2	0.1	15.35	3,670.5	1,007.7	3,806.3	3,806.0	0.30	N/A		
200.0	200.0	185.0	185.0	0.3	0.3	15.35	3,670.5	1,007.7	3,806.3	3,805.6	0.64	5,923.942		
300.0	300.0	285.0	285.0	0.5	0.5	15.35	3,670.5	1,007.7	3,806.3	3,805.3	0.99	3,852.746		
400.0	400.0	385.0	385.0	0.7	0.7	155.35	3,670.5	1,007.7	3,807.1	3,805.7	1.33	2,855.245		
500.0	500.0	485.0	485.0	0.9	0.8	155.36	3,670.5	1,007.7	3,809.5	3,807.8	1.68	2,268.774		
600.0	599.9	584.9	584.9	1.0	1.0	155.37	3,670.5	1,007.7	3,813.4	3,811.4	2.03	1,882.636		
700.0	699.8	684.8	684.8	1.2	1.2	161.07	3,670.5	1,007.7	3,817.5	3,815.1	2.37	1,609.038		
800.0	799.7	780.9	780.9	1.4	1.3	176.47	3,670.5	1,007.7	3,820.1	3,817.4	2.71	1,408.667		
865.6	865.4	841.5	841.5	1.5	1.4	-151.36	3,670.7	1,007.4	3,821.2	3,818.3	2.93	1,303.393		
900.0	899.7	874.8	874.8	1.6	1.5	-151.36	3,670.8	1,007.3	3,821.7	3,818.6	3.05	1,253.184		
1,000.0	999.7	980.3	980.3	1.7	1.7	-151.38	3,671.0	1,006.6	3,822.7	3,819.2	3.41	1,121.756		
1,100.0	1,099.7	1,036.9	1,036.8	1.9	1.8	-151.41	3,671.6	1,005.6	3,824.3	3,820.6	3.68	1,038.883		
1,200.0	1,199.7	1,074.0	1,074.0	2.1	1.8	-151.43	3,672.6	1,004.5	3,827.3	3,823.4	3.92	976.077		
1,300.0	1,299.7	1,137.0	1,136.8	2.3	2.0	-151.48	3,675.4	1,001.7	3,831.5	3,827.3	4.21	910.188		
1,400.0	1,399.7	1,263.0	1,262.2	2.4	2.2	-151.67	3,682.9	992.0	3,836.3	3,831.7	4.63	828.510		
1,500.0	1,499.7	1,342.9	1,341.5	2.6	2.4	-151.81	3,688.0	983.5	3,840.8	3,835.8	4.98	771.487		
1,600.0	1,599.7	1,457.1	1,454.4	2.8	2.7	-152.07	3,696.3	968.7	3,845.6	3,840.1	5.43	708.371		
1,700.0	1,699.7	1,569.8	1,565.5	3.0	3.0	-152.35	3,704.7	951.7	3,850.1	3,844.2	5.91	651.848		
1,800.0	1,799.7	1,636.0	1,630.8	3.1	3.2	-152.52	3,709.8	941.8	3,854.9	3,848.6	6.26	615.345		
1,900.0	1,899.7	1,714.4	1,707.9	3.3	3.4	-152.72	3,716.5	930.0	3,860.5	3,853.8	6.67	578.643		
2,000.0	1,999.6	1,798.7	1,790.7	3.5	3.7	-152.96	3,724.2	915.6	3,866.3	3,859.2	7.12	543.314		
2,100.0	2,099.6	1,865.2	1,855.8	3.7	3.9	-153.16	3,730.6	903.8	3,872.7	3,865.2	7.51	515.476		
2,200.0	2,199.6	1,927.2	1,916.4	3.9	4.1	-153.35	3,737.4	892.6	3,880.2	3,872.3	7.90	491.061		
2,300.0	2,299.6	2,030.1	2,016.9	4.0	4.5	-153.67	3,749.0	873.8	3,888.1	3,879.7	8.44	460.500		
2,400.0	2,399.6	2,095.7	2,080.8	4.2	4.8	-153.89	3,756.8	860.8	3,896.6	3,887.7	8.87	439.224		
2,500.0	2,499.6	2,181.0	2,163.4	4.4	5.2	-154.18	3,767.6	843.1	3,905.6	3,896.2	9.38	416.358		
2,600.0	2,599.6	2,281.0	2,257.3	4.6	6.0	-154.90	3,790.5	799.3	3,913.2	3,902.8	10.39	376.590		
2,700.0	2,699.6	2,443.0	2,417.3	4.7	6.3	-155.12	3,797.2	785.3	3,920.4	3,909.6	10.83	362.068		
2,800.0	2,799.6	2,520.2	2,492.1	4.9	6.7	-155.40	3,806.1	768.3	3,928.5	3,917.2	11.33	346.762		
2,900.0	2,899.6	2,585.7	2,555.5	5.1	6.9	-155.63	3,814.0	754.1	3,937.5	3,925.7	11.78	334.252		
3,000.0	2,999.6	2,674.1	2,641.1	5.3	7.3	-155.94	3,825.4	735.1	3,947.3	3,934.9	12.33	320.257		
3,100.0	3,099.6	2,792.7	2,756.2	5.4	7.9	-156.34	3,839.6	710.4	3,956.4	3,943.4	12.99	304.676		
3,200.0	3,199.6	2,855.5	2,817.3	5.6	8.1	-156.54	3,847.4	697.8	3,966.2	3,952.8	13.41	295.724		
3,300.0	3,299.6	2,942.6	2,901.9	5.8	8.5	-156.82	3,858.6	680.7	3,976.8	3,962.9	13.93	285.420		
3,400.0	3,399.5	3,015.2	2,972.5	6.0	8.8	-157.05	3,868.3	666.7	3,987.9	3,973.5	14.39	277.117		
3,500.0	3,499.5	3,103.5	3,058.4	6.1	9.2	-157.32	3,880.2	650.0	3,999.3	3,984.4	14.91	268.238		
3,600.0	3,599.5	3,343.4	3,292.1	6.3	10.2	-158.06	3,908.3	603.9	4,008.8	3,992.8	16.02	250.285		
3,700.0	3,699.5	3,383.0	3,330.7	6.5	10.4	-158.18	3,912.6	596.0	4,017.9	4,001.5	16.35	245.774		
3,800.0	3,799.5	3,455.8	3,401.7	6.7	10.7	-158.39	3,921.2	582.5	4,028.1	4,011.3	16.79	239.962		
3,900.0	3,899.5	3,566.6	3,510.1	6.8	11.2	-158.70	3,934.0	563.4	4,038.3	4,021.0	17.35	232.705		
4,000.0	3,999.5	3,686.3	3,627.4	7.0	11.6	-159.00	3,947.7	544.2	4,048.7	4,030.7	17.93	225.862		
4,100.0	4,099.5	3,883.0	3,821.0	7.2	12.3	-159.46	3,965.6	514.7	4,056.4	4,037.6	18.74	216.503		
4,200.0	4,199.5	3,944.0	3,880.9	7.4	12.5	-159.62	3,971.0	504.3	4,064.3	4,045.2	19.12	212.565		
4,300.0	4,299.5	3,976.0	3,912.3	7.5	12.7	-159.70	3,974.4	498.9	4,073.8	4,054.4	19.41	209.919		
4,400.0	4,399.5	4,031.5	3,966.5	7.7	12.9	-159.85	3,981.0	489.4	4,084.6	4,064.9	19.79	206.426		
4,500.0	4,499.5	4,116.4	4,049.0	7.9	13.3	-160.11	3,991.7	472.3	4,096.2	4,075.8	20.31	201.727		
4,600.0	4,599.5	4,358.2	4,283.6	8.1	14.4	-160.89	4,018.1	420.1	4,105.6	4,084.2	21.47	191.253		
4,700.0	4,699.5	4,592.4	4,511.7	8.2	15.4	-161.62	4,036.4	370.4	4,112.7	4,090.1	22.57	182.191		
4,800.0	4,799.5	4,670.7	4,588.0	8.4	15.7	-161.87	4,041.3	353.5	4,118.3	4,095.3	23.05	178.663		
4,900.0	4,899.4	4,719.8	4,636.0	8.6	15.9	-162.01	4,044.6	343.8	4,124.7	4,101.3	23.41	176.224		
5,000.0	4,999.4	4,752.0	4,667.5	8.8	16.1	-162.10	4,047.3	337.6	4,132.6	4,108.9	23.70	174.385		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error: 0.0 ft	
Survey Program: 765-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,099.4	4,814.0	4,728.1	8.9	16.3	-162.27	4,053.1	326.0	4,141.7	4,117.6	24.09	171.912		
5,200.0	5,199.4	4,849.0	4,762.4	9.1	16.5	-162.36	4,056.8	319.7	4,152.2	4,127.8	24.39	170.253		
5,300.0	5,299.4	4,890.4	4,802.8	9.3	16.6	-162.47	4,061.9	312.3	4,164.2	4,139.5	24.71	168.549		
5,400.0	5,399.4	4,953.2	4,864.1	9.5	16.9	-162.63	4,070.1	301.4	4,177.4	4,152.3	25.10	166.439		
5,500.0	5,499.4	5,034.5	4,943.3	9.6	17.2	-162.85	4,081.3	286.8	4,191.2	4,165.6	25.56	164.001		
5,600.0	5,599.4	5,116.2	5,023.0	9.8	17.6	-163.05	4,092.8	272.9	4,205.4	4,179.4	26.00	161.746		
5,700.0	5,699.4	5,194.2	5,099.1	10.0	17.9	-163.24	4,104.1	260.4	4,220.1	4,193.7	26.42	159.702		
5,800.0	5,799.4	5,201.0	5,595.7	10.2	19.8	-164.48	4,152.8	173.9	4,228.9	4,200.6	28.27	149.610		
5,900.0	5,899.4	5,860.0	5,752.0	10.3	20.4	-164.86	4,160.2	146.0	4,234.3	4,205.3	28.97	146.170		
6,000.0	5,999.4	5,916.6	5,807.7	10.5	20.6	-165.00	4,162.5	135.9	4,239.0	4,209.6	29.33	144.537		
6,100.0	6,099.4	5,977.3	5,867.4	10.7	20.8	-165.15	4,165.7	125.5	4,244.8	4,215.1	29.69	142.955		
6,200.0	6,199.4	6,042.0	5,931.1	10.9	21.1	-165.29	4,169.5	115.0	4,251.4	4,221.3	30.07	141.403		
6,300.0	6,299.4	6,098.0	5,986.3	11.1	21.3	-165.42	4,173.2	106.1	4,259.0	4,228.6	30.41	140.044		
6,400.0	6,399.3	6,206.5	6,093.2	11.2	21.6	-165.65	4,181.3	89.3	4,267.3	4,236.4	30.90	138.087		
6,500.0	6,499.3	6,295.4	6,181.0	11.4	21.9	-165.82	4,187.5	77.3	4,275.2	4,243.9	31.31	136.546		
6,600.0	6,599.3	6,401.9	6,286.4	11.6	22.2	-166.00	4,195.2	64.0	4,283.4	4,251.7	31.76	134.885		
6,700.0	6,699.3	6,547.2	6,430.5	11.8	22.6	-166.22	4,204.8	48.5	4,291.1	4,258.8	32.26	133.025		
6,800.0	6,799.3	6,938.0	6,820.1	11.9	23.4	-166.60	4,217.1	20.8	4,297.0	4,263.8	33.14	129.668		
6,900.0	6,899.3	7,002.0	6,884.0	12.1	23.5	-166.63	4,216.9	18.8	4,297.7	4,264.3	33.39	128.714		
6,921.2	6,920.6	7,002.0	6,884.0	12.1	23.5	-166.63	4,216.9	18.8	4,298.0	4,264.6	33.43	128.580		
6,950.0	6,949.3	7,025.9	6,908.0	12.2	23.5	-2.45	4,217.0	18.4	4,297.7	4,264.3	33.50	128.297		
7,000.0	6,999.1	7,065.0	6,947.0	12.3	23.5	0.04	4,217.3	17.8	4,294.1	4,260.6	33.46	128.334		
7,050.0	7,048.4	7,083.7	6,965.7	12.3	23.6	0.50	4,217.6	17.5	4,286.3	4,253.1	33.20	129.119		
7,100.0	7,096.7	7,115.5	6,997.5	12.4	23.6	0.71	4,218.2	17.1	4,274.4	4,241.7	32.75	130.516		
7,150.0	7,143.8	7,201.2	7,083.2	12.5	23.7	0.84	4,219.6	16.0	4,258.4	4,226.2	32.18	132.343		
7,200.0	7,189.2	7,266.5	7,148.5	12.5	23.8	0.95	4,220.1	15.2	4,237.8	4,206.4	31.39	134.987		
7,250.0	7,232.6	7,298.2	7,180.2	12.6	23.8	1.05	4,220.3	14.9	4,213.4	4,183.0	30.40	138.580		
7,300.0	7,273.7	7,329.0	7,211.0	12.7	23.8	1.17	4,220.6	14.7	4,185.3	4,156.0	29.26	143.043		
7,350.0	7,312.1	7,359.1	7,241.1	12.9	23.9	1.30	4,221.0	14.5	4,153.8	4,125.9	27.98	148.457		
7,400.0	7,347.6	7,380.0	7,262.0	13.1	23.9	1.45	4,221.3	14.4	4,119.2	4,092.6	26.58	154.962		
7,450.0	7,379.9	7,413.2	7,295.2	13.3	23.9	1.65	4,221.8	14.2	4,081.6	4,056.5	25.12	162.507		
7,500.0	7,408.8	7,436.6	7,318.6	13.5	24.0	1.90	4,222.3	14.1	4,041.3	4,017.7	23.59	171.282		
7,550.0	7,434.0	7,457.2	7,339.2	13.8	24.0	2.25	4,222.7	13.9	3,998.6	3,976.6	22.07	181.206		
7,600.0	7,455.3	7,474.9	7,356.9	14.2	24.0	2.73	4,223.0	13.8	3,953.9	3,933.3	20.59	192.061		
7,650.0	7,472.7	7,489.6	7,371.5	14.6	24.0	3.48	4,223.3	13.7	3,907.4	3,888.2	19.22	203.269		
7,700.0	7,485.8	7,505.0	7,387.0	15.0	24.0	4.79	4,223.7	13.6	3,859.5	3,841.4	18.08	213.521		
7,750.0	7,494.7	7,505.0	7,387.0	15.5	24.0	7.43	4,223.7	13.6	3,810.6	3,793.3	17.29	220.328		
7,800.0	7,499.3	7,505.0	7,387.0	16.0	24.0	15.99	4,223.7	13.6	3,760.9	3,743.1	17.83	210.983		
7,827.7	7,500.0	7,505.0	7,387.0	16.3	24.0	39.37	4,223.7	13.6	3,733.2	3,709.6	23.67	157.725		
7,900.0	7,500.0	7,516.4	7,398.4	17.2	24.1	42.86	4,223.9	13.5	3,661.0	3,635.7	25.26	144.919		
8,000.0	7,500.0	7,518.4	7,400.4	18.4	24.1	43.52	4,224.0	13.5	3,561.0	3,534.7	26.31	135.373		
8,100.0	7,500.0	7,520.5	7,402.4	19.7	24.1	44.21	4,224.0	13.5	3,461.1	3,433.7	27.43	126.194		
8,200.0	7,500.0	7,522.5	7,404.4	21.1	24.1	44.92	4,224.1	13.5	3,361.2	3,332.5	28.62	117.436		
8,300.0	7,500.0	7,524.5	7,406.5	22.5	24.1	45.65	4,224.1	13.5	3,261.2	3,231.3	29.88	109.131		
8,400.0	7,500.0	7,526.6	7,408.5	24.0	24.1	46.41	4,224.2	13.5	3,161.3	3,130.1	31.21	101.288		
8,500.0	7,500.0	7,528.7	7,410.6	25.5	24.1	47.19	4,224.2	13.4	3,061.3	3,028.7	32.60	93.908		
8,600.0	7,500.0	7,530.8	7,412.7	27.0	24.1	48.01	4,224.3	13.4	2,961.4	2,927.3	34.05	86.978		
8,700.0	7,500.0	7,532.9	7,414.8	28.6	24.1	48.85	4,224.3	13.4	2,861.5	2,825.9	35.55	80.482		
8,800.0	7,500.0	7,535.0	7,417.0	30.2	24.1	49.72	4,224.4	13.4	2,761.5	2,724.4	37.12	74.402		
8,900.0	7,500.0	7,537.2	7,419.1	31.8	24.1	50.63	4,224.5	13.4	2,661.6	2,622.9	38.73	68.716		
9,000.0	7,500.0	7,539.4	7,421.3	33.4	24.1	51.57	4,224.5	13.4	2,561.7	2,521.3	40.41	63.400		
9,027.7	7,500.0	7,540.0	7,421.9	33.8	24.1	51.83	4,224.5	13.4	2,534.0	2,493.1	40.88	61.988		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error: 0.0 ft	
Survey Program: 765-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	7,541.6	7,423.5	35.0	24.1	52.54	4,224.6	13.4	2,461.8	2,419.6	42.13	58.433		
9,127.7	7,500.0	7,542.2	7,424.1	35.5	24.1	52.82	4,224.6	13.4	2,434.1	2,391.4	42.62	57.114		
9,200.0	7,500.0	7,543.8	7,425.7	36.6	24.1	61.78	4,224.6	13.4	2,361.9	2,314.3	47.54	49.687		
9,300.0	7,500.0	7,546.0	7,428.0	38.3	24.1	69.27	4,224.7	13.4	2,262.1	2,210.3	51.80	43.671		
9,400.0	7,500.0	7,548.3	7,430.2	40.0	24.1	73.85	4,224.7	13.4	2,162.4	2,107.6	54.82	39.442		
9,427.7	7,500.0	7,548.9	7,430.9	40.4	24.1	74.82	4,224.7	13.4	2,134.8	2,079.2	55.55	38.427		
9,500.0	7,500.0	7,550.6	7,432.5	41.6	24.1	75.26	4,224.8	13.4	2,062.9	2,006.0	56.83	36.300		
9,600.0	7,500.0	7,552.8	7,434.8	43.3	24.1	75.88	4,224.8	13.4	1,963.4	1,904.8	58.60	33.504		
9,700.0	7,500.0	7,555.2	7,437.1	45.0	24.1	76.50	4,224.9	13.4	1,864.0	1,803.6	60.39	30.867		
9,800.0	7,500.0	7,557.5	7,439.4	46.7	24.1	77.14	4,225.0	13.4	1,764.6	1,702.4	62.18	28.378		
9,900.0	7,500.0	7,559.8	7,441.8	48.4	24.1	77.78	4,225.0	13.4	1,665.3	1,601.3	63.99	26.026		
10,000.0	7,500.0	7,562.2	7,444.1	50.1	24.1	78.43	4,225.1	13.4	1,566.1	1,500.3	65.80	23.802		
10,100.0	7,500.0	7,564.6	7,446.5	51.8	24.1	79.09	4,225.2	13.4	1,467.0	1,399.4	67.62	21.697		
10,200.0	7,500.0	7,567.0	7,448.9	53.5	24.1	79.76	4,225.2	13.4	1,368.1	1,298.6	69.44	19.702		
10,300.0	7,500.0	7,569.4	7,451.4	55.2	24.1	80.43	4,225.3	13.4	1,269.3	1,198.0	71.26	17.811		
10,400.0	7,500.0	7,571.9	7,453.8	56.9	24.1	81.11	4,225.3	13.4	1,170.6	1,097.6	73.09	16.016		
10,500.0	7,500.0	7,574.3	7,456.3	58.6	24.1	81.81	4,225.4	13.4	1,072.3	997.4	74.92	14.312		
10,600.0	7,500.0	7,576.8	7,458.7	60.3	24.1	82.51	4,225.5	13.4	974.2	897.5	76.75	12.693		
10,627.7	7,500.0	7,577.5	7,459.4	60.8	24.1	82.70	4,225.5	13.4	947.1	869.9	77.26	12.259		
10,700.0	7,500.0	7,579.3	7,461.3	62.0	24.1	82.81	4,225.5	13.4	876.5	798.2	78.39	11.181		
10,800.0	7,500.0	7,581.8	7,463.8	63.7	24.1	83.06	4,225.6	13.4	779.0	699.0	79.96	9.742		
10,900.0	7,500.0	7,584.4	7,466.3	65.5	24.1	83.42	4,225.7	13.4	681.7	600.2	81.54	8.361		
11,000.0	7,500.0	7,587.0	7,468.9	67.2	24.1	83.93	4,225.8	13.4	584.9	501.8	83.12	7.036		
11,023.0	7,500.0	7,587.6	7,469.5	67.6	24.1	84.07	4,225.8	13.4	562.7	479.2	83.49	6.739		
11,100.0	7,500.0	7,589.6	7,471.6	68.9	24.1	84.84	4,225.8	13.4	488.9	404.0	84.92	5.757		
11,200.0	7,500.0	7,592.3	7,474.2	70.6	24.1	85.86	4,225.9	13.4	394.9	308.1	86.78	4.550		
11,300.0	7,500.0	7,595.0	7,476.9	72.3	24.1	86.88	4,226.0	13.4	304.7	216.0	88.61	3.438		
11,400.0	7,500.0	7,597.7	7,479.6	74.1	24.1	87.92	4,226.0	13.5	222.9	132.5	90.42	2.465		
11,500.0	7,500.0	7,600.4	7,482.3	75.8	24.1	88.97	4,226.1	13.5	163.0	70.7	92.22	1.767		
11,565.8	7,500.0	7,602.2	7,484.1	76.9	24.1	89.67	4,226.2	13.5	149.1	55.7	93.38	1.597 CC, ES, SF		
11,600.0	7,500.0	7,603.2	7,485.1	77.5	24.1	90.03	4,226.2	13.5	153.0	59.0	93.98	1.628		
11,700.0	7,500.0	7,606.0	7,487.9	79.3	24.1	91.10	4,226.3	13.5	200.6	104.9	95.72	2.095		
11,800.0	7,500.0	7,608.8	7,490.7	81.0	24.1	92.18	4,226.4	13.5	277.6	180.1	97.42	2.849		
11,900.0	7,500.0	7,611.6	7,493.5	82.7	24.1	93.28	4,226.4	13.5	365.8	266.7	99.09	3.692		
12,000.0	7,500.0	7,614.5	7,496.4	84.5	24.2	94.38	4,226.5	13.6	458.9	358.2	100.73	4.556		
12,100.0	7,500.0	7,617.4	7,499.3	86.2	24.2	95.49	4,226.6	13.6	554.4	452.1	102.32	5.418		
12,200.0	7,500.0	7,620.4	7,502.3	87.9	24.2	96.60	4,226.7	13.6	651.3	547.4	103.87	6.270		
12,300.0	7,500.0	7,623.3	7,505.3	89.7	24.2	97.73	4,226.8	13.6	748.9	643.5	105.38	7.107		
12,400.0	7,500.0	7,626.4	7,508.3	91.4	24.2	98.86	4,226.9	13.7	847.1	740.3	106.84	7.929		
12,500.0	7,500.0	7,629.4	7,511.3	93.1	24.2	99.99	4,227.0	13.7	945.7	837.4	108.25	8.736		
12,600.0	7,500.0	7,631.0	7,512.9	94.9	24.2	100.59	4,227.0	13.7	1,044.5	934.7	109.78	9.514		
12,700.0	7,500.0	7,631.0	7,512.9	96.6	24.2	100.59	4,227.0	13.7	1,143.5	1,032.0	111.49	10.257		
12,800.0	7,500.0	7,637.6	7,519.5	98.3	24.2	102.99	4,227.2	13.8	1,242.7	1,130.3	112.33	11.063		
12,900.0	7,500.0	7,640.1	7,522.0	100.1	24.2	103.92	4,227.3	13.8	1,342.0	1,228.3	113.64	11.809		
13,000.0	7,500.0	7,642.6	7,524.5	101.8	24.2	104.81	4,227.3	13.8	1,441.4	1,326.4	114.92	12.542		
13,100.0	7,500.0	7,645.0	7,526.9	103.6	24.2	105.67	4,227.4	13.8	1,540.8	1,424.6	116.17	13.263		
13,200.0	7,500.0	7,647.4	7,529.3	105.3	24.2	106.51	4,227.5	13.8	1,640.3	1,522.9	117.41	13.971		
13,300.0	7,500.0	7,649.7	7,531.6	107.0	24.2	107.32	4,227.5	13.8	1,739.9	1,621.3	118.62	14.668		
13,400.0	7,500.0	7,652.0	7,533.9	108.8	24.2	108.11	4,227.6	13.9	1,839.5	1,719.7	119.81	15.354		
13,500.0	7,500.0	7,654.2	7,536.1	110.5	24.2	108.87	4,227.7	13.9	1,939.2	1,818.2	120.98	16.029		
13,600.0	7,500.0	7,656.4	7,538.3	112.3	24.2	109.61	4,227.7	13.9	2,038.8	1,916.7	122.13	16.694		
13,700.0	7,500.0	7,658.5	7,540.4	114.0	24.2	110.33	4,227.8	13.9	2,138.6	2,015.3	123.26	17.350		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,800.0	7,500.0	7,660.6	7,542.5	115.7	24.2	111.02	4,227.8	13.9	2,238.3	2,113.9	124.38	17.995	
13,900.0	7,500.0	7,662.6	7,544.5	117.5	24.2	111.70	4,227.9	13.9	2,338.0	2,212.6	125.48	18.632	
14,000.0	7,500.0	7,664.6	7,546.5	119.2	24.2	112.35	4,227.9	13.9	2,437.8	2,311.2	126.57	19.260	
14,100.0	7,500.0	7,666.5	7,548.4	121.0	24.2	112.99	4,228.0	13.9	2,537.6	2,410.0	127.65	19.880	
14,200.0	7,500.0	7,668.4	7,550.3	122.7	24.2	113.60	4,228.0	13.9	2,637.4	2,508.7	128.71	20.491	
14,300.0	7,500.0	7,670.3	7,552.2	124.5	24.2	114.20	4,228.1	13.9	2,737.2	2,607.5	129.76	21.094	
14,400.0	7,500.0	7,672.1	7,554.0	126.2	24.2	114.78	4,228.1	13.9	2,837.0	2,706.2	130.80	21.689	
14,422.4	7,500.0	7,672.5	7,554.4	126.6	24.2	114.91	4,228.1	13.9	2,859.4	2,728.4	131.04	21.822	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU											Offset Site Error: 0.0 ft		
Survey Program: 797-MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	15.01	3,623.1	971.3	3,751.1				
100.0	100.0	86.6	86.6	0.2	0.1	15.01	3,623.1	971.3	3,751.0	3,750.7	0.30	N/A	
200.0	200.0	188.4	188.4	0.3	0.3	15.00	3,623.1	971.1	3,751.0	3,750.3	0.65	5,773.105	
300.0	300.0	290.2	290.2	0.5	0.5	15.00	3,623.0	970.9	3,750.9	3,749.9	1.00	3,754.457	
309.1	309.1	299.4	299.4	0.5	0.5	155.00	3,623.0	970.8	3,750.9	3,749.8	1.03	3,640.051	
400.0	400.0	392.0	392.0	0.7	0.7	155.00	3,623.0	970.5	3,751.5	3,750.1	1.35	2,782.963	
500.0	500.0	493.8	493.8	0.9	0.8	155.00	3,622.9	970.0	3,753.6	3,751.9	1.70	2,211.203	
600.0	599.9	595.6	595.6	1.0	1.0	155.01	3,622.7	969.4	3,757.3	3,755.3	2.05	1,834.712	
700.0	699.8	697.3	697.3	1.2	1.2	160.69	3,622.6	968.7	3,761.1	3,758.7	2.40	1,567.921	
800.0	799.7	799.1	799.1	1.4	1.4	176.08	3,622.5	967.9	3,763.4	3,760.6	2.75	1,369.493	
865.6	865.4	863.5	863.5	1.5	1.5	-151.75	3,622.4	967.3	3,764.1	3,761.1	2.97	1,265.261	
900.0	899.7	897.2	897.2	1.6	1.5	-151.76	3,622.3	967.0	3,764.3	3,761.2	3.09	1,216.739	
1,000.0	999.7	1,003.7	1,003.6	1.7	1.7	-151.79	3,622.3	965.8	3,765.0	3,761.5	3.45	1,089.815	
1,100.0	1,099.7	1,754.7	1,747.8	1.9	3.6	-152.71	3,569.8	894.0	3,756.2	3,751.0	5.18	725.244	
1,200.0	1,199.7	1,865.5	1,855.9	2.1	4.0	-152.95	3,554.4	874.9	3,739.3	3,733.7	5.64	662.683	
1,300.0	1,299.7	1,986.7	1,973.7	2.3	4.5	-153.25	3,537.6	851.9	3,722.2	3,716.0	6.17	603.482	
1,400.0	1,399.7	2,239.0	2,215.7	2.4	5.7	-154.06	3,499.6	791.5	3,702.6	3,695.4	7.23	512.379	
1,500.0	1,499.7	2,340.0	2,312.1	2.6	6.2	-154.38	3,481.8	767.3	3,680.7	3,672.9	7.77	473.758	
1,600.0	1,599.7	2,414.1	2,382.8	2.8	6.6	-154.63	3,469.4	749.1	3,659.6	3,651.4	8.23	444.898	
1,700.0	1,699.7	2,627.7	2,586.2	3.0	7.7	-155.33	3,429.6	697.5	3,636.5	3,627.3	9.20	395.125	
1,800.0	1,799.7	2,705.5	2,660.3	3.1	8.2	-155.57	3,414.1	679.7	3,613.1	3,603.4	9.66	374.025	
1,900.0	1,899.7	2,798.3	2,749.0	3.3	8.7	-155.84	3,395.7	659.4	3,590.0	3,579.8	10.17	352.847	
2,000.0	1,999.6	2,891.7	2,838.2	3.5	9.2	-156.12	3,377.2	638.7	3,567.0	3,556.3	10.69	333.679	
2,100.0	2,099.6	2,983.7	2,926.2	3.7	9.6	-156.39	3,358.9	619.1	3,544.2	3,533.0	11.21	316.261	
2,200.0	2,199.6	3,064.6	3,003.5	3.9	10.1	-156.65	3,343.1	600.9	3,521.6	3,509.9	11.71	300.860	
2,300.0	2,299.6	3,125.0	3,061.0	4.0	10.4	-156.86	3,331.9	586.5	3,499.9	3,487.7	12.13	288.437	
2,400.0	2,399.6	3,202.8	3,135.3	4.2	10.8	-157.13	3,318.1	568.2	3,478.9	3,466.3	12.62	275.597	
2,500.0	2,499.6	3,277.0	3,206.6	4.4	11.2	-157.37	3,305.2	551.6	3,458.7	3,445.7	13.09	264.322	
2,600.0	2,599.6	3,357.6	3,284.1	4.6	11.6	-157.63	3,291.5	534.4	3,439.2	3,425.6	13.59	253.039	
2,700.0	2,699.6	3,452.4	3,374.9	4.7	12.1	-157.97	3,276.1	512.1	3,420.1	3,405.9	14.17	241.358	
2,800.0	2,799.6	3,639.0	3,553.7	4.9	13.1	-158.61	3,243.1	470.3	3,400.0	3,384.9	15.13	224.786	
2,900.0	2,899.6	3,733.5	3,643.9	5.1	13.7	-158.94	3,224.8	448.7	3,378.2	3,362.5	15.71	215.073	
3,000.0	2,999.6	3,801.9	3,709.2	5.3	14.0	-159.19	3,212.1	432.9	3,357.3	3,341.1	16.19	207.406	
3,100.0	3,099.6	3,879.0	3,782.8	5.4	14.5	-159.48	3,198.4	414.5	3,337.1	3,320.4	16.72	199.582	
3,200.0	3,199.6	3,969.1	3,868.9	5.6	15.0	-159.84	3,182.7	392.7	3,317.4	3,300.1	17.31	191.594	
3,300.0	3,299.6	4,081.7	3,976.2	5.8	15.6	-160.28	3,162.9	365.4	3,297.6	3,279.6	18.03	182.898	
3,400.0	3,399.5	4,164.0	4,054.7	6.0	16.0	-160.61	3,148.5	345.3	3,278.0	3,259.4	18.60	176.234	
3,500.0	3,499.5	4,319.3	4,202.1	6.1	17.0	-161.27	3,119.0	306.1	3,256.6	3,237.0	19.55	166.535	
3,600.0	3,599.5	4,384.5	4,264.2	6.3	17.3	-161.53	3,106.8	290.5	3,236.2	3,216.1	20.04	161.508	
3,700.0	3,699.5	4,457.2	4,333.8	6.5	17.7	-161.81	3,093.6	274.1	3,216.7	3,196.1	20.55	156.529	
3,800.0	3,799.5	4,540.0	4,412.8	6.7	18.2	-162.15	3,078.9	254.3	3,197.6	3,176.4	21.15	151.154	
3,900.0	3,899.5	4,605.1	4,474.9	6.8	18.5	-162.44	3,067.9	238.0	3,179.4	3,157.7	21.67	146.747	
4,000.0	3,999.5	4,746.4	4,609.5	7.0	19.4	-163.07	3,044.6	202.0	3,161.8	3,139.2	22.61	139.830	
4,100.0	4,099.5	4,837.7	4,696.2	7.2	19.9	-163.51	3,028.8	177.9	3,143.3	3,120.0	23.29	134.937	
4,200.0	4,199.5	4,936.2	4,789.9	7.4	20.5	-163.96	3,011.4	153.1	3,124.8	3,100.8	23.99	130.276	
4,300.0	4,299.5	5,010.0	4,860.5	7.5	20.8	-164.27	2,998.7	136.0	3,107.2	3,082.7	24.53	126.693	
4,400.0	4,399.5	5,065.1	4,913.6	7.7	21.1	-164.49	2,989.8	124.0	3,090.6	3,065.7	24.96	123.838	
4,500.0	4,499.5	5,136.7	4,982.7	7.9	21.4	-164.76	2,978.7	109.2	3,075.1	3,049.6	25.46	120.793	
4,600.0	4,599.5	5,211.6	5,055.3	8.1	21.8	-165.04	2,967.6	94.6	3,060.4	3,034.4	25.96	117.887	
4,700.0	4,699.5	5,293.0	5,134.6	8.2	22.1	-165.32	2,956.1	79.7	3,046.6	3,020.1	26.47	115.096	
4,800.0	4,799.5	5,336.1	5,176.7	8.4	22.3	-165.45	2,950.4	72.5	3,033.9	3,007.1	26.81	113.180	
4,900.0	4,899.4	5,389.0	5,228.5	8.6	22.5	-165.61	2,944.3	64.1	3,022.9	2,995.8	27.18	111.230	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU											Offset Site Error:		0.0 ft
Survey Program: 797-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,999.4	5,449.9	5,288.5	8.8	22.7	-165.78	2,938.1	55.3	3,013.4	2,985.8	27.56	109.345	
5,100.0	5,099.4	5,521.5	5,359.1	8.9	22.9	-165.97	2,931.5	45.8	3,005.0	2,977.0	27.96	107.456	
5,200.0	5,199.4	5,601.5	5,438.3	9.1	23.2	-166.15	2,924.6	36.2	2,997.3	2,968.9	28.38	105.623	
5,300.0	5,299.4	5,688.4	5,524.5	9.3	23.4	-166.32	2,917.6	27.4	2,990.2	2,961.4	28.78	103.911	
5,400.0	5,399.4	5,768.0	5,603.6	9.5	23.6	-166.45	2,911.5	21.3	2,983.5	2,954.4	29.12	102.451	
5,500.0	5,499.4	5,830.1	5,665.3	9.6	23.7	-166.52	2,907.3	17.4	2,977.9	2,948.5	29.42	101.229	
5,600.0	5,599.4	5,898.8	5,733.9	9.8	23.8	-166.60	2,903.6	13.7	2,973.5	2,943.8	29.71	100.087	
5,700.0	5,699.4	5,957.0	5,792.0	10.0	23.9	-166.64	2,900.8	11.6	2,970.1	2,940.1	29.97	99.101	
5,800.0	5,799.4	6,024.3	5,859.2	10.2	24.0	-166.68	2,898.4	9.7	2,967.8	2,937.6	30.24	98.143	
5,900.0	5,899.4	6,086.8	5,921.7	10.3	24.0	-166.72	2,897.3	8.0	2,967.1	2,936.6	30.50	97.284	
5,914.3	5,913.7	6,097.3	5,932.1	10.4	24.1	-166.72	2,897.2	7.8	2,967.1	2,936.6	30.54	97.159	
6,000.0	5,999.4	6,165.2	6,000.0	10.5	24.1	-166.76	2,896.7	6.2	2,967.4	2,936.7	30.78	96.411	
6,100.0	6,099.4	6,266.1	6,100.9	10.7	24.2	-166.80	2,896.2	4.0	2,968.0	2,936.9	31.09	95.474	
6,200.0	6,199.4	6,365.4	6,200.2	10.9	24.3	-166.85	2,895.6	2.1	2,968.6	2,937.2	31.39	94.572	
6,300.0	6,299.4	6,455.5	6,290.3	11.1	24.4	-166.88	2,895.2	0.4	2,969.3	2,937.6	31.68	93.725	
6,400.0	6,399.3	6,550.6	6,385.4	11.2	24.5	-166.92	2,895.1	-1.5	2,970.4	2,938.4	31.98	92.869	
6,500.0	6,499.3	6,650.0	6,484.8	11.4	24.7	-166.97	2,895.1	-3.7	2,971.5	2,939.2	32.30	92.001	
6,600.0	6,599.3	6,759.5	6,594.2	11.6	24.8	-167.03	2,894.9	-6.6	2,972.5	2,939.8	32.64	91.069	
6,700.0	6,699.3	6,872.2	6,706.8	11.8	24.9	-167.10	2,894.3	-9.9	2,973.1	2,940.1	32.97	90.170	
6,800.0	6,799.3	6,986.8	6,821.5	11.9	25.1	-167.15	2,893.2	-12.2	2,973.2	2,939.9	33.29	89.308	
6,848.8	6,848.1	7,032.1	6,866.7	12.0	25.1	-167.17	2,892.6	-12.9	2,973.1	2,939.7	33.43	88.928	
6,900.0	6,899.3	7,077.3	6,911.9	12.1	25.2	-167.18	2,892.1	-13.5	2,973.2	2,939.6	33.58	88.544	
6,921.2	6,920.6	7,096.1	6,930.7	12.1	25.2	-167.19	2,892.0	-13.7	2,973.2	2,939.6	33.64	88.386	
6,950.0	6,949.3	7,121.5	6,956.1	12.2	25.2	-3.01	2,891.8	-14.1	2,972.6	2,938.9	33.67	88.276	
7,000.0	6,999.1	7,165.6	7,000.1	12.3	25.2	-0.53	2,891.5	-14.7	2,968.2	2,934.6	33.57	88.416	
7,050.0	7,048.4	7,187.0	7,021.6	12.3	25.3	-0.07	2,891.4	-15.0	2,959.6	2,926.4	33.23	89.056	
7,100.0	7,096.7	7,237.6	7,072.2	12.4	25.3	0.12	2,891.3	-15.7	2,946.9	2,914.1	32.73	90.026	
7,150.0	7,143.8	7,270.2	7,104.8	12.5	25.3	0.23	2,891.5	-16.1	2,930.3	2,898.2	32.02	91.523	
7,200.0	7,189.2	7,301.8	7,136.4	12.5	25.4	0.31	2,891.9	-16.6	2,909.8	2,878.7	31.12	93.517	
7,250.0	7,232.6	7,332.2	7,166.7	12.6	25.4	0.37	2,892.3	-17.1	2,885.7	2,855.7	30.04	96.054	
7,300.0	7,273.7	7,376.0	7,210.6	12.7	25.4	0.43	2,893.2	-17.8	2,858.1	2,829.3	28.83	99.130	
7,350.0	7,312.1	7,394.0	7,228.6	12.9	25.4	0.49	2,893.7	-18.1	2,827.0	2,799.6	27.46	102.955	
7,400.0	7,347.6	7,430.6	7,265.2	13.1	25.5	0.56	2,894.5	-18.8	2,792.7	2,766.7	26.00	107.417	
7,450.0	7,379.9	7,464.1	7,298.6	13.3	25.5	0.64	2,895.3	-19.4	2,755.4	2,730.9	24.46	112.660	
7,500.0	7,408.8	7,494.2	7,328.7	13.5	25.5	0.74	2,896.1	-19.9	2,715.3	2,692.4	22.87	118.719	
7,550.0	7,434.0	7,522.0	7,356.5	13.8	25.6	0.88	2,896.7	-20.4	2,672.7	2,651.4	21.29	125.556	
7,600.0	7,455.3	7,546.2	7,380.7	14.2	25.6	1.09	2,897.3	-20.8	2,628.0	2,608.3	19.76	132.971	
7,650.0	7,472.7	7,566.1	7,400.6	14.6	25.6	1.41	2,897.7	-21.0	2,581.6	2,563.2	18.38	140.475	
7,700.0	7,485.8	7,581.5	7,416.0	15.0	25.6	1.97	2,898.1	-21.2	2,533.6	2,516.4	17.22	147.097	
7,750.0	7,494.7	7,592.2	7,426.7	15.5	25.6	3.17	2,898.3	-21.4	2,484.7	2,468.2	16.43	151.184	
7,800.0	7,499.3	7,598.3	7,432.8	16.0	25.6	7.40	2,898.4	-21.5	2,435.0	2,418.6	16.36	148.800	
7,827.7	7,500.0	7,599.7	7,434.2	16.3	25.6	23.64	2,898.4	-21.5	2,407.3	2,387.4	19.87	121.164	
7,900.0	7,500.0	7,601.3	7,435.8	17.2	25.6	24.32	2,898.5	-21.5	2,335.0	2,314.6	20.43	114.292	
8,000.0	7,500.0	7,603.6	7,438.1	18.4	25.6	25.32	2,898.5	-21.5	2,235.1	2,213.8	21.28	105.027	
8,100.0	7,500.0	7,605.9	7,440.3	19.7	25.6	26.40	2,898.6	-21.5	2,135.1	2,112.9	22.22	96.078	
8,200.0	7,500.0	7,608.1	7,442.6	21.1	25.6	27.57	2,898.6	-21.6	2,035.1	2,011.9	23.26	87.477	
8,300.0	7,500.0	7,610.3	7,444.8	22.5	25.6	28.82	2,898.7	-21.6	1,935.2	1,910.7	24.42	79.256	
8,400.0	7,500.0	7,612.5	7,447.0	24.0	25.6	30.18	2,898.7	-21.6	1,835.2	1,809.5	25.69	71.439	
8,500.0	7,500.0	7,614.7	7,449.2	25.5	25.6	31.66	2,898.8	-21.6	1,735.2	1,708.1	27.09	64.046	
8,600.0	7,500.0	7,616.9	7,451.4	27.0	25.6	33.26	2,898.8	-21.7	1,635.2	1,606.6	28.64	57.094	
8,700.0	7,500.0	7,619.1	7,453.5	28.6	25.6	35.00	2,898.8	-21.7	1,535.3	1,504.9	30.35	50.593	
8,800.0	7,500.0	7,621.2	7,455.7	30.2	25.6	36.91	2,898.9	-21.7	1,435.3	1,403.1	32.22	44.549	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 797-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.0	7,500.0	7,623.4	7,457.8	31.8	25.6	38.98	2,898.9	-21.7	1,335.3	1,301.1	34.27	38.962	
9,000.0	7,500.0	7,625.5	7,459.9	33.4	25.6	41.26	2,899.0	-21.8	1,235.4	1,198.9	36.52	33.829	
9,027.7	7,500.0	7,626.1	7,460.5	33.8	25.6	41.92	2,899.0	-21.8	1,207.7	1,170.5	37.18	32.485	
9,100.0	7,500.0	7,627.6	7,462.1	35.0	25.6	43.74	2,899.0	-21.8	1,135.4	1,096.4	38.96	29.140	
9,127.7	7,500.0	7,628.2	7,462.6	35.5	25.6	44.48	2,899.0	-21.8	1,107.7	1,068.0	39.68	27.917	
9,200.0	7,500.0	7,629.7	7,464.2	36.6	25.6	59.55	2,899.1	-21.8	1,035.5	987.6	47.87	21.629	
9,300.0	7,500.0	7,631.8	7,466.3	38.3	25.6	70.40	2,899.1	-21.8	935.6	882.5	53.08	17.626	
9,400.0	7,500.0	7,633.9	7,468.4	40.0	25.6	76.26	2,899.1	-21.8	835.8	779.9	55.97	14.934	
9,427.7	7,500.0	7,634.5	7,469.0	40.4	25.6	77.44	2,899.2	-21.8	808.2	751.6	56.60	14.279	
9,500.0	7,500.0	7,636.0	7,470.5	41.6	25.6	78.59	2,899.2	-21.9	736.3	678.3	58.02	12.691	
9,600.0	7,500.0	7,638.1	7,472.6	43.3	25.6	80.20	2,899.2	-21.9	636.9	576.9	59.96	10.621	
9,700.0	7,500.0	7,640.2	7,474.7	45.0	25.6	81.82	2,899.3	-21.9	537.6	475.7	61.89	8.687	
9,800.0	7,500.0	7,642.3	7,476.7	46.7	25.7	83.43	2,899.3	-21.9	438.8	375.0	63.79	6.878	
9,900.0	7,500.0	7,644.3	7,478.8	48.4	25.7	85.05	2,899.4	-21.9	340.5	274.9	65.66	5.186	
10,000.0	7,500.0	7,646.4	7,480.8	50.1	25.7	86.67	2,899.4	-21.9	243.7	176.2	67.50	3.610	
10,100.0	7,500.0	7,648.4	7,482.8	51.8	25.7	88.28	2,899.4	-22.0	151.1	81.8	69.31	2.180	
10,200.0	7,500.0	7,650.4	7,484.9	53.5	25.7	89.88	2,899.5	-22.0	79.0	8.0	71.07	1.112 Level 2	
10,232.9	7,500.0	7,651.1	7,485.5	54.0	25.7	90.41	2,899.5	-22.0	71.8	0.2	71.64	1.003 Level 2, CC, ES, SF	
10,300.0	7,500.0	7,652.4	7,486.9	55.2	25.7	91.48	2,899.5	-22.0	98.3	25.5	72.78	1.351 Level 3	
10,400.0	7,500.0	7,654.4	7,488.8	56.9	25.7	93.06	2,899.5	-22.0	181.8	107.4	74.44	2.443	
10,500.0	7,500.0	7,656.4	7,490.8	58.6	25.7	94.63	2,899.6	-22.0	276.5	200.5	76.06	3.636	
10,600.0	7,500.0	7,658.3	7,492.8	60.3	25.7	96.18	2,899.6	-22.1	374.0	296.4	77.61	4.818	
10,627.7	7,500.0	7,658.9	7,493.3	60.8	25.7	96.61	2,899.6	-22.1	401.2	323.2	78.04	5.142	
10,700.0	7,500.0	7,660.3	7,494.7	62.0	25.7	97.17	2,899.7	-22.1	472.4	393.0	79.37	5.952	
10,800.0	7,500.0	7,662.2	7,496.6	63.7	25.7	97.69	2,899.7	-22.1	571.2	489.9	81.22	7.032	
10,900.0	7,500.0	7,664.1	7,498.5	65.5	25.7	97.95	2,899.7	-22.1	670.0	587.0	83.09	8.064	
11,000.0	7,500.0	7,666.0	7,500.4	67.2	25.7	98.03	2,899.8	-22.1	769.0	684.0	84.97	9.050	
11,023.0	7,500.0	7,666.4	7,500.9	67.6	25.7	98.02	2,899.8	-22.1	791.8	706.4	85.40	9.271	
11,100.0	7,500.0	7,667.8	7,502.3	68.9	25.7	98.73	2,899.8	-22.1	868.0	781.5	86.58	10.026	
11,200.0	7,500.0	7,669.7	7,504.1	70.6	25.7	99.65	2,899.8	-22.1	967.3	879.2	88.09	10.980	
11,300.0	7,500.0	7,671.5	7,506.0	72.3	25.7	100.56	2,899.9	-22.2	1,066.6	977.0	89.58	11.907	
11,400.0	7,500.0	7,673.3	7,507.8	74.1	25.7	101.46	2,899.9	-22.2	1,166.1	1,075.1	91.03	12.809	
11,500.0	7,500.0	7,675.2	7,509.6	75.8	25.7	102.35	2,899.9	-22.2	1,265.6	1,173.2	92.47	13.688	
11,600.0	7,500.0	7,677.0	7,511.4	77.5	25.7	103.22	2,900.0	-22.2	1,365.3	1,271.4	93.87	14.544	
11,700.0	7,500.0	7,678.8	7,513.2	79.3	25.7	104.09	2,900.0	-22.2	1,464.9	1,369.7	95.25	15.380	
11,800.0	7,500.0	7,680.5	7,515.0	81.0	25.7	104.94	2,900.0	-22.2	1,564.6	1,468.0	96.60	16.198	
11,900.0	7,500.0	7,682.3	7,516.8	82.7	25.7	105.79	2,900.1	-22.2	1,664.4	1,566.5	97.92	16.997	
12,000.0	7,500.0	7,684.1	7,518.5	84.5	25.7	106.62	2,900.1	-22.2	1,764.1	1,664.9	99.21	17.781	
12,100.0	7,500.0	7,685.8	7,520.3	86.2	25.7	107.44	2,900.1	-22.2	1,863.9	1,763.4	100.48	18.550	
12,200.0	7,500.0	7,687.6	7,522.0	87.9	25.7	108.25	2,900.2	-22.3	1,963.7	1,862.0	101.72	19.305	
12,300.0	7,500.0	7,689.3	7,523.8	89.7	25.7	109.05	2,900.2	-22.3	2,063.6	1,960.6	102.94	20.047	
12,400.0	7,500.0	7,691.0	7,525.5	91.4	25.7	109.83	2,900.2	-22.3	2,163.4	2,059.3	104.13	20.777	
12,500.0	7,500.0	7,692.8	7,527.2	93.1	25.7	110.61	2,900.3	-22.3	2,263.3	2,158.0	105.29	21.496	
12,600.0	7,500.0	7,694.5	7,528.9	94.9	25.7	111.37	2,900.3	-22.3	2,363.1	2,256.7	106.43	22.204	
12,700.0	7,500.0	7,696.2	7,530.6	96.6	25.7	112.12	2,900.3	-22.3	2,463.0	2,355.5	107.54	22.904	
12,800.0	7,500.0	7,697.9	7,532.3	98.3	25.7	112.86	2,900.4	-22.3	2,562.9	2,454.3	108.62	23.594	
12,900.0	7,500.0	7,699.6	7,534.0	100.1	25.7	113.59	2,900.4	-22.3	2,662.8	2,553.1	109.69	24.276	
13,000.0	7,500.0	7,701.2	7,535.7	101.8	25.7	114.30	2,900.4	-22.3	2,762.7	2,652.0	110.72	24.951	
13,100.0	7,500.0	7,702.9	7,537.3	103.6	25.7	115.01	2,900.5	-22.3	2,862.6	2,750.8	111.74	25.619	
13,200.0	7,500.0	7,704.6	7,539.0	105.3	25.7	115.70	2,900.5	-22.4	2,962.5	2,849.8	112.73	26.279	
13,300.0	7,500.0	7,706.2	7,540.6	107.0	25.7	116.38	2,900.5	-22.4	3,062.4	2,948.7	113.70	26.934	
13,400.0	7,500.0	7,707.8	7,542.3	108.8	25.7	117.05	2,900.5	-22.4	3,162.3	3,047.7	114.65	27.583	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error: 0.0 ft
Survey Program: 797-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,500.0	7,500.0	7,709.5	7,543.9	110.5	25.7	117.71	2,900.6	-22.4	3,262.2	3,146.7	115.57	28.227	
13,600.0	7,500.0	7,711.1	7,545.5	112.3	25.7	118.36	2,900.6	-22.4	3,362.2	3,245.7	116.48	28.865	
13,700.0	7,500.0	7,712.7	7,547.1	114.0	25.7	118.99	2,900.6	-22.4	3,462.1	3,344.7	117.36	29.499	
13,800.0	7,500.0	7,714.3	7,548.7	115.7	25.7	119.62	2,900.7	-22.4	3,562.0	3,443.8	118.23	30.129	
13,900.0	7,500.0	7,715.9	7,550.3	117.5	25.7	120.23	2,900.7	-22.4	3,662.0	3,542.9	119.07	30.754	
14,000.0	7,500.0	7,717.5	7,551.9	119.2	25.7	120.84	2,900.7	-22.4	3,761.9	3,642.0	119.90	31.375	
14,100.0	7,500.0	7,719.1	7,553.5	121.0	25.7	121.43	2,900.7	-22.4	3,861.8	3,741.1	120.71	31.993	
14,200.0	7,500.0	7,720.7	7,555.1	122.7	25.7	122.01	2,900.8	-22.4	3,961.8	3,840.3	121.50	32.607	
14,300.0	7,500.0	7,722.2	7,556.7	124.5	25.7	122.59	2,900.8	-22.4	4,061.7	3,939.5	122.28	33.218	
14,400.0	7,500.0	7,723.8	7,558.2	126.2	25.7	123.15	2,900.8	-22.4	4,161.7	4,038.6	123.03	33.826	
14,422.4	7,500.0	7,724.1	7,558.6	126.6	25.7	123.28	2,900.8	-22.4	4,184.1	4,060.9	123.20	33.961	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	18.34	4,282.5	1,419.6	4,511.8					
100.0	100.0	72.7	72.7	0.2	0.1	18.34	4,282.4	1,419.6	4,511.6	4,511.3	0.28	N/A		
189.0	189.0	151.0	151.0	0.3	0.3	18.34	4,282.2	1,419.6	4,511.4	4,510.8	0.57	7,904.099		
200.0	200.0	159.5	159.5	0.3	0.3	18.34	4,282.2	1,419.6	4,511.4	4,510.8	0.60	7,459.031		
300.0	300.0	242.5	242.5	0.5	0.4	18.34	4,282.5	1,419.5	4,511.7	4,510.7	0.92	4,882.154		
400.0	400.0	334.0	333.9	0.7	0.6	158.33	4,283.2	1,419.1	4,513.0	4,511.8	1.26	3,585.600		
500.0	500.0	441.2	441.2	0.9	0.8	158.32	4,284.1	1,418.3	4,516.1	4,514.5	1.62	2,786.168		
600.0	599.9	571.2	571.2	1.0	1.0	158.32	4,284.5	1,417.7	4,520.3	4,518.2	2.02	2,233.657		
700.0	699.8	655.6	655.6	1.2	1.1	164.00	4,284.7	1,416.6	4,524.2	4,521.9	2.35	1,926.460		
800.0	799.7	740.3	740.2	1.4	1.3	179.37	4,285.6	1,415.0	4,527.3	4,524.6	2.67	1,693.691		
865.6	865.4	813.6	813.5	1.5	1.4	-148.48	4,286.4	1,413.5	4,528.6	4,525.6	2.92	1,552.419		
900.0	899.7	862.6	862.6	1.6	1.5	-148.49	4,286.8	1,412.6	4,528.9	4,525.9	3.06	1,478.206		
1,000.0	999.7	961.3	961.2	1.7	1.7	-148.53	4,287.4	1,410.3	4,529.8	4,526.4	3.41	1,326.677		
1,100.0	1,099.7	1,055.3	1,055.2	1.9	1.9	-148.57	4,288.4	1,407.6	4,530.9	4,527.2	3.76	1,205.777		
1,200.0	1,199.7	1,158.5	1,158.3	2.1	2.0	-148.62	4,289.5	1,404.7	4,532.0	4,527.9	4.12	1,100.499		
1,300.0	1,299.7	1,252.9	1,252.7	2.3	2.2	-148.67	4,290.5	1,401.9	4,533.1	4,528.6	4.46	1,015.571		
1,400.0	1,399.7	1,349.4	1,349.1	2.4	2.4	-148.71	4,291.8	1,399.0	4,534.4	4,529.6	4.81	942.077		
1,500.0	1,499.7	1,488.7	1,488.4	2.6	2.6	-148.78	4,293.1	1,394.7	4,535.4	4,530.2	5.24	865.391		
1,600.0	1,599.7	1,583.0	1,582.5	2.8	2.8	-148.83	4,293.5	1,391.7	4,535.8	4,530.2	5.59	811.836		
1,700.0	1,699.7	1,684.5	1,684.0	3.0	3.0	-148.88	4,294.1	1,388.4	4,536.3	4,530.4	5.95	762.828		
1,800.0	1,799.7	1,780.9	1,780.4	3.1	3.2	-148.92	4,294.7	1,385.3	4,536.9	4,530.6	6.30	720.451		
1,900.0	1,899.7	1,886.6	1,886.0	3.3	3.4	-148.97	4,295.2	1,382.0	4,537.4	4,530.8	6.66	680.938		
2,000.0	1,999.6	2,003.0	2,002.3	3.5	3.6	-149.02	4,295.4	1,378.8	4,537.7	4,530.7	7.05	643.906		
2,100.0	2,099.6	2,159.9	2,159.3	3.7	3.9	-149.06	4,293.5	1,375.5	4,536.8	4,529.3	7.50	605.134		
2,200.0	2,199.6	2,235.9	2,235.2	3.9	4.0	-149.08	4,292.4	1,374.1	4,535.8	4,528.0	7.80	581.178		
2,270.5	2,270.1	2,277.9	2,277.2	4.0	4.1	-149.09	4,292.0	1,373.6	4,535.6	4,527.6	8.00	566.911		
2,300.0	2,299.6	2,300.0	2,299.3	4.0	4.1	-149.09	4,291.8	1,373.3	4,535.6	4,527.5	8.09	560.607		
2,400.0	2,399.6	2,373.5	2,372.8	4.2	4.2	-149.11	4,291.7	1,372.6	4,536.2	4,527.8	8.39	540.429		
2,500.0	2,499.6	2,478.1	2,477.4	4.4	4.4	-149.13	4,291.9	1,371.3	4,536.9	4,528.2	8.75	518.321		
2,600.0	2,599.6	2,580.1	2,579.4	4.6	4.6	-149.16	4,292.1	1,369.3	4,537.5	4,528.4	9.11	498.130		
2,700.0	2,699.6	2,675.7	2,674.9	4.7	4.8	-149.19	4,292.3	1,367.6	4,538.2	4,528.7	9.45	480.084		
2,800.0	2,799.6	2,746.0	2,745.3	4.9	4.9	-149.21	4,292.6	1,366.5	4,539.1	4,529.4	9.75	465.461		
2,900.0	2,899.6	2,814.9	2,814.2	5.1	5.0	-149.23	4,293.5	1,365.6	4,540.9	4,530.9	10.05	451.911		
3,000.0	2,999.6	2,925.2	2,924.4	5.3	5.2	-149.26	4,294.9	1,364.4	4,542.8	4,532.4	10.42	436.109		
3,100.0	3,099.6	3,018.8	3,018.0	5.4	5.4	-149.28	4,296.1	1,363.4	4,544.7	4,533.9	10.76	422.505		
3,200.0	3,199.6	3,112.1	3,111.3	5.6	5.5	-149.31	4,297.4	1,362.3	4,546.7	4,535.6	11.10	409.746		
3,300.0	3,299.6	3,200.0	3,199.2	5.8	5.7	-149.34	4,299.0	1,361.0	4,549.0	4,537.5	11.43	398.050		
3,400.0	3,399.5	3,292.0	3,291.1	6.0	5.9	-149.37	4,301.0	1,359.4	4,551.5	4,539.7	11.77	386.782		
3,500.0	3,499.5	3,371.4	3,370.5	6.1	6.0	-149.40	4,302.9	1,358.0	4,554.2	4,542.1	12.09	376.833		
3,600.0	3,599.5	3,475.5	3,474.6	6.3	6.2	-149.45	4,305.8	1,355.8	4,557.3	4,544.8	12.45	366.075		
3,700.0	3,699.5	3,591.4	3,590.4	6.5	6.4	-149.50	4,308.7	1,353.1	4,560.0	4,547.2	12.83	355.319		
3,800.0	3,799.5	3,699.5	3,698.5	6.7	6.6	-149.54	4,311.1	1,350.9	4,562.5	4,549.3	13.20	345.578		
3,900.0	3,899.5	3,802.2	3,801.1	6.8	6.8	-149.58	4,313.1	1,349.1	4,564.8	4,551.2	13.56	336.634		
4,000.0	3,999.5	3,909.7	3,908.5	7.0	7.0	-149.61	4,315.0	1,347.4	4,567.1	4,553.1	13.93	327.954		
4,100.0	4,099.5	4,028.2	4,027.1	7.2	7.2	-149.65	4,316.7	1,345.5	4,569.0	4,554.7	14.31	319.248		
4,200.0	4,199.5	4,128.5	4,127.3	7.4	7.4	-149.68	4,318.0	1,343.8	4,570.7	4,556.0	14.66	311.680		
4,300.0	4,299.5	4,234.5	4,233.3	7.5	7.5	-149.72	4,319.4	1,341.9	4,572.4	4,557.4	15.03	304.244		
4,400.0	4,399.5	4,370.6	4,369.4	7.7	7.8	-149.76	4,320.6	1,339.3	4,573.7	4,558.3	15.45	296.112		
4,500.0	4,499.5	4,481.1	4,479.8	7.9	8.0	-149.80	4,320.9	1,337.1	4,574.4	4,558.6	15.82	289.208		
4,600.0	4,599.5	4,571.2	4,569.9	8.1	8.1	-149.83	4,321.1	1,335.4	4,575.1	4,558.9	16.15	283.257		
4,700.0	4,699.5	4,672.2	4,670.9	8.2	8.3	-149.86	4,321.5	1,333.6	4,575.9	4,559.4	16.51	277.239		
4,800.0	4,799.5	4,762.6	4,761.3	8.4	8.5	-149.88	4,321.8	1,332.1	4,576.8	4,559.9	16.84	271.772		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY											Offset Site Error:		0.0 ft
Survey Program: 100-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,900.0	4,899.4	4,844.4	4,843.0	8.6	8.6	-149.91	4,322.4	1,330.7	4,578.0	4,560.8	17.16	266.791	
5,000.0	4,999.4	4,942.2	4,940.9	8.8	8.8	-149.93	4,323.3	1,329.6	4,579.5	4,562.0	17.51	261.592	
5,100.0	5,099.4	5,053.6	5,052.2	8.9	9.0	-149.96	4,324.1	1,327.9	4,580.7	4,562.8	17.88	256.224	
5,200.0	5,199.4	5,139.1	5,137.7	9.1	9.1	-149.98	4,324.7	1,326.8	4,582.1	4,563.8	18.20	251.724	
5,300.0	5,299.4	5,224.8	5,223.5	9.3	9.3	-150.00	4,325.6	1,326.1	4,583.8	4,565.2	18.53	247.407	
5,400.0	5,399.4	5,330.9	5,329.5	9.5	9.5	-150.03	4,326.7	1,325.2	4,585.5	4,566.7	18.89	242.779	
5,500.0	5,499.4	5,432.7	5,431.3	9.6	9.7	-150.05	4,327.6	1,324.3	4,587.2	4,567.9	19.24	238.407	
5,600.0	5,599.4	5,524.3	5,522.9	9.8	9.8	-150.07	4,328.6	1,323.4	4,588.9	4,569.4	19.58	234.416	
5,700.0	5,699.4	5,617.7	5,616.3	10.0	10.0	-150.08	4,329.7	1,322.9	4,590.8	4,570.9	19.91	230.545	
5,800.0	5,799.4	5,709.8	5,708.3	10.2	10.1	-150.10	4,330.8	1,322.5	4,592.9	4,572.7	20.25	226.831	
5,900.0	5,899.4	5,828.2	5,826.8	10.3	10.4	-150.12	4,332.3	1,321.5	4,594.9	4,574.3	20.63	222.717	
6,000.0	5,999.4	5,941.7	5,940.2	10.5	10.6	-150.15	4,333.3	1,320.2	4,596.4	4,575.4	21.01	218.820	
6,100.0	6,099.4	6,038.2	6,036.8	10.7	10.7	-150.17	4,334.2	1,319.2	4,598.0	4,576.6	21.35	215.360	
6,200.0	6,199.4	6,131.1	6,129.6	10.9	10.9	-150.20	4,335.1	1,317.9	4,599.5	4,577.8	21.69	212.063	
6,300.0	6,299.4	6,214.4	6,212.9	11.1	11.0	-150.22	4,336.2	1,316.8	4,601.5	4,579.4	22.01	209.047	
6,400.0	6,399.3	6,343.9	6,342.4	11.2	11.3	-150.27	4,337.7	1,314.4	4,603.0	4,580.6	22.42	205.329	
6,500.0	6,499.3	6,457.4	6,455.8	11.4	11.5	-150.30	4,338.8	1,312.2	4,604.4	4,581.6	22.79	201.994	
6,600.0	6,599.3	6,558.1	6,556.5	11.6	11.7	-150.34	4,339.4	1,310.1	4,605.4	4,582.2	23.15	198.943	
6,700.0	6,699.3	6,646.6	6,645.0	11.8	11.8	-150.37	4,340.2	1,308.4	4,606.7	4,583.2	23.48	196.180	
6,800.0	6,799.3	6,754.6	6,753.0	11.9	12.0	-150.41	4,341.2	1,306.2	4,608.0	4,584.2	23.85	193.202	
6,900.0	6,899.3	6,861.1	6,859.4	12.1	12.2	-150.45	4,342.2	1,303.0	4,609.1	4,584.8	24.22	190.303	
6,921.2	6,920.6	6,881.4	6,879.7	12.1	12.2	-150.46	4,342.4	1,302.4	4,609.3	4,585.0	24.29	189.731	
6,950.0	6,949.3	6,909.6	6,907.9	12.2	12.3	13.72	4,342.7	1,301.5	4,608.9	4,584.5	24.38	189.033	
7,000.0	6,999.1	6,960.9	6,959.2	12.3	12.4	16.32	4,343.2	1,299.7	4,605.0	4,580.5	24.45	188.358	
7,050.0	7,048.4	7,000.0	6,998.2	12.3	12.5	17.02	4,343.6	1,298.3	4,596.9	4,572.5	24.38	188.564	
7,100.0	7,096.7	7,040.3	7,038.5	12.4	12.5	17.61	4,344.2	1,296.9	4,584.9	4,560.7	24.20	189.434	
7,150.0	7,143.8	7,072.1	7,070.3	12.5	12.6	18.27	4,344.7	1,295.7	4,569.0	4,545.1	23.91	191.073	
7,200.0	7,189.2	7,100.0	7,098.2	12.5	12.6	19.06	4,345.2	1,294.8	4,549.4	4,525.9	23.53	193.362	
7,250.0	7,232.6	7,135.0	7,133.1	12.6	12.7	20.06	4,346.0	1,293.7	4,526.3	4,503.2	23.09	196.055	
7,300.0	7,273.7	7,165.2	7,163.3	12.7	12.8	21.28	4,346.7	1,292.9	4,499.7	4,477.2	22.59	199.152	
7,350.0	7,312.1	7,200.0	7,198.1	12.9	12.8	22.84	4,347.6	1,292.2	4,470.0	4,447.9	22.10	202.242	
7,400.0	7,347.6	7,218.9	7,217.0	13.1	12.9	24.71	4,348.1	1,291.8	4,437.1	4,415.5	21.62	205.232	
7,450.0	7,379.9	7,241.8	7,239.8	13.3	12.9	27.08	4,348.7	1,291.5	4,401.5	4,380.3	21.25	207.157	
7,500.0	7,408.8	7,262.4	7,260.5	13.5	12.9	30.08	4,349.3	1,291.2	4,363.4	4,342.4	21.06	207.217	
7,550.0	7,434.0	7,280.7	7,278.7	13.8	13.0	33.90	4,349.9	1,291.0	4,323.1	4,301.9	21.16	204.324	
7,600.0	7,455.3	7,300.0	7,298.1	14.2	13.0	38.88	4,350.5	1,290.8	4,280.8	4,259.1	21.69	197.363	
7,650.0	7,472.7	7,300.0	7,298.1	14.6	13.0	45.04	4,350.5	1,290.8	4,236.9	4,214.2	22.68	186.795	
7,700.0	7,485.8	7,320.3	7,318.4	15.0	13.0	53.55	4,351.2	1,290.7	4,191.7	4,167.3	24.37	172.035	
7,750.0	7,494.7	7,327.9	7,326.0	15.5	13.0	64.12	4,351.4	1,290.6	4,145.5	4,119.1	26.40	156.997	
7,800.0	7,499.3	7,332.5	7,330.5	16.0	13.1	76.84	4,351.6	1,290.6	4,098.7	4,070.3	28.34	144.640	
7,827.7	7,500.0	7,333.7	7,331.7	16.3	13.1	84.52	4,351.6	1,290.6	4,072.6	4,043.5	29.09	139.980	
7,900.0	7,500.0	7,335.5	7,333.5	17.2	13.1	84.60	4,351.7	1,290.6	4,004.5	3,974.6	29.92	133.822	
8,000.0	7,500.0	7,338.0	7,336.1	18.4	13.1	84.71	4,351.8	1,290.6	3,910.7	3,879.5	31.16	125.519	
8,100.0	7,500.0	7,340.6	7,338.6	19.7	13.1	84.81	4,351.9	1,290.6	3,817.1	3,784.7	32.47	117.567	
8,200.0	7,500.0	7,343.2	7,341.2	21.1	13.1	84.92	4,352.0	1,290.6	3,723.9	3,690.1	33.84	110.030	
8,300.0	7,500.0	7,345.8	7,343.8	22.5	13.1	85.03	4,352.1	1,290.6	3,631.1	3,595.8	35.27	102.937	
8,400.0	7,500.0	7,348.4	7,346.4	24.0	13.1	85.14	4,352.2	1,290.6	3,538.6	3,501.8	36.75	96.293	
8,500.0	7,500.0	7,351.0	7,349.0	25.5	13.1	85.25	4,352.3	1,290.6	3,446.5	3,408.3	38.26	90.086	
8,600.0	7,500.0	7,353.7	7,351.7	27.0	13.1	85.36	4,352.4	1,290.5	3,354.9	3,315.1	39.80	84.297	
8,700.0	7,500.0	7,356.3	7,354.4	28.6	13.1	85.47	4,352.4	1,290.5	3,263.8	3,222.5	41.37	78.903	
8,800.0	7,500.0	7,359.0	7,357.0	30.2	13.1	85.59	4,352.5	1,290.5	3,173.2	3,130.3	42.95	73.878	
8,900.0	7,500.0	7,361.7	7,359.8	31.8	13.1	85.70	4,352.6	1,290.5	3,083.2	3,038.7	44.56	69.195	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY											Offset Site Error:		0.0 ft
Survey Program: 100-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,000.0	7,500.0	7,364.5	7,362.5	33.4	13.1	85.81	4,352.7	1,290.5	2,993.9	2,947.7	46.18	64.829	
9,027.7	7,500.0	7,365.2	7,363.2	33.8	13.1	85.85	4,352.8	1,290.5	2,969.2	2,922.6	46.63	63.672	
9,100.0	7,500.0	7,367.2	7,365.2	35.0	13.1	85.93	4,352.8	1,290.6	2,905.2	2,857.4	47.82	60.757	
9,127.7	7,500.0	7,368.0	7,366.0	35.5	13.1	85.96	4,352.9	1,290.6	2,880.7	2,832.5	48.27	59.677	
9,200.0	7,500.0	7,370.0	7,368.0	36.6	13.1	86.13	4,352.9	1,290.6	2,817.5	2,768.0	49.47	56.954	
9,300.0	7,500.0	7,372.8	7,370.8	38.3	13.1	86.36	4,353.1	1,290.6	2,731.5	2,680.4	51.13	53.427	
9,400.0	7,500.0	7,375.6	7,373.6	40.0	13.1	86.56	4,353.2	1,290.6	2,647.4	2,594.6	52.78	50.158	
9,427.7	7,500.0	7,376.4	7,374.4	40.4	13.1	86.62	4,353.2	1,290.6	2,624.5	2,571.2	53.24	49.295	
9,500.0	7,500.0	7,378.4	7,376.4	41.6	13.1	86.70	4,353.3	1,290.6	2,565.2	2,510.8	54.45	47.109	
9,600.0	7,500.0	7,381.2	7,379.2	43.3	13.1	86.81	4,353.4	1,290.6	2,484.3	2,428.2	56.14	44.256	
9,700.0	7,500.0	7,384.1	7,382.1	45.0	13.1	86.91	4,353.5	1,290.6	2,404.9	2,347.1	57.83	41.589	
9,800.0	7,500.0	7,387.0	7,385.0	46.7	13.1	87.03	4,353.6	1,290.6	2,327.1	2,267.5	59.52	39.096	
9,900.0	7,500.0	7,400.0	7,398.0	48.4	13.2	87.53	4,354.1	1,290.7	2,251.0	2,189.7	61.26	36.745	
10,000.0	7,500.0	7,400.0	7,398.0	50.1	13.2	87.53	4,354.1	1,290.7	2,176.8	2,113.8	62.96	34.577	
10,100.0	7,500.0	7,400.0	7,398.0	51.8	13.2	87.53	4,354.1	1,290.7	2,104.8	2,040.1	64.66	32.554	
10,200.0	7,500.0	7,400.0	7,398.0	53.5	13.2	87.53	4,354.1	1,290.7	2,035.1	1,968.7	66.36	30.668	
10,300.0	7,500.0	7,400.0	7,398.0	55.2	13.2	87.53	4,354.1	1,290.7	1,968.0	1,899.9	68.07	28.913	
10,400.0	7,500.0	7,400.0	7,398.0	56.9	13.2	87.53	4,354.1	1,290.7	1,903.8	1,834.0	69.78	27.285	
10,500.0	7,500.0	7,400.0	7,398.0	58.6	13.2	87.53	4,354.1	1,290.7	1,842.8	1,771.4	71.49	25.778	
10,600.0	7,500.0	7,411.2	7,409.2	60.3	13.2	87.96	4,354.5	1,290.7	1,785.3	1,712.1	73.24	24.375	
10,627.7	7,500.0	7,412.1	7,410.1	60.8	13.2	87.99	4,354.6	1,290.7	1,770.1	1,696.3	73.72	24.010	
10,700.0	7,500.0	7,414.5	7,412.5	62.0	13.2	88.07	4,354.7	1,290.8	1,731.3	1,656.3	74.99	23.088	
10,800.0	7,500.0	7,418.0	7,416.0	63.7	13.2	88.19	4,354.8	1,290.8	1,680.1	1,603.3	76.72	21.898	
10,900.0	7,500.0	7,421.5	7,419.5	65.5	13.2	88.31	4,354.9	1,290.8	1,631.8	1,553.3	78.44	20.802	
11,000.0	7,500.0	7,425.2	7,423.1	67.2	13.2	88.44	4,355.1	1,290.8	1,586.7	1,506.5	80.14	19.798	
11,023.0	7,500.0	7,426.0	7,424.0	67.6	13.2	88.47	4,355.1	1,290.8	1,576.8	1,496.2	80.53	19.579	
11,100.0	7,500.0	7,428.9	7,426.9	68.9	13.2	88.59	4,355.3	1,290.9	1,545.6	1,463.7	81.87	18.879	
11,200.0	7,500.0	7,432.8	7,430.7	70.6	13.2	88.74	4,355.4	1,290.9	1,510.0	1,426.4	83.60	18.062	
11,300.0	7,500.0	7,436.7	7,434.7	72.3	13.2	88.90	4,355.6	1,290.9	1,480.3	1,395.0	85.34	17.346	
11,400.0	7,500.0	7,440.8	7,438.8	74.1	13.2	89.07	4,355.8	1,290.9	1,456.9	1,369.8	87.08	16.731	
11,500.0	7,500.0	7,445.0	7,442.9	75.8	13.3	89.23	4,356.0	1,291.0	1,440.0	1,351.2	88.82	16.213	
11,600.0	7,500.0	7,449.3	7,447.2	77.5	13.3	89.41	4,356.2	1,291.0	1,429.9	1,339.4	90.56	15.790	
11,694.9	7,500.0	7,453.5	7,451.4	79.2	13.3	89.58	4,356.3	1,291.0	1,426.8	1,334.6	92.21	15.473 CC	
11,700.0	7,500.0	7,453.7	7,451.6	79.3	13.3	89.58	4,356.4	1,291.0	1,426.8	1,334.5	92.30	15.458 ES	
11,800.0	7,500.0	7,458.3	7,456.2	81.0	13.3	89.77	4,356.6	1,291.1	1,430.6	1,336.6	94.04	15.213	
11,900.0	7,500.0	7,462.9	7,460.9	82.7	13.3	89.95	4,356.8	1,291.1	1,441.4	1,345.6	95.78	15.049	
12,000.0	7,500.0	7,467.8	7,465.7	84.5	13.3	90.15	4,357.0	1,291.1	1,459.0	1,361.4	97.52	14.960	
12,100.0	7,500.0	7,472.7	7,470.7	86.2	13.3	90.35	4,357.3	1,291.2	1,483.0	1,383.8	99.27	14.940 SF	
12,200.0	7,500.0	7,477.9	7,475.8	87.9	13.3	90.55	4,357.5	1,291.2	1,513.4	1,412.3	101.01	14.982	
12,300.0	7,500.0	7,483.2	7,481.1	89.7	13.3	90.77	4,357.8	1,291.3	1,549.5	1,446.8	102.75	15.080	
12,400.0	7,500.0	7,488.6	7,486.5	91.4	13.3	90.98	4,358.1	1,291.3	1,591.1	1,486.6	104.49	15.227	
12,500.0	7,500.0	7,494.3	7,492.1	93.1	13.3	91.21	4,358.4	1,291.3	1,637.8	1,531.6	106.23	15.417	
12,600.0	7,500.0	7,500.0	7,497.9	94.9	13.3	91.44	4,358.7	1,291.4	1,689.1	1,581.1	107.97	15.644	
12,700.0	7,500.0	7,505.2	7,503.1	96.6	13.4	91.65	4,358.9	1,291.4	1,744.5	1,634.8	109.71	15.902	
12,800.0	7,500.0	7,510.4	7,508.2	98.3	13.4	91.86	4,359.2	1,291.5	1,803.9	1,692.4	111.45	16.186	
12,900.0	7,500.0	7,515.5	7,513.4	100.1	13.4	92.06	4,359.5	1,291.5	1,866.6	1,753.5	113.18	16.493	
13,000.0	7,500.0	7,520.6	7,518.5	101.8	13.4	92.27	4,359.8	1,291.6	1,932.5	1,817.6	114.91	16.817	
13,100.0	7,500.0	7,525.7	7,523.5	103.6	13.4	92.47	4,360.0	1,291.6	2,001.2	1,884.6	116.65	17.156	
13,200.0	7,500.0	7,530.8	7,528.6	105.3	13.4	92.67	4,360.3	1,291.7	2,072.5	1,954.1	118.38	17.507	
13,300.0	7,500.0	7,535.8	7,533.7	107.0	13.4	92.87	4,360.6	1,291.7	2,146.0	2,025.9	120.11	17.867	
13,400.0	7,500.0	7,540.9	7,538.7	108.8	13.4	93.08	4,360.8	1,291.8	2,221.6	2,099.8	121.84	18.234	
13,500.0	7,500.0	7,545.9	7,543.7	110.5	13.4	93.28	4,361.1	1,291.8	2,299.1	2,175.5	123.56	18.606	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY		Offset Site Error:		0.0 ft	
Survey Program:													100-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
13,600.0	7,500.0	7,550.9	7,548.7	112.3	13.4	93.48	4,361.4	1,291.8	2,378.2	2,252.9	125.29	18.982						
13,700.0	7,500.0	7,555.9	7,553.7	114.0	13.4	93.68	4,361.6	1,291.9	2,458.8	2,331.8	127.01	19.359						
13,800.0	7,500.0	7,560.9	7,558.7	115.7	13.5	93.88	4,361.9	1,291.9	2,540.8	2,412.1	128.73	19.737						
13,900.0	7,500.0	7,565.9	7,563.7	117.5	13.5	94.07	4,362.1	1,292.0	2,624.0	2,493.6	130.45	20.115						
14,000.0	7,500.0	7,570.8	7,568.6	119.2	13.5	94.27	4,362.4	1,292.0	2,708.4	2,576.2	132.17	20.492						
14,100.0	7,500.0	7,575.8	7,573.5	121.0	13.5	94.47	4,362.7	1,292.1	2,793.8	2,659.9	133.89	20.867						
14,200.0	7,500.0	7,580.7	7,578.5	122.7	13.5	94.66	4,362.9	1,292.1	2,880.1	2,744.5	135.60	21.239						
14,300.0	7,500.0	7,585.6	7,583.4	124.5	13.5	94.86	4,363.2	1,292.2	2,967.2	2,829.9	137.31	21.609						
14,400.0	7,500.0	7,590.5	7,588.2	126.2	13.5	95.05	4,363.4	1,292.2	3,055.2	2,916.2	139.02	21.976						
14,422.4	7,500.0	7,591.6	7,589.3	126.6	13.5	95.10	4,363.5	1,292.2	3,075.0	2,935.6	139.40	22.058						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL										Offset Site Error:		0.0 ft	
Survey Program: 775-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	15.27	3,659.5	999.3	3,793.6				
100.0	100.0	84.0	84.0	0.2	0.1	15.27	3,659.5	999.3	3,793.5	3,793.2	0.30	N/A	
200.0	200.0	184.0	184.0	0.3	0.3	15.27	3,659.5	999.3	3,793.5	3,792.9	0.64	5,907.710	
300.0	300.0	284.0	284.0	0.5	0.5	15.27	3,659.5	999.3	3,793.5	3,792.5	0.99	3,838.552	
400.0	400.0	384.0	384.0	0.7	0.7	155.28	3,659.5	999.3	3,794.3	3,793.0	1.33	2,843.428	
500.0	500.0	484.0	484.0	0.9	0.8	155.28	3,659.5	999.3	3,796.7	3,795.0	1.68	2,258.777	
600.0	599.9	583.9	583.9	1.0	1.0	155.29	3,659.5	999.3	3,800.7	3,798.6	2.03	1,874.007	
700.0	699.8	683.8	683.8	1.2	1.2	160.99	3,659.5	999.3	3,804.7	3,802.3	2.38	1,601.467	
800.0	799.7	775.0	775.0	1.4	1.3	176.39	3,659.5	999.3	3,807.4	3,804.7	2.71	1,406.525	
865.6	865.4	775.0	775.0	1.5	1.3	-151.43	3,659.5	999.3	3,809.0	3,806.2	2.82	1,350.294	
900.0	899.7	775.0	775.0	1.6	1.3	-151.43	3,659.5	999.3	3,810.2	3,807.3	2.88	1,322.726	
1,000.0	999.7	775.0	775.0	1.7	1.3	-151.43	3,659.5	999.3	3,815.4	3,812.3	3.05	1,249.152	
1,100.0	1,099.7	775.0	775.0	1.9	1.3	-151.43	3,659.5	999.3	3,823.2	3,820.0	3.23	1,184.243	
1,175.8	1,175.5	956.6	956.5	2.1	1.9	-151.49	3,665.0	997.5	3,821.7	3,817.9	3.74	1,021.468	
1,200.0	1,199.7	968.0	967.9	2.1	1.9	-151.50	3,665.7	997.3	3,823.3	3,819.5	3.81	1,003.868	
1,300.0	1,299.7	1,015.0	1,014.7	2.3	2.1	-151.53	3,669.1	996.2	3,830.6	3,826.5	4.09	937.418	
1,400.0	1,399.7	1,061.9	1,061.4	2.4	2.2	-151.57	3,673.2	994.9	3,839.3	3,835.0	4.37	879.554	
1,500.0	1,499.7	1,108.5	1,107.8	2.6	2.4	-151.61	3,678.0	993.4	3,849.4	3,844.8	4.64	828.817	
1,600.0	1,599.7	1,155.0	1,153.9	2.8	2.5	-151.66	3,683.5	991.6	3,860.9	3,856.0	4.92	784.058	
1,700.0	1,699.7	1,201.2	1,199.7	3.0	2.7	-151.72	3,689.7	989.6	3,873.7	3,868.5	5.20	744.352	
1,800.0	1,799.7	1,380.6	1,376.1	3.1	3.3	-151.99	3,720.2	979.8	3,892.8	3,887.0	5.79	672.228	
1,900.0	1,899.7	1,380.6	1,376.1	3.3	3.3	-151.99	3,720.2	979.8	3,905.6	3,899.6	5.97	654.697	
2,000.0	1,999.6	1,380.6	1,376.1	3.5	3.3	-151.99	3,720.2	979.8	3,920.8	3,914.7	6.14	638.570	
2,100.0	2,099.6	1,387.2	1,382.5	3.7	3.3	-152.00	3,721.6	979.4	3,938.5	3,932.2	6.33	622.109	
2,200.0	2,199.6	1,484.7	1,477.9	3.9	3.7	-152.17	3,741.0	973.1	3,957.4	3,950.6	6.75	586.376	
2,300.0	2,299.6	1,582.2	1,573.2	4.0	4.1	-152.34	3,760.5	966.9	3,976.2	3,969.1	7.17	554.806	
2,400.0	2,399.6	1,679.8	1,668.6	4.2	4.5	-152.51	3,780.0	960.6	3,995.1	3,987.5	7.58	526.733	
2,500.0	2,499.6	1,777.3	1,764.0	4.4	4.9	-152.68	3,799.5	954.4	4,014.0	4,006.0	8.00	501.619	
2,600.0	2,599.6	1,874.8	1,859.3	4.6	5.2	-152.84	3,819.0	948.1	4,033.0	4,024.6	8.42	479.030	
2,700.0	2,699.6	1,972.3	1,954.7	4.7	5.6	-153.00	3,838.4	941.9	4,052.0	4,043.2	8.84	458.609	
2,800.0	2,799.6	2,069.9	2,050.0	4.9	6.0	-153.16	3,857.9	935.6	4,071.0	4,061.8	9.25	440.065	
2,900.0	2,899.6	2,167.4	2,145.4	5.1	6.4	-153.32	3,877.4	929.3	4,090.1	4,080.4	9.67	423.152	
3,000.0	2,999.6	2,264.9	2,240.7	5.3	6.8	-153.48	3,896.9	923.1	4,109.1	4,099.1	10.08	407.668	
3,100.0	3,099.6	2,362.4	2,336.1	5.4	7.2	-153.64	3,916.4	916.8	4,128.2	4,117.8	10.49	393.441	
3,200.0	3,199.6	2,460.0	2,431.4	5.6	7.6	-153.79	3,935.8	910.6	4,147.4	4,136.5	10.90	380.326	
3,300.0	3,299.6	2,557.5	2,526.8	5.8	8.0	-153.94	3,955.3	904.3	4,166.6	4,155.2	11.32	368.198	
3,400.0	3,399.5	2,655.0	2,622.2	6.0	8.4	-154.10	3,974.8	898.1	4,185.8	4,174.0	11.73	356.951	
3,500.0	3,499.5	2,752.5	2,717.5	6.1	8.8	-154.25	3,994.3	891.8	4,205.0	4,192.8	12.14	346.494	
3,600.0	3,599.5	2,850.1	2,812.9	6.3	9.2	-154.40	4,013.8	885.6	4,224.2	4,211.7	12.54	336.747	
3,700.0	3,699.5	2,947.6	2,908.2	6.5	9.6	-154.55	4,033.2	879.3	4,243.5	4,230.6	12.95	327.640	
3,800.0	3,799.5	3,045.1	3,003.6	6.7	10.0	-154.69	4,052.7	873.0	4,262.8	4,249.5	13.36	319.113	
3,900.0	3,899.5	3,142.6	3,098.9	6.8	10.3	-154.84	4,072.2	866.8	4,282.2	4,268.4	13.76	311.112	
4,000.0	3,999.5	3,240.2	3,194.3	7.0	10.7	-154.98	4,091.7	860.5	4,301.5	4,287.4	14.17	303.592	
4,100.0	4,099.5	3,337.7	3,289.6	7.2	11.1	-155.13	4,111.2	854.3	4,320.9	4,306.4	14.57	296.510	
4,200.0	4,199.5	3,435.2	3,385.0	7.4	11.5	-155.27	4,130.6	848.0	4,340.3	4,325.4	14.98	289.829	
4,300.0	4,299.5	3,532.7	3,480.4	7.5	11.9	-155.41	4,150.1	841.8	4,359.8	4,344.4	15.38	283.516	
4,400.0	4,399.5	3,630.3	3,575.7	7.7	12.3	-155.55	4,169.6	835.5	4,379.3	4,363.5	15.78	277.543	
4,500.0	4,499.5	3,727.8	3,671.1	7.9	12.7	-155.68	4,189.1	829.3	4,398.8	4,382.6	16.18	271.882	
4,600.0	4,599.5	3,825.3	3,766.4	8.1	13.1	-155.82	4,208.6	823.0	4,418.3	4,401.7	16.58	266.510	
4,700.0	4,699.5	3,922.9	3,861.8	8.2	13.5	-155.96	4,228.0	816.7	4,437.8	4,420.8	16.98	261.406	
4,800.0	4,799.5	4,020.4	3,957.1	8.4	13.9	-156.09	4,247.5	810.5	4,457.4	4,440.0	17.37	256.550	
4,900.0	4,899.4	4,117.9	4,052.5	8.6	14.3	-156.22	4,267.0	804.2	4,477.0	4,459.2	17.77	251.925	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error: 0.0 ft	
Survey Program: 775-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,999.4	4,215.4	4,147.8	8.8	14.7	-156.36	4,286.5	798.0	4,496.6	4,478.4	18.17	247.514	
5,100.0	5,099.4	4,313.0	4,243.2	8.9	15.1	-156.49	4,306.0	791.7	4,516.2	4,497.7	18.56	243.304	
5,200.0	5,199.4	4,410.5	4,338.6	9.1	15.4	-156.62	4,325.4	785.5	4,535.9	4,516.9	18.96	239.281	
5,300.0	5,299.4	4,508.0	4,433.9	9.3	15.8	-156.75	4,344.9	779.2	4,555.6	4,536.2	19.35	235.432	
5,400.0	5,399.4	4,605.5	4,529.3	9.5	16.2	-156.87	4,364.4	773.0	4,575.3	4,555.5	19.74	231.748	
5,500.0	5,499.4	4,703.1	4,624.6	9.6	16.6	-157.00	4,383.9	766.7	4,595.0	4,574.8	20.13	228.217	
5,600.0	5,599.4	4,800.6	4,720.0	9.8	17.0	-157.13	4,403.4	760.5	4,614.7	4,594.2	20.53	224.831	
5,700.0	5,699.4	4,898.1	4,815.3	10.0	17.4	-157.25	4,422.8	754.2	4,634.5	4,613.6	20.92	221.581	
5,800.0	5,799.4	4,995.6	4,910.7	10.2	17.8	-157.37	4,442.3	747.9	4,654.3	4,633.0	21.31	218.458	
5,900.0	5,899.4	5,093.2	5,006.0	10.3	18.2	-157.50	4,461.8	741.7	4,674.1	4,652.4	21.69	215.456	
6,000.0	5,999.4	5,190.7	5,101.4	10.5	18.6	-157.62	4,481.3	735.4	4,693.9	4,671.8	22.08	212.568	
6,100.0	6,099.4	5,288.2	5,196.8	10.7	19.0	-157.74	4,500.8	729.2	4,713.8	4,691.3	22.47	209.787	
6,200.0	6,199.4	5,385.7	5,292.1	10.9	19.4	-157.86	4,520.2	722.9	4,733.6	4,710.8	22.86	207.108	
6,300.0	6,299.4	5,483.3	5,387.5	11.1	19.8	-157.98	4,539.7	716.7	4,753.5	4,730.3	23.24	204.525	
6,400.0	6,399.3	5,580.8	5,482.8	11.2	20.2	-158.09	4,559.2	710.4	4,773.4	4,749.8	23.63	202.033	
6,500.0	6,499.3	5,678.3	5,578.2	11.4	20.6	-158.21	4,578.7	704.2	4,793.4	4,769.4	24.01	199.628	
6,600.0	6,599.3	5,775.8	5,673.5	11.6	20.9	-158.32	4,598.2	697.9	4,813.3	4,788.9	24.40	197.305	
6,700.0	6,699.3	5,873.4	5,768.9	11.8	21.3	-158.44	4,617.6	691.6	4,833.3	4,808.5	24.78	195.060	
6,800.0	6,799.3	5,970.9	5,864.2	11.9	21.7	-158.55	4,637.1	685.4	4,853.3	4,828.1	25.16	192.889	
6,900.0	6,899.3	6,068.4	5,959.6	12.1	22.1	-158.67	4,656.6	679.1	4,873.3	4,847.7	25.54	190.789	
6,921.2	6,920.6	6,089.1	5,979.9	12.1	22.2	-158.69	4,660.7	677.8	4,877.5	4,851.9	25.62	190.351	
6,950.0	6,949.3	6,117.3	6,007.4	12.2	22.3	5.38	4,666.4	676.0	4,882.6	4,856.8	25.74	189.674	
7,000.0	6,999.1	6,166.9	6,055.8	12.3	22.5	7.74	4,676.3	672.8	4,888.0	4,862.2	25.86	189.014	
7,050.0	7,048.4	6,216.7	6,104.6	12.3	22.7	8.14	4,686.2	669.6	4,889.2	4,863.3	25.87	189.013	
7,100.0	7,096.7	6,266.5	6,153.3	12.4	22.9	8.34	4,696.2	666.4	4,886.0	4,860.2	25.76	189.672	
7,150.0	7,143.8	6,315.9	6,201.6	12.5	23.1	8.54	4,706.0	663.3	4,878.5	4,853.0	25.54	190.989	
7,200.0	7,189.2	6,364.5	6,249.1	12.5	23.3	8.78	4,715.7	660.1	4,866.9	4,841.6	25.22	192.958	
7,250.0	7,232.6	6,411.9	6,295.4	12.6	23.5	9.08	4,725.2	657.1	4,851.0	4,826.2	24.81	195.562	
7,300.0	7,273.7	6,457.8	6,340.3	12.7	23.7	9.47	4,734.4	654.2	4,831.2	4,806.9	24.31	198.763	
7,350.0	7,312.1	6,501.8	6,383.3	12.9	23.9	9.97	4,743.2	651.3	4,807.5	4,783.8	23.74	202.483	
7,400.0	7,347.6	6,548.1	6,431.6	13.1	25.2	12.12	4,835.9	621.6	4,773.2	4,748.5	24.67	193.509	
7,450.0	7,379.9	6,590.5	6,475.1	13.3	25.2	13.53	4,835.9	621.6	4,735.4	4,711.3	24.13	196.281	
7,500.0	7,408.8	6,641.9	6,526.5	13.5	25.3	15.39	4,835.9	621.6	4,695.1	4,671.4	23.71	198.034	
7,550.0	7,434.0	6,694.5	6,579.1	13.8	25.3	17.92	4,835.9	621.6	4,652.4	4,628.8	23.54	197.607	
7,600.0	7,455.3	6,746.9	6,631.5	14.2	25.3	21.50	4,835.9	621.6	4,607.7	4,583.8	23.85	193.201	
7,650.0	7,472.7	6,798.2	6,683.8	14.6	25.3	26.81	4,835.9	621.6	4,561.3	4,536.3	25.01	182.385	
7,700.0	7,485.8	6,849.3	6,734.9	15.0	25.3	35.24	4,835.9	621.6	4,513.7	4,486.0	27.69	163.000	
7,750.0	7,494.7	6,900.3	6,785.9	15.5	25.4	49.47	4,835.9	621.6	4,465.1	4,432.4	32.75	136.347	
7,800.0	7,499.3	6,950.9	6,836.5	16.0	25.4	73.20	4,835.9	621.6	4,416.0	4,376.8	39.19	112.689	
7,827.7	7,500.0	6,999.5	6,885.1	16.3	25.4	90.00	4,835.9	621.6	4,388.6	4,347.7	40.91	107.272	
7,900.0	7,500.0	7,049.5	6,935.1	17.2	25.4	90.00	4,835.9	621.6	4,317.3	4,275.5	41.74	103.435	
8,000.0	7,500.0	7,099.5	6,985.1	18.4	25.4	90.00	4,835.9	621.6	4,218.6	4,175.6	42.97	98.181	
8,100.0	7,500.0	7,149.5	7,035.1	19.7	25.4	90.00	4,835.9	621.6	4,120.0	4,075.8	44.28	93.053	
8,200.0	7,500.0	7,199.5	7,085.1	21.1	25.4	90.00	4,835.9	621.6	4,021.5	3,975.9	45.65	88.096	
8,300.0	7,500.0	7,249.5	7,135.1	22.5	25.4	90.00	4,835.9	621.6	3,923.1	3,876.0	47.08	83.335	
8,400.0	7,500.0	7,299.5	7,185.1	24.0	25.4	90.00	4,835.9	621.6	3,824.7	3,776.2	48.55	78.786	
8,500.0	7,500.0	7,349.5	7,235.1	25.5	25.4	90.00	4,835.9	621.6	3,726.4	3,676.4	50.05	74.452	
8,600.0	7,500.0	7,399.5	7,285.1	27.0	25.4	90.00	4,835.9	621.6	3,628.3	3,576.7	51.59	70.333	
8,700.0	7,500.0	7,449.5	7,335.1	28.6	25.4	90.00	4,835.9	621.6	3,530.2	3,477.0	53.15	66.422	
8,800.0	7,500.0	7,499.5	7,385.1	30.2	25.4	90.00	4,835.9	621.6	3,432.2	3,377.5	54.73	62.711	
8,900.0	7,500.0	7,549.5	7,435.1	31.8	25.4	90.00	4,835.9	621.6	3,334.4	3,278.1	56.33	59.193	
9,000.0	7,500.0	7,599.5	7,485.1	33.4	25.4	90.00	4,835.9	621.6	3,236.7	3,178.7	57.95	55.856	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL											Offset Site Error:		0.0 ft
Survey Program: 775-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,027.7	7,500.0	7,610.5	7,484.0	33.8	25.4	90.00	4,835.9	621.6	3,209.6	3,151.2	58.40	54.962	
9,100.0	7,500.0	7,610.5	7,484.0	35.0	25.4	90.00	4,835.9	621.6	3,139.1	3,079.5	59.58	52.691	
9,127.7	7,500.0	7,610.5	7,484.0	35.5	25.4	90.00	4,835.9	621.6	3,112.1	3,052.1	60.03	51.842	
9,200.0	7,500.0	7,610.5	7,484.0	36.6	25.4	90.00	4,835.9	621.6	3,041.8	2,980.5	61.28	49.639	
9,300.0	7,500.0	7,610.5	7,484.0	38.3	25.4	90.00	4,835.9	621.6	2,945.1	2,882.1	63.00	46.746	
9,400.0	7,500.0	7,610.5	7,484.0	40.0	25.4	90.00	4,835.9	621.6	2,849.1	2,784.4	64.72	44.021	
9,427.7	7,500.0	7,610.5	7,484.0	40.4	25.4	90.00	4,835.9	621.6	2,822.6	2,757.4	65.20	43.294	
9,500.0	7,500.0	7,610.5	7,484.0	41.6	25.4	90.00	4,835.9	621.6	2,753.8	2,687.4	66.40	41.470	
9,600.0	7,500.0	7,610.5	7,484.0	43.3	25.4	90.00	4,835.9	621.6	2,658.9	2,590.8	68.08	39.055	
9,700.0	7,500.0	7,610.5	7,484.0	45.0	25.4	90.00	4,835.9	621.6	2,564.3	2,494.5	69.76	36.757	
9,800.0	7,500.0	7,610.5	7,484.0	46.7	25.4	90.00	4,835.9	621.6	2,470.1	2,398.7	71.45	34.571	
9,900.0	7,500.0	7,610.5	7,484.0	48.4	25.4	90.00	4,835.9	621.6	2,376.5	2,303.3	73.14	32.491	
10,000.0	7,500.0	7,610.5	7,484.0	50.1	25.4	90.00	4,835.9	621.6	2,283.4	2,208.5	74.84	30.510	
10,100.0	7,500.0	7,610.5	7,484.0	51.8	25.4	90.00	4,835.9	621.6	2,190.8	2,114.3	76.54	28.623	
10,200.0	7,500.0	7,610.5	7,484.0	53.5	25.4	90.00	4,835.9	621.6	2,099.0	2,020.8	78.25	26.825	
10,300.0	7,500.0	7,610.5	7,484.0	55.2	25.4	90.00	4,835.9	621.6	2,008.0	1,928.0	79.96	25.113	
10,400.0	7,500.0	7,610.5	7,484.0	56.9	25.4	90.00	4,835.9	621.6	1,917.8	1,836.1	81.67	23.483	
10,500.0	7,500.0	7,610.5	7,484.0	58.6	25.4	90.00	4,835.9	621.6	1,828.7	1,745.3	83.38	21.931	
10,600.0	7,500.0	7,610.5	7,484.0	60.3	25.4	90.00	4,835.9	621.6	1,740.7	1,655.6	85.10	20.455	
10,627.7	7,500.0	7,610.5	7,484.0	60.8	25.4	90.00	4,835.9	621.6	1,716.6	1,631.0	85.58	20.059	
10,700.0	7,500.0	7,610.5	7,484.0	62.0	25.4	90.00	4,835.9	621.6	1,653.9	1,567.1	86.78	19.059	
10,800.0	7,500.0	7,610.5	7,484.0	63.7	25.4	90.00	4,835.9	621.6	1,567.8	1,479.4	88.43	17.730	
10,900.0	7,500.0	7,610.5	7,484.0	65.5	25.4	90.00	4,835.9	621.6	1,482.4	1,392.4	90.05	16.462	
11,000.0	7,500.0	7,610.5	7,484.0	67.2	25.4	90.00	4,835.9	621.6	1,398.1	1,306.4	91.65	15.254	
11,023.0	7,500.0	7,610.5	7,484.0	67.6	25.4	90.00	4,835.9	621.6	1,378.8	1,286.8	92.02	14.984	
11,100.0	7,500.0	7,610.5	7,484.0	68.9	25.4	90.00	4,835.9	621.6	1,315.2	1,221.8	93.35	14.089	
11,200.0	7,500.0	7,610.5	7,484.0	70.6	25.4	90.00	4,835.9	621.6	1,234.8	1,139.7	95.07	12.988	
11,300.0	7,500.0	7,610.5	7,484.0	72.3	25.4	90.00	4,835.9	621.6	1,157.4	1,060.6	96.79	11.958	
11,400.0	7,500.0	7,610.5	7,484.0	74.1	25.4	90.00	4,835.9	621.6	1,083.8	985.3	98.52	11.001	
11,500.0	7,500.0	7,610.5	7,484.0	75.8	25.4	90.00	4,835.9	621.6	1,014.7	914.5	100.25	10.122	
11,600.0	7,500.0	7,610.5	7,484.0	77.5	25.4	90.00	4,835.9	621.6	951.1	849.2	101.98	9.327	
11,700.0	7,500.0	7,610.5	7,484.0	79.3	25.4	90.00	4,835.9	621.6	894.2	790.5	103.71	8.623	
11,800.0	7,500.0	7,610.5	7,484.0	81.0	25.4	90.00	4,835.9	621.6	845.4	739.9	105.44	8.018	
11,900.0	7,500.0	7,610.5	7,484.0	82.7	25.4	90.00	4,835.9	621.6	806.0	698.9	107.17	7.521	
12,000.0	7,500.0	7,610.5	7,484.0	84.5	25.4	90.00	4,835.9	621.6	777.6	668.7	108.90	7.140	
12,100.0	7,500.0	7,610.5	7,484.0	86.2	25.4	90.00	4,835.9	621.6	761.4	650.7	110.64	6.882	
12,175.0	7,500.0	7,610.5	7,484.0	87.5	25.4	90.00	4,835.9	621.6	757.7	645.7	111.94	6.769 CC	
12,200.0	7,500.0	7,610.5	7,484.0	87.9	25.4	90.00	4,835.9	621.6	758.1	645.7	112.37	6.746 ES	
12,300.0	7,500.0	7,610.5	7,484.0	89.7	25.4	90.00	4,835.9	621.6	767.9	653.8	114.11	6.730 SF	
12,400.0	7,500.0	7,610.5	7,484.0	91.4	25.4	90.00	4,835.9	621.6	790.4	674.5	115.84	6.823	
12,500.0	7,500.0	7,610.5	7,484.0	93.1	25.4	90.00	4,835.9	621.6	824.4	706.9	117.58	7.012	
12,600.0	7,500.0	7,610.5	7,484.0	94.9	25.4	90.00	4,835.9	621.6	868.7	749.4	119.32	7.281	
12,700.0	7,500.0	7,610.5	7,484.0	96.6	25.4	90.00	4,835.9	621.6	921.8	800.7	121.06	7.615	
12,800.0	7,500.0	7,610.5	7,484.0	98.3	25.4	90.00	4,835.9	621.6	982.2	859.4	122.79	7.999	
12,900.0	7,500.0	7,610.5	7,484.0	100.1	25.4	90.00	4,835.9	621.6	1,048.7	924.1	124.53	8.421	
13,000.0	7,500.0	7,610.5	7,484.0	101.8	25.4	90.00	4,835.9	621.6	1,120.1	993.9	126.27	8.871	
13,100.0	7,500.0	7,610.5	7,484.0	103.6	25.4	90.00	4,835.9	621.6	1,195.7	1,067.7	128.01	9.341	
13,200.0	7,500.0	7,610.5	7,484.0	105.3	25.4	90.00	4,835.9	621.6	1,274.6	1,144.9	129.75	9.824	
13,300.0	7,500.0	7,610.5	7,484.0	107.0	25.4	90.00	4,835.9	621.6	1,356.4	1,224.9	131.50	10.315	
13,400.0	7,500.0	7,610.5	7,484.0	108.8	25.4	90.00	4,835.9	621.6	1,440.4	1,307.2	133.24	10.811	
13,500.0	7,500.0	7,610.5	7,484.0	110.5	25.4	90.00	4,835.9	621.6	1,526.3	1,391.4	134.98	11.308	
13,600.0	7,500.0	7,610.5	7,484.0	112.3	25.4	90.00	4,835.9	621.6	1,613.9	1,477.2	136.72	11.805	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL													Offset Site Error: 0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,700.0	7,500.0	7,610.5	7,484.0	114.0	25.4	90.00	4,835.9	621.6	1,702.9	1,564.4	138.46	12.298	
13,800.0	7,500.0	7,610.5	7,484.0	115.7	25.4	90.00	4,835.9	621.6	1,793.0	1,652.8	140.21	12.788	
13,900.0	7,500.0	7,610.5	7,484.0	117.5	25.4	90.00	4,835.9	621.6	1,884.1	1,742.1	141.95	13.273	
14,000.0	7,500.0	7,610.5	7,484.0	119.2	25.4	90.00	4,835.9	621.6	1,976.0	1,832.4	143.69	13.752	
14,100.0	7,500.0	7,610.5	7,484.0	121.0	25.4	90.00	4,835.9	621.6	2,068.8	1,923.3	145.44	14.224	
14,200.0	7,500.0	7,610.5	7,484.0	122.7	25.4	90.00	4,835.9	621.6	2,162.1	2,014.9	147.18	14.690	
14,300.0	7,500.0	7,610.5	7,484.0	124.5	25.4	90.00	4,835.9	621.6	2,256.1	2,107.1	148.93	15.149	
14,400.0	7,500.0	7,610.5	7,484.0	126.2	25.4	90.00	4,835.9	621.6	2,350.5	2,199.8	150.67	15.600	
14,422.4	7,500.0	7,610.5	7,484.0	126.6	25.4	90.00	4,835.9	621.6	2,371.7	2,220.6	151.06	15.700	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	14.93	3,612.2	962.9	3,738.4						
100.0	100.0	653.5	650.2	0.2	1.5	15.42	3,559.3	981.7	3,735.4	3,734.1	1.28	2,927.424			
200.0	200.0	784.6	779.7	0.3	1.9	15.46	3,538.8	978.5	3,719.6	3,717.9	1.72	2,160.095			
300.0	300.0	1,198.7	1,185.4	0.5	3.5	15.46	3,459.4	956.5	3,700.7	3,697.7	2.95	1,255.901			
400.0	400.0	1,285.7	1,269.7	0.7	3.9	155.57	3,438.8	951.6	3,677.1	3,674.2	2.97	1,236.625			
500.0	500.0	1,421.7	1,401.5	0.9	4.5	155.69	3,406.5	942.8	3,654.8	3,651.4	3.38	1,080.996			
600.0	599.9	1,529.4	1,505.7	1.0	5.0	155.79	3,380.7	934.3	3,633.4	3,629.7	3.74	972.542			
700.0	699.8	1,825.3	1,788.9	1.2	6.6	161.34	3,299.1	909.0	3,606.7	3,602.3	4.41	818.593			
800.0	799.7	1,896.0	1,856.3	1.4	6.9	176.56	3,278.3	903.6	3,578.9	3,574.2	4.70	762.150			
865.6	865.4	1,926.5	1,885.4	1.5	7.1	-151.38	3,269.5	901.4	3,560.4	3,555.5	4.86	733.177			
900.0	899.7	1,940.5	1,898.8	1.6	7.2	-151.38	3,265.6	900.4	3,550.8	3,545.8	4.94	718.882			
1,000.0	999.7	1,982.0	1,938.7	1.7	7.4	-151.38	3,254.4	897.3	3,523.9	3,518.7	5.18	679.910			
1,100.0	1,099.7	2,093.4	2,045.9	1.9	7.9	-151.43	3,226.0	887.1	3,497.9	3,492.4	5.54	631.499			
1,200.0	1,199.7	2,234.5	2,181.1	2.1	8.7	-151.47	3,187.5	875.2	3,470.1	3,464.2	5.95	582.990			
1,300.0	1,299.7	2,410.0	2,348.5	2.3	9.7	-151.53	3,137.5	858.6	3,441.0	3,434.6	6.42	536.098			
1,400.0	1,399.7	2,495.0	2,429.4	2.4	10.1	-151.58	3,112.8	849.9	3,411.2	3,404.5	6.74	506.481			
1,500.0	1,499.7	2,556.4	2,487.9	2.6	10.5	-151.60	3,095.3	843.9	3,382.0	3,375.0	7.01	482.248			
1,600.0	1,599.7	2,742.9	2,665.4	2.8	11.5	-151.63	3,040.0	828.4	3,352.4	3,344.9	7.51	446.570			
1,700.0	1,699.7	2,860.0	2,775.9	3.0	12.2	-151.65	3,002.9	817.9	3,320.4	3,312.5	7.88	421.367			
1,800.0	1,799.7	2,923.0	2,835.6	3.1	12.6	-151.67	2,983.5	811.8	3,289.1	3,280.9	8.16	403.029			
1,900.0	1,899.7	2,983.4	2,892.9	3.3	12.9	-151.68	2,965.4	806.5	3,258.7	3,250.3	8.44	386.152			
2,000.0	1,999.6	3,078.2	2,983.1	3.5	13.5	-151.70	2,937.3	798.5	3,228.8	3,220.0	8.77	367.980			
2,100.0	2,099.6	3,180.0	3,079.8	3.7	14.0	-151.75	2,907.3	787.9	3,198.6	3,189.5	9.12	350.695			
2,200.0	2,199.6	3,266.0	3,161.5	3.9	14.5	-151.79	2,881.9	779.2	3,168.5	3,159.0	9.44	335.590			
2,300.0	2,299.6	3,388.7	3,277.9	4.0	15.2	-151.87	2,845.3	765.9	3,137.6	3,127.8	9.82	319.367			
2,400.0	2,399.6	3,465.5	3,350.8	4.2	15.7	-151.92	2,822.7	757.6	3,107.4	3,097.3	10.13	306.749			
2,500.0	2,499.6	3,561.4	3,441.8	4.4	16.2	-151.99	2,794.4	747.1	3,076.9	3,066.5	10.47	293.904			
2,600.0	2,599.6	3,628.0	3,505.2	4.6	16.6	-152.04	2,775.2	739.7	3,047.3	3,036.5	10.76	283.242			
2,700.0	2,699.6	3,708.8	3,582.2	4.7	17.0	-152.11	2,752.6	730.8	3,018.3	3,007.2	11.07	272.580			
2,800.0	2,799.6	3,834.6	3,702.1	4.9	17.8	-152.19	2,716.8	717.8	2,989.2	2,977.7	11.47	260.712			
2,900.0	2,899.6	3,913.9	3,777.5	5.1	18.2	-152.21	2,693.3	711.2	2,959.4	2,947.7	11.78	251.310			
3,000.0	2,999.6	3,977.0	3,837.8	5.3	18.5	-152.21	2,675.2	706.5	2,930.8	2,918.7	12.06	243.037			
3,100.0	3,099.6	4,050.0	3,907.8	5.4	18.9	-152.21	2,654.9	701.6	2,903.1	2,890.7	12.36	234.906			
3,200.0	3,199.6	4,171.3	4,023.8	5.6	19.6	-152.23	2,620.9	692.6	2,875.0	2,862.3	12.74	225.633			
3,300.0	3,299.6	4,338.7	4,182.9	5.8	20.5	-152.30	2,571.3	677.3	2,844.6	2,831.4	13.21	215.403			
3,400.0	3,399.5	4,378.0	4,220.3	6.0	20.8	-152.31	2,559.6	673.8	2,814.7	2,801.3	13.45	209.300			
3,500.0	3,499.5	4,464.0	4,302.4	6.1	21.2	-152.34	2,535.1	666.5	2,786.0	2,772.2	13.77	202.304			
3,600.0	3,599.5	4,530.6	4,366.3	6.3	21.6	-152.36	2,516.8	661.2	2,758.3	2,744.2	14.06	196.166			
3,700.0	3,699.5	4,653.6	4,484.0	6.5	22.2	-152.38	2,482.4	652.1	2,730.4	2,715.9	14.45	188.996			
3,800.0	3,799.5	4,721.0	4,548.5	6.7	22.6	-152.36	2,463.3	648.5	2,702.5	2,687.8	14.74	183.407			
3,900.0	3,899.5	4,806.0	4,630.1	6.8	23.0	-152.31	2,439.6	645.2	2,675.5	2,660.4	15.05	177.734			
4,000.0	3,999.5	4,861.8	4,683.7	7.0	23.3	-152.28	2,424.6	642.9	2,649.4	2,634.1	15.32	172.903			
4,100.0	4,099.5	4,918.9	4,739.0	7.2	23.6	-152.26	2,410.1	640.3	2,624.7	2,609.1	15.60	168.295			
4,200.0	4,199.5	4,978.0	4,796.3	7.4	23.8	-152.25	2,396.1	637.7	2,601.5	2,585.6	15.87	163.911			
4,300.0	4,299.5	5,039.5	4,856.2	7.5	24.1	-152.23	2,382.3	635.4	2,579.8	2,563.6	16.15	159.720			
4,400.0	4,399.5	5,109.1	4,924.1	7.7	24.3	-152.20	2,367.2	633.2	2,559.1	2,542.7	16.45	155.603			
4,500.0	4,499.5	5,179.9	4,993.4	7.9	24.6	-152.17	2,352.7	631.1	2,539.5	2,522.8	16.74	151.673			
4,600.0	4,599.5	5,234.0	5,046.4	8.1	24.8	-152.15	2,342.2	629.4	2,521.0	2,504.0	17.01	148.194			
4,700.0	4,699.5	5,320.0	5,131.0	8.2	25.1	-152.12	2,326.6	627.1	2,503.9	2,486.5	17.34	144.435			
4,800.0	4,799.5	5,363.0	5,173.3	8.4	25.2	-152.11	2,319.6	626.2	2,488.3	2,470.7	17.59	141.499			
4,900.0	4,899.4	5,406.0	5,215.9	8.6	25.4	-152.09	2,313.1	625.5	2,474.5	2,456.7	17.83	138.749			
5,000.0	4,999.4	5,471.4	5,280.7	8.8	25.5	-152.07	2,304.4	624.5	2,462.5	2,444.4	18.12	135.874			

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,099.4	5,528.7	5,337.6	8.9	25.7	-152.06	2,298.1	623.6	2,452.4	2,434.0	18.40	133.291	
5,200.0	5,199.4	5,577.0	5,385.7	9.1	25.8	-152.05	2,293.4	622.9	2,443.9	2,425.2	18.66	130.983	
5,300.0	5,299.4	5,662.0	5,470.4	9.3	25.9	-152.06	2,286.8	621.5	2,437.0	2,418.0	18.98	128.387	
5,400.0	5,399.4	5,715.4	5,523.7	9.5	26.0	-152.07	2,283.6	620.4	2,431.5	2,412.3	19.25	126.313	
5,500.0	5,499.4	5,784.6	5,592.8	9.6	26.1	-152.09	2,280.4	618.8	2,427.4	2,407.9	19.55	124.189	
5,600.0	5,599.4	5,854.8	5,663.0	9.8	26.2	-152.12	2,278.0	617.3	2,424.5	2,404.7	19.84	122.178	
5,700.0	5,699.4	5,919.0	5,727.1	10.0	26.2	-152.16	2,276.5	615.8	2,422.9	2,402.8	20.13	120.353	
5,800.0	5,799.4	6,009.6	5,817.7	10.2	26.3	-152.21	2,275.4	613.6	2,422.1	2,401.7	20.47	118.347	
5,857.1	5,856.5	6,057.2	5,865.3	10.3	26.3	-152.25	2,275.2	612.3	2,422.0	2,401.4	20.65	117.287	
5,900.0	5,899.4	6,093.9	5,901.9	10.3	26.4	-152.28	2,275.1	611.2	2,422.1	2,401.3	20.79	116.502	
6,000.0	5,999.4	6,202.3	6,010.3	10.5	26.5	-152.35	2,274.8	608.5	2,422.2	2,401.0	21.16	114.484	
6,100.0	6,099.4	6,302.6	6,110.6	10.7	26.5	-152.40	2,274.0	606.7	2,422.0	2,400.5	21.51	112.600	
6,125.1	6,124.4	6,325.3	6,133.3	10.7	26.6	-152.41	2,273.8	606.4	2,422.0	2,400.4	21.59	112.161	
6,200.0	6,199.4	6,393.2	6,201.2	10.9	26.6	-152.43	2,273.4	605.6	2,422.1	2,400.2	21.84	110.878	
6,300.0	6,299.4	6,482.9	6,290.9	11.1	26.7	-152.46	2,273.1	604.8	2,422.6	2,400.4	22.18	109.233	
6,400.0	6,399.3	6,572.0	6,380.0	11.2	26.8	-152.49	2,273.2	604.0	2,423.5	2,401.0	22.51	107.661	
6,500.0	6,499.3	6,669.7	6,477.7	11.4	26.8	-152.53	2,273.8	602.9	2,424.8	2,401.9	22.86	106.077	
6,600.0	6,599.3	6,772.2	6,580.2	11.6	26.9	-152.58	2,274.3	601.5	2,426.0	2,402.8	23.22	104.498	
6,700.0	6,699.3	6,863.7	6,671.7	11.8	27.0	-152.63	2,275.0	600.0	2,427.3	2,403.8	23.55	103.054	
6,800.0	6,799.3	6,946.0	6,753.9	11.9	27.0	-152.68	2,275.9	598.4	2,429.0	2,405.2	23.88	101.737	
6,900.0	6,899.3	7,044.5	6,852.4	12.1	27.1	-152.75	2,277.5	596.3	2,431.1	2,406.9	24.23	100.345	
6,921.2	6,920.6	7,063.5	6,871.4	12.1	27.1	-152.77	2,277.9	595.9	2,431.6	2,407.3	24.30	100.070	
6,950.0	6,949.3	7,089.3	6,897.2	12.2	27.1	11.40	2,278.4	595.3	2,431.6	2,407.3	24.30	100.060	
7,000.0	6,999.1	7,151.6	6,959.4	12.3	27.1	13.97	2,279.7	593.7	2,428.3	2,404.1	24.24	100.164	
7,050.0	7,048.4	7,243.7	7,051.5	12.3	27.2	14.66	2,280.5	590.9	2,420.2	2,396.1	24.12	100.326	
7,100.0	7,096.7	7,313.7	7,121.5	12.4	27.3	15.26	2,280.1	588.4	2,407.2	2,383.3	23.86	100.892	
7,150.0	7,143.8	7,362.1	7,169.9	12.5	27.4	15.94	2,279.7	586.7	2,390.1	2,366.6	23.47	101.820	
7,200.0	7,189.2	7,408.8	7,216.5	12.5	27.4	16.78	2,279.2	585.2	2,369.0	2,346.0	23.03	102.859	
7,250.0	7,232.6	7,453.3	7,261.0	12.6	27.5	17.84	2,278.7	583.8	2,344.3	2,321.7	22.58	103.824	
7,300.0	7,273.7	7,488.6	7,296.3	12.7	27.5	19.13	2,278.3	582.8	2,316.1	2,293.9	22.17	104.484	
7,350.0	7,312.1	7,520.5	7,328.2	12.9	27.5	20.74	2,278.0	582.0	2,284.7	2,262.8	21.89	104.375	
7,400.0	7,347.6	7,550.0	7,357.7	13.1	27.6	22.78	2,277.8	581.3	2,250.3	2,228.5	21.86	102.937	
7,450.0	7,379.9	7,577.0	7,384.7	13.3	27.6	25.36	2,277.6	580.8	2,213.3	2,191.1	22.22	99.595	
7,500.0	7,408.8	7,601.2	7,408.8	13.5	27.6	28.66	2,277.5	580.3	2,173.9	2,150.7	23.13	93.966	
7,550.0	7,434.0	7,622.4	7,430.0	13.8	27.6	32.95	2,277.5	579.9	2,132.3	2,107.5	24.77	86.102	
7,600.0	7,455.3	7,640.9	7,448.5	14.2	27.7	38.60	2,277.5	579.6	2,088.9	2,061.7	27.28	76.585	
7,650.0	7,472.7	7,656.3	7,463.9	14.6	27.7	46.06	2,277.5	579.4	2,044.1	2,013.3	30.75	66.479	
7,700.0	7,485.8	7,668.0	7,475.7	15.0	27.7	55.82	2,277.5	579.3	1,998.1	1,963.1	35.00	57.085	
7,750.0	7,494.7	7,676.1	7,483.7	15.5	27.7	68.10	2,277.5	579.2	1,951.3	1,912.0	39.32	49.623	
7,800.0	7,499.3	7,680.2	7,487.9	16.0	27.7	82.30	2,277.5	579.1	1,904.1	1,861.7	42.38	44.923	
7,827.7	7,500.0	7,680.9	7,488.5	16.3	27.7	90.42	2,277.5	579.1	1,877.8	1,834.8	43.08	43.586	
7,900.0	7,500.0	7,681.0	7,488.6	17.2	27.7	90.43	2,277.5	579.1	1,809.7	1,765.8	43.91	41.211	
8,000.0	7,500.0	7,681.2	7,488.8	18.4	27.7	90.45	2,277.5	579.1	1,715.9	1,670.7	45.14	38.012	
8,100.0	7,500.0	7,681.3	7,488.9	19.7	27.7	90.46	2,277.5	579.1	1,622.9	1,576.4	46.45	34.938	
8,200.0	7,500.0	7,681.5	7,489.1	21.1	27.7	90.48	2,277.5	579.1	1,530.7	1,482.9	47.82	32.008	
8,300.0	7,500.0	7,681.6	7,489.3	22.5	27.7	90.49	2,277.5	579.1	1,439.6	1,390.3	49.25	29.231	
8,400.0	7,500.0	7,681.8	7,489.4	24.0	27.7	90.51	2,277.5	579.1	1,349.7	1,299.0	50.72	26.612	
8,500.0	7,500.0	7,682.0	7,489.6	25.5	27.7	90.53	2,277.5	579.1	1,261.4	1,209.2	52.22	24.154	
8,600.0	7,500.0	7,682.2	7,489.8	27.0	27.7	90.54	2,277.5	579.1	1,175.0	1,121.2	53.76	21.856	
8,700.0	7,500.0	7,682.3	7,490.0	28.6	27.7	90.56	2,277.5	579.1	1,090.9	1,035.5	55.32	19.719	
8,800.0	7,500.0	7,682.5	7,490.1	30.2	27.7	90.57	2,277.5	579.1	1,009.6	952.7	56.90	17.743	
8,900.0	7,500.0	7,682.7	7,490.3	31.8	27.7	90.59	2,277.5	579.1	932.1	873.6	58.50	15.932	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	7,500.0	7,682.9	7,490.5	33.4	27.7	90.61	2,277.5	579.1	859.1	799.0	60.12	14.290	
9,027.7	7,500.0	7,682.9	7,490.5	33.8	27.7	90.61	2,277.5	579.1	839.9	779.3	60.57	13.867	
9,100.0	7,500.0	7,683.0	7,490.7	35.0	27.7	90.62	2,277.5	579.1	792.2	730.4	61.75	12.829	
9,127.7	7,500.0	7,683.1	7,490.7	35.5	27.7	90.63	2,277.5	579.1	774.8	712.6	62.20	12.457	
9,200.0	7,500.0	7,683.2	7,490.8	36.6	27.7	90.63	2,277.5	579.1	733.1	669.8	63.31	11.580	
9,300.0	7,500.0	7,683.4	7,491.0	38.3	27.7	90.65	2,277.5	579.1	685.2	620.4	64.83	10.569	
9,400.0	7,500.0	7,683.7	7,491.3	40.0	27.7	90.66	2,277.5	579.1	650.9	584.6	66.35	9.811	
9,427.7	7,500.0	7,683.7	7,491.3	40.4	27.7	90.67	2,277.5	579.1	644.1	577.4	66.77	9.648	
9,500.0	7,500.0	7,683.9	7,491.5	41.6	27.7	90.69	2,277.5	579.1	632.0	564.1	67.97	9.298	
9,570.5	7,500.0	7,684.1	7,491.7	42.8	27.7	90.70	2,277.5	579.1	628.1	558.9	69.15	9.082 CC, ES	
9,600.0	7,500.0	7,684.1	7,491.8	43.3	27.7	90.71	2,277.5	579.1	628.8	559.1	69.65	9.028	
9,700.0	7,500.0	7,684.4	7,492.0	45.0	27.7	90.73	2,277.5	579.1	641.3	570.0	71.33	8.990 SF	
9,800.0	7,500.0	7,684.6	7,492.3	46.7	27.7	90.75	2,277.5	579.0	668.7	595.7	73.02	9.158	
9,900.0	7,500.0	7,684.9	7,492.5	48.4	27.7	90.78	2,277.5	579.0	709.3	634.5	74.71	9.493	
10,000.0	7,500.0	7,685.2	7,492.8	50.1	27.7	90.80	2,277.5	579.0	760.9	684.5	76.41	9.958	
10,100.0	7,500.0	7,685.4	7,493.0	51.8	27.7	90.82	2,277.5	579.0	821.5	743.4	78.11	10.517	
10,200.0	7,500.0	7,685.7	7,493.3	53.5	27.7	90.85	2,277.5	579.0	889.2	809.4	79.81	11.141	
10,300.0	7,500.0	7,685.9	7,493.6	55.2	27.7	90.87	2,277.5	579.0	962.6	881.1	81.52	11.808	
10,400.0	7,500.0	7,686.2	7,493.8	56.9	27.7	90.90	2,277.5	579.0	1,040.4	957.2	83.23	12.500	
10,500.0	7,500.0	7,686.5	7,494.1	58.6	27.7	90.92	2,277.5	579.0	1,121.8	1,036.8	84.95	13.206	
10,600.0	7,500.0	7,686.7	7,494.4	60.3	27.7	90.95	2,277.5	579.0	1,205.9	1,119.3	86.66	13.915	
10,627.7	7,500.0	7,686.8	7,494.4	60.8	27.7	90.95	2,277.5	579.0	1,229.7	1,142.5	87.14	14.112	
10,700.0	7,500.0	7,687.0	7,494.6	62.0	27.7	90.95	2,277.5	579.0	1,292.1	1,203.6	88.49	14.602	
10,800.0	7,500.0	7,687.3	7,494.9	63.7	27.7	90.94	2,277.5	579.0	1,379.4	1,289.1	90.34	15.269	
10,900.0	7,500.0	7,687.5	7,495.1	65.5	27.7	90.93	2,277.5	579.0	1,467.5	1,375.3	92.17	15.923	
11,000.0	7,500.0	7,687.7	7,495.3	67.2	27.7	90.92	2,277.5	579.0	1,556.3	1,462.3	93.97	16.562	
11,023.0	7,500.0	7,687.7	7,495.4	67.6	27.7	90.91	2,277.5	579.0	1,576.8	1,482.4	94.38	16.707	
11,100.0	7,500.0	7,687.9	7,495.5	68.9	27.7	90.92	2,277.5	579.0	1,645.8	1,550.1	95.71	17.197	
11,200.0	7,500.0	7,688.1	7,495.7	70.6	27.7	90.94	2,277.5	579.0	1,736.5	1,639.1	97.43	17.823	
11,300.0	7,500.0	7,688.3	7,495.9	72.3	27.7	90.96	2,277.5	579.0	1,828.1	1,729.0	99.15	18.437	
11,400.0	7,500.0	7,688.5	7,496.1	74.1	27.7	90.97	2,277.5	579.0	1,920.6	1,819.7	100.88	19.039	
11,500.0	7,500.0	7,688.7	7,496.3	75.8	27.7	90.99	2,277.5	579.0	2,013.8	1,911.2	102.61	19.626	
11,600.0	7,500.0	7,688.9	7,496.5	77.5	27.7	91.01	2,277.5	579.0	2,107.6	2,003.3	104.34	20.200	
11,700.0	7,500.0	7,689.1	7,496.7	79.3	27.7	91.02	2,277.5	579.0	2,202.0	2,095.9	106.07	20.761	
11,800.0	7,500.0	7,689.3	7,496.9	81.0	27.7	91.04	2,277.5	579.0	2,296.8	2,189.0	107.80	21.307	
11,900.0	7,500.0	7,689.5	7,497.1	82.7	27.7	91.06	2,277.5	579.0	2,392.1	2,282.6	109.53	21.840	
12,000.0	7,500.0	7,689.7	7,497.3	84.5	27.7	91.07	2,277.5	579.0	2,487.7	2,376.5	111.26	22.360	
12,100.0	7,500.0	7,689.9	7,497.6	86.2	27.7	91.09	2,277.5	579.0	2,583.7	2,470.7	112.99	22.866	
12,200.0	7,500.0	7,690.2	7,497.8	87.9	27.7	91.11	2,277.5	579.0	2,679.9	2,565.2	114.73	23.359	
12,300.0	7,500.0	7,690.4	7,498.0	89.7	27.7	91.12	2,277.5	579.0	2,776.5	2,660.0	116.46	23.840	
12,400.0	7,500.0	7,690.6	7,498.2	91.4	27.7	91.14	2,277.5	579.0	2,873.2	2,755.0	118.20	24.309	
12,500.0	7,500.0	7,690.8	7,498.4	93.1	27.7	91.16	2,277.5	579.0	2,970.2	2,850.3	119.93	24.765	
12,600.0	7,500.0	7,691.0	7,498.7	94.9	27.7	91.18	2,277.5	579.0	3,067.4	2,945.7	121.67	25.211	
12,700.0	7,500.0	7,691.3	7,498.9	96.6	27.7	91.20	2,277.5	579.0	3,164.7	3,041.3	123.41	25.645	
12,800.0	7,500.0	7,691.5	7,499.1	98.3	27.7	91.21	2,277.5	579.0	3,262.2	3,137.1	125.14	26.068	
12,900.0	7,500.0	7,691.7	7,499.3	100.1	27.7	91.23	2,277.5	579.0	3,359.9	3,233.0	126.88	26.480	
13,000.0	7,500.0	7,692.0	7,499.6	101.8	27.7	91.25	2,277.5	579.0	3,457.7	3,329.0	128.62	26.883	
13,100.0	7,500.0	7,692.2	7,499.8	103.6	27.7	91.27	2,277.5	579.0	3,555.6	3,425.2	130.36	27.275	
13,200.0	7,500.0	7,692.4	7,500.1	105.3	27.7	91.29	2,277.5	579.0	3,653.6	3,521.5	132.10	27.658	
13,300.0	7,500.0	7,692.7	7,500.3	107.0	27.7	91.31	2,277.5	579.0	3,751.7	3,617.9	133.84	28.031	
13,400.0	7,500.0	7,692.9	7,500.5	108.8	27.7	91.33	2,277.5	578.9	3,849.9	3,714.4	135.58	28.396	
13,500.0	7,500.0	7,693.2	7,500.8	110.5	27.7	91.35	2,277.5	578.9	3,948.3	3,810.9	137.32	28.752	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program: 76-Geolink MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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					
13,600.0	7,500.0	7,693.4	7,501.0	112.3	27.7	91.37	2,277.5	578.9	4,046.7	3,907.6	139.06	29.100						
13,700.0	7,500.0	7,693.7	7,501.3	114.0	27.7	91.39	2,277.5	578.9	4,145.1	4,004.3	140.80	29.439						
13,800.0	7,500.0	7,693.9	7,501.5	115.7	27.7	91.41	2,277.5	578.9	4,243.7	4,101.1	142.54	29.771						
13,900.0	7,500.0	7,694.2	7,501.8	117.5	27.7	91.43	2,277.5	578.9	4,342.3	4,198.0	144.29	30.095						
14,000.0	7,500.0	7,694.4	7,502.1	119.2	27.7	91.45	2,277.5	578.9	4,440.9	4,294.9	146.03	30.412						
14,100.0	7,500.0	7,694.7	7,502.3	121.0	27.7	91.47	2,277.5	578.9	4,539.7	4,391.9	147.77	30.721						
14,200.0	7,500.0	7,695.0	7,502.6	122.7	27.7	91.49	2,277.5	578.9	4,638.5	4,489.0	149.51	31.024						
14,300.0	7,500.0	7,695.2	7,502.9	124.5	27.7	91.52	2,277.5	578.9	4,737.3	4,586.0	151.26	31.320						
14,400.0	7,500.0	7,695.5	7,503.1	126.2	27.7	91.54	2,277.5	578.9	4,836.2	4,683.2	153.00	31.609						
14,422.4	7,500.0	7,695.6	7,503.2	126.6	27.7	91.54	2,277.5	578.9	4,858.3	4,704.9	153.39	31.673						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error: 0.0 ft	
Survey Program: 8164-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,400.0	7,500.0	7,453.0	7,453.0	24.0	13.0	90.00	6,293.6	711.3	5,279.4	5,242.4	36.98	142.757		
8,500.0	7,500.0	7,453.0	7,453.0	25.5	13.0	90.00	6,293.6	711.3	5,180.6	5,142.1	38.49	134.605		
8,600.0	7,500.0	7,453.0	7,453.0	27.0	13.0	90.00	6,293.6	711.3	5,081.9	5,041.9	40.02	126.973		
8,700.0	7,500.0	7,453.0	7,453.0	28.6	13.0	90.00	6,293.6	711.3	4,983.2	4,941.6	41.58	119.833		
8,800.0	7,500.0	7,453.0	7,453.0	30.2	13.0	90.00	6,293.6	711.3	4,884.6	4,841.4	43.17	113.156		
8,900.0	7,500.0	7,453.0	7,453.0	31.8	13.0	90.00	6,293.6	711.3	4,786.0	4,741.3	44.77	106.909		
9,000.0	7,500.0	7,453.0	7,453.0	33.4	13.0	90.00	6,293.6	711.3	4,687.5	4,641.1	46.38	101.061		
9,027.7	7,500.0	7,453.0	7,453.0	33.8	13.0	90.00	6,293.6	711.3	4,660.2	4,613.4	46.83	99.505		
9,100.0	7,500.0	7,453.0	7,453.0	35.0	13.0	90.00	6,293.6	711.3	4,589.1	4,541.0	48.01	95.581		
9,127.7	7,500.0	7,453.0	7,453.0	35.5	13.0	90.00	6,293.6	711.3	4,561.8	4,513.3	48.47	94.123		
9,200.0	7,500.0	7,453.0	7,453.0	36.6	13.0	90.00	6,293.6	711.3	4,490.8	4,441.1	49.65	90.449		
9,300.0	7,500.0	7,453.0	7,453.0	38.3	13.0	90.00	6,293.6	711.3	4,392.9	4,341.6	51.29	85.651		
9,400.0	7,500.0	7,453.0	7,453.0	40.0	13.0	90.00	6,293.6	711.3	4,295.5	4,242.6	52.93	81.159		
9,427.7	7,500.0	7,453.0	7,453.0	40.4	13.0	90.00	6,293.6	711.3	4,268.6	4,215.2	53.38	79.964		
9,500.0	7,500.0	7,453.0	7,453.0	41.6	13.0	90.00	6,293.6	711.3	4,198.5	4,143.9	54.59	76.913		
9,600.0	7,500.0	7,453.0	7,453.0	43.3	13.0	90.00	6,293.6	711.3	4,101.7	4,045.4	56.26	72.901		
9,700.0	7,500.0	7,453.0	7,453.0	45.0	13.0	90.00	6,293.6	711.3	4,005.1	3,947.1	57.95	69.116		
9,800.0	7,500.0	7,453.0	7,453.0	46.7	13.0	90.00	6,293.6	711.3	3,908.6	3,848.9	59.63	65.542		
9,900.0	7,500.0	7,453.0	7,453.0	48.4	13.0	90.00	6,293.6	711.3	3,812.3	3,750.9	61.33	62.163		
10,000.0	7,500.0	7,453.0	7,453.0	50.1	13.0	90.00	6,293.6	711.3	3,716.2	3,653.1	63.02	58.964		
10,100.0	7,500.0	7,453.0	7,453.0	51.8	13.0	90.00	6,293.6	711.3	3,620.3	3,555.5	64.73	55.932		
10,200.0	7,500.0	7,453.0	7,453.0	53.5	13.0	90.00	6,293.6	711.3	3,524.6	3,458.2	66.43	53.056		
10,300.0	7,500.0	7,453.0	7,453.0	55.2	13.0	90.00	6,293.6	711.3	3,429.2	3,361.0	68.14	50.326		
10,400.0	7,500.0	7,453.0	7,453.0	56.9	13.0	90.00	6,293.6	711.3	3,334.0	3,264.2	69.85	47.730		
10,500.0	7,500.0	7,453.0	7,453.0	58.6	13.0	90.00	6,293.6	711.3	3,239.2	3,167.6	71.57	45.261		
10,600.0	7,500.0	7,453.0	7,453.0	60.3	13.0	90.00	6,293.6	711.3	3,144.6	3,071.3	73.28	42.911		
10,627.7	7,500.0	7,453.0	7,453.0	60.8	13.0	90.00	6,293.6	711.3	3,118.5	3,044.7	73.76	42.279		
10,700.0	7,500.0	7,453.0	7,453.0	62.0	13.0	90.00	6,293.6	711.3	3,050.3	2,975.3	75.02	40.660		
10,800.0	7,500.0	7,453.0	7,453.0	63.7	13.0	90.00	6,293.6	711.3	2,955.7	2,879.0	76.75	38.512		
10,900.0	7,500.0	7,453.0	7,453.0	65.5	13.0	90.00	6,293.6	711.3	2,861.0	2,782.5	78.46	36.463		
11,000.0	7,500.0	7,453.0	7,453.0	67.2	13.0	90.00	6,293.6	711.3	2,766.0	2,685.9	80.16	34.507		
11,023.0	7,500.0	7,453.0	7,453.0	67.6	13.0	90.00	6,293.6	711.3	2,744.1	2,663.6	80.55	34.069		
11,100.0	7,500.0	7,453.0	7,453.0	68.9	13.0	90.00	6,293.6	711.3	2,671.0	2,589.2	81.87	32.625		
11,200.0	7,500.0	7,453.0	7,453.0	70.6	13.0	90.00	6,293.6	711.3	2,576.4	2,492.8	83.60	30.820		
11,300.0	7,500.0	7,453.0	7,453.0	72.3	13.0	90.00	6,293.6	711.3	2,482.2	2,396.9	85.32	29.093		
11,400.0	7,500.0	7,453.0	7,453.0	74.1	13.0	90.00	6,293.6	711.3	2,388.5	2,301.4	87.05	27.439		
11,500.0	7,500.0	7,453.0	7,453.0	75.8	13.0	90.00	6,293.6	711.3	2,295.3	2,206.5	88.77	25.855		
11,600.0	7,500.0	7,453.0	7,453.0	77.5	13.0	90.00	6,293.6	711.3	2,202.7	2,112.2	90.50	24.338		
11,700.0	7,500.0	7,453.0	7,453.0	79.3	13.0	90.00	6,293.6	711.3	2,110.7	2,018.5	92.23	22.885		
11,800.0	7,500.0	7,453.0	7,453.0	81.0	13.0	90.00	6,293.6	711.3	2,019.6	1,925.6	93.97	21.493		
11,900.0	7,500.0	7,453.0	7,453.0	82.7	13.0	90.00	6,293.6	711.3	1,929.3	1,833.6	95.70	20.160		
12,000.0	7,500.0	7,453.0	7,453.0	84.5	13.0	90.00	6,293.6	711.3	1,840.0	1,742.6	97.43	18.885		
12,100.0	7,500.0	7,453.0	7,453.0	86.2	13.0	90.00	6,293.6	711.3	1,751.9	1,652.7	99.16	17.667		
12,200.0	7,500.0	7,453.0	7,453.0	87.9	13.0	90.00	6,293.6	711.3	1,665.1	1,564.2	100.90	16.503		
12,300.0	7,500.0	7,453.0	7,453.0	89.7	13.0	90.00	6,293.6	711.3	1,579.9	1,477.3	102.63	15.393		
12,400.0	7,500.0	7,453.0	7,453.0	91.4	13.0	90.00	6,293.6	711.3	1,496.5	1,392.1	104.37	14.338		
12,500.0	7,500.0	7,453.0	7,453.0	93.1	13.0	90.00	6,293.6	711.3	1,415.3	1,309.2	106.11	13.338		
12,600.0	7,500.0	7,453.0	7,453.0	94.9	13.0	90.00	6,293.6	711.3	1,336.6	1,228.7	107.84	12.394		
12,700.0	7,500.0	7,453.0	7,453.0	96.6	13.0	90.00	6,293.6	711.3	1,260.9	1,151.3	109.58	11.507		
12,800.0	7,500.0	7,453.0	7,453.0	98.3	13.0	90.00	6,293.6	711.3	1,188.9	1,077.5	111.32	10.680		
12,900.0	7,500.0	7,453.0	7,453.0	100.1	13.0	90.00	6,293.6	711.3	1,121.1	1,008.0	113.06	9.916		
13,000.0	7,500.0	7,453.0	7,453.0	101.8	13.0	90.00	6,293.6	711.3	1,058.5	943.7	114.80	9.220		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error: 0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,100.0	7,500.0	7,453.0	7,453.0	103.6	13.0	90.00	6,293.6	711.3	1,001.9	885.4	116.54	8.597	
13,200.0	7,500.0	7,453.0	7,453.0	105.3	13.0	90.00	6,293.6	711.3	952.5	834.2	118.28	8.053	
13,300.0	7,500.0	7,453.0	7,453.0	107.0	13.0	90.00	6,293.6	711.3	911.4	791.4	120.02	7.594	
13,400.0	7,500.0	7,453.0	7,453.0	108.8	13.0	90.00	6,293.6	711.3	879.9	758.1	121.76	7.226	
13,500.0	7,500.0	7,453.0	7,453.0	110.5	13.0	90.00	6,293.6	711.3	858.9	735.4	123.50	6.954	
13,600.0	7,500.0	7,453.0	7,453.0	112.3	13.0	90.00	6,293.6	711.3	849.2	723.9	125.25	6.780	
13,632.7	7,500.0	7,453.0	7,453.0	112.8	13.0	90.00	6,293.6	711.3	848.6	722.8	125.82	6.745 CC, ES	
13,700.0	7,500.0	7,453.0	7,453.0	114.0	13.0	90.00	6,293.6	711.3	851.2	724.2	126.99	6.703 SF	
13,800.0	7,500.0	7,453.0	7,453.0	115.7	13.0	90.00	6,293.6	711.3	864.9	736.2	128.73	6.719	
13,900.0	7,500.0	7,453.0	7,453.0	117.5	13.0	90.00	6,293.6	711.3	889.7	759.2	130.48	6.819	
14,000.0	7,500.0	7,453.0	7,453.0	119.2	13.0	90.00	6,293.6	711.3	924.7	792.4	132.22	6.993	
14,100.0	7,500.0	7,453.0	7,453.0	121.0	13.0	90.00	6,293.6	711.3	968.7	834.8	133.96	7.231	
14,200.0	7,500.0	7,453.0	7,453.0	122.7	13.0	90.00	6,293.6	711.3	1,020.8	885.0	135.71	7.522	
14,300.0	7,500.0	7,453.0	7,453.0	124.5	13.0	90.00	6,293.6	711.3	1,079.5	942.1	137.45	7.854	
14,400.0	7,500.0	7,453.0	7,453.0	126.2	13.0	90.00	6,293.6	711.3	1,144.1	1,004.9	139.20	8.219	
14,422.4	7,500.0	7,453.0	7,453.0	126.6	13.0	90.00	6,293.6	711.3	1,159.2	1,019.6	139.59	8.304	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S											Offset Site Error: 0.0 ft		
Survey Program: 8200-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
7,600.0	7,455.3	7,412.3	7,412.3	14.2	12.9	4.67	5,530.8	82.0	5,261.4	5,243.8	17.59	299.119	
7,650.0	7,472.7	7,429.7	7,429.7	14.6	13.0	6.01	5,530.8	82.0	5,214.6	5,197.5	17.03	306.158	
7,700.0	7,485.8	7,442.8	7,442.8	15.0	13.0	8.41	5,530.8	82.0	5,166.4	5,149.6	16.71	309.154	
7,750.0	7,494.7	7,451.7	7,451.7	15.5	13.0	13.80	5,530.8	82.0	5,117.2	5,100.2	17.00	301.058	
7,800.0	7,499.3	7,456.3	7,456.3	16.0	13.0	34.92	5,530.8	82.0	5,067.5	5,046.3	21.13	239.812	
7,827.7	7,500.0	7,457.0	7,457.0	16.3	13.0	90.00	5,530.8	82.0	5,039.8	5,010.4	29.35	171.688	
7,900.0	7,500.0	7,457.0	7,457.0	17.2	13.0	90.00	5,530.8	82.0	4,967.5	4,937.3	30.18	164.584	
8,000.0	7,500.0	7,457.0	7,457.0	18.4	13.0	90.00	5,530.8	82.0	4,867.6	4,836.2	31.41	154.965	
8,100.0	7,500.0	7,457.0	7,457.0	19.7	13.0	90.00	5,530.8	82.0	4,767.7	4,734.9	32.72	145.714	
8,200.0	7,500.0	7,457.0	7,457.0	21.1	13.0	90.00	5,530.8	82.0	4,667.7	4,633.6	34.09	136.913	
8,300.0	7,500.0	7,457.0	7,457.0	22.5	13.0	90.00	5,530.8	82.0	4,567.8	4,532.3	35.52	128.601	
8,400.0	7,500.0	7,457.0	7,457.0	24.0	13.0	90.00	5,530.8	82.0	4,467.9	4,430.9	36.99	120.790	
8,500.0	7,500.0	7,457.0	7,457.0	25.5	13.0	90.00	5,530.8	82.0	4,367.9	4,329.4	38.49	113.469	
8,600.0	7,500.0	7,457.0	7,457.0	27.0	13.0	90.00	5,530.8	82.0	4,268.0	4,228.0	40.03	106.619	
8,700.0	7,500.0	7,457.0	7,457.0	28.6	13.0	90.00	5,530.8	82.0	4,168.1	4,126.5	41.59	100.215	
8,800.0	7,500.0	7,457.0	7,457.0	30.2	13.0	90.00	5,530.8	82.0	4,068.2	4,025.0	43.17	94.228	
8,900.0	7,500.0	7,457.0	7,457.0	31.8	13.0	90.00	5,530.8	82.0	3,968.3	3,923.5	44.77	88.629	
9,000.0	7,500.0	7,457.0	7,457.0	33.4	13.0	90.00	5,530.8	82.0	3,868.4	3,822.0	46.39	83.388	
9,027.7	7,500.0	7,457.0	7,457.0	33.8	13.0	90.00	5,530.8	82.0	3,840.7	3,793.8	46.84	81.994	
9,100.0	7,500.0	7,457.0	7,457.0	35.0	13.0	90.00	5,530.8	82.0	3,768.5	3,720.5	48.02	78.478	
9,127.7	7,500.0	7,457.0	7,457.0	35.5	13.0	90.00	5,530.8	82.0	3,740.8	3,692.3	48.47	77.172	
9,200.0	7,500.0	7,457.0	7,457.0	36.6	13.0	90.00	5,530.8	82.0	3,668.6	3,618.9	49.66	73.879	
9,300.0	7,500.0	7,457.0	7,457.0	38.3	13.0	90.00	5,530.8	82.0	3,568.8	3,517.5	51.30	69.574	
9,400.0	7,500.0	7,457.0	7,457.0	40.0	13.0	90.00	5,530.8	82.0	3,469.2	3,416.3	52.93	65.539	
9,427.7	7,500.0	7,457.0	7,457.0	40.4	13.0	90.00	5,530.8	82.0	3,441.7	3,388.3	53.39	64.465	
9,500.0	7,500.0	7,457.0	7,457.0	41.6	13.0	90.00	5,530.8	82.0	3,369.8	3,315.2	54.60	61.723	
9,600.0	7,500.0	7,457.0	7,457.0	43.3	13.0	90.00	5,530.8	82.0	3,270.4	3,214.1	56.27	58.118	
9,700.0	7,500.0	7,457.0	7,457.0	45.0	13.0	90.00	5,530.8	82.0	3,171.0	3,113.0	57.95	54.716	
9,800.0	7,500.0	7,457.0	7,457.0	46.7	13.0	90.00	5,530.8	82.0	3,071.7	3,012.0	59.64	51.502	
9,900.0	7,500.0	7,457.0	7,457.0	48.4	13.0	90.00	5,530.8	82.0	2,972.4	2,911.0	61.33	48.462	
10,000.0	7,500.0	7,457.0	7,457.0	50.1	13.0	90.00	5,530.8	82.0	2,873.1	2,810.1	63.03	45.582	
10,100.0	7,500.0	7,457.0	7,457.0	51.8	13.0	90.00	5,530.8	82.0	2,773.9	2,709.2	64.73	42.852	
10,200.0	7,500.0	7,457.0	7,457.0	53.5	13.0	90.00	5,530.8	82.0	2,674.8	2,608.4	66.44	40.260	
10,300.0	7,500.0	7,457.0	7,457.0	55.2	13.0	90.00	5,530.8	82.0	2,575.8	2,507.6	68.15	37.797	
10,400.0	7,500.0	7,457.0	7,457.0	56.9	13.0	90.00	5,530.8	82.0	2,476.8	2,406.9	69.86	35.454	
10,500.0	7,500.0	7,457.0	7,457.0	58.6	13.0	90.00	5,530.8	82.0	2,377.9	2,306.3	71.57	33.223	
10,600.0	7,500.0	7,457.0	7,457.0	60.3	13.0	90.00	5,530.8	82.0	2,279.1	2,205.8	73.29	31.097	
10,627.7	7,500.0	7,457.0	7,457.0	60.8	13.0	90.00	5,530.8	82.0	2,251.7	2,177.9	73.77	30.525	
10,700.0	7,500.0	7,457.0	7,457.0	62.0	13.0	90.00	5,530.8	82.0	2,180.3	2,105.3	75.03	29.060	
10,800.0	7,500.0	7,457.0	7,457.0	63.7	13.0	90.00	5,530.8	82.0	2,081.4	2,004.6	76.76	27.117	
10,900.0	7,500.0	7,457.0	7,457.0	65.5	13.0	90.00	5,530.8	82.0	1,982.3	1,903.8	78.47	25.262	
11,000.0	7,500.0	7,457.0	7,457.0	67.2	13.0	90.00	5,530.8	82.0	1,883.1	1,802.9	80.16	23.490	
11,023.0	7,500.0	7,457.0	7,457.0	67.6	13.0	90.00	5,530.8	82.0	1,860.2	1,779.7	80.55	23.093	
11,100.0	7,500.0	7,457.0	7,457.0	68.9	13.0	90.00	5,530.8	82.0	1,783.8	1,701.9	81.88	21.786	
11,200.0	7,500.0	7,457.0	7,457.0	70.6	13.0	90.00	5,530.8	82.0	1,684.6	1,601.0	83.60	20.150	
11,300.0	7,500.0	7,457.0	7,457.0	72.3	13.0	90.00	5,530.8	82.0	1,585.5	1,500.2	85.33	18.582	
11,400.0	7,500.0	7,457.0	7,457.0	74.1	13.0	90.00	5,530.8	82.0	1,486.5	1,399.5	87.05	17.076	
11,500.0	7,500.0	7,457.0	7,457.0	75.8	13.0	90.00	5,530.8	82.0	1,387.7	1,298.9	88.78	15.631	
11,600.0	7,500.0	7,457.0	7,457.0	77.5	13.0	90.00	5,530.8	82.0	1,289.1	1,198.5	90.51	14.242	
11,700.0	7,500.0	7,457.0	7,457.0	79.3	13.0	90.00	5,530.8	82.0	1,190.6	1,098.4	92.24	12.908	
11,800.0	7,500.0	7,457.0	7,457.0	81.0	13.0	90.00	5,530.8	82.0	1,092.5	998.5	93.97	11.626	
11,900.0	7,500.0	7,457.0	7,457.0	82.7	13.0	90.00	5,530.8	82.0	994.7	899.0	95.70	10.394	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S													Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,000.0	7,500.0	7,457.0	7,457.0	84.5	13.0	90.00	5,530.8	82.0	897.4	800.0	97.44	9.210		
12,100.0	7,500.0	7,457.0	7,457.0	86.2	13.0	90.00	5,530.8	82.0	800.8	701.6	99.17	8.075		
12,200.0	7,500.0	7,457.0	7,457.0	87.9	13.0	90.00	5,530.8	82.0	705.1	604.2	100.91	6.988		
12,300.0	7,500.0	7,457.0	7,457.0	89.7	13.0	90.00	5,530.8	82.0	610.9	508.2	102.64	5.951		
12,400.0	7,500.0	7,457.0	7,457.0	91.4	13.0	90.00	5,530.8	82.0	518.7	414.3	104.38	4.970		
12,500.0	7,500.0	7,457.0	7,457.0	93.1	13.0	90.00	5,530.8	82.0	430.1	324.0	106.11	4.053		
12,600.0	7,500.0	7,457.0	7,457.0	94.9	13.0	90.00	5,530.8	82.0	347.7	239.9	107.85	3.224		
12,700.0	7,500.0	7,457.0	7,457.0	96.6	13.0	90.00	5,530.8	82.0	277.2	167.6	109.59	2.529		
12,800.0	7,500.0	7,457.0	7,457.0	98.3	13.0	90.00	5,530.8	82.0	229.7	118.4	111.33	2.063		
12,870.4	7,500.0	7,457.0	7,457.0	99.6	13.0	90.00	5,530.8	82.0	218.7	106.1	112.55	1.943 CC, ES, SF		
12,900.0	7,500.0	7,457.0	7,457.0	100.1	13.0	90.00	5,530.8	82.0	220.7	107.6	113.07	1.952		
13,000.0	7,500.0	7,457.0	7,457.0	101.8	13.0	90.00	5,530.8	82.0	254.2	139.4	114.81	2.214		
13,100.0	7,500.0	7,457.0	7,457.0	103.6	13.0	90.00	5,530.8	82.0	317.1	200.5	116.55	2.721		
13,200.0	7,500.0	7,457.0	7,457.0	105.3	13.0	90.00	5,530.8	82.0	395.6	277.3	118.29	3.344		
13,300.0	7,500.0	7,457.0	7,457.0	107.0	13.0	90.00	5,530.8	82.0	482.1	362.0	120.03	4.016		
13,400.0	7,500.0	7,457.0	7,457.0	108.8	13.0	90.00	5,530.8	82.0	573.0	451.2	121.77	4.705		
13,500.0	7,500.0	7,457.0	7,457.0	110.5	13.0	90.00	5,530.8	82.0	666.5	543.0	123.51	5.396		
13,600.0	7,500.0	7,457.0	7,457.0	112.3	13.0	90.00	5,530.8	82.0	761.7	636.4	125.25	6.081		
13,700.0	7,500.0	7,457.0	7,457.0	114.0	13.0	90.00	5,530.8	82.0	858.0	731.0	127.00	6.756		
13,800.0	7,500.0	7,457.0	7,457.0	115.7	13.0	90.00	5,530.8	82.0	955.0	826.3	128.74	7.418		
13,900.0	7,500.0	7,457.0	7,457.0	117.5	13.0	90.00	5,530.8	82.0	1,052.6	922.1	130.48	8.067		
14,000.0	7,500.0	7,457.0	7,457.0	119.2	13.0	90.00	5,530.8	82.0	1,150.6	1,018.4	132.23	8.702		
14,100.0	7,500.0	7,457.0	7,457.0	121.0	13.0	90.00	5,530.8	82.0	1,248.9	1,114.9	133.97	9.322		
14,200.0	7,500.0	7,457.0	7,457.0	122.7	13.0	90.00	5,530.8	82.0	1,347.5	1,211.8	135.71	9.929		
14,300.0	7,500.0	7,457.0	7,457.0	124.5	13.0	90.00	5,530.8	82.0	1,446.2	1,308.8	137.46	10.521		
14,400.0	7,500.0	7,457.0	7,457.0	126.2	13.0	90.00	5,530.8	82.0	1,545.2	1,406.0	139.20	11.100		
14,422.4	7,500.0	7,457.0	7,457.0	126.6	13.0	90.00	5,530.8	82.0	1,567.3	1,427.7	139.59	11.228		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO													Offset Site Error: 0.0 ft	
Survey Program: 7771-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,448.0	7,448.0	33.4	13.0	90.00	6,883.4	81.4	5,220.6	5,174.2	46.37	112.574		
9,027.7	7,500.0	7,448.0	7,448.0	33.8	13.0	90.00	6,883.4	81.4	5,192.8	5,146.0	46.82	110.899		
9,100.0	7,500.0	7,448.0	7,448.0	35.0	13.0	90.00	6,883.4	81.4	5,120.6	5,072.6	48.00	106.672		
9,127.7	7,500.0	7,448.0	7,448.0	35.5	13.0	90.00	6,883.4	81.4	5,092.9	5,044.5	48.46	105.101		
9,200.0	7,500.0	7,448.0	7,448.0	36.6	13.0	90.00	6,883.4	81.4	5,020.7	4,971.1	49.64	101.141		
9,300.0	7,500.0	7,448.0	7,448.0	38.3	13.0	90.00	6,883.4	81.4	4,920.9	4,869.6	51.28	95.962		
9,400.0	7,500.0	7,448.0	7,448.0	40.0	13.0	90.00	6,883.4	81.4	4,821.2	4,768.3	52.92	91.107		
9,427.7	7,500.0	7,448.0	7,448.0	40.4	13.0	90.00	6,883.4	81.4	4,793.6	4,740.2	53.37	89.814		
9,500.0	7,500.0	7,448.0	7,448.0	41.6	13.0	90.00	6,883.4	81.4	4,721.7	4,667.1	54.58	86.510		
9,600.0	7,500.0	7,448.0	7,448.0	43.3	13.0	90.00	6,883.4	81.4	4,622.1	4,565.9	56.26	82.164		
9,700.0	7,500.0	7,448.0	7,448.0	45.0	13.0	90.00	6,883.4	81.4	4,522.6	4,464.7	57.94	78.060		
9,800.0	7,500.0	7,448.0	7,448.0	46.7	13.0	90.00	6,883.4	81.4	4,423.2	4,363.5	59.63	74.182		
9,900.0	7,500.0	7,448.0	7,448.0	48.4	13.0	90.00	6,883.4	81.4	4,323.7	4,262.4	61.32	70.512		
10,000.0	7,500.0	7,448.0	7,448.0	50.1	13.0	90.00	6,883.4	81.4	4,224.3	4,161.2	63.02	67.035		
10,100.0	7,500.0	7,448.0	7,448.0	51.8	13.0	90.00	6,883.4	81.4	4,124.8	4,060.1	64.72	63.736		
10,200.0	7,500.0	7,448.0	7,448.0	53.5	13.0	90.00	6,883.4	81.4	4,025.5	3,959.0	66.42	60.604		
10,300.0	7,500.0	7,448.0	7,448.0	55.2	13.0	90.00	6,883.4	81.4	3,926.1	3,858.0	68.13	57.626		
10,400.0	7,500.0	7,448.0	7,448.0	56.9	13.0	90.00	6,883.4	81.4	3,826.8	3,757.0	69.84	54.792		
10,500.0	7,500.0	7,448.0	7,448.0	58.6	13.0	90.00	6,883.4	81.4	3,727.5	3,656.0	71.56	52.092		
10,600.0	7,500.0	7,448.0	7,448.0	60.3	13.0	90.00	6,883.4	81.4	3,628.3	3,555.0	73.27	49.517		
10,627.7	7,500.0	7,448.0	7,448.0	60.8	13.0	90.00	6,883.4	81.4	3,600.8	3,527.0	73.75	48.824		
10,700.0	7,500.0	7,448.0	7,448.0	62.0	13.0	90.00	6,883.4	81.4	3,529.0	3,454.0	75.01	47.047		
10,800.0	7,500.0	7,448.0	7,448.0	63.7	13.0	90.00	6,883.4	81.4	3,429.6	3,352.9	76.74	44.691		
10,900.0	7,500.0	7,448.0	7,448.0	65.5	13.0	90.00	6,883.4	81.4	3,330.1	3,251.6	78.45	42.446		
11,000.0	7,500.0	7,448.0	7,448.0	67.2	13.0	90.00	6,883.4	81.4	3,230.4	3,150.2	80.15	40.305		
11,023.0	7,500.0	7,448.0	7,448.0	67.6	13.0	90.00	6,883.4	81.4	3,207.4	3,126.9	80.54	39.825		
11,100.0	7,500.0	7,448.0	7,448.0	68.9	13.0	90.00	6,883.4	81.4	3,130.6	3,048.8	81.86	38.242		
11,200.0	7,500.0	7,448.0	7,448.0	70.6	13.0	90.00	6,883.4	81.4	3,030.9	2,947.3	83.59	36.260		
11,300.0	7,500.0	7,448.0	7,448.0	72.3	13.0	90.00	6,883.4	81.4	2,931.1	2,845.8	85.31	34.358		
11,400.0	7,500.0	7,448.0	7,448.0	74.1	13.0	90.00	6,883.4	81.4	2,831.4	2,744.4	87.04	32.531		
11,500.0	7,500.0	7,448.0	7,448.0	75.8	13.0	90.00	6,883.4	81.4	2,731.7	2,643.0	88.77	30.775		
11,600.0	7,500.0	7,448.0	7,448.0	77.5	13.0	90.00	6,883.4	81.4	2,632.1	2,541.6	90.50	29.085		
11,700.0	7,500.0	7,448.0	7,448.0	79.3	13.0	90.00	6,883.4	81.4	2,532.4	2,440.2	92.23	27.459		
11,800.0	7,500.0	7,448.0	7,448.0	81.0	13.0	90.00	6,883.4	81.4	2,432.8	2,338.9	93.96	25.893		
11,900.0	7,500.0	7,448.0	7,448.0	82.7	13.0	90.00	6,883.4	81.4	2,333.3	2,237.6	95.69	24.384		
12,000.0	7,500.0	7,448.0	7,448.0	84.5	13.0	90.00	6,883.4	81.4	2,233.7	2,136.3	97.42	22.928		
12,100.0	7,500.0	7,448.0	7,448.0	86.2	13.0	90.00	6,883.4	81.4	2,134.2	2,035.1	99.16	21.524		
12,200.0	7,500.0	7,448.0	7,448.0	87.9	13.0	90.00	6,883.4	81.4	2,034.8	1,933.9	100.89	20.168		
12,300.0	7,500.0	7,448.0	7,448.0	89.7	13.0	90.00	6,883.4	81.4	1,935.4	1,832.8	102.63	18.859		
12,400.0	7,500.0	7,448.0	7,448.0	91.4	13.0	90.00	6,883.4	81.4	1,836.1	1,731.7	104.36	17.593		
12,500.0	7,500.0	7,448.0	7,448.0	93.1	13.0	90.00	6,883.4	81.4	1,736.8	1,630.7	106.10	16.370		
12,600.0	7,500.0	7,448.0	7,448.0	94.9	13.0	90.00	6,883.4	81.4	1,637.7	1,529.8	107.84	15.187		
12,700.0	7,500.0	7,448.0	7,448.0	96.6	13.0	90.00	6,883.4	81.4	1,538.6	1,429.1	109.57	14.042		
12,800.0	7,500.0	7,448.0	7,448.0	98.3	13.0	90.00	6,883.4	81.4	1,439.7	1,328.4	111.31	12.934		
12,900.0	7,500.0	7,448.0	7,448.0	100.1	13.0	90.00	6,883.4	81.4	1,341.0	1,227.9	113.05	11.862		
13,000.0	7,500.0	7,448.0	7,448.0	101.8	13.0	90.00	6,883.4	81.4	1,242.4	1,127.6	114.79	10.823		
13,100.0	7,500.0	7,448.0	7,448.0	103.6	13.0	90.00	6,883.4	81.4	1,144.1	1,027.6	116.53	9.818		
13,200.0	7,500.0	7,448.0	7,448.0	105.3	13.0	90.00	6,883.4	81.4	1,046.2	927.9	118.27	8.845		
13,300.0	7,500.0	7,448.0	7,448.0	107.0	13.0	90.00	6,883.4	81.4	948.6	828.6	120.01	7.904		
13,400.0	7,500.0	7,448.0	7,448.0	108.8	13.0	90.00	6,883.4	81.4	851.6	729.9	121.75	6.995		
13,500.0	7,500.0	7,448.0	7,448.0	110.5	13.0	90.00	6,883.4	81.4	755.4	631.9	123.50	6.117		
13,600.0	7,500.0	7,448.0	7,448.0	112.3	13.0	90.00	6,883.4	81.4	660.4	535.1	125.24	5.273		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO		Offset Site Error:		0.0 ft	
Survey Program:													7771-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
13,700.0	7,500.0	7,448.0	7,448.0	114.0	13.0	90.00	6,883.4 81.4		567.0	440.0	126.98	4.465						
13,800.0	7,500.0	7,448.0	7,448.0	115.7	13.0	90.00	6,883.4 81.4		476.4	347.6	128.72	3.701						
13,900.0	7,500.0	7,448.0	7,448.0	117.5	13.0	90.00	6,883.4 81.4		390.3	259.8	130.47	2.992						
14,000.0	7,500.0	7,448.0	7,448.0	119.2	13.0	90.00	6,883.4 81.4		312.7	180.4	132.21	2.365						
14,100.0	7,500.0	7,448.0	7,448.0	121.0	13.0	90.00	6,883.4 81.4		251.3	117.4	133.95	1.876						
14,200.0	7,500.0	7,448.0	7,448.0	122.7	13.0	90.00	6,883.4 81.4		220.4	84.7	135.70	1.624						
14,222.9	7,500.0	7,448.0	7,448.0	123.1	13.0	90.00	6,883.4 81.4		219.2	83.1	136.10	1.611	CC, ES, SF					
14,300.0	7,500.0	7,448.0	7,448.0	124.5	13.0	90.00	6,883.4 81.4		232.4	94.9	137.44	1.691						
14,400.0	7,500.0	7,448.0	7,448.0	126.2	13.0	90.00	6,883.4 81.4		281.8	142.6	139.19	2.024						
14,422.4	7,500.0	7,448.0	7,448.0	126.6	13.0	90.00	6,883.4 81.4		296.4	156.8	139.58	2.123						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV												Offset Site Error:	0.0 ft
Survey Program: 7756-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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
7,827.7	7,500.0	7,454.0	7,454.0	16.3	13.0	90.00	5,577.1	1,403.3	5,275.9	5,246.5	29.35	179.764	
7,900.0	7,500.0	7,454.0	7,454.0	17.2	13.0	90.00	5,577.1	1,403.3	5,206.6	5,176.4	30.18	172.536	
8,000.0	7,500.0	7,454.0	7,454.0	18.4	13.0	90.00	5,577.1	1,403.3	5,110.9	5,079.5	31.41	162.738	
8,100.0	7,500.0	7,454.0	7,454.0	19.7	13.0	90.00	5,577.1	1,403.3	5,015.3	4,982.6	32.71	153.308	
8,200.0	7,500.0	7,454.0	7,454.0	21.1	13.0	90.00	5,577.1	1,403.3	4,920.0	4,885.9	34.09	144.334	
8,300.0	7,500.0	7,454.0	7,454.0	22.5	13.0	90.00	5,577.1	1,403.3	4,824.8	4,789.3	35.51	135.857	
8,400.0	7,500.0	7,454.0	7,454.0	24.0	13.0	90.00	5,577.1	1,403.3	4,729.8	4,692.8	36.98	127.889	
8,500.0	7,500.0	7,454.0	7,454.0	25.5	13.0	90.00	5,577.1	1,403.3	4,635.0	4,596.5	38.49	120.423	
8,600.0	7,500.0	7,454.0	7,454.0	27.0	13.0	90.00	5,577.1	1,403.3	4,540.5	4,500.4	40.03	113.440	
8,700.0	7,500.0	7,454.0	7,454.0	28.6	13.0	90.00	5,577.1	1,403.3	4,446.2	4,404.6	41.59	106.914	
8,800.0	7,500.0	7,454.0	7,454.0	30.2	13.0	90.00	5,577.1	1,403.3	4,352.1	4,308.9	43.17	100.816	
8,900.0	7,500.0	7,454.0	7,454.0	31.8	13.0	90.00	5,577.1	1,403.3	4,258.3	4,213.5	44.77	95.117	
9,000.0	7,500.0	7,454.0	7,454.0	33.4	13.0	90.00	5,577.1	1,403.3	4,164.8	4,118.4	46.38	89.788	
9,027.7	7,500.0	7,454.0	7,454.0	33.8	13.0	90.00	5,577.1	1,403.3	4,138.9	4,092.1	46.84	88.372	
9,100.0	7,500.0	7,454.0	7,454.0	35.0	13.0	90.00	5,577.1	1,403.3	4,071.6	4,023.6	48.01	84.801	
9,127.7	7,500.0	7,454.0	7,454.0	35.5	13.0	90.00	5,577.1	1,403.3	4,045.8	3,997.4	48.47	83.474	
9,200.0	7,500.0	7,454.0	7,454.0	36.6	13.0	90.00	5,577.1	1,403.3	3,978.9	3,929.3	49.65	80.137	
9,300.0	7,500.0	7,454.0	7,454.0	38.3	13.0	90.00	5,577.1	1,403.3	3,887.3	3,836.0	51.29	75.790	
9,400.0	7,500.0	7,454.0	7,454.0	40.0	13.0	90.00	5,577.1	1,403.3	3,796.8	3,743.8	52.93	71.734	
9,427.7	7,500.0	7,454.0	7,454.0	40.4	13.0	90.00	5,577.1	1,403.3	3,771.9	3,718.5	53.38	70.657	
9,500.0	7,500.0	7,454.0	7,454.0	41.6	13.0	90.00	5,577.1	1,403.3	3,707.3	3,652.7	54.59	67.913	
9,600.0	7,500.0	7,454.0	7,454.0	43.3	13.0	90.00	5,577.1	1,403.3	3,618.5	3,562.2	56.27	64.310	
9,700.0	7,500.0	7,454.0	7,454.0	45.0	13.0	90.00	5,577.1	1,403.3	3,530.2	3,472.3	57.95	60.920	
9,800.0	7,500.0	7,454.0	7,454.0	46.7	13.0	90.00	5,577.1	1,403.3	3,442.6	3,383.0	59.64	57.727	
9,900.0	7,500.0	7,454.0	7,454.0	48.4	13.0	90.00	5,577.1	1,403.3	3,355.7	3,294.4	61.33	54.716	
10,000.0	7,500.0	7,454.0	7,454.0	50.1	13.0	90.00	5,577.1	1,403.3	3,269.5	3,206.5	63.03	51.875	
10,100.0	7,500.0	7,454.0	7,454.0	51.8	13.0	90.00	5,577.1	1,403.3	3,184.1	3,119.4	64.73	49.193	
10,200.0	7,500.0	7,454.0	7,454.0	53.5	13.0	90.00	5,577.1	1,403.3	3,099.7	3,033.2	66.43	46.658	
10,300.0	7,500.0	7,454.0	7,454.0	55.2	13.0	90.00	5,577.1	1,403.3	3,016.1	2,948.0	68.14	44.262	
10,400.0	7,500.0	7,454.0	7,454.0	56.9	13.0	90.00	5,577.1	1,403.3	2,933.6	2,863.7	69.85	41.997	
10,500.0	7,500.0	7,454.0	7,454.0	58.6	13.0	90.00	5,577.1	1,403.3	2,852.2	2,780.6	71.57	39.853	
10,600.0	7,500.0	7,454.0	7,454.0	60.3	13.0	90.00	5,577.1	1,403.3	2,772.0	2,698.7	73.28	37.826	
10,627.7	7,500.0	7,454.0	7,454.0	60.8	13.0	90.00	5,577.1	1,403.3	2,750.0	2,676.3	73.76	37.283	
10,700.0	7,500.0	7,454.0	7,454.0	62.0	13.0	90.00	5,577.1	1,403.3	2,692.9	2,617.9	75.02	35.895	
10,800.0	7,500.0	7,454.0	7,454.0	63.7	13.0	90.00	5,577.1	1,403.3	2,614.1	2,537.4	76.75	34.060	
10,900.0	7,500.0	7,454.0	7,454.0	65.5	13.0	90.00	5,577.1	1,403.3	2,535.8	2,457.3	78.46	32.317	
11,000.0	7,500.0	7,454.0	7,454.0	67.2	13.0	90.00	5,577.1	1,403.3	2,457.8	2,377.7	80.16	30.662	
11,023.0	7,500.0	7,454.0	7,454.0	67.6	13.0	90.00	5,577.1	1,403.3	2,439.9	2,359.4	80.55	30.292	
11,100.0	7,500.0	7,454.0	7,454.0	68.9	13.0	90.00	5,577.1	1,403.3	2,380.7	2,298.9	81.87	29.078	
11,200.0	7,500.0	7,454.0	7,454.0	70.6	13.0	90.00	5,577.1	1,403.3	2,305.4	2,221.8	83.60	27.577	
11,300.0	7,500.0	7,454.0	7,454.0	72.3	13.0	90.00	5,577.1	1,403.3	2,232.0	2,146.7	85.32	26.159	
11,400.0	7,500.0	7,454.0	7,454.0	74.1	13.0	90.00	5,577.1	1,403.3	2,160.7	2,073.6	87.05	24.822	
11,500.0	7,500.0	7,454.0	7,454.0	75.8	13.0	90.00	5,577.1	1,403.3	2,091.8	2,003.0	88.78	23.562	
11,600.0	7,500.0	7,454.0	7,454.0	77.5	13.0	90.00	5,577.1	1,403.3	2,025.4	1,934.9	90.51	22.379	
11,700.0	7,500.0	7,454.0	7,454.0	79.3	13.0	90.00	5,577.1	1,403.3	1,961.9	1,869.7	92.24	21.271	
11,800.0	7,500.0	7,454.0	7,454.0	81.0	13.0	90.00	5,577.1	1,403.3	1,901.6	1,807.6	93.97	20.237	
11,900.0	7,500.0	7,454.0	7,454.0	82.7	13.0	90.00	5,577.1	1,403.3	1,844.7	1,749.0	95.70	19.276	
12,000.0	7,500.0	7,454.0	7,454.0	84.5	13.0	90.00	5,577.1	1,403.3	1,791.6	1,694.2	97.43	18.388	
12,100.0	7,500.0	7,454.0	7,454.0	86.2	13.0	90.00	5,577.1	1,403.3	1,742.6	1,643.5	99.17	17.573	
12,200.0	7,500.0	7,454.0	7,454.0	87.9	13.0	90.00	5,577.1	1,403.3	1,698.1	1,597.2	100.90	16.830	
12,300.0	7,500.0	7,454.0	7,454.0	89.7	13.0	90.00	5,577.1	1,403.3	1,658.5	1,555.8	102.64	16.159	
12,400.0	7,500.0	7,454.0	7,454.0	91.4	13.0	90.00	5,577.1	1,403.3	1,624.0	1,519.6	104.37	15.560	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV										Offset Site Error:		0.0 ft	
Survey Program: 7756-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
12,500.0	7,500.0	7,454.0	7,454.0	93.1	13.0	90.00	5,577.1	1,403.3	1,595.1	1,489.0	106.11	15.033	
12,600.0	7,500.0	7,454.0	7,454.0	94.9	13.0	90.00	5,577.1	1,403.3	1,572.0	1,464.1	107.85	14.576	
12,700.0	7,500.0	7,454.0	7,454.0	96.6	13.0	90.00	5,577.1	1,403.3	1,555.0	1,445.4	109.58	14.190	
12,800.0	7,500.0	7,454.0	7,454.0	98.3	13.0	90.00	5,577.1	1,403.3	1,544.3	1,433.0	111.32	13.872	
12,900.0	7,500.0	7,454.0	7,454.0	100.1	13.0	90.00	5,577.1	1,403.3	1,540.1	1,427.0	113.06	13.621	
12,915.6	7,500.0	7,454.0	7,454.0	100.4	13.0	90.00	5,577.1	1,403.3	1,540.0	1,426.7	113.33	13.588	CC, ES
13,000.0	7,500.0	7,454.0	7,454.0	101.8	13.0	90.00	5,577.1	1,403.3	1,542.3	1,427.5	114.80	13.434	
13,100.0	7,500.0	7,454.0	7,454.0	103.6	13.0	90.00	5,577.1	1,403.3	1,551.0	1,434.4	116.54	13.308	
13,200.0	7,500.0	7,454.0	7,454.0	105.3	13.0	90.00	5,577.1	1,403.3	1,566.0	1,447.7	118.28	13.240	
13,300.0	7,500.0	7,454.0	7,454.0	107.0	13.0	90.00	5,577.1	1,403.3	1,587.2	1,467.2	120.02	13.224	SF
13,400.0	7,500.0	7,454.0	7,454.0	108.8	13.0	90.00	5,577.1	1,403.3	1,614.4	1,492.6	121.76	13.258	
13,500.0	7,500.0	7,454.0	7,454.0	110.5	13.0	90.00	5,577.1	1,403.3	1,647.1	1,523.6	123.51	13.337	
13,600.0	7,500.0	7,454.0	7,454.0	112.3	13.0	90.00	5,577.1	1,403.3	1,685.2	1,560.0	125.25	13.455	
13,700.0	7,500.0	7,454.0	7,454.0	114.0	13.0	90.00	5,577.1	1,403.3	1,728.3	1,601.3	126.99	13.609	
13,800.0	7,500.0	7,454.0	7,454.0	115.7	13.0	90.00	5,577.1	1,403.3	1,775.9	1,647.1	128.73	13.795	
13,900.0	7,500.0	7,454.0	7,454.0	117.5	13.0	90.00	5,577.1	1,403.3	1,827.7	1,697.3	130.48	14.008	
14,000.0	7,500.0	7,454.0	7,454.0	119.2	13.0	90.00	5,577.1	1,403.3	1,883.5	1,751.3	132.22	14.245	
14,100.0	7,500.0	7,454.0	7,454.0	121.0	13.0	90.00	5,577.1	1,403.3	1,942.8	1,808.8	133.97	14.502	
14,200.0	7,500.0	7,454.0	7,454.0	122.7	13.0	90.00	5,577.1	1,403.3	2,005.3	1,869.6	135.71	14.777	
14,300.0	7,500.0	7,454.0	7,454.0	124.5	13.0	90.00	5,577.1	1,403.3	2,070.8	1,933.3	137.45	15.065	
14,400.0	7,500.0	7,454.0	7,454.0	126.2	13.0	90.00	5,577.1	1,403.3	2,138.9	1,999.7	139.20	15.366	
14,422.4	7,500.0	7,454.0	7,454.0	126.6	13.0	90.00	5,577.1	1,403.3	2,154.5	2,014.9	139.59	15.435	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 7894-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-174.71	-982.8	-91.0	987.1				
100.0	100.0	88.0	88.0	0.2	0.2	-174.71	-982.8	-91.0	987.0	986.7	0.31	3,229.455	
200.0	200.0	188.0	188.0	0.3	0.3	-174.71	-982.8	-91.0	987.0	986.4	0.65	1,507.606	
300.0	300.0	288.0	288.0	0.5	0.5	-174.71	-982.8	-91.0	987.0	986.0	1.00	983.326	
400.0	400.0	388.0	388.0	0.7	0.7	-34.75	-982.8	-91.0	986.3	985.0	1.35	729.002	
500.0	500.0	488.0	488.0	0.9	0.9	-34.84	-982.8	-91.0	984.2	982.5	1.70	577.886	
600.0	599.9	587.9	587.9	1.0	1.0	-35.01	-982.8	-91.0	980.6	978.5	2.06	477.150	
700.0	699.8	687.8	687.8	1.2	1.2	-29.47	-982.8	-91.0	976.9	974.5	2.41	405.890	
800.0	799.7	787.7	787.7	1.4	1.4	-14.15	-982.8	-91.0	974.4	971.6	2.76	353.556	
865.6	865.4	853.4	853.4	1.5	1.5	18.03	-982.8	-91.0	973.4	970.4	2.98	326.189	
900.0	899.7	887.7	887.7	1.6	1.5	18.04	-982.8	-91.0	973.0	969.9	3.10	313.507	
1,000.0	999.7	987.7	987.7	1.7	1.7	18.06	-982.8	-91.0	971.9	968.5	3.45	281.586	
1,100.0	1,099.7	1,087.7	1,087.7	1.9	1.9	18.08	-982.8	-91.0	970.8	967.0	3.80	255.497	
1,200.0	1,199.7	1,187.7	1,187.7	2.1	2.1	18.10	-982.8	-91.0	969.7	965.6	4.15	233.777	
1,300.0	1,299.7	1,287.7	1,287.7	2.3	2.2	18.12	-982.8	-91.0	968.6	964.1	4.50	215.416	
1,400.0	1,399.7	1,387.7	1,387.7	2.4	2.4	18.14	-982.8	-91.0	967.5	962.7	4.85	199.692	
1,500.0	1,499.7	1,487.7	1,487.7	2.6	2.6	18.17	-982.8	-91.0	966.4	961.2	5.19	186.076	
1,600.0	1,599.7	1,587.7	1,587.7	2.8	2.8	18.19	-982.8	-91.0	965.3	959.8	5.54	174.171	
1,700.0	1,699.7	1,687.7	1,687.7	3.0	2.9	18.21	-982.8	-91.0	964.2	958.4	5.89	163.673	
1,800.0	1,799.7	1,787.7	1,787.7	3.1	3.1	18.23	-982.8	-91.0	963.1	956.9	6.24	154.348	
1,900.0	1,899.7	1,887.7	1,887.7	3.3	3.3	18.25	-982.8	-91.0	962.0	955.5	6.59	146.009	
2,000.0	1,999.6	1,987.6	1,987.6	3.5	3.5	18.27	-982.8	-91.0	960.9	954.0	6.94	138.509	
2,100.0	2,099.6	2,087.6	2,087.6	3.7	3.6	18.30	-982.8	-91.0	959.8	952.6	7.29	131.726	
2,200.0	2,199.6	2,187.6	2,187.6	3.9	3.8	18.32	-982.8	-91.0	958.7	951.1	7.64	125.562	
2,300.0	2,299.6	2,287.6	2,287.6	4.0	4.0	18.34	-982.8	-91.0	957.6	949.7	7.98	119.937	
2,400.0	2,399.6	2,387.6	2,387.6	4.2	4.2	18.36	-982.8	-91.0	956.5	948.2	8.33	114.783	
2,500.0	2,499.6	2,487.6	2,487.6	4.4	4.3	18.38	-982.8	-91.0	955.4	946.8	8.68	110.043	
2,600.0	2,599.6	2,587.6	2,587.6	4.6	4.5	18.40	-982.8	-91.0	954.4	945.3	9.03	105.669	
2,700.0	2,699.6	2,687.6	2,687.6	4.7	4.7	18.43	-982.8	-91.0	953.3	943.9	9.38	101.620	
2,800.0	2,799.6	2,787.6	2,787.6	4.9	4.9	18.45	-982.8	-91.0	952.2	942.4	9.73	97.862	
2,900.0	2,899.6	2,887.6	2,887.6	5.1	5.0	18.47	-982.8	-91.0	951.1	941.0	10.08	94.364	
3,000.0	2,999.6	2,987.6	2,987.6	5.3	5.2	18.49	-982.8	-91.0	950.0	939.5	10.43	91.100	
3,100.0	3,099.6	3,087.6	3,087.6	5.4	5.4	18.51	-982.8	-91.0	948.9	938.1	10.78	88.048	
3,200.0	3,199.6	3,187.6	3,187.6	5.6	5.6	18.54	-982.8	-91.0	947.8	936.6	11.13	85.186	
3,300.0	3,299.6	3,287.6	3,287.6	5.8	5.7	18.56	-982.8	-91.0	946.7	935.2	11.47	82.499	
3,400.0	3,399.5	3,387.5	3,387.5	6.0	5.9	18.58	-982.8	-91.0	945.6	933.7	11.82	79.971	
3,500.0	3,499.5	3,487.5	3,487.5	6.1	6.1	18.60	-982.8	-91.0	944.5	932.3	12.17	77.588	
3,600.0	3,599.5	3,587.5	3,587.5	6.3	6.3	18.63	-982.8	-91.0	943.4	930.8	12.52	75.337	
3,700.0	3,699.5	3,687.5	3,687.5	6.5	6.4	18.65	-982.8	-91.0	942.3	929.4	12.87	73.208	
3,800.0	3,799.5	3,787.5	3,787.5	6.7	6.6	18.67	-982.8	-91.0	941.2	928.0	13.22	71.192	
3,900.0	3,899.5	3,887.5	3,887.5	6.8	6.8	18.69	-982.8	-91.0	940.1	926.5	13.57	69.280	
4,000.0	3,999.5	3,987.5	3,987.5	7.0	7.0	18.72	-982.8	-91.0	939.0	925.1	13.92	67.463	
4,100.0	4,099.5	4,087.5	4,087.5	7.2	7.1	18.74	-982.8	-91.0	937.9	923.6	14.27	65.736	
4,200.0	4,199.5	4,187.5	4,187.5	7.4	7.3	18.76	-982.8	-91.0	936.8	922.2	14.62	64.091	
4,300.0	4,299.5	4,287.5	4,287.5	7.5	7.5	18.78	-982.8	-91.0	935.7	920.7	14.97	62.522	
4,400.0	4,399.5	4,387.5	4,387.5	7.7	7.7	18.81	-982.8	-91.0	934.6	919.3	15.31	61.026	
4,500.0	4,499.5	4,487.5	4,487.5	7.9	7.8	18.83	-982.8	-91.0	933.5	917.8	15.66	59.596	
4,600.0	4,599.5	4,587.5	4,587.5	8.1	8.0	18.85	-982.8	-91.0	932.4	916.4	16.01	58.228	
4,700.0	4,699.5	4,687.5	4,687.5	8.2	8.2	18.88	-982.8	-91.0	931.3	914.9	16.36	56.918	
4,800.0	4,799.5	4,787.5	4,787.5	8.4	8.4	18.90	-982.8	-91.0	930.2	913.5	16.71	55.664	
4,900.0	4,899.4	4,887.4	4,887.4	8.6	8.5	18.92	-982.8	-91.0	929.1	912.1	17.06	54.460	
5,000.0	4,999.4	4,987.4	4,987.4	8.8	8.7	18.95	-982.8	-91.0	928.0	910.6	17.41	53.305	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - 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		
5,100.0	5,099.4	5,087.4	5,087.4	8.9	8.9	18.97	-982.8	-91.0	926.9	909.2	17.76	52.196			
5,200.0	5,199.4	5,187.4	5,187.4	9.1	9.1	18.99	-982.8	-91.0	925.8	907.7	18.11	51.129			
5,300.0	5,299.4	5,287.4	5,287.4	9.3	9.2	19.02	-982.8	-91.0	924.7	906.3	18.46	50.102			
5,400.0	5,399.4	5,387.4	5,387.4	9.5	9.4	19.04	-982.8	-91.0	923.6	904.8	18.81	49.114			
5,500.0	5,499.4	5,487.4	5,487.4	9.6	9.6	19.06	-982.8	-91.0	922.6	903.4	19.16	48.162			
5,600.0	5,599.4	5,587.4	5,587.4	9.8	9.8	19.09	-982.8	-91.0	921.5	902.0	19.50	47.243			
5,700.0	5,699.4	5,687.4	5,687.4	10.0	9.9	19.11	-982.8	-91.0	920.4	900.5	19.85	46.358			
5,800.0	5,799.4	5,787.4	5,787.4	10.2	10.1	19.13	-982.8	-91.0	919.3	899.1	20.20	45.502			
5,900.0	5,899.4	5,887.4	5,887.4	10.3	10.3	19.16	-982.8	-91.0	918.2	897.6	20.55	44.676			
6,000.0	5,999.4	5,987.4	5,987.4	10.5	10.4	19.18	-982.8	-91.0	917.1	896.2	20.90	43.877			
6,100.0	6,099.4	6,087.4	6,087.4	10.7	10.6	19.20	-982.8	-91.0	916.0	894.7	21.25	43.105			
6,200.0	6,199.4	6,187.4	6,187.4	10.9	10.8	19.23	-982.8	-91.0	914.9	893.3	21.60	42.358			
6,300.0	6,299.4	6,287.4	6,287.4	11.1	11.0	19.25	-982.8	-91.0	913.8	891.9	21.95	41.634			
6,400.0	6,399.3	6,387.3	6,387.3	11.2	11.1	19.28	-982.8	-91.0	912.7	890.4	22.30	40.933			
6,500.0	6,499.3	6,487.3	6,487.3	11.4	11.3	19.30	-982.8	-91.0	911.6	889.0	22.65	40.254			
6,600.0	6,599.3	6,587.3	6,587.3	11.6	11.5	19.32	-982.8	-91.0	910.5	887.5	23.00	39.595			
6,700.0	6,699.3	6,687.3	6,687.3	11.8	11.7	19.35	-982.8	-91.0	909.4	886.1	23.35	38.956			
6,800.0	6,799.3	6,787.3	6,787.3	11.9	11.8	19.37	-982.8	-91.0	908.3	884.6	23.69	38.336			
6,900.0	6,899.3	6,887.3	6,887.3	12.1	12.0	19.40	-982.8	-91.0	907.2	883.2	24.04	37.734			
6,921.2	6,920.6	6,908.6	6,908.6	12.1	12.1	19.40	-982.8	-91.0	907.0	882.9	24.12	37.608			
6,927.6	6,926.9	6,914.9	6,914.9	12.2	12.1	90.00	-982.8	-91.0	907.0	882.8	24.14	37.572 CC, ES			
6,950.0	6,949.3	6,937.3	6,937.3	12.2	12.1	-176.41	-982.8	-91.0	907.4	883.2	24.20	37.493 SF			
7,000.0	6,999.1	6,987.1	6,987.1	12.3	12.2	-173.89	-982.8	-91.0	911.5	887.3	24.25	37.585			
7,050.0	7,048.4	7,036.4	7,036.4	12.3	12.3	-173.39	-982.8	-91.0	919.9	895.7	24.18	38.044			
7,100.0	7,096.7	7,084.7	7,084.7	12.4	12.4	-173.13	-982.8	-91.0	932.5	908.6	23.99	38.876			
7,150.0	7,143.8	7,131.8	7,131.8	12.5	12.4	-172.92	-982.8	-91.0	949.3	925.6	23.68	40.089			
7,200.0	7,189.2	7,177.2	7,177.2	12.5	12.5	-172.71	-982.8	-91.0	970.1	946.8	23.26	41.700			
7,250.0	7,232.6	7,220.6	7,220.6	12.6	12.6	-172.47	-982.8	-91.0	994.7	972.0	22.75	43.726			
7,300.0	7,273.7	7,261.7	7,261.7	12.7	12.7	-172.19	-982.8	-91.0	1,023.0	1,000.9	22.15	46.190			
7,350.0	7,312.1	7,300.1	7,300.1	12.9	12.7	-171.82	-982.8	-91.0	1,054.8	1,033.3	21.48	49.107			
7,400.0	7,347.6	7,335.6	7,335.6	13.1	12.8	-171.34	-982.8	-91.0	1,089.7	1,069.0	20.76	52.482			
7,450.0	7,379.9	7,367.9	7,367.9	13.3	12.9	-170.70	-982.8	-91.0	1,127.7	1,107.7	20.03	56.298			
7,500.0	7,408.8	7,396.8	7,396.8	13.5	12.9	-169.83	-982.8	-91.0	1,168.3	1,149.0	19.32	60.483			
7,550.0	7,434.0	7,422.0	7,422.0	13.8	13.0	-168.61	-982.8	-91.0	1,211.3	1,192.6	18.67	64.875			
7,600.0	7,455.3	7,443.3	7,443.3	14.2	13.0	-166.80	-982.8	-91.0	1,256.3	1,238.1	18.17	69.136			
7,650.0	7,472.7	7,460.7	7,460.7	14.6	13.0	-163.96	-982.8	-91.0	1,303.0	1,285.0	17.95	72.577			
7,700.0	7,485.8	7,473.8	7,473.8	15.0	13.0	-159.01	-982.8	-91.0	1,351.0	1,332.7	18.33	73.723			
7,750.0	7,494.7	7,482.7	7,482.7	15.5	13.1	-148.76	-982.8	-91.0	1,400.0	1,379.8	20.21	69.268			
7,800.0	7,499.3	7,487.3	7,487.3	16.0	13.1	-121.34	-982.8	-91.0	1,449.6	1,423.4	26.20	55.321			
7,827.7	7,500.0	7,488.0	7,488.0	16.3	13.1	-90.00	-982.8	-91.0	1,477.3	1,447.9	29.41	50.234			
7,900.0	7,500.0	7,488.0	7,488.0	17.2	13.1	-90.00	-982.8	-91.0	1,549.3	1,519.1	30.24	51.241			
8,000.0	7,500.0	7,488.0	7,488.0	18.4	13.1	-90.00	-982.8	-91.0	1,649.1	1,617.6	31.47	52.410			
8,100.0	7,500.0	7,488.0	7,488.0	19.7	13.1	-90.00	-982.8	-91.0	1,748.9	1,716.1	32.77	53.362			
8,200.0	7,500.0	7,488.0	7,488.0	21.1	13.1	-90.00	-982.8	-91.0	1,848.6	1,814.5	34.15	54.138			
8,300.0	7,500.0	7,488.0	7,488.0	22.5	13.1	-90.00	-982.8	-91.0	1,948.5	1,912.9	35.57	54.774			
8,400.0	7,500.0	7,488.0	7,488.0	24.0	13.1	-90.00	-982.8	-91.0	2,048.3	2,011.3	37.04	55.295			
8,500.0	7,500.0	7,488.0	7,488.0	25.5	13.1	-90.00	-982.8	-91.0	2,148.1	2,109.6	38.55	55.726			
8,600.0	7,500.0	7,488.0	7,488.0	27.0	13.1	-90.00	-982.8	-91.0	2,248.0	2,207.9	40.08	56.082			
8,700.0	7,500.0	7,488.0	7,488.0	28.6	13.1	-90.00	-982.8	-91.0	2,347.9	2,306.2	41.65	56.378			
8,800.0	7,500.0	7,488.0	7,488.0	30.2	13.1	-90.00	-982.8	-91.0	2,447.8	2,404.5	43.23	56.625			
8,900.0	7,500.0	7,488.0	7,488.0	31.8	13.1	-90.00	-982.8	-91.0	2,547.7	2,502.8	44.83	56.832			
9,000.0	7,500.0	7,488.0	7,488.0	33.4	13.1	-90.00	-982.8	-91.0	2,647.6	2,601.1	46.44	57.005			

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - 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		
9,027.7	7,500.0	7,488.0	7,488.0	33.8	13.1	-90.00	-982.8	-91.0	2,675.3	2,628.4	46.89	57.049		
9,100.0	7,500.0	7,488.0	7,488.0	35.0	13.1	-90.00	-982.8	-91.0	2,747.5	2,699.4	48.07	57.152		
9,127.7	7,500.0	7,488.0	7,488.0	35.5	13.1	-90.00	-982.8	-91.0	2,775.2	2,726.7	48.53	57.188		
9,200.0	7,500.0	7,488.0	7,488.0	36.6	13.1	-90.00	-982.8	-91.0	2,847.4	2,797.7	49.71	57.279		
9,300.0	7,500.0	7,488.0	7,488.0	38.3	13.1	-90.00	-982.8	-91.0	2,947.2	2,895.8	51.35	57.395		
9,400.0	7,500.0	7,488.0	7,488.0	40.0	13.1	-90.00	-982.8	-91.0	3,046.9	2,993.9	52.99	57.502		
9,427.7	7,500.0	7,488.0	7,488.0	40.4	13.1	-90.00	-982.8	-91.0	3,074.5	3,021.1	53.44	57.530		
9,500.0	7,500.0	7,488.0	7,488.0	41.6	13.1	-90.00	-982.8	-91.0	3,146.5	3,091.9	54.65	57.577		
9,600.0	7,500.0	7,488.0	7,488.0	43.3	13.1	-90.00	-982.8	-91.0	3,246.2	3,189.9	56.33	57.633		
9,700.0	7,500.0	7,488.0	7,488.0	45.0	13.1	-90.00	-982.8	-91.0	3,345.8	3,287.8	58.01	57.680		
9,800.0	7,500.0	7,488.0	7,488.0	46.7	13.1	-90.00	-982.8	-91.0	3,445.5	3,385.8	59.70	57.719		
9,900.0	7,500.0	7,488.0	7,488.0	48.4	13.1	-90.00	-982.8	-91.0	3,545.2	3,483.9	61.39	57.751		
10,000.0	7,500.0	7,488.0	7,488.0	50.1	13.1	-90.00	-982.8	-91.0	3,645.0	3,581.9	63.09	57.778		
10,100.0	7,500.0	7,488.0	7,488.0	51.8	13.1	-90.00	-982.8	-91.0	3,744.7	3,679.9	64.79	57.800		
10,200.0	7,500.0	7,488.0	7,488.0	53.5	13.1	-90.00	-982.8	-91.0	3,844.5	3,778.0	66.49	57.818		
10,300.0	7,500.0	7,488.0	7,488.0	55.2	13.1	-90.00	-982.8	-91.0	3,944.2	3,876.0	68.20	57.832		
10,400.0	7,500.0	7,488.0	7,488.0	56.9	13.1	-90.00	-982.8	-91.0	4,044.0	3,974.1	69.91	57.844		
10,500.0	7,500.0	7,488.0	7,488.0	58.6	13.1	-90.00	-982.8	-91.0	4,143.8	4,072.2	71.63	57.852		
10,600.0	7,500.0	7,488.0	7,488.0	60.3	13.1	-90.00	-982.8	-91.0	4,243.6	4,170.2	73.34	57.859		
10,627.7	7,500.0	7,488.0	7,488.0	60.8	13.1	-90.00	-982.8	-91.0	4,271.2	4,197.4	73.82	57.860		
10,700.0	7,500.0	7,488.0	7,488.0	62.0	13.1	-90.00	-982.8	-91.0	4,343.4	4,268.3	75.08	57.850		
10,800.0	7,500.0	7,488.0	7,488.0	63.7	13.1	-90.00	-982.8	-91.0	4,443.3	4,366.5	76.81	57.848		
10,900.0	7,500.0	7,488.0	7,488.0	65.5	13.1	-90.00	-982.8	-91.0	4,543.3	4,464.8	78.52	57.859		
11,000.0	7,500.0	7,488.0	7,488.0	67.2	13.1	90.00	-982.8	-91.0	4,643.3	4,563.1	80.22	57.883		
11,023.0	7,500.0	7,488.0	7,488.0	67.6	13.1	90.00	-982.8	-91.0	4,666.3	4,585.7	80.61	57.890		
11,100.0	7,500.0	7,488.0	7,488.0	68.9	13.1	90.00	-982.8	-91.0	4,743.3	4,661.4	81.93	57.893		
11,200.0	7,500.0	7,488.0	7,488.0	70.6	13.1	90.00	-982.8	-91.0	4,843.3	4,759.6	83.66	57.895		
11,300.0	7,500.0	7,488.0	7,488.0	72.3	13.1	90.00	-982.8	-91.0	4,943.3	4,857.9	85.38	57.896		
11,400.0	7,500.0	7,488.0	7,488.0	74.1	13.1	90.00	-982.8	-91.0	5,043.3	4,956.2	87.11	57.897		
11,500.0	7,500.0	7,488.0	7,488.0	75.8	13.1	90.00	-982.8	-91.0	5,143.3	5,054.4	88.84	57.896		
11,600.0	7,500.0	7,488.0	7,488.0	77.5	13.1	90.00	-982.8	-91.0	5,243.3	5,152.7	90.57	57.895		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	64.6	64.6	0.0	0.1	35.85	1,607.2	1,161.4	1,982.9					
100.0	100.0	190.2	190.2	0.2	0.3	35.81	1,606.8	1,159.2	1,981.7	1,981.2	0.49	4,027.904		
200.0	200.0	326.1	326.0	0.3	0.6	35.72	1,605.4	1,154.6	1,978.9	1,978.0	0.92	2,148.940		
300.0	300.0	434.8	434.5	0.5	0.8	35.59	1,604.3	1,148.3	1,974.6	1,973.3	1.32	1,498.035		
400.0	400.0	523.0	522.4	0.7	1.0	175.42	1,605.3	1,141.4	1,971.9	1,970.2	1.66	1,189.942		
500.0	500.0	789.6	785.2	0.9	1.9	174.31	1,611.2	1,098.4	1,967.3	1,964.7	2.62	750.585		
600.0	599.9	911.3	904.1	1.0	2.4	173.71	1,610.7	1,072.0	1,958.9	1,955.7	3.21	610.243		
700.0	699.8	1,037.9	1,027.7	1.2	2.9	178.70	1,609.1	1,044.7	1,950.3	1,946.4	3.83	509.248		
800.0	799.7	1,181.1	1,166.6	1.4	3.6	-166.80	1,606.1	1,010.2	1,938.0	1,933.4	4.57	423.606		
865.6	865.4	1,250.2	1,233.1	1.5	3.9	-135.11	1,604.4	991.8	1,928.0	1,923.0	4.99	386.546		
900.0	899.7	1,279.9	1,261.7	1.6	4.1	-135.32	1,603.9	983.7	1,922.7	1,917.5	5.18	371.092		
1,000.0	999.7	1,399.4	1,376.6	1.7	4.7	-136.16	1,601.2	950.8	1,907.0	1,901.1	5.88	324.104		
1,100.0	1,099.7	1,491.9	1,465.4	1.9	5.2	-136.82	1,598.6	925.1	1,890.9	1,884.4	6.49	291.444		
1,200.0	1,199.7	1,570.5	1,540.8	2.1	5.6	-137.41	1,597.2	903.0	1,875.7	1,868.7	7.04	266.504		
1,300.0	1,299.7	1,654.2	1,621.3	2.3	6.0	-138.03	1,596.1	880.1	1,861.7	1,854.1	7.61	244.756		
1,400.0	1,399.7	1,764.8	1,727.8	2.4	6.6	-138.85	1,594.2	850.0	1,847.6	1,839.3	8.32	222.093		
1,500.0	1,499.7	1,866.2	1,824.8	2.6	7.2	-139.68	1,593.2	820.6	1,833.7	1,824.7	9.03	203.099		
1,600.0	1,599.7	1,965.3	1,919.4	2.8	7.7	-140.52	1,592.0	791.1	1,819.7	1,809.9	9.74	186.858		
1,700.0	1,699.7	2,080.0	2,029.1	3.0	8.3	-141.47	1,589.7	757.8	1,805.6	1,795.1	10.50	171.941		
1,800.0	1,799.7	2,146.4	2,092.9	3.1	8.7	-141.99	1,587.9	739.5	1,792.0	1,781.0	11.01	162.784		
1,900.0	1,899.7	2,265.4	2,207.0	3.3	9.3	-142.99	1,586.2	705.7	1,779.5	1,767.6	11.84	150.252		
2,000.0	1,999.6	2,372.6	2,309.0	3.5	10.0	-143.97	1,583.5	672.8	1,765.3	1,752.7	12.64	139.683		
2,100.0	2,099.6	2,430.0	2,363.6	3.7	10.3	-144.51	1,582.8	655.1	1,752.8	1,739.7	13.15	133.245		
2,200.0	2,199.6	2,502.5	2,432.7	3.9	10.7	-145.20	1,583.0	633.2	1,742.4	1,728.6	13.76	126.641		
2,300.0	2,299.6	2,594.3	2,520.4	4.0	11.2	-146.06	1,584.1	606.3	1,733.4	1,718.9	14.47	119.832		
2,400.0	2,399.6	2,679.7	2,602.2	4.2	11.7	-146.85	1,585.1	581.7	1,725.1	1,709.9	15.14	113.937		
2,500.0	2,499.6	2,788.6	2,706.4	4.4	12.3	-147.89	1,586.5	550.1	1,717.3	1,701.3	15.96	107.605		
2,600.0	2,599.6	2,904.7	2,817.6	4.6	12.9	-148.97	1,586.6	516.9	1,708.9	1,692.1	16.79	101.765		
2,700.0	2,699.6	3,004.0	2,913.2	4.7	13.4	-149.85	1,585.2	489.7	1,700.1	1,682.6	17.51	97.093		
2,800.0	2,799.6	3,128.0	3,032.5	4.9	14.1	-150.94	1,582.6	456.1	1,691.1	1,672.7	18.36	92.089		
2,900.0	2,899.6	3,215.0	3,115.9	5.1	14.6	-151.74	1,580.4	431.6	1,681.8	1,662.8	19.04	88.318		
3,000.0	2,999.6	3,303.0	3,200.3	5.3	15.0	-152.58	1,579.0	406.4	1,673.7	1,654.0	19.73	84.827		
3,100.0	3,099.6	3,378.3	3,272.4	5.4	15.4	-153.30	1,578.2	385.0	1,666.6	1,646.2	20.35	81.914		
3,200.0	3,199.6	3,477.0	3,367.3	5.6	16.0	-154.23	1,577.5	357.7	1,660.4	1,639.3	21.07	78.799		
3,300.0	3,299.6	3,565.0	3,452.2	5.8	16.4	-155.02	1,576.8	334.6	1,655.0	1,633.2	21.72	76.197		
3,400.0	3,399.5	3,625.8	3,510.8	6.0	16.7	-155.59	1,577.4	318.4	1,651.3	1,629.1	22.25	74.209		
3,500.0	3,499.5	3,710.9	3,592.4	6.1	17.2	-156.43	1,579.6	294.5	1,649.6	1,626.6	22.94	71.919		
3,600.0	3,599.5	3,860.5	3,736.1	6.3	18.0	-157.90	1,581.1	252.6	1,646.8	1,622.8	23.97	68.697		
3,700.0	3,699.5	3,952.7	3,824.5	6.5	18.5	-158.80	1,580.6	226.9	1,642.9	1,618.3	24.68	66.569		
3,800.0	3,799.5	4,049.1	3,916.9	6.7	19.0	-159.76	1,580.5	199.3	1,640.0	1,614.6	25.43	64.489		
3,900.0	3,899.5	4,172.7	4,034.9	6.8	19.7	-161.05	1,579.3	162.6	1,636.7	1,610.3	26.35	62.119		
4,000.0	3,999.5	4,263.0	4,121.3	7.0	20.2	-161.97	1,576.8	136.5	1,632.3	1,605.2	27.04	60.362		
4,100.0	4,099.5	4,350.0	4,204.6	7.2	20.7	-162.85	1,575.4	111.4	1,629.4	1,601.7	27.73	58.766		
4,200.0	4,199.5	4,419.5	4,271.4	7.4	21.0	-163.54	1,575.6	91.9	1,628.8	1,600.5	28.27	57.608		
4,216.1	4,215.6	4,434.4	4,285.7	7.4	21.1	-163.68	1,575.7	88.0	1,628.8	1,600.4	28.38	57.390		
4,300.0	4,299.5	4,503.6	4,352.7	7.5	21.4	-164.30	1,576.1	70.8	1,629.2	1,600.4	28.84	56.484		
4,400.0	4,399.5	4,589.0	4,436.1	7.7	21.7	-164.95	1,577.2	52.5	1,630.8	1,601.4	29.36	55.536		
4,500.0	4,499.5	4,682.8	4,528.3	7.9	22.1	-165.56	1,578.8	35.4	1,633.1	1,603.3	29.87	54.668		
4,600.0	4,599.5	4,781.0	4,625.3	8.1	22.4	-166.12	1,580.5	19.9	1,635.8	1,605.4	30.36	53.885		
4,700.0	4,699.5	4,877.7	4,721.1	8.2	22.6	-166.60	1,582.3	6.4	1,638.6	1,607.8	30.81	53.189		
4,800.0	4,799.5	4,971.0	4,813.6	8.4	22.9	-167.01	1,584.2	-5.1	1,641.9	1,610.7	31.22	52.593		
4,900.0	4,899.4	5,080.4	4,922.3	8.6	23.1	-167.42	1,586.4	-16.7	1,645.1	1,613.4	31.64	51.985		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.0	4,999.4	5,184.9	5,026.3	8.8	23.3	-167.78	1,587.9	-26.8	1,647.7	1,615.7	32.04	51.429	
5,100.0	5,099.4	5,276.1	5,117.3	8.9	23.5	-168.04	1,589.3	-34.1	1,650.6	1,618.2	32.38	50.980	
5,200.0	5,199.4	5,372.0	5,213.0	9.1	23.7	-168.25	1,591.3	-40.0	1,654.0	1,621.3	32.70	50.579	
5,300.0	5,299.4	5,480.1	5,320.9	9.3	23.8	-168.44	1,593.5	-45.2	1,657.3	1,624.3	33.02	50.189	
5,400.0	5,399.4	5,581.6	5,422.3	9.5	23.9	-168.58	1,595.2	-49.0	1,660.2	1,626.9	33.32	49.829	
5,500.0	5,499.4	5,680.0	5,520.7	9.6	24.0	-168.70	1,596.8	-52.3	1,663.1	1,629.5	33.61	49.483	
5,600.0	5,599.4	5,769.4	5,610.0	9.8	24.1	-168.79	1,598.6	-55.0	1,666.4	1,632.5	33.88	49.182	
5,700.0	5,699.4	5,863.0	5,703.5	10.0	24.2	-168.88	1,601.1	-57.5	1,670.3	1,636.1	34.16	48.899	
5,800.0	5,799.4	5,967.3	5,807.8	10.2	24.4	-168.98	1,603.9	-60.0	1,674.2	1,639.7	34.44	48.605	
5,900.0	5,899.4	6,073.0	5,913.4	10.3	24.5	-169.06	1,606.4	-62.3	1,677.7	1,643.0	34.72	48.328	
6,000.0	5,999.4	6,179.5	6,019.9	10.5	24.5	-169.10	1,608.6	-63.5	1,680.9	1,646.0	34.98	48.056	
6,100.0	6,099.4	6,280.2	6,120.5	10.7	24.6	-169.13	1,610.4	-64.3	1,683.9	1,648.7	35.25	47.769	
6,200.0	6,199.4	6,379.5	6,219.9	10.9	24.7	-169.18	1,612.2	-65.6	1,686.9	1,651.4	35.52	47.485	
6,300.0	6,299.4	6,475.3	6,315.6	11.1	24.9	-169.24	1,614.0	-67.2	1,690.0	1,654.2	35.80	47.204	
6,400.0	6,399.3	6,574.0	6,414.3	11.2	25.0	-169.31	1,616.1	-69.1	1,693.4	1,657.3	36.09	46.925	
6,500.0	6,499.3	6,677.1	6,517.3	11.4	25.1	-169.40	1,618.1	-71.5	1,696.6	1,660.2	36.38	46.634	
6,600.0	6,599.3	6,774.3	6,614.5	11.6	25.2	-169.48	1,620.0	-73.9	1,699.8	1,663.1	36.66	46.362	
6,700.0	6,699.3	6,869.1	6,709.2	11.8	25.3	-169.55	1,622.1	-76.0	1,703.2	1,666.3	36.94	46.107	
6,800.0	6,799.3	6,966.1	6,806.2	11.9	25.4	-169.62	1,624.5	-77.8	1,706.9	1,669.7	37.22	45.864	
6,900.0	6,899.3	7,063.7	6,903.7	12.1	25.5	-169.68	1,627.1	-79.5	1,710.8	1,673.3	37.49	45.630	
6,921.2	6,920.6	7,084.8	6,924.8	12.1	25.5	-169.69	1,627.7	-79.8	1,711.6	1,674.1	37.55	45.582	
6,950.0	6,949.3	7,113.3	6,953.3	12.2	25.6	-5.52	1,628.4	-80.2	1,712.0	1,674.4	37.60	45.529	
7,000.0	6,999.1	7,162.8	7,002.8	12.3	25.6	-3.07	1,629.8	-80.9	1,709.3	1,671.8	37.51	45.573	
7,050.0	7,048.4	7,211.9	7,051.9	12.3	25.7	-2.67	1,631.2	-81.4	1,702.3	1,665.1	37.17	45.793	
7,100.0	7,096.7	7,261.9	7,101.9	12.4	25.7	-2.55	1,632.6	-81.9	1,691.0	1,654.4	36.61	46.191	
7,150.0	7,143.8	7,311.8	7,151.8	12.5	25.8	-2.55	1,633.9	-82.3	1,675.4	1,639.6	35.82	46.776	
7,200.0	7,189.2	7,360.0	7,199.9	12.5	25.8	-2.62	1,635.1	-82.7	1,655.7	1,620.9	34.81	47.561	
7,250.0	7,232.6	7,406.0	7,245.9	12.6	25.9	-2.74	1,636.2	-83.1	1,632.0	1,598.4	33.60	48.566	
7,300.0	7,273.7	7,446.4	7,286.3	12.7	25.9	-2.92	1,637.2	-83.3	1,604.5	1,572.3	32.20	49.823	
7,350.0	7,312.1	7,484.3	7,324.1	12.9	25.9	-3.15	1,638.1	-83.5	1,573.6	1,542.9	30.64	51.348	
7,400.0	7,347.6	7,519.4	7,359.3	13.1	26.0	-3.46	1,639.0	-83.6	1,539.3	1,510.4	28.95	53.169	
7,450.0	7,379.9	7,551.6	7,391.5	13.3	26.0	-3.87	1,639.9	-83.6	1,502.1	1,474.9	27.16	55.308	
7,500.0	7,408.8	7,580.0	7,419.8	13.5	26.0	-4.42	1,640.6	-83.5	1,462.1	1,436.8	25.31	57.770	
7,550.0	7,434.0	7,606.3	7,446.2	13.8	26.0	-5.20	1,641.4	-83.4	1,419.7	1,396.3	23.46	60.514	
7,600.0	7,455.3	7,628.4	7,468.2	14.2	26.0	-6.32	1,642.0	-83.4	1,375.2	1,353.5	21.69	63.393	
7,650.0	7,472.7	7,646.6	7,486.4	14.6	26.1	-8.05	1,642.5	-83.3	1,328.9	1,308.7	20.13	66.007	
7,700.0	7,485.8	7,660.8	7,500.6	15.0	26.1	-11.02	1,642.9	-83.3	1,281.1	1,262.1	19.01	67.379	
7,750.0	7,494.7	7,670.9	7,510.7	15.5	26.1	-17.00	1,643.2	-83.2	1,232.3	1,213.4	18.92	65.126	
7,800.0	7,499.3	7,676.9	7,516.7	16.0	26.1	-33.84	1,643.4	-83.2	1,182.7	1,160.5	22.18	53.331	
7,827.7	7,500.0	7,678.3	7,518.1	16.3	26.1	-61.10	1,643.5	-83.2	1,155.1	1,127.2	27.84	41.483	
7,900.0	7,500.0	7,680.4	7,520.2	17.2	26.1	-62.62	1,643.5	-83.2	1,082.9	1,054.1	28.80	37.598	
8,000.0	7,500.0	7,683.3	7,523.1	18.4	26.1	-64.80	1,643.6	-83.2	983.2	952.9	30.23	32.527	
8,100.0	7,500.0	7,686.3	7,526.1	19.7	26.1	-67.07	1,643.7	-83.2	883.4	851.7	31.74	27.829	
8,200.0	7,500.0	7,689.2	7,529.0	21.1	26.1	-69.43	1,643.8	-83.2	783.7	750.4	33.34	23.505	
8,300.0	7,500.0	7,692.1	7,531.9	22.5	26.1	-71.87	1,643.9	-83.1	684.1	649.1	35.00	19.545	
8,400.0	7,500.0	7,695.1	7,534.9	24.0	26.1	-74.39	1,644.0	-83.1	584.6	547.9	36.71	15.928	
8,500.0	7,500.0	7,698.1	7,537.8	25.5	26.1	-76.99	1,644.0	-83.1	485.4	446.9	38.43	12.628	
8,600.0	7,500.0	7,701.0	7,540.8	27.0	26.1	-79.66	1,644.1	-83.1	386.4	346.2	40.17	9.620	
8,700.0	7,500.0	7,704.0	7,543.8	28.6	26.1	-82.38	1,644.2	-83.1	288.1	246.3	41.89	6.879	
8,800.0	7,500.0	7,707.0	7,546.8	30.2	26.1	-85.15	1,644.3	-83.1	191.7	148.1	43.57	4.398	
8,900.0	7,500.0	7,710.0	7,549.8	31.8	26.1	-87.95	1,644.4	-83.1	102.1	56.8	45.21	2.257	
8,981.7	7,500.0	7,712.5	7,552.3	33.1	26.1	-90.26	1,644.5	-83.1	61.2	14.7	46.50	1.316 Level 3, CC, ES, SF	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,000.0	7,500.0	7,713.0	7,552.8	33.4	26.1	-90.78	1,644.5	-83.1	63.9	17.1	46.78	1.366	Level 3
9,027.7	7,500.0	7,713.9	7,553.7	33.8	26.1	-91.56	1,644.5	-83.1	76.6	29.4	47.20	1.622	
9,100.0	7,500.0	7,716.1	7,555.9	35.0	26.1	-93.61	1,644.6	-83.1	133.2	84.9	48.27	2.759	
9,127.7	7,500.0	7,716.9	7,556.7	35.5	26.1	-94.39	1,644.6	-83.0	158.3	109.6	48.66	3.253	
9,200.0	7,500.0	7,719.1	7,558.9	36.6	26.1	-96.20	1,644.7	-83.0	226.5	176.8	49.71	4.557	
9,300.0	7,500.0	7,722.2	7,561.9	38.3	26.1	-98.31	1,644.8	-83.0	323.5	272.4	51.14	6.326	
9,400.0	7,500.0	7,725.2	7,565.0	40.0	26.1	-99.89	1,644.9	-83.0	421.6	369.0	52.59	8.017	
9,427.7	7,500.0	7,726.1	7,565.8	40.4	26.1	-100.24	1,644.9	-83.0	448.9	395.9	53.00	8.470	
9,500.0	7,500.0	7,728.3	7,568.0	41.6	26.1	-101.83	1,645.0	-83.0	520.2	466.3	53.90	9.651	
9,600.0	7,500.0	7,731.3	7,571.1	43.3	26.1	-104.01	1,645.1	-83.0	619.2	564.1	55.09	11.241	
9,700.0	7,500.0	7,734.4	7,574.2	45.0	26.1	-106.16	1,645.2	-83.0	718.5	662.3	56.19	12.787	
9,800.0	7,500.0	7,737.5	7,577.2	46.7	26.1	-108.27	1,645.2	-83.0	818.0	760.8	57.21	14.298	
9,900.0	7,500.0	7,740.6	7,580.3	48.4	26.1	-110.34	1,645.3	-83.0	917.5	859.4	58.15	15.780	
10,000.0	7,500.0	7,743.7	7,583.4	50.1	26.1	-112.36	1,645.4	-82.9	1,017.2	958.2	59.00	17.241	
10,100.0	7,500.0	7,746.8	7,586.6	51.8	26.1	-114.34	1,645.5	-82.9	1,116.9	1,057.1	59.77	18.687	
10,200.0	7,500.0	7,749.9	7,589.7	53.5	26.1	-116.26	1,645.6	-82.9	1,216.6	1,156.2	60.46	20.122	
10,300.0	7,500.0	7,753.1	7,592.8	55.2	26.2	-118.13	1,645.7	-82.9	1,316.4	1,255.3	61.08	21.553	
10,400.0	7,500.0	7,756.6	7,596.4	56.9	26.2	-120.17	1,645.8	-82.9	1,416.2	1,354.7	61.50	23.028	
10,500.0	7,500.0	7,761.0	7,600.8	58.6	26.2	-122.57	1,646.0	-82.9	1,516.0	1,454.4	61.59	24.615	
10,600.0	7,500.0	7,765.6	7,605.4	60.3	26.2	-124.97	1,646.1	-82.8	1,615.8	1,554.3	61.52	26.266	
10,627.7	7,500.0	7,766.9	7,606.7	60.8	26.2	-125.63	1,646.2	-82.8	1,643.5	1,582.0	61.47	26.736	
10,700.0	7,500.0	7,770.5	7,610.2	62.0	26.2	-136.58	1,646.3	-82.8	1,715.7	1,661.4	54.24	31.631	
10,800.0	7,500.0	7,775.6	7,615.4	63.7	26.2	-159.05	1,646.5	-82.8	1,815.6	1,780.2	35.36	51.340	
10,900.0	7,500.0	7,781.1	7,620.9	65.5	26.2	173.14	1,646.7	-82.8	1,915.5	1,889.3	26.19	73.148	
11,000.0	7,500.0	7,787.0	7,626.7	67.2	26.2	150.32	1,646.9	-82.8	2,015.5	1,968.8	46.69	43.162	
11,023.0	7,500.0	7,788.4	7,628.1	67.6	26.2	146.32	1,646.9	-82.7	2,038.5	1,987.7	50.81	40.119	
11,100.0	7,500.0	7,793.2	7,633.0	68.9	26.2	147.91	1,647.1	-82.7	2,115.4	2,065.4	49.97	42.329	
11,200.0	7,500.0	7,799.9	7,639.6	70.6	26.2	149.90	1,647.4	-82.7	2,215.2	2,166.4	48.87	45.332	
11,300.0	7,500.0	7,807.0	7,646.7	72.3	26.2	151.78	1,647.7	-82.7	2,315.1	2,267.4	47.75	48.485	
11,400.0	7,500.0	7,814.6	7,654.3	74.1	26.2	153.57	1,648.0	-82.6	2,415.0	2,368.4	46.63	51.790	
11,500.0	7,500.0	7,822.7	7,662.5	75.8	26.2	155.26	1,648.3	-82.6	2,514.9	2,469.4	45.52	55.247	
11,600.0	7,500.0	7,831.5	7,671.2	77.5	26.2	156.87	1,648.7	-82.6	2,614.8	2,570.4	44.43	58.855	
11,700.0	7,500.0	7,841.0	7,680.7	79.3	26.2	158.40	1,649.2	-82.5	2,714.7	2,671.3	43.36	62.612	
11,800.0	7,500.0	7,851.3	7,690.9	81.0	26.2	159.84	1,649.7	-82.5	2,814.5	2,772.2	42.31	66.514	
11,900.0	7,500.0	7,862.4	7,702.1	82.7	26.2	161.21	1,650.2	-82.4	2,914.4	2,873.1	41.31	70.557	
12,000.0	7,500.0	7,874.5	7,714.2	84.5	26.3	162.51	1,650.9	-82.4	3,014.2	2,973.9	40.33	74.734	
12,100.0	7,500.0	7,887.8	7,727.4	86.2	26.3	163.75	1,651.6	-82.4	3,114.1	3,074.7	39.40	79.034	
12,200.0	7,500.0	7,902.4	7,742.0	87.9	26.3	164.92	1,652.4	-82.3	3,213.9	3,175.4	38.51	83.448	
12,300.0	7,500.0	7,918.5	7,758.0	89.7	26.3	166.03	1,653.4	-82.2	3,313.7	3,276.0	37.67	87.961	
12,400.0	7,500.0	7,935.6	7,775.2	91.4	26.3	167.05	1,654.5	-82.2	3,413.5	3,376.6	36.92	92.451	
12,500.0	7,500.0	7,953.3	7,792.7	93.1	26.3	167.95	1,655.7	-82.1	3,513.2	3,476.9	36.30	96.785	
12,600.0	7,500.0	7,972.6	7,812.1	94.9	26.3	168.81	1,657.1	-82.0	3,613.0	3,577.3	35.72	101.140	
12,700.0	7,500.0	7,994.1	7,833.5	96.6	26.4	169.62	1,658.6	-81.9	3,712.7	3,677.5	35.19	105.497	
12,800.0	7,500.0	8,017.9	7,857.3	98.3	26.4	170.39	1,660.5	-81.8	3,812.4	3,777.7	34.71	109.839	
12,900.0	7,500.0	8,044.6	7,883.9	100.1	26.4	171.12	1,662.7	-81.6	3,912.0	3,877.8	34.27	114.142	
13,000.0	7,500.0	8,074.7	7,913.8	101.8	26.4	171.81	1,665.3	-81.4	4,011.7	3,977.8	33.89	118.386	
13,100.0	7,500.0	8,104.0	7,943.0	103.6	26.5	172.38	1,668.1	-81.2	4,111.2	4,077.6	33.63	122.243	
13,200.0	7,500.0	8,104.0	7,943.0	105.3	26.5	172.38	1,668.1	-81.2	4,210.8	4,176.8	33.93	124.083	
13,300.0	7,500.0	8,104.0	7,943.0	107.0	26.5	172.38	1,668.1	-81.2	4,310.3	4,276.1	34.24	125.892	
13,400.0	7,500.0	8,104.0	7,943.0	108.8	26.5	172.38	1,668.1	-81.2	4,409.9	4,375.4	34.54	127.670	
13,500.0	7,500.0	8,104.0	7,943.0	110.5	26.5	172.38	1,668.1	-81.2	4,509.5	4,474.7	34.85	129.417	
13,600.0	7,500.0	8,104.0	7,943.0	112.3	26.5	172.38	1,668.1	-81.2	4,609.2	4,574.0	35.15	131.134	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SU		Offset Site Error:		0.0 ft	
Survey Program:													132-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis							
13,700.0	7,500.0	8,104.0	7,943.0	114.0	26.5	172.38	1,668.1	-81.2	4,708.8	4,673.3	35.45	132.823						
13,800.0	7,500.0	8,142.8	7,981.6	115.7	26.5	173.02	1,671.7	-80.9	4,808.2	4,773.1	35.06	137.131						
13,900.0	7,500.0	8,147.9	7,986.6	117.5	26.5	173.10	1,672.1	-80.9	4,907.8	4,872.5	35.27	139.139						
14,000.0	7,500.0	8,152.8	7,991.6	119.2	26.5	173.17	1,672.5	-80.9	5,007.4	4,971.9	35.48	141.120						
14,100.0	7,500.0	8,157.7	7,996.4	121.0	26.5	173.24	1,673.0	-80.9	5,107.0	5,071.3	35.69	143.075						
14,200.0	7,500.0	8,162.5	8,001.2	122.7	26.5	173.31	1,673.4	-80.8	5,206.6	5,170.7	35.91	145.005						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	88.0	88.0	0.0	0.2	-38.22	131.5	-103.6	167.4					
100.0	100.0	188.0	188.0	0.2	0.3	-38.22	131.5	-103.6	167.4	166.9	0.48	348.590		
200.0	200.0	288.0	288.0	0.3	0.5	-38.22	131.5	-103.6	167.4	166.6	0.83	201.851		
300.0	300.0	388.0	388.0	0.5	0.7	-38.22	131.5	-103.6	167.4	166.2	1.18	142.053		
400.0	400.0	488.0	488.0	0.7	0.9	102.07	131.5	-103.6	167.6	166.0	1.53	109.660		
500.0	500.0	588.0	588.0	0.9	1.0	102.94	131.5	-103.6	168.1	166.2	1.88	89.383		
600.0	599.9	687.9	687.9	1.0	1.2	104.37	131.5	-103.6	169.2	166.9	2.24	75.506		
700.0	699.8	787.8	787.8	1.2	1.4	111.44	131.5	-103.6	170.5	167.9	2.60	65.651		
800.0	799.7	887.7	887.7	1.4	1.5	127.63	131.5	-103.6	171.7	168.8	2.95	58.261		
865.6	865.4	953.4	953.4	1.5	1.7	160.03	131.5	-103.6	172.5	169.3	3.18	54.314		
900.0	899.7	987.7	987.7	1.6	1.7	160.07	131.5	-103.6	172.8	169.5	3.29	52.458		
1,000.0	999.7	1,087.7	1,087.7	1.7	1.9	160.20	131.5	-103.6	173.9	170.3	3.64	47.748		
1,100.0	1,099.7	1,187.7	1,187.7	1.9	2.1	160.33	131.5	-103.6	175.0	171.0	3.99	43.857		
1,200.0	1,199.7	1,287.7	1,287.7	2.1	2.2	160.46	131.5	-103.6	176.1	171.8	4.34	40.589		
1,300.0	1,299.7	1,387.7	1,387.7	2.3	2.4	160.58	131.5	-103.6	177.2	172.5	4.69	37.805		
1,400.0	1,399.7	1,487.7	1,487.7	2.4	2.6	160.70	131.5	-103.6	178.3	173.3	5.04	35.406		
1,500.0	1,499.7	1,587.7	1,587.7	2.6	2.8	160.83	131.5	-103.6	179.4	174.0	5.38	33.317		
1,600.0	1,599.7	1,687.7	1,687.7	2.8	2.9	160.95	131.5	-103.6	180.5	174.7	5.73	31.482		
1,700.0	1,699.7	1,787.7	1,787.7	3.0	3.1	161.07	131.5	-103.6	181.6	175.5	6.08	29.857		
1,800.0	1,799.7	1,887.7	1,887.7	3.1	3.3	161.18	131.5	-103.6	182.7	176.2	6.43	28.408		
1,900.0	1,899.7	1,987.7	1,987.7	3.3	3.5	161.30	131.5	-103.6	183.8	177.0	6.78	27.108		
2,000.0	1,999.6	2,087.6	2,087.6	3.5	3.6	161.42	131.5	-103.6	184.9	177.7	7.13	25.936		
2,100.0	2,099.6	2,187.6	2,187.6	3.7	3.8	161.53	131.5	-103.6	186.0	178.5	7.48	24.872		
2,200.0	2,199.6	2,287.6	2,287.6	3.9	4.0	161.64	131.5	-103.6	187.1	179.2	7.83	23.904		
2,300.0	2,299.6	2,387.6	2,387.6	4.0	4.2	161.75	131.5	-103.6	188.2	180.0	8.17	23.018		
2,400.0	2,399.6	2,487.6	2,487.6	4.2	4.3	161.86	131.5	-103.6	189.3	180.7	8.52	22.205		
2,500.0	2,499.6	2,587.6	2,587.6	4.4	4.5	161.97	131.5	-103.6	190.4	181.5	8.87	21.456		
2,600.0	2,599.6	2,687.6	2,687.6	4.6	4.7	162.08	131.5	-103.6	191.5	182.2	9.22	20.764		
2,700.0	2,699.6	2,787.6	2,787.6	4.7	4.9	162.18	131.5	-103.6	192.6	183.0	9.57	20.122		
2,800.0	2,799.6	2,887.6	2,887.6	4.9	5.0	162.29	131.5	-103.6	193.7	183.7	9.92	19.525		
2,900.0	2,899.6	2,987.6	2,987.6	5.1	5.2	162.39	131.5	-103.6	194.8	184.5	10.27	18.969		
3,000.0	2,999.6	3,087.6	3,087.6	5.3	5.4	162.50	131.5	-103.6	195.9	185.3	10.62	18.449		
3,100.0	3,099.6	3,187.6	3,187.6	5.4	5.6	162.60	131.5	-103.6	197.0	186.0	10.97	17.963		
3,200.0	3,199.6	3,287.6	3,287.6	5.6	5.7	162.70	131.5	-103.6	198.1	186.8	11.31	17.507		
3,300.0	3,299.6	3,387.6	3,387.6	5.8	5.9	162.80	131.5	-103.6	199.2	187.5	11.66	17.078		
3,400.0	3,399.5	3,487.5	3,487.5	6.0	6.1	162.89	131.5	-103.6	200.3	188.3	12.01	16.674		
3,500.0	3,499.5	3,587.5	3,587.5	6.1	6.3	162.99	131.5	-103.6	201.4	189.0	12.36	16.293		
3,600.0	3,599.5	3,687.5	3,687.5	6.3	6.4	163.09	131.5	-103.6	202.5	189.8	12.71	15.932		
3,700.0	3,699.5	3,787.5	3,787.5	6.5	6.6	163.18	131.5	-103.6	203.6	190.6	13.06	15.591		
3,800.0	3,799.5	3,887.5	3,887.5	6.7	6.8	163.28	131.5	-103.6	204.7	191.3	13.41	15.268		
3,900.0	3,899.5	3,987.5	3,987.5	6.8	7.0	163.37	131.5	-103.6	205.8	192.1	13.76	14.962		
4,000.0	3,999.5	4,087.5	4,087.5	7.0	7.1	163.46	131.5	-103.6	206.9	192.8	14.11	14.670		
4,100.0	4,099.5	4,187.5	4,187.5	7.2	7.3	163.55	131.5	-103.6	208.1	193.6	14.46	14.393		
4,200.0	4,199.5	4,287.5	4,287.5	7.4	7.5	163.64	131.5	-103.6	209.2	194.4	14.80	14.128		
4,300.0	4,299.5	4,387.5	4,387.5	7.5	7.7	163.73	131.5	-103.6	210.3	195.1	15.15	13.876		
4,400.0	4,399.5	4,487.5	4,487.5	7.7	7.8	163.82	131.5	-103.6	211.4	195.9	15.50	13.636		
4,500.0	4,499.5	4,587.5	4,587.5	7.9	8.0	163.90	131.5	-103.6	212.5	196.6	15.85	13.406		
4,600.0	4,599.5	4,687.5	4,687.5	8.1	8.2	163.99	131.5	-103.6	213.6	197.4	16.20	13.186		
4,700.0	4,699.5	4,787.5	4,787.5	8.2	8.4	164.08	131.5	-103.6	214.7	198.2	16.55	12.975		
4,800.0	4,799.5	4,887.5	4,887.5	8.4	8.5	164.16	131.5	-103.6	215.8	198.9	16.90	12.773		
4,900.0	4,899.4	4,987.4	4,987.4	8.6	8.7	164.24	131.5	-103.6	216.9	199.7	17.25	12.579		
5,000.0	4,999.4	5,087.4	5,087.4	8.8	8.9	164.33	131.5	-103.6	218.1	200.5	17.60	12.393		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,099.4	5,187.4	5,187.4	8.9	9.1	164.41	131.5	-103.6	219.2	201.2	17.95	12.214	
5,200.0	5,199.4	5,287.4	5,287.4	9.1	9.2	164.49	131.5	-103.6	220.3	202.0	18.29	12.042	
5,300.0	5,299.4	5,387.4	5,387.4	9.3	9.4	164.57	131.5	-103.6	221.4	202.8	18.64	11.876	
5,400.0	5,399.4	5,487.4	5,487.4	9.5	9.6	164.65	131.5	-103.6	222.5	203.5	18.99	11.717	
5,500.0	5,499.4	5,587.4	5,587.4	9.6	9.8	164.73	131.5	-103.6	223.6	204.3	19.34	11.563	
5,600.0	5,599.4	5,687.4	5,687.4	9.8	9.9	164.80	131.5	-103.6	224.8	205.1	19.69	11.415	
5,700.0	5,699.4	5,787.4	5,787.4	10.0	10.1	164.88	131.5	-103.6	225.9	205.8	20.04	11.272	
5,800.0	5,799.4	5,887.4	5,887.4	10.2	10.3	164.96	131.5	-103.6	227.0	206.6	20.39	11.134	
5,900.0	5,899.4	5,987.4	5,987.4	10.3	10.5	165.03	131.5	-103.6	228.1	207.4	20.74	11.000	
6,000.0	5,999.4	6,087.4	6,087.4	10.5	10.6	165.11	131.5	-103.6	229.2	208.1	21.09	10.871	
6,100.0	6,099.4	6,187.4	6,187.4	10.7	10.8	165.18	131.5	-103.6	230.4	208.9	21.44	10.746	
6,200.0	6,199.4	6,287.4	6,287.4	10.9	11.0	165.26	131.5	-103.6	231.5	209.7	21.78	10.626	
6,300.0	6,299.4	6,387.4	6,387.4	11.1	11.1	165.33	131.5	-103.6	232.6	210.5	22.13	10.509	
6,400.0	6,399.3	6,487.3	6,487.3	11.2	11.3	165.40	131.5	-103.6	233.7	211.2	22.48	10.395	
6,500.0	6,499.3	6,587.3	6,587.3	11.4	11.5	165.47	131.5	-103.6	234.8	212.0	22.83	10.285	
6,600.0	6,599.3	6,687.3	6,687.3	11.6	11.7	165.54	131.5	-103.6	236.0	212.8	23.18	10.179	
6,700.0	6,699.3	6,787.3	6,787.3	11.8	11.8	165.61	131.5	-103.6	237.1	213.5	23.53	10.076	
6,800.0	6,799.3	6,887.3	6,887.3	11.9	12.0	165.68	131.5	-103.6	238.2	214.3	23.88	9.975	
6,900.0	6,899.3	6,987.3	6,987.3	12.1	12.2	165.75	131.5	-103.6	239.3	215.1	24.23	9.878	
6,921.2	6,920.6	7,008.6	7,008.6	12.1	12.2	165.76	131.5	-103.6	239.6	215.3	24.30	9.858	
6,950.0	6,949.3	7,037.3	7,037.3	12.2	12.3	-30.12	131.5	-103.6	239.2	214.8	24.39	9.809	
7,000.0	6,999.1	7,087.1	7,087.1	12.3	12.4	-28.27	131.5	-103.6	235.6	211.1	24.46	9.631	
7,050.0	7,048.4	7,136.4	7,136.4	12.3	12.5	-29.17	131.5	-103.6	228.2	203.7	24.45	9.334	
7,100.0	7,096.7	7,184.7	7,184.7	12.4	12.5	-31.17	131.5	-103.6	217.1	192.7	24.36	8.913	
7,150.0	7,143.8	7,231.8	7,231.8	12.5	12.6	-34.32	131.5	-103.6	202.6	178.4	24.23	8.363	
7,200.0	7,189.2	7,277.2	7,277.2	12.5	12.7	-38.91	131.5	-103.6	185.3	161.2	24.14	7.676	
7,250.0	7,232.6	7,320.6	7,320.6	12.6	12.8	-45.40	131.5	-103.6	165.8	141.6	24.19	6.855	
7,300.0	7,273.7	7,361.7	7,361.7	12.7	12.8	-54.27	131.5	-103.6	145.4	120.9	24.50	5.932	
7,350.0	7,312.1	7,400.1	7,400.1	12.9	12.9	-65.76	131.5	-103.6	126.2	101.0	25.14	5.020	
7,400.0	7,347.6	7,435.6	7,435.6	13.1	13.0	-79.15	131.5	-103.6	112.0	86.1	25.87	4.329	
7,440.2	7,373.9	7,461.9	7,461.9	13.2	13.0	-90.00	131.5	-103.6	107.8	81.5	26.26	4.105 CC, ES, SF	
7,450.0	7,379.9	7,467.9	7,467.9	13.3	13.0	-92.50	131.5	-103.6	108.1	81.8	26.30	4.109	
7,500.0	7,408.8	7,496.8	7,496.8	13.5	13.1	-103.67	131.5	-103.6	118.2	91.9	26.25	4.502	
7,550.0	7,434.0	7,522.0	7,522.0	13.8	13.1	-111.59	131.5	-103.6	141.5	115.5	25.97	5.448	
7,600.0	7,455.3	7,543.3	7,543.3	14.2	13.2	-116.14	131.5	-103.6	174.2	148.4	25.75	6.763	
7,650.0	7,472.7	7,560.7	7,560.7	14.6	13.2	-117.45	131.5	-103.6	213.0	187.1	25.87	8.232	
7,700.0	7,485.8	7,573.8	7,573.8	15.0	13.2	-115.40	131.5	-103.6	255.7	229.2	26.48	9.656	
7,750.0	7,494.7	7,582.7	7,582.7	15.5	13.2	-109.39	131.5	-103.6	301.0	273.4	27.65	10.888	
7,800.0	7,499.3	7,587.3	7,587.3	16.0	13.2	-98.42	131.5	-103.6	347.9	318.9	29.06	11.973	
7,827.7	7,500.0	7,588.0	7,588.0	16.3	13.2	-90.00	131.5	-103.6	374.4	344.8	29.58	12.655	
7,900.0	7,500.0	7,588.0	7,588.0	17.2	13.2	-90.00	131.5	-103.6	444.1	413.7	30.41	14.602	
8,000.0	7,500.0	7,588.0	7,588.0	18.4	13.2	-90.00	131.5	-103.6	541.6	510.0	31.64	17.118	
8,100.0	7,500.0	7,588.0	7,588.0	19.7	13.2	-90.00	131.5	-103.6	639.9	607.0	32.95	19.422	
8,200.0	7,500.0	7,588.0	7,588.0	21.1	13.2	-90.00	131.5	-103.6	738.7	704.3	34.32	21.522	
8,300.0	7,500.0	7,588.0	7,588.0	22.5	13.2	-90.00	131.5	-103.6	837.7	802.0	35.75	23.434	
8,400.0	7,500.0	7,588.0	7,588.0	24.0	13.2	-90.00	131.5	-103.6	937.0	899.7	37.22	25.175	
8,500.0	7,500.0	7,588.0	7,588.0	25.5	13.2	-90.00	131.5	-103.6	1,036.4	997.6	38.72	26.763	
8,600.0	7,500.0	7,588.0	7,588.0	27.0	13.2	-90.00	131.5	-103.6	1,135.9	1,095.6	40.26	28.214	
8,700.0	7,500.0	7,588.0	7,588.0	28.6	13.2	-90.00	131.5	-103.6	1,235.4	1,193.6	41.82	29.542	
8,800.0	7,500.0	7,588.0	7,588.0	30.2	13.2	-90.00	131.5	-103.6	1,335.1	1,291.7	43.40	30.761	
8,900.0	7,500.0	7,588.0	7,588.0	31.8	13.2	-90.00	131.5	-103.6	1,434.8	1,389.8	45.00	31.882	
9,000.0	7,500.0	7,588.0	7,588.0	33.4	13.2	-90.00	131.5	-103.6	1,534.5	1,487.9	46.62	32.916	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,027.7	7,500.0	7,588.0	7,588.0	33.8	13.2	-90.00	131.5	-103.6	1,562.2	1,515.1	47.07	33.189		
9,100.0	7,500.0	7,588.0	7,588.0	35.0	13.2	-90.00	131.5	-103.6	1,634.3	1,586.0	48.25	33.873		
9,127.7	7,500.0	7,588.0	7,588.0	35.5	13.2	-90.00	131.5	-103.6	1,662.0	1,613.2	48.70	34.125		
9,200.0	7,500.0	7,588.0	7,588.0	36.6	13.2	-90.00	131.5	-103.6	1,734.0	1,684.2	49.89	34.761		
9,300.0	7,500.0	7,588.0	7,588.0	38.3	13.2	-90.00	131.5	-103.6	1,833.7	1,782.2	51.52	35.589		
9,400.0	7,500.0	7,588.0	7,588.0	40.0	13.2	-90.00	131.5	-103.6	1,933.3	1,880.1	53.16	36.365		
9,427.7	7,500.0	7,588.0	7,588.0	40.4	13.2	-90.00	131.5	-103.6	1,960.9	1,907.2	53.62	36.572		
9,500.0	7,500.0	7,588.0	7,588.0	41.6	13.2	-90.00	131.5	-103.6	2,032.8	1,977.9	54.82	37.078		
9,600.0	7,500.0	7,588.0	7,588.0	43.3	13.2	-90.00	131.5	-103.6	2,132.3	2,075.8	56.50	37.740		
9,700.0	7,500.0	7,588.0	7,588.0	45.0	13.2	-90.00	131.5	-103.6	2,231.8	2,173.7	58.18	38.360		
9,800.0	7,500.0	7,588.0	7,588.0	46.7	13.2	-90.00	131.5	-103.6	2,331.5	2,271.6	59.87	38.942		
9,900.0	7,500.0	7,588.0	7,588.0	48.4	13.2	-90.00	131.5	-103.6	2,431.1	2,369.5	61.56	39.490		
10,000.0	7,500.0	7,588.0	7,588.0	50.1	13.2	-90.00	131.5	-103.6	2,530.8	2,467.5	63.26	40.005		
10,100.0	7,500.0	7,588.0	7,588.0	51.8	13.2	-90.00	131.5	-103.6	2,630.4	2,565.5	64.96	40.492		
10,200.0	7,500.0	7,588.0	7,588.0	53.5	13.2	-90.00	131.5	-103.6	2,730.2	2,663.5	66.67	40.952		
10,300.0	7,500.0	7,588.0	7,588.0	55.2	13.2	-90.00	131.5	-103.6	2,829.9	2,761.5	68.38	41.388		
10,400.0	7,500.0	7,588.0	7,588.0	56.9	13.2	-90.00	131.5	-103.6	2,929.6	2,859.6	70.09	41.800		
10,500.0	7,500.0	7,588.0	7,588.0	58.6	13.2	-90.00	131.5	-103.6	3,029.4	2,957.6	71.80	42.192		
10,600.0	7,500.0	7,588.0	7,588.0	60.3	13.2	-90.00	131.5	-103.6	3,129.2	3,055.7	73.52	42.564		
10,627.7	7,500.0	7,588.0	7,588.0	60.8	13.2	-90.00	131.5	-103.6	3,156.9	3,082.9	73.99	42.663		
10,700.0	7,500.0	7,588.0	7,588.0	62.0	13.2	-90.00	131.5	-103.6	3,229.0	3,153.8	75.26	42.908		
10,800.0	7,500.0	7,588.0	7,588.0	63.7	13.2	-90.00	131.5	-103.6	3,328.9	3,252.0	76.98	43.241		
10,900.0	7,500.0	7,588.0	7,588.0	65.5	13.2	-90.00	131.5	-103.6	3,428.9	3,350.2	78.70	43.571		
11,000.0	7,500.0	7,588.0	7,588.0	67.2	13.2	90.00	131.5	-103.6	3,528.9	3,448.5	80.39	43.895		
11,023.0	7,500.0	7,588.0	7,588.0	67.6	13.2	90.00	131.5	-103.6	3,551.9	3,471.2	80.78	43.970		
11,100.0	7,500.0	7,588.0	7,588.0	68.9	13.2	90.00	131.5	-103.6	3,628.9	3,546.8	82.11	44.197		
11,200.0	7,500.0	7,588.0	7,588.0	70.6	13.2	90.00	131.5	-103.6	3,728.9	3,645.1	83.83	44.481		
11,300.0	7,500.0	7,588.0	7,588.0	72.3	13.2	90.00	131.5	-103.6	3,828.9	3,743.3	85.56	44.753		
11,400.0	7,500.0	7,588.0	7,588.0	74.1	13.2	90.00	131.5	-103.6	3,928.9	3,841.6	87.28	45.013		
11,500.0	7,500.0	7,588.0	7,588.0	75.8	13.2	90.00	131.5	-103.6	4,028.9	3,939.9	89.01	45.263		
11,600.0	7,500.0	7,588.0	7,588.0	77.5	13.2	90.00	131.5	-103.6	4,128.9	4,038.2	90.74	45.503		
11,700.0	7,500.0	7,588.0	7,588.0	79.3	13.2	90.00	131.5	-103.6	4,228.9	4,136.4	92.47	45.733		
11,800.0	7,500.0	7,588.0	7,588.0	81.0	13.2	90.00	131.5	-103.6	4,328.9	4,234.7	94.20	45.954		
11,900.0	7,500.0	7,588.0	7,588.0	82.7	13.2	90.00	131.5	-103.6	4,428.9	4,333.0	95.93	46.167		
12,000.0	7,500.0	7,588.0	7,588.0	84.5	13.2	90.00	131.5	-103.6	4,528.9	4,431.2	97.67	46.371		
12,100.0	7,500.0	7,588.0	7,588.0	86.2	13.2	90.00	131.5	-103.6	4,628.9	4,529.5	99.40	46.568		
12,200.0	7,500.0	7,588.0	7,588.0	87.9	13.2	90.00	131.5	-103.6	4,728.9	4,627.7	101.13	46.758		
12,300.0	7,500.0	7,588.0	7,588.0	89.7	13.2	90.00	131.5	-103.6	4,828.9	4,726.0	102.87	46.942		
12,400.0	7,500.0	7,588.0	7,588.0	91.4	13.2	90.00	131.5	-103.6	4,928.9	4,824.3	104.61	47.119		
12,500.0	7,500.0	7,588.0	7,588.0	93.1	13.2	90.00	131.5	-103.6	5,028.9	4,922.5	106.34	47.289		
12,600.0	7,500.0	7,588.0	7,588.0	94.9	13.2	90.00	131.5	-103.6	5,128.9	5,020.8	108.08	47.454		
12,700.0	7,500.0	7,588.0	7,588.0	96.6	13.2	90.00	131.5	-103.6	5,228.9	5,119.1	109.82	47.614		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	44.5	44.5	0.0	0.1	37.65	1,576.6	1,216.4	1,991.3					
100.0	100.0	142.3	142.3	0.2	0.3	37.68	1,576.3	1,217.4	1,991.7	1,991.3	0.40	4,950.304		
200.0	200.0	247.6	247.6	0.3	0.4	37.73	1,575.3	1,218.9	1,991.8	1,991.1	0.76	2,614.224		
300.0	300.0	349.5	349.5	0.5	0.6	37.76	1,574.7	1,219.8	1,991.9	1,990.8	1.11	1,787.707		
301.5	301.5	351.1	351.0	0.5	0.6	177.76	1,574.7	1,219.8	1,991.9	1,990.8	1.12	1,777.417		
400.0	400.0	454.4	454.4	0.7	0.8	177.77	1,574.4	1,220.0	1,992.6	1,991.2	1.47	1,353.595		
500.0	500.0	556.6	556.5	0.9	1.0	177.78	1,574.1	1,219.8	1,994.9	1,993.0	1.82	1,093.989		
600.0	599.9	666.4	666.4	1.0	1.2	177.77	1,573.8	1,219.1	1,998.7	1,996.5	2.19	913.476		
700.0	699.8	778.2	778.1	1.2	1.4	-176.58	1,572.9	1,218.2	2,001.9	1,999.3	2.56	782.519		
800.0	799.7	882.1	882.1	1.4	1.5	-161.20	1,571.3	1,217.4	2,003.0	2,000.1	2.92	687.080		
865.6	865.4	949.8	949.8	1.5	1.7	-129.03	1,570.1	1,217.1	2,002.7	1,999.6	3.15	636.189		
900.0	899.7	985.3	985.3	1.6	1.7	-129.04	1,569.5	1,216.9	2,002.3	1,999.1	3.27	612.316		
1,000.0	999.7	1,087.4	1,087.3	1.7	1.9	-129.06	1,567.9	1,215.8	2,001.2	1,997.6	3.62	552.352		
1,100.0	1,099.7	1,195.2	1,195.1	1.9	2.1	-129.10	1,566.4	1,214.1	1,999.8	1,995.8	3.99	501.795		
1,200.0	1,199.7	1,294.3	1,294.1	2.1	2.3	-129.15	1,565.1	1,211.9	1,998.2	1,993.9	4.33	461.216		
1,300.0	1,299.7	1,395.8	1,395.6	2.3	2.5	-129.22	1,564.1	1,209.4	1,996.7	1,992.0	4.68	426.256		
1,400.0	1,399.7	1,491.6	1,491.4	2.4	2.6	-129.30	1,563.5	1,206.6	1,995.1	1,990.1	5.03	396.933		
1,500.0	1,499.7	1,586.6	1,586.3	2.6	2.8	-129.38	1,563.2	1,203.9	1,993.8	1,988.5	5.37	371.474		
1,600.0	1,599.7	1,691.4	1,691.1	2.8	3.0	-129.46	1,562.7	1,201.2	1,992.6	1,986.9	5.73	347.992		
1,700.0	1,699.7	1,783.3	1,783.0	3.0	3.1	-129.54	1,562.5	1,198.5	1,991.4	1,985.3	6.06	328.460		
1,800.0	1,799.7	1,882.1	1,881.8	3.1	3.3	-129.63	1,562.6	1,195.7	1,990.5	1,984.1	6.41	310.446		
1,900.0	1,899.7	1,971.9	1,971.5	3.3	3.5	-129.70	1,562.5	1,193.7	1,989.8	1,983.0	6.74	295.017		
1,980.7	1,980.4	2,044.5	2,044.1	3.5	3.6	-129.75	1,562.6	1,192.3	1,989.6	1,982.6	7.01	283.682		
2,000.0	1,999.6	2,062.2	2,061.7	3.5	3.6	-129.76	1,562.7	1,192.0	1,989.6	1,982.5	7.08	281.085		
2,100.0	2,099.6	2,160.8	2,160.4	3.7	3.8	-129.83	1,563.2	1,190.5	1,989.8	1,982.4	7.43	267.928		
2,200.0	2,199.6	2,260.7	2,260.2	3.9	4.0	-129.88	1,563.2	1,189.4	1,989.9	1,982.2	7.78	255.893		
2,300.0	2,299.6	2,361.8	2,361.4	4.0	4.2	-129.93	1,563.1	1,188.5	1,990.1	1,982.0	8.13	244.829		
2,400.0	2,399.6	2,455.5	2,455.0	4.2	4.3	-129.97	1,563.2	1,187.5	1,990.3	1,981.8	8.47	235.030		
2,500.0	2,499.6	2,543.3	2,542.8	4.4	4.5	-130.04	1,564.0	1,186.4	1,991.0	1,982.2	8.80	226.294		
2,600.0	2,599.6	2,638.4	2,637.9	4.6	4.6	-130.12	1,565.7	1,185.0	1,992.3	1,983.1	9.14	217.926		
2,700.0	2,699.6	2,748.3	2,747.7	4.7	4.8	-130.23	1,567.7	1,182.9	1,993.3	1,983.8	9.51	209.553		
2,800.0	2,799.6	2,852.0	2,851.4	4.9	5.0	-130.34	1,569.2	1,180.6	1,993.9	1,984.1	9.87	201.991		
2,900.0	2,899.6	2,946.4	2,945.8	5.1	5.2	-130.41	1,570.3	1,179.1	1,994.7	1,984.4	10.21	195.302		
3,000.0	2,999.6	3,038.9	3,038.3	5.3	5.3	-130.48	1,571.4	1,178.1	1,995.7	1,985.2	10.55	189.144		
3,100.0	3,099.6	3,137.2	3,136.6	5.4	5.5	-130.54	1,572.7	1,177.4	1,997.1	1,986.2	10.90	183.233		
3,200.0	3,199.6	3,252.8	3,252.2	5.6	5.7	-130.61	1,573.8	1,176.6	1,998.2	1,986.9	11.28	177.189		
3,300.0	3,299.6	3,366.8	3,366.2	5.8	5.9	-130.66	1,573.7	1,175.5	1,998.3	1,986.7	11.65	171.502		
3,400.0	3,399.5	3,481.0	3,480.4	6.0	6.1	-130.71	1,573.0	1,174.0	1,997.9	1,985.9	12.03	166.125		
3,500.0	3,499.5	3,588.7	3,588.1	6.1	6.3	-130.75	1,571.7	1,172.6	1,996.8	1,984.4	12.39	161.173		
3,600.0	3,599.5	3,700.0	3,699.3	6.3	6.5	-130.78	1,569.4	1,171.1	1,995.1	1,982.3	12.76	156.393		
3,700.0	3,699.5	3,789.4	3,788.7	6.5	6.7	-130.78	1,567.1	1,170.4	1,993.4	1,980.3	13.09	152.326		
3,800.0	3,799.5	3,895.7	3,894.9	6.7	6.9	-130.77	1,564.7	1,169.9	1,992.0	1,978.6	13.45	148.161		
3,900.0	3,899.5	4,012.1	4,011.3	6.8	7.1	-130.79	1,561.8	1,168.3	1,990.0	1,976.2	13.82	143.965		
4,000.0	3,999.5	4,107.4	4,106.6	7.0	7.2	-130.79	1,559.1	1,167.2	1,987.7	1,973.6	14.16	140.354		
4,100.0	4,099.5	4,213.6	4,212.7	7.2	7.4	-130.79	1,555.8	1,166.1	1,985.4	1,970.8	14.52	136.718		
4,200.0	4,199.5	4,300.0	4,299.1	7.4	7.6	-130.80	1,553.5	1,164.8	1,983.1	1,968.2	14.85	133.567		
4,300.0	4,299.5	4,389.4	4,388.4	7.5	7.7	-130.83	1,551.7	1,163.5	1,981.4	1,966.2	15.18	130.543		
4,400.0	4,399.5	4,476.0	4,475.0	7.7	7.9	-130.86	1,550.6	1,162.5	1,980.5	1,965.0	15.50	127.735		
4,500.0	4,499.5	4,569.2	4,568.3	7.9	8.0	-130.89	1,550.0	1,161.6	1,980.1	1,964.3	15.84	124.986		
4,600.0	4,599.5	4,674.7	4,673.7	8.1	8.2	-130.93	1,549.4	1,160.5	1,979.8	1,963.6	16.20	122.195		
4,700.0	4,699.5	4,771.8	4,770.8	8.2	8.4	-130.97	1,548.6	1,159.4	1,979.3	1,962.7	16.55	119.618		
4,800.0	4,799.5	4,872.5	4,871.5	8.4	8.6	-131.01	1,548.0	1,158.4	1,979.0	1,962.1	16.90	117.111		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error: 0.0 ft	
Survey Program: 100-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,899.4	4,972.8	4,971.8	8.6	8.8	-131.06	1,547.5	1,157.1	1,978.5	1,961.3	17.25	114.703	
4,988.7	4,988.1	5,053.2	5,052.2	8.7	8.9	-131.10	1,547.4	1,155.9	1,978.3	1,960.7	17.55	112.752	
5,000.0	4,999.4	5,063.0	5,062.0	8.8	8.9	-131.11	1,547.4	1,155.7	1,978.3	1,960.7	17.58	112.514	
5,100.0	5,099.4	5,157.3	5,156.3	8.9	9.1	-131.16	1,547.6	1,154.6	1,978.6	1,960.7	17.92	110.395	
5,200.0	5,199.4	5,257.1	5,256.0	9.1	9.3	-131.21	1,547.8	1,153.7	1,979.0	1,960.7	18.27	108.299	
5,300.0	5,299.4	5,348.9	5,347.8	9.3	9.4	-131.27	1,548.3	1,152.6	1,979.5	1,960.8	18.61	106.366	
5,400.0	5,399.4	5,444.1	5,443.0	9.5	9.6	-131.34	1,549.5	1,151.4	1,980.5	1,961.6	18.95	104.498	
5,500.0	5,499.4	5,546.3	5,545.3	9.6	9.8	-131.41	1,550.5	1,150.2	1,981.4	1,962.1	19.31	102.621	
5,600.0	5,599.4	5,647.0	5,645.9	9.8	9.9	-131.50	1,551.9	1,148.7	1,982.4	1,962.7	19.66	100.830	
5,700.0	5,699.4	5,746.6	5,745.5	10.0	10.1	-131.57	1,552.9	1,147.3	1,983.2	1,963.2	20.01	99.102	
5,800.0	5,799.4	5,841.5	5,840.4	10.2	10.3	-131.65	1,554.2	1,146.0	1,984.3	1,963.9	20.35	97.486	
5,900.0	5,899.4	5,937.4	5,936.3	10.3	10.4	-131.73	1,555.7	1,144.6	1,985.5	1,964.8	20.70	95.921	
6,000.0	5,999.4	6,029.5	6,028.3	10.5	10.6	-131.81	1,557.4	1,143.5	1,987.1	1,966.1	21.04	94.457	
6,100.0	6,099.4	6,127.0	6,125.8	10.7	10.8	-131.88	1,559.2	1,142.8	1,989.0	1,967.6	21.38	93.012	
6,200.0	6,199.4	6,229.9	6,228.7	10.9	11.0	-131.95	1,561.1	1,142.1	1,990.9	1,969.1	21.74	91.572	
6,300.0	6,299.4	6,332.1	6,330.8	11.1	11.1	-132.03	1,562.8	1,141.1	1,992.5	1,970.4	22.10	90.172	
6,400.0	6,399.3	6,429.1	6,427.8	11.2	11.3	-132.10	1,564.6	1,140.4	1,994.3	1,971.9	22.44	88.862	
6,500.0	6,499.3	6,536.7	6,535.4	11.4	11.5	-132.19	1,566.5	1,139.0	1,995.8	1,973.0	22.81	87.503	
6,600.0	6,599.3	6,628.9	6,627.6	11.6	11.7	-132.26	1,568.1	1,137.8	1,997.4	1,974.2	23.15	86.290	
6,700.0	6,699.3	6,713.7	6,712.4	11.8	11.8	-132.34	1,570.3	1,136.9	1,999.6	1,976.1	23.47	85.186	
6,800.0	6,799.3	6,800.0	6,798.6	11.9	12.0	-132.42	1,573.0	1,136.2	2,002.5	1,978.7	23.80	84.134	
6,900.0	6,899.3	6,886.7	6,885.3	12.1	12.1	-132.49	1,576.0	1,136.2	2,006.1	1,982.0	24.13	83.141	
6,921.2	6,920.6	6,900.0	6,898.6	12.1	12.1	-132.50	1,576.5	1,136.2	2,007.0	1,982.8	24.19	82.967	
6,950.0	6,949.3	6,930.0	6,928.5	12.2	12.2	31.64	1,577.5	1,136.4	2,007.6	1,983.3	24.28	82.691	
7,000.0	6,999.1	6,972.9	6,971.4	12.3	12.2	34.26	1,579.2	1,136.9	2,006.0	1,981.6	24.35	82.389	
7,050.0	7,048.4	7,015.0	7,013.4	12.3	12.3	35.11	1,580.8	1,137.4	2,001.0	1,976.7	24.33	82.230	
7,100.0	7,096.7	7,055.4	7,053.9	12.4	12.4	35.95	1,582.5	1,138.0	1,992.7	1,968.5	24.25	82.190	
7,150.0	7,143.8	7,100.0	7,098.4	12.5	12.5	37.02	1,584.6	1,138.8	1,991.3	1,957.2	24.11	82.185	
7,200.0	7,189.2	7,130.6	7,129.0	12.5	12.5	38.25	1,586.2	1,139.5	1,996.7	1,942.8	23.91	82.264	
7,250.0	7,232.6	7,164.6	7,162.9	12.6	12.6	39.79	1,588.1	1,140.2	1,949.3	1,925.6	23.71	82.230	
7,300.0	7,273.7	7,200.0	7,198.2	12.7	12.6	41.68	1,590.2	1,141.1	1,929.1	1,905.6	23.53	81.976	
7,350.0	7,312.1	7,228.2	7,226.3	12.9	12.7	43.84	1,592.0	1,141.8	1,906.4	1,882.9	23.41	81.437	
7,400.0	7,347.6	7,257.3	7,255.3	13.1	12.7	46.42	1,594.0	1,142.8	1,881.3	1,857.9	23.40	80.402	
7,450.0	7,379.9	7,284.2	7,282.2	13.3	12.8	49.39	1,595.9	1,143.7	1,854.0	1,830.5	23.53	78.780	
7,500.0	7,408.8	7,314.9	7,312.8	13.5	12.8	52.94	1,598.1	1,144.9	1,824.9	1,801.0	23.88	76.426	
7,550.0	7,434.0	7,351.7	7,349.5	13.8	12.9	57.23	1,600.5	1,146.4	1,794.0	1,769.5	24.47	73.306	
7,600.0	7,455.3	7,383.0	7,380.7	14.2	12.9	61.94	1,602.4	1,147.7	1,761.6	1,736.3	25.25	69.765	
7,650.0	7,472.7	7,408.2	7,405.8	14.6	13.0	66.95	1,603.8	1,148.7	1,728.1	1,701.9	26.15	66.077	
7,700.0	7,485.8	7,427.1	7,424.7	15.0	13.0	72.13	1,604.8	1,149.5	1,693.9	1,666.8	27.10	62.500	
7,750.0	7,494.7	7,440.6	7,438.2	15.5	13.0	77.34	1,605.5	1,150.0	1,659.4	1,631.4	28.03	59.208	
7,800.0	7,499.3	7,448.8	7,446.4	16.0	13.1	82.41	1,605.9	1,150.4	1,624.9	1,596.1	28.86	56.300	
7,827.7	7,500.0	7,451.1	7,448.6	16.3	13.1	85.10	1,606.0	1,150.5	1,606.0	1,576.7	29.27	54.859	
7,900.0	7,500.0	7,455.0	7,452.5	17.2	13.1	85.29	1,606.2	1,150.6	1,557.6	1,527.5	30.11	51.727	
8,000.0	7,500.0	7,460.1	7,457.6	18.4	13.1	85.54	1,606.4	1,150.8	1,493.9	1,462.6	31.35	47.647	
8,100.0	7,500.0	7,465.0	7,462.5	19.7	13.1	85.78	1,606.6	1,151.0	1,434.3	1,401.7	32.68	43.897	
8,200.0	7,500.0	7,469.8	7,467.3	21.1	13.1	86.01	1,606.8	1,151.2	1,379.4	1,345.4	34.06	40.500	
8,300.0	7,500.0	7,474.4	7,471.8	22.5	13.1	86.24	1,607.0	1,151.4	1,329.8	1,294.3	35.50	37.460	
8,400.0	7,500.0	7,478.8	7,476.3	24.0	13.1	86.45	1,607.2	1,151.6	1,286.0	1,249.0	36.98	34.775	
8,500.0	7,500.0	7,483.1	7,480.5	25.5	13.1	86.66	1,607.4	1,151.8	1,248.7	1,210.2	38.50	32.435	
8,600.0	7,500.0	7,487.2	7,484.6	27.0	13.1	86.86	1,607.6	1,152.0	1,218.4	1,178.4	40.04	30.427	
8,700.0	7,500.0	7,491.2	7,488.6	28.6	13.1	87.05	1,607.7	1,152.2	1,195.8	1,154.2	41.62	28.733	
8,800.0	7,500.0	7,495.0	7,492.5	30.2	13.1	87.24	1,607.9	1,152.3	1,181.2	1,138.0	43.21	27.336	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8,900.0	7,500.0	7,500.0	7,497.4	31.8	13.1	87.48	1,608.1	1,152.5	1,174.9	1,130.1	44.82	26.212	
8,923.7	7,500.0	7,500.0	7,497.4	32.1	13.1	87.48	1,608.1	1,152.5	1,174.7	1,129.5	45.21	25.985 CC, ES	
9,000.0	7,500.0	7,502.7	7,500.1	33.4	13.2	87.62	1,608.2	1,152.7	1,177.2	1,130.7	46.45	25.344	
9,027.7	7,500.0	7,503.8	7,501.3	33.8	13.2	87.67	1,608.2	1,152.7	1,179.3	1,132.4	46.90	25.144	
9,100.0	7,500.0	7,506.7	7,504.1	35.0	13.2	87.81	1,608.3	1,152.8	1,187.8	1,139.8	48.09	24.701	
9,127.7	7,500.0	7,507.8	7,505.2	35.5	13.2	87.86	1,608.4	1,152.9	1,192.3	1,143.7	48.54	24.560	
9,200.0	7,500.0	7,510.5	7,508.0	36.6	13.2	87.99	1,608.5	1,153.0	1,207.2	1,157.4	49.74	24.271	
9,300.0	7,500.0	7,514.2	7,511.6	38.3	13.2	88.16	1,608.6	1,153.2	1,235.9	1,184.5	51.39	24.050	
9,400.0	7,500.0	7,517.7	7,515.1	40.0	13.2	88.32	1,608.7	1,153.3	1,273.4	1,220.4	53.04	24.010 SF	
9,427.7	7,500.0	7,518.6	7,516.0	40.4	13.2	88.36	1,608.8	1,153.3	1,285.3	1,231.8	53.49	24.027	
9,500.0	7,500.0	7,521.0	7,518.4	41.6	13.2	88.48	1,608.8	1,153.4	1,318.6	1,263.9	54.71	24.104	
9,600.0	7,500.0	7,524.3	7,521.6	43.3	13.2	88.64	1,609.0	1,153.6	1,369.7	1,313.3	56.39	24.289	
9,700.0	7,500.0	7,527.4	7,524.8	45.0	13.2	88.80	1,609.1	1,153.7	1,426.0	1,367.9	58.08	24.551	
9,800.0	7,500.0	7,530.5	7,527.9	46.7	13.2	88.95	1,609.2	1,153.8	1,486.8	1,427.0	59.78	24.873	
9,900.0	7,500.0	7,533.5	7,530.8	48.4	13.2	89.10	1,609.3	1,154.0	1,551.7	1,490.2	61.48	25.241	
10,000.0	7,500.0	7,536.4	7,533.8	50.1	13.2	89.24	1,609.4	1,154.1	1,620.2	1,557.0	63.18	25.644	
10,100.0	7,500.0	7,539.2	7,536.6	51.8	13.2	89.38	1,609.5	1,154.2	1,691.8	1,626.9	64.89	26.072	
10,200.0	7,500.0	7,542.0	7,539.4	53.5	13.2	89.52	1,609.6	1,154.3	1,766.2	1,699.6	66.60	26.519	
10,300.0	7,500.0	7,544.7	7,542.1	55.2	13.2	89.66	1,609.6	1,154.4	1,843.0	1,774.7	68.32	26.978	
10,400.0	7,500.0	7,547.3	7,544.7	56.9	13.2	89.79	1,609.7	1,154.5	1,921.9	1,851.9	70.03	27.443	
10,500.0	7,500.0	7,549.9	7,547.3	58.6	13.2	89.91	1,609.8	1,154.6	2,002.7	1,931.0	71.75	27.912	
10,600.0	7,500.0	7,552.4	7,549.8	60.3	13.2	90.04	1,609.9	1,154.7	2,085.2	2,011.7	73.47	28.380	
10,627.7	7,500.0	7,553.1	7,550.5	60.8	13.2	90.07	1,609.9	1,154.8	2,108.3	2,034.4	73.95	28.510	
10,700.0	7,500.0	7,554.9	7,552.3	62.0	13.2	90.16	1,610.0	1,154.8	2,168.9	2,093.7	75.21	28.837	
10,800.0	7,500.0	7,557.4	7,554.7	63.7	13.2	90.27	1,610.0	1,154.9	2,253.0	2,176.1	76.95	29.281	
10,900.0	7,500.0	7,559.9	7,557.2	65.5	13.2	90.38	1,610.1	1,155.0	2,337.5	2,258.9	78.66	29.716	
11,000.0	7,500.0	7,562.3	7,559.7	67.2	13.3	90.48	1,610.2	1,155.1	2,422.3	2,341.9	80.36	30.143	
11,023.0	7,500.0	7,562.9	7,560.2	67.6	13.3	90.50	1,610.2	1,155.1	2,441.9	2,361.1	80.75	30.240	
11,100.0	7,500.0	7,564.8	7,562.1	68.9	13.3	90.58	1,610.3	1,155.2	2,507.6	2,425.5	82.08	30.551	
11,200.0	7,500.0	7,567.2	7,564.5	70.6	13.3	90.69	1,610.3	1,155.3	2,593.9	2,510.1	83.80	30.951	
11,300.0	7,500.0	7,569.6	7,566.9	72.3	13.3	90.80	1,610.4	1,155.4	2,681.1	2,595.6	85.53	31.346	
11,400.0	7,500.0	7,571.9	7,569.2	74.1	13.3	90.90	1,610.5	1,155.5	2,769.2	2,681.9	87.26	31.735	
11,500.0	7,500.0	7,574.1	7,571.4	75.8	13.3	91.00	1,610.5	1,155.6	2,858.1	2,769.1	88.99	32.117	
11,600.0	7,500.0	7,576.3	7,573.6	77.5	13.3	91.09	1,610.6	1,155.7	2,947.7	2,857.0	90.72	32.492	
11,700.0	7,500.0	7,578.5	7,575.8	79.3	13.3	91.19	1,610.7	1,155.7	3,037.9	2,945.5	92.45	32.860	
11,800.0	7,500.0	7,580.6	7,577.9	81.0	13.3	91.28	1,610.7	1,155.8	3,128.7	3,034.6	94.18	33.220	
11,900.0	7,500.0	7,582.6	7,579.9	82.7	13.3	91.37	1,610.8	1,155.9	3,220.1	3,124.2	95.91	33.573	
12,000.0	7,500.0	7,584.6	7,582.0	84.5	13.3	91.46	1,610.8	1,156.0	3,312.0	3,214.3	97.65	33.918	
12,100.0	7,500.0	7,586.6	7,583.9	86.2	13.3	91.55	1,610.9	1,156.0	3,404.3	3,304.9	99.38	34.255	
12,200.0	7,500.0	7,600.0	7,597.3	87.9	13.3	92.14	1,611.2	1,156.5	3,497.1	3,396.0	101.11	34.588	
12,300.0	7,500.0	7,600.0	7,597.3	89.7	13.3	92.14	1,611.2	1,156.5	3,590.2	3,487.4	102.84	34.910	
12,400.0	7,500.0	7,600.0	7,597.3	91.4	13.3	92.14	1,611.2	1,156.5	3,683.7	3,579.1	104.58	35.225	
12,500.0	7,500.0	7,600.0	7,597.3	93.1	13.3	92.14	1,611.2	1,156.5	3,777.5	3,671.2	106.31	35.532	
12,600.0	7,500.0	7,600.0	7,597.3	94.9	13.3	92.14	1,611.2	1,156.5	3,871.7	3,763.6	108.05	35.832	
12,700.0	7,500.0	7,600.0	7,597.3	96.6	13.3	92.14	1,611.2	1,156.5	3,966.1	3,856.3	109.79	36.125	
12,800.0	7,500.0	7,600.0	7,597.3	98.3	13.3	92.14	1,611.2	1,156.5	4,060.8	3,949.2	111.52	36.412	
12,900.0	7,500.0	7,601.7	7,599.0	100.1	13.3	92.22	1,611.3	1,156.6	4,155.7	4,042.4	113.26	36.692	
13,000.0	7,500.0	7,604.5	7,601.8	101.8	13.3	92.34	1,611.3	1,156.7	4,250.9	4,135.9	114.99	36.966	
13,100.0	7,500.0	7,607.2	7,604.5	103.6	13.3	92.46	1,611.4	1,156.8	4,346.2	4,229.5	116.73	37.234	
13,200.0	7,500.0	7,610.0	7,607.2	105.3	13.3	92.58	1,611.5	1,156.9	4,441.8	4,323.4	118.46	37.496	
13,300.0	7,500.0	7,612.7	7,610.0	107.0	13.3	92.71	1,611.5	1,157.0	4,537.6	4,417.4	120.19	37.752	
13,400.0	7,500.0	7,615.5	7,612.7	108.8	13.3	92.83	1,611.6	1,157.1	4,633.5	4,511.6	121.93	38.002	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY				Offset Site Error:		0.0 ft	
Survey Program:		100-MWD										Offset Well Error:		0.0 ft			
Reference		Offset		Semi Major Axis			Distance							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)							
13,500.0	7,500.0	7,618.2	7,615.5	110.5	13.3	92.95	1,611.7	1,157.2	4,729.7	4,606.0	123.66	38.247					
13,600.0	7,500.0	7,621.0	7,618.3	112.3	13.4	93.07	1,611.7	1,157.3	4,825.9	4,700.5	125.39	38.487					
13,700.0	7,500.0	7,623.8	7,621.0	114.0	13.4	93.19	1,611.8	1,157.4	4,922.3	4,795.2	127.12	38.721					
13,800.0	7,500.0	7,626.5	7,623.8	115.7	13.4	93.32	1,611.9	1,157.5	5,018.9	4,890.0	128.85	38.950					
13,900.0	7,500.0	7,629.3	7,626.6	117.5	13.4	93.44	1,611.9	1,157.6	5,115.6	4,985.0	130.58	39.175					
14,000.0	7,500.0	7,632.1	7,629.4	119.2	13.4	93.56	1,612.0	1,157.7	5,212.4	5,080.1	132.31	39.394					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 41-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	104.6	104.6	0.0	0.2	36.19	1,584.2	1,158.8	1,963.5				
100.0	100.0	304.0	303.7	0.2	0.6	36.24	1,574.8	1,154.2	1,958.3	1,957.6	0.70	2,803.471	
200.0	200.0	501.9	500.3	0.3	1.1	36.46	1,553.9	1,148.3	1,948.1	1,946.8	1.24	1,571.167	
300.0	300.0	615.3	612.5	0.5	1.5	36.69	1,537.8	1,145.7	1,935.3	1,933.6	1.62	1,195.887	
400.0	400.0	754.9	750.0	0.7	1.9	177.07	1,513.7	1,143.2	1,921.0	1,918.9	2.13	903.885	
500.0	500.0	868.5	861.5	0.9	2.4	177.44	1,491.9	1,141.7	1,907.4	1,904.8	2.58	739.947	
600.0	599.9	941.9	933.7	1.0	2.6	177.69	1,478.3	1,141.3	1,896.5	1,893.5	2.94	645.941	
700.0	699.8	1,088.6	1,077.6	1.2	3.2	-176.18	1,450.1	1,140.2	1,885.3	1,881.8	3.49	539.607	
800.0	799.7	1,319.0	1,301.1	1.4	4.3	-159.94	1,394.4	1,134.5	1,867.4	1,863.1	4.34	430.176	
865.6	865.4	1,409.5	1,387.7	1.5	4.7	-127.39	1,368.5	1,131.1	1,851.9	1,847.1	4.74	390.299	
900.0	899.7	1,453.9	1,430.0	1.6	5.0	-127.18	1,355.3	1,129.3	1,843.3	1,838.3	4.96	371.981	
1,000.0	999.7	1,579.5	1,549.3	1.7	5.7	-126.52	1,316.2	1,124.4	1,817.2	1,811.6	5.58	325.601	
1,100.0	1,099.7	1,721.5	1,683.1	1.9	6.6	-125.69	1,269.0	1,118.6	1,789.6	1,783.3	6.32	283.318	
1,200.0	1,199.7	1,901.9	1,849.8	2.1	7.8	-124.43	1,200.9	1,109.4	1,757.6	1,750.3	7.31	240.461	
1,300.0	1,299.7	2,012.3	1,950.4	2.3	8.6	-123.52	1,155.6	1,104.3	1,724.1	1,716.0	8.05	214.185	
1,400.0	1,399.7	2,116.4	2,044.8	2.4	9.4	-122.62	1,112.0	1,098.7	1,689.6	1,680.8	8.79	192.189	
1,500.0	1,499.7	2,249.9	2,164.4	2.6	10.5	-121.30	1,053.0	1,092.6	1,654.4	1,644.6	9.79	168.999	
1,600.0	1,599.7	2,360.1	2,261.7	2.8	11.4	-120.11	1,001.8	1,086.6	1,617.1	1,606.4	10.68	151.373	
1,700.0	1,699.7	2,441.3	2,333.8	3.0	12.1	-119.22	964.6	1,081.4	1,580.3	1,568.9	11.40	138.657	
1,800.0	1,799.7	2,513.8	2,398.3	3.1	12.6	-118.40	931.9	1,077.1	1,544.6	1,532.6	12.07	128.004	
1,900.0	1,899.7	2,591.8	2,468.2	3.3	13.2	-117.51	897.5	1,072.9	1,510.5	1,497.8	12.78	118.219	
2,000.0	1,999.6	2,687.0	2,553.8	3.5	14.0	-116.43	856.4	1,066.7	1,476.9	1,463.3	13.61	108.498	
2,100.0	2,099.6	2,764.3	2,623.2	3.7	14.6	-115.49	822.7	1,062.1	1,443.8	1,429.4	14.36	100.570	
2,200.0	2,199.6	2,839.7	2,691.3	3.9	15.2	-114.54	790.4	1,058.8	1,412.7	1,397.6	15.10	93.532	
2,300.0	2,299.6	2,970.3	2,808.4	4.0	16.2	-112.83	733.2	1,050.5	1,380.0	1,363.7	16.30	84.675	
2,400.0	2,399.6	3,069.1	2,897.0	4.2	17.0	-111.49	690.0	1,043.2	1,347.5	1,330.2	17.26	78.089	
2,500.0	2,499.6	3,152.7	2,972.1	4.4	17.6	-110.35	653.9	1,036.1	1,315.3	1,297.2	18.10	72.660	
2,600.0	2,599.6	3,259.0	3,067.5	4.6	18.5	-108.83	607.9	1,027.2	1,283.5	1,264.4	19.17	66.942	
2,700.0	2,699.6	3,330.6	3,131.5	4.7	19.1	-107.72	576.4	1,021.5	1,252.4	1,232.4	19.99	62.639	
2,800.0	2,799.6	3,433.0	3,223.0	4.9	19.9	-106.06	531.2	1,013.7	1,222.3	1,201.2	21.11	57.897	
2,900.0	2,899.6	3,521.0	3,301.6	5.1	20.6	-104.56	492.1	1,006.9	1,192.7	1,170.6	22.14	53.879	
3,000.0	2,999.6	3,595.1	3,367.8	5.3	21.2	-103.23	459.1	1,002.1	1,165.0	1,142.0	23.06	50.529	
3,100.0	3,099.6	3,700.1	3,461.6	5.4	22.0	-101.27	412.6	994.9	1,138.2	1,113.9	24.29	46.856	
3,200.0	3,199.6	3,793.3	3,545.2	5.6	22.7	-99.53	372.2	987.0	1,111.5	1,086.1	25.39	43.778	
3,300.0	3,299.6	3,878.9	3,622.8	5.8	23.4	-97.97	336.7	978.9	1,086.0	1,059.6	26.38	41.167	
3,400.0	3,399.5	3,957.0	3,693.9	6.0	24.0	-96.54	305.3	971.7	1,062.0	1,034.7	27.31	38.894	
3,500.0	3,499.5	4,045.0	3,774.0	6.1	24.6	-94.84	269.8	964.6	1,040.1	1,011.7	28.36	36.673	
3,600.0	3,599.5	4,132.0	3,853.0	6.3	25.3	-93.04	233.9	958.3	1,019.7	990.2	29.44	34.637	
3,700.0	3,699.5	4,200.7	3,915.2	6.5	25.8	-91.54	204.9	954.3	1,001.5	971.2	30.36	32.988	
3,800.0	3,799.5	4,288.0	3,994.1	6.7	26.5	-89.53	167.6	951.0	986.4	954.9	31.49	31.325	
3,900.0	3,899.5	4,373.8	4,071.7	6.8	27.1	-87.52	131.3	947.7	972.9	940.3	32.58	29.861	
4,000.0	3,999.5	4,483.2	4,170.0	7.0	28.0	-84.82	83.6	943.3	960.7	926.7	33.98	28.272	
4,100.0	4,099.5	4,586.9	4,261.4	7.2	28.9	-81.99	34.9	937.6	948.4	913.1	35.34	26.834	
4,200.0	4,199.5	4,670.5	4,335.1	7.4	29.6	-79.68	-4.3	932.6	937.9	901.4	36.43	25.746	
4,300.0	4,299.5	4,743.0	4,399.9	7.5	30.1	-77.75	-36.5	929.1	930.5	893.2	37.32	24.933	
4,400.0	4,399.5	4,832.8	4,481.8	7.7	30.8	-75.54	-73.2	925.4	926.0	887.7	38.27	24.193	
4,500.0	4,499.5	4,928.0	4,570.1	7.9	31.4	-73.41	-108.5	921.8	923.1	884.0	39.17	23.568	
4,600.0	4,599.5	5,034.9	4,670.8	8.1	32.0	-71.24	-144.2	916.6	920.4	880.4	40.04	22.985	
4,700.0	4,699.5	5,126.1	4,757.4	8.2	32.5	-69.52	-172.4	912.3	918.7	878.0	40.74	22.550	
4,800.0	4,799.5	5,223.5	4,851.1	8.4	33.0	-67.92	-198.8	908.3	918.1	876.7	41.38	22.185	
4,886.3	4,885.7	5,308.4	4,933.5	8.6	33.3	-66.71	-218.8	905.2	917.9	876.0	41.87	21.923	
4,900.0	4,899.4	5,321.6	4,946.4	8.6	33.4	-66.54	-221.6	904.7	917.9	875.9	41.94	21.887	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
5,000.0	4,999.4	5,420.4	5,043.4	8.8	33.7	-65.44	-240.1	902.0	918.2	875.7	42.42	21.643	
5,100.0	5,099.4	5,525.1	5,146.7	8.9	34.0	-64.43	-257.1	899.2	918.4	875.5	42.89	21.413	
5,200.0	5,199.4	5,634.2	5,254.8	9.1	34.3	-63.62	-270.9	896.2	918.0	874.7	43.28	21.209	
5,300.0	5,299.4	5,740.2	5,360.4	9.3	34.5	-63.05	-280.7	893.0	916.7	873.1	43.63	21.010	
5,400.0	5,399.4	5,837.7	5,457.7	9.5	34.6	-62.72	-286.5	890.6	915.3	871.3	43.92	20.838	
5,500.0	5,499.4	5,941.0	5,560.9	9.6	34.7	-62.54	-290.2	889.0	914.1	869.9	44.19	20.685	
5,600.0	5,599.4	6,048.5	5,668.4	9.8	34.8	-62.50	-291.5	887.0	912.1	867.6	44.44	20.526	
5,700.0	5,699.4	6,147.2	5,767.0	10.0	34.8	-62.55	-291.3	885.2	909.7	865.1	44.67	20.365	
5,800.0	5,799.4	6,246.8	5,866.6	10.2	34.9	-62.59	-291.3	883.5	907.5	862.6	44.91	20.206	
5,900.0	5,899.4	6,346.3	5,966.1	10.3	35.0	-62.62	-291.4	881.8	905.3	860.2	45.15	20.050	
6,000.0	5,999.4	6,445.4	6,065.2	10.5	35.0	-62.65	-291.5	880.1	903.2	857.8	45.39	19.897	
6,100.0	6,099.4	6,542.7	6,162.5	10.7	35.1	-62.69	-291.6	878.7	901.3	855.6	45.63	19.753	
6,200.0	6,199.4	6,638.7	6,258.5	10.9	35.1	-62.76	-291.2	877.7	899.7	853.9	45.85	19.622	
6,300.0	6,299.4	6,737.7	6,357.5	11.1	35.2	-62.85	-290.7	877.2	898.5	852.4	46.09	19.495	
6,400.0	6,399.3	6,837.9	6,457.6	11.2	35.2	-62.92	-290.3	876.6	897.3	850.9	46.33	19.368	
6,500.0	6,499.3	6,938.5	6,558.2	11.4	35.3	-62.98	-290.3	875.8	896.0	849.4	46.57	19.240	
6,600.0	6,599.3	7,039.5	6,659.3	11.6	35.4	-63.03	-290.3	875.0	894.7	847.9	46.82	19.111	
6,700.0	6,699.3	7,141.8	6,761.5	11.8	35.4	-63.07	-290.5	873.8	893.1	846.1	47.07	18.976	
6,800.0	6,799.3	7,243.3	6,863.0	11.9	35.5	-63.10	-290.8	872.5	891.4	844.0	47.32	18.839	
6,900.0	6,899.3	7,344.1	6,963.8	12.1	35.6	-63.13	-291.1	871.0	889.5	841.9	47.57	18.700	
6,921.2	6,920.6	7,365.6	6,985.3	12.1	35.6	-63.13	-291.2	870.7	889.1	841.4	47.62	18.670	
6,950.0	6,949.3	7,395.0	7,014.7	12.2	35.6	101.13	-291.2	870.2	888.7	841.0	47.68	18.637	
6,967.8	6,967.1	7,413.1	7,032.8	12.2	35.6	102.80	-291.3	869.9	888.6	840.9	47.72	18.623 CC, ES	
7,000.0	6,999.1	7,445.9	7,065.6	12.3	35.7	103.89	-291.4	869.3	888.8	841.1	47.77	18.608 SF	
7,050.0	7,048.4	7,496.2	7,115.9	12.3	35.7	104.77	-291.4	868.4	890.1	842.3	47.82	18.614	
7,100.0	7,096.7	7,545.5	7,165.2	12.4	35.7	105.51	-291.5	867.5	892.6	844.8	47.84	18.658	
7,150.0	7,143.8	7,592.6	7,212.3	12.5	35.8	106.23	-291.5	866.6	896.5	848.7	47.83	18.744	
7,200.0	7,189.2	7,638.2	7,257.8	12.5	35.8	106.95	-291.4	865.7	902.1	854.3	47.80	18.872	
7,250.0	7,232.6	7,681.7	7,301.4	12.6	35.8	107.61	-291.4	864.9	909.4	861.6	47.75	19.044	
7,300.0	7,273.7	7,723.1	7,342.7	12.7	35.8	108.18	-291.3	864.1	918.7	871.0	47.71	19.258	
7,350.0	7,312.1	7,762.1	7,381.8	12.9	35.9	108.60	-291.2	863.4	930.3	882.6	47.68	19.513	
7,400.0	7,347.6	7,798.3	7,418.0	13.1	35.9	108.78	-291.1	862.7	944.2	896.5	47.69	19.800	
7,450.0	7,379.9	7,831.4	7,451.0	13.3	35.9	108.68	-290.9	862.0	960.6	912.9	47.77	20.111	
7,500.0	7,408.8	7,861.0	7,480.6	13.5	35.9	108.21	-290.8	861.4	979.6	931.7	47.94	20.433	
7,550.0	7,434.0	7,886.0	7,505.6	13.8	35.9	107.26	-290.6	861.0	1,001.3	953.0	48.25	20.752	
7,600.0	7,455.3	7,907.5	7,527.1	14.2	36.0	105.82	-290.4	860.5	1,025.4	976.8	48.69	21.062	
7,650.0	7,472.7	7,924.3	7,543.9	14.6	36.0	103.77	-290.3	860.3	1,052.1	1,002.8	49.27	21.355	
7,700.0	7,485.8	7,937.1	7,556.7	15.0	36.0	101.11	-290.2	860.0	1,081.1	1,031.1	49.96	21.637	
7,750.0	7,494.7	7,946.0	7,565.6	15.5	36.0	97.78	-290.1	859.9	1,112.1	1,061.3	50.72	21.925	
7,800.0	7,499.3	7,950.8	7,570.4	16.0	36.0	93.79	-290.1	859.8	1,144.8	1,093.3	51.46	22.245	
7,827.7	7,500.0	7,951.6	7,571.2	16.3	36.0	91.30	-290.1	859.8	1,163.6	1,111.8	51.83	22.451	
7,900.0	7,500.0	7,952.2	7,571.8	17.2	36.0	91.34	-290.1	859.8	1,214.2	1,161.6	52.66	23.059	
8,000.0	7,500.0	7,953.0	7,572.7	18.4	36.0	91.40	-290.1	859.8	1,287.7	1,233.8	53.88	23.897	
8,100.0	7,500.0	7,953.9	7,573.5	19.7	36.0	91.45	-290.1	859.8	1,364.5	1,309.3	55.19	24.723	
8,200.0	7,500.0	7,954.7	7,574.3	21.1	36.0	91.51	-290.1	859.8	1,444.2	1,387.6	56.56	25.532	
8,300.0	7,500.0	7,955.5	7,575.1	22.5	36.0	91.56	-290.1	859.8	1,526.3	1,468.3	57.99	26.320	
8,400.0	7,500.0	7,956.4	7,576.0	24.0	36.0	91.62	-290.1	859.8	1,610.4	1,550.9	59.46	27.085	
8,500.0	7,500.0	7,957.2	7,576.8	25.5	36.0	91.68	-290.0	859.7	1,696.2	1,635.3	60.96	27.824	
8,600.0	7,500.0	7,958.0	7,577.6	27.0	36.0	91.73	-290.0	859.7	1,783.5	1,721.0	62.50	28.538	
8,700.0	7,500.0	7,958.9	7,578.5	28.6	36.0	91.79	-290.0	859.7	1,872.1	1,808.0	64.05	29.226	
8,800.0	7,500.0	7,959.7	7,579.3	30.2	36.0	91.85	-290.0	859.7	1,961.8	1,896.1	65.64	29.889	
8,900.0	7,500.0	7,960.6	7,580.2	31.8	36.0	91.90	-290.0	859.7	2,052.4	1,985.2	67.23	30.527	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 41-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,000.0	7,500.0	7,961.4	7,581.0	33.4	36.0	91.96	-290.0	859.7	2,143.9	2,075.0	68.85	31.140	
9,027.7	7,500.0	7,961.6	7,581.3	33.8	36.0	91.98	-290.0	859.7	2,169.4	2,100.1	69.30	31.305	
9,100.0	7,500.0	7,962.3	7,581.9	35.0	36.0	92.02	-290.0	859.7	2,236.0	2,165.6	70.47	31.729	
9,127.7	7,500.0	7,962.5	7,582.1	35.5	36.0	92.03	-290.0	859.7	2,261.7	2,190.8	70.93	31.888	
9,200.0	7,500.0	7,963.1	7,582.7	36.6	36.0	92.14	-290.0	859.7	2,329.0	2,257.0	72.03	32.332	
9,300.0	7,500.0	7,964.0	7,583.6	38.3	36.0	92.32	-290.0	859.6	2,423.2	2,349.6	73.56	32.941	
9,400.0	7,500.0	7,964.9	7,584.5	40.0	36.0	92.52	-290.0	859.6	2,518.3	2,443.2	75.07	33.544	
9,427.7	7,500.0	7,965.2	7,584.8	40.4	36.0	92.58	-290.0	859.6	2,544.8	2,469.3	75.49	33.710	
9,500.0	7,500.0	7,965.8	7,585.5	41.6	36.0	92.63	-290.0	859.6	2,614.1	2,537.4	76.70	34.085	
9,600.0	7,500.0	7,966.8	7,586.4	43.3	36.0	92.70	-290.0	859.6	2,710.3	2,631.9	78.37	34.585	
9,700.0	7,500.0	7,967.7	7,587.3	45.0	36.0	92.78	-290.0	859.6	2,806.8	2,726.7	80.04	35.066	
9,800.0	7,500.0	7,968.7	7,588.3	46.7	36.0	92.85	-289.9	859.6	2,903.4	2,821.7	81.72	35.527	
9,900.0	7,500.0	7,969.6	7,589.2	48.4	36.0	92.92	-289.9	859.6	3,000.3	2,916.9	83.41	35.970	
10,000.0	7,500.0	7,970.5	7,590.1	50.1	36.0	93.00	-289.9	859.6	3,097.4	3,012.3	85.10	36.396	
10,100.0	7,500.0	7,971.5	7,591.1	51.8	36.0	93.07	-289.9	859.5	3,194.7	3,107.9	86.80	36.807	
10,200.0	7,500.0	7,972.4	7,592.0	53.5	36.0	93.14	-289.9	859.5	3,292.1	3,203.6	88.49	37.202	
10,300.0	7,500.0	7,973.4	7,593.0	55.2	36.0	93.22	-289.9	859.5	3,389.7	3,299.5	90.19	37.582	
10,400.0	7,500.0	7,974.3	7,593.9	56.9	36.0	93.29	-289.9	859.5	3,487.4	3,395.5	91.90	37.949	
10,500.0	7,500.0	7,975.3	7,594.9	58.6	36.0	93.37	-289.9	859.5	3,585.3	3,491.7	93.60	38.303	
10,600.0	7,500.0	7,976.2	7,595.8	60.3	36.0	93.44	-289.9	859.5	3,683.2	3,587.9	95.31	38.644	
10,627.7	7,500.0	7,976.5	7,596.1	60.8	36.0	93.46	-289.9	859.5	3,710.4	3,614.6	95.79	38.737	
10,700.0	7,500.0	7,977.2	7,596.8	62.0	36.0	93.31	-289.9	859.5	3,781.2	3,684.1	97.14	38.924	
10,800.0	7,500.0	7,978.1	7,597.7	63.7	36.0	93.11	-289.9	859.5	3,879.0	3,780.0	99.00	39.182	
10,900.0	7,500.0	7,979.0	7,598.6	65.5	36.0	92.94	-289.9	859.4	3,976.4	3,875.6	100.82	39.440	
11,000.0	7,500.0	7,979.9	7,599.5	67.2	36.0	92.79	-289.8	859.4	4,073.7	3,971.0	102.62	39.696	
11,023.0	7,500.0	7,980.1	7,599.7	67.6	36.0	92.76	-289.8	859.4	4,096.0	3,993.0	103.03	39.755	
11,100.0	7,500.0	7,980.8	7,600.4	68.9	36.0	92.80	-289.8	859.4	4,170.7	4,066.4	104.35	39.968	
11,200.0	7,500.0	7,981.7	7,601.3	70.6	36.0	92.85	-289.8	859.4	4,267.9	4,161.9	106.07	40.237	
11,300.0	7,500.0	7,982.6	7,602.2	72.3	36.0	92.90	-289.8	859.4	4,365.3	4,257.5	107.79	40.498	
11,400.0	7,500.0	7,983.5	7,603.1	74.1	36.0	92.95	-289.8	859.4	4,462.7	4,353.2	109.51	40.751	
11,500.0	7,500.0	7,984.4	7,604.0	75.8	36.0	93.00	-289.8	859.4	4,560.2	4,449.0	111.23	40.998	
11,600.0	7,500.0	7,985.3	7,604.9	77.5	36.0	93.05	-289.8	859.4	4,657.9	4,544.9	112.95	41.237	
11,700.0	7,500.0	7,986.2	7,605.8	79.3	36.0	93.11	-289.8	859.4	4,755.6	4,641.0	114.68	41.470	
11,800.0	7,500.0	7,987.1	7,606.7	81.0	36.0	93.16	-289.8	859.3	4,853.5	4,737.1	116.40	41.697	
11,900.0	7,500.0	7,988.0	7,607.6	82.7	36.0	93.21	-289.8	859.3	4,951.4	4,833.3	118.12	41.917	
12,000.0	7,500.0	7,988.9	7,608.5	84.5	36.0	93.26	-289.8	859.3	5,049.4	4,929.6	119.85	42.131	
12,100.0	7,500.0	7,989.8	7,609.4	86.2	36.0	93.32	-289.8	859.3	5,147.5	5,025.9	121.57	42.340	
12,200.0	7,500.0	7,990.7	7,610.4	87.9	36.0	93.37	-289.8	859.3	5,245.7	5,122.4	123.30	42.544	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	33.2	33.2	0.0	0.1	44.65	801.4	791.8	1,126.6					
100.0	100.0	122.4	122.4	0.2	0.2	44.68	801.6	792.9	1,127.6	1,127.2	0.37	3,061.738		
200.0	200.0	220.8	220.8	0.3	0.4	44.74	801.9	794.8	1,129.2	1,128.5	0.72	1,573.659		
300.0	300.0	333.0	332.9	0.5	0.6	44.79	802.1	796.1	1,130.1	1,129.0	1.09	1,039.337		
400.0	400.0	436.3	436.2	0.7	0.8	-175.21	802.2	796.3	1,131.2	1,129.7	1.44	786.650		
500.0	500.0	535.8	535.8	0.9	0.9	-175.24	802.6	796.2	1,134.0	1,132.3	1.79	635.248		
600.0	599.9	639.5	639.5	1.0	1.1	-175.26	802.7	796.1	1,138.4	1,136.2	2.14	532.041		
700.0	699.8	744.3	744.2	1.2	1.3	-169.64	802.7	795.8	1,142.5	1,140.0	2.50	457.369		
800.0	799.7	848.3	848.3	1.4	1.5	-154.35	802.5	794.6	1,144.2	1,141.3	2.85	400.807		
865.6	865.4	912.4	912.3	1.5	1.6	-122.24	802.7	793.7	1,144.4	1,141.3	3.08	371.403		
900.0	899.7	948.4	948.4	1.6	1.7	-122.28	802.7	793.2	1,144.3	1,141.1	3.20	357.107		
1,000.0	999.7	1,050.4	1,050.4	1.7	1.8	-122.36	802.4	792.0	1,143.9	1,140.3	3.56	321.531		
1,100.0	1,099.7	1,152.1	1,152.0	1.9	2.0	-122.44	802.0	790.7	1,143.4	1,139.5	3.91	292.406		
1,200.0	1,199.7	1,254.1	1,254.0	2.1	2.2	-122.54	801.7	789.0	1,142.6	1,138.4	4.26	267.980		
1,300.0	1,299.7	1,350.3	1,350.2	2.3	2.4	-122.65	801.6	787.3	1,141.9	1,137.3	4.61	247.838		
1,400.0	1,399.7	1,445.8	1,445.7	2.4	2.5	-122.76	801.9	785.8	1,141.7	1,136.7	4.95	230.648		
1,500.0	1,499.7	1,546.9	1,546.8	2.6	2.7	-122.88	802.5	784.2	1,141.6	1,136.3	5.30	215.300		
1,600.0	1,599.7	1,645.4	1,645.3	2.8	2.9	-123.00	802.8	782.6	1,141.4	1,135.7	5.65	201.991		
1,605.7	1,605.4	1,650.7	1,650.6	2.8	2.9	-123.01	802.9	782.5	1,141.4	1,135.7	5.67	201.301		
1,700.0	1,699.7	1,740.6	1,740.5	3.0	3.0	-123.12	803.6	781.3	1,141.6	1,135.6	5.99	190.488		
1,800.0	1,799.7	1,840.4	1,840.2	3.1	3.2	-123.25	804.5	780.0	1,142.1	1,135.7	6.34	180.022		
1,900.0	1,899.7	1,939.0	1,938.8	3.3	3.4	-123.39	805.6	778.6	1,142.5	1,135.8	6.69	170.691		
2,000.0	1,999.6	2,033.0	2,032.8	3.5	3.6	-123.53	807.0	777.3	1,143.2	1,136.2	7.03	162.519		
2,100.0	2,099.6	2,125.4	2,125.2	3.7	3.7	-123.66	808.7	776.5	1,144.7	1,137.3	7.37	155.255		
2,200.0	2,199.6	2,221.1	2,220.9	3.9	3.9	-123.80	810.9	775.9	1,146.6	1,138.9	7.72	148.577		
2,300.0	2,299.6	2,320.6	2,320.4	4.0	4.1	-123.94	813.2	775.7	1,148.8	1,140.7	8.07	142.389		
2,400.0	2,399.6	2,426.2	2,425.9	4.2	4.3	-124.07	815.3	775.4	1,150.7	1,142.2	8.43	136.518		
2,500.0	2,499.6	2,530.4	2,530.1	4.4	4.4	-124.17	816.6	775.2	1,152.1	1,143.3	8.79	131.127		
2,600.0	2,599.6	2,632.7	2,632.4	4.6	4.6	-124.26	817.6	774.9	1,153.3	1,144.2	9.14	126.174		
2,700.0	2,699.6	2,734.3	2,734.0	4.7	4.8	-124.36	818.5	774.5	1,154.3	1,144.8	9.49	121.582		
2,800.0	2,799.6	2,834.2	2,833.9	4.9	5.0	-124.44	819.3	774.2	1,155.4	1,145.5	9.84	117.362		
2,900.0	2,899.6	2,937.8	2,937.4	5.1	5.1	-124.54	820.1	773.5	1,156.2	1,146.0	10.20	113.331		
3,000.0	2,999.6	3,039.3	3,039.0	5.3	5.3	-124.67	821.1	772.3	1,156.7	1,146.2	10.56	109.583		
3,100.0	3,099.6	3,141.3	3,141.0	5.4	5.5	-124.79	822.0	771.1	1,157.2	1,146.3	10.91	106.064		
3,200.0	3,199.6	3,243.3	3,242.9	5.6	5.7	-124.92	822.7	769.6	1,157.5	1,146.2	11.27	102.740		
3,300.0	3,299.6	3,340.4	3,340.0	5.8	5.9	-125.05	823.6	768.0	1,157.7	1,146.1	11.61	99.693		
3,400.0	3,399.5	3,435.1	3,434.7	6.0	6.0	-125.19	824.8	766.7	1,158.4	1,146.5	11.96	96.895		
3,500.0	3,499.5	3,528.5	3,528.1	6.1	6.2	-125.30	826.1	765.9	1,159.6	1,147.3	12.30	94.312		
3,600.0	3,599.5	3,619.3	3,618.8	6.3	6.4	-125.41	827.8	765.6	1,161.5	1,148.8	12.63	91.957		
3,700.0	3,699.5	3,712.4	3,711.9	6.5	6.5	-125.53	830.2	765.7	1,164.1	1,151.2	12.97	89.754		
3,800.0	3,799.5	3,823.9	3,823.4	6.7	6.7	-125.68	833.1	765.3	1,166.5	1,153.2	13.34	87.425		
3,900.0	3,899.5	3,933.0	3,932.5	6.8	6.9	-125.81	834.7	764.8	1,168.0	1,154.3	13.71	85.193		
4,000.0	3,999.5	4,044.5	4,044.0	7.0	7.1	-125.93	835.7	763.7	1,168.7	1,154.6	14.08	82.998		
4,100.0	4,099.5	4,151.7	4,151.2	7.2	7.3	-126.06	835.9	761.7	1,168.3	1,153.8	14.45	80.874		
4,200.0	4,199.5	4,250.2	4,249.7	7.4	7.5	-126.20	836.3	759.6	1,167.9	1,153.1	14.79	78.939		
4,300.0	4,299.5	4,349.0	4,348.4	7.5	7.6	-126.30	836.3	758.1	1,167.6	1,152.4	15.14	77.101		
4,400.0	4,399.5	4,449.8	4,449.2	7.7	7.8	-126.40	836.4	756.6	1,167.4	1,151.9	15.50	75.328		
4,500.0	4,499.5	4,546.3	4,545.7	7.9	8.0	-126.56	837.1	754.2	1,167.0	1,151.2	15.84	73.653		
4,501.7	4,501.2	4,547.9	4,547.2	7.9	8.0	-126.56	837.2	754.1	1,167.0	1,151.2	15.85	73.627		
4,600.0	4,599.5	4,641.4	4,640.7	8.1	8.2	-126.74	838.7	751.8	1,167.4	1,151.2	16.19	72.106		
4,700.0	4,699.5	4,745.7	4,745.0	8.2	8.3	-126.90	839.8	749.8	1,167.6	1,151.1	16.55	70.550		
4,800.0	4,799.5	4,847.7	4,847.0	8.4	8.5	-127.05	840.5	747.7	1,167.5	1,150.6	16.90	69.064		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL											Offset Site Error: 0.0 ft		
Survey Program: 100-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,900.0	4,899.4	4,950.1	4,949.4	8.6	8.7	-127.13	840.3	746.6	1,167.4	1,150.1	17.26	67.639	
5,000.0	4,999.4	5,049.5	5,048.8	8.8	8.9	-127.21	839.9	745.2	1,166.9	1,149.3	17.61	66.272	
5,100.0	5,099.4	5,146.9	5,146.2	8.9	9.0	-127.32	840.2	743.8	1,166.9	1,148.9	17.96	64.986	
5,200.0	5,199.4	5,249.9	5,249.1	9.1	9.2	-127.46	840.7	741.7	1,166.7	1,148.4	18.31	63.709	
5,291.9	5,291.3	5,338.4	5,337.6	9.3	9.4	-127.58	841.0	739.9	1,166.4	1,147.8	18.63	62.608	
5,300.0	5,299.4	5,345.4	5,344.6	9.3	9.4	-127.59	841.1	739.8	1,166.4	1,147.8	18.66	62.520	
5,400.0	5,399.4	5,440.1	5,439.3	9.5	9.6	-127.69	841.7	738.7	1,167.0	1,148.0	19.00	61.423	
5,500.0	5,499.4	5,543.1	5,542.4	9.6	9.7	-127.80	842.1	737.6	1,167.3	1,147.9	19.35	60.309	
5,600.0	5,599.4	5,643.9	5,643.1	9.8	9.9	-127.91	842.7	736.3	1,167.6	1,147.9	19.71	59.245	
5,700.0	5,699.4	5,748.9	5,748.1	10.0	10.1	-128.05	843.3	734.4	1,167.6	1,147.5	20.07	58.179	
5,800.0	5,799.4	5,850.0	5,849.1	10.2	10.3	-128.19	843.7	732.2	1,167.3	1,146.9	20.42	57.154	
5,900.0	5,899.4	5,947.6	5,946.7	10.3	10.5	-128.33	844.2	730.1	1,167.1	1,146.3	20.77	56.187	
6,000.0	5,999.4	6,052.6	6,051.7	10.5	10.7	-128.47	844.7	728.1	1,167.0	1,145.8	21.13	55.221	
6,100.0	6,099.4	6,158.0	6,157.0	10.7	10.8	-128.61	844.6	725.5	1,166.1	1,144.6	21.49	54.250	
6,200.0	6,199.4	6,256.4	6,255.5	10.9	11.0	-128.74	844.4	723.1	1,165.2	1,143.3	21.84	53.340	
6,300.0	6,299.4	6,352.6	6,351.6	11.1	11.2	-128.87	844.4	720.9	1,164.5	1,142.3	22.19	52.480	
6,394.6	6,394.0	6,441.5	6,440.5	11.2	11.3	-128.98	844.5	719.3	1,164.2	1,141.7	22.51	51.714	
6,400.0	6,399.3	6,446.4	6,445.4	11.2	11.3	-128.98	844.6	719.2	1,164.2	1,141.7	22.53	51.673	
6,500.0	6,499.3	6,541.5	6,540.4	11.4	11.5	-129.13	845.5	717.3	1,164.5	1,141.7	22.87	50.910	
6,600.0	6,599.3	6,641.1	6,640.0	11.6	11.7	-129.24	846.2	716.0	1,165.1	1,141.8	23.23	50.163	
6,700.0	6,699.3	6,743.1	6,742.0	11.8	11.9	-129.36	846.9	714.6	1,165.5	1,141.9	23.58	49.427	
6,800.0	6,799.3	6,848.0	6,846.9	11.9	12.1	-129.47	847.2	713.3	1,165.7	1,141.7	23.94	48.691	
6,900.0	6,899.3	6,950.8	6,949.7	12.1	12.2	-129.60	847.4	711.3	1,165.4	1,141.1	24.30	47.962	
6,921.2	6,920.6	6,971.8	6,970.7	12.1	12.3	-129.63	847.5	710.8	1,165.3	1,140.9	24.37	47.813	
6,950.0	6,949.3	7,000.3	6,999.2	12.2	12.3	34.57	847.6	710.1	1,164.6	1,140.2	24.46	47.613	
7,000.0	6,999.1	7,050.5	7,049.4	12.3	12.4	37.38	847.8	709.0	1,160.8	1,136.3	24.55	47.283	
7,050.0	7,048.4	7,100.1	7,099.0	12.3	12.5	38.52	847.7	708.2	1,153.6	1,129.0	24.56	46.961	
7,100.0	7,096.7	7,153.6	7,152.5	12.4	12.6	39.81	847.5	707.3	1,142.9	1,118.4	24.52	46.603	
7,150.0	7,143.8	7,205.8	7,204.7	12.5	12.7	41.43	847.3	706.0	1,128.9	1,104.5	24.44	46.190	
7,200.0	7,189.2	7,257.2	7,256.0	12.5	12.8	43.48	847.0	704.5	1,111.7	1,087.4	24.34	45.667	
7,250.0	7,232.6	7,308.9	7,307.7	12.6	12.9	46.06	846.5	702.8	1,091.5	1,067.2	24.27	44.966	
7,300.0	7,273.7	7,375.3	7,374.1	12.7	13.0	49.71	844.7	700.2	1,068.1	1,043.8	24.33	43.906	
7,350.0	7,312.1	7,422.3	7,420.9	12.9	13.1	53.64	842.4	698.2	1,041.9	1,017.4	24.46	42.596	
7,400.0	7,347.6	7,455.7	7,454.2	13.1	13.1	57.81	840.0	697.4	1,014.0	989.3	24.71	41.037	
7,450.0	7,379.9	7,484.4	7,482.8	13.3	13.2	62.35	837.5	697.3	984.9	959.8	25.11	39.223	
7,500.0	7,408.8	7,500.0	7,498.4	13.5	13.2	66.60	835.9	697.4	955.1	929.5	25.58	37.332	
7,550.0	7,434.0	7,519.5	7,517.7	13.8	13.2	71.33	834.0	697.6	925.2	899.0	26.20	35.314	
7,600.0	7,455.3	7,531.0	7,529.2	14.2	13.3	75.65	833.0	697.9	895.7	868.9	26.83	33.389	
7,650.0	7,472.7	7,540.0	7,538.2	14.6	13.3	79.75	832.2	698.0	867.1	839.6	27.46	31.571	
7,700.0	7,485.8	7,546.4	7,544.5	15.0	13.3	83.50	831.7	698.2	839.6	811.5	28.08	29.900	
7,750.0	7,494.7	7,549.9	7,548.0	15.5	13.3	86.79	831.4	698.3	813.8	785.2	28.66	28.392	
7,800.0	7,499.3	7,550.4	7,548.5	16.0	13.3	89.51	831.4	698.3	790.2	761.0	29.22	27.041	
7,827.7	7,500.0	7,549.3	7,547.4	16.3	13.3	90.76	831.4	698.3	778.1	748.6	29.52	26.355	
7,900.0	7,500.0	7,545.0	7,543.1	17.2	13.3	90.42	831.8	698.2	750.5	720.2	30.35	24.734	
8,000.0	7,500.0	7,538.6	7,536.8	18.4	13.3	89.90	832.3	698.0	722.6	691.1	31.56	22.895	
8,100.0	7,500.0	7,531.7	7,529.9	19.7	13.3	89.34	832.9	697.9	707.8	674.9	32.86	21.541	
8,157.0	7,500.0	7,527.5	7,525.8	20.5	13.2	89.01	833.3	697.8	705.5	671.8	33.63	20.978 CC, ES	
8,200.0	7,500.0	7,524.3	7,522.5	21.1	13.2	88.74	833.6	697.7	706.8	672.6	34.21	20.659	
8,300.0	7,500.0	7,516.1	7,514.4	22.5	13.2	88.08	834.3	697.6	719.7	684.1	35.61	20.209	
8,400.0	7,500.0	7,507.3	7,505.6	24.0	13.2	87.37	835.2	697.5	745.9	708.8	37.05	20.130 SF	
8,500.0	7,500.0	7,500.0	7,498.4	25.5	13.2	86.78	835.9	697.4	783.9	745.3	38.53	20.346	
8,600.0	7,500.0	7,500.0	7,498.4	27.0	13.2	86.78	835.9	697.4	832.2	792.1	40.06	20.773	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,700.0	7,500.0	7,500.0	7,498.4	28.6	13.2	86.78	835.9	697.4	889.1	847.5	41.62	21.364		
8,800.0	7,500.0	7,500.0	7,498.4	30.2	13.2	86.78	835.9	697.4	953.2	910.0	43.20	22.066		
8,900.0	7,500.0	7,475.5	7,474.0	31.8	13.2	84.81	838.3	697.3	1,022.6	977.9	44.66	22.896		
9,000.0	7,500.0	7,470.7	7,469.2	33.4	13.2	84.42	838.7	697.3	1,096.9	1,050.7	46.24	23.724		
9,027.7	7,500.0	7,469.4	7,467.9	33.8	13.2	84.32	838.9	697.3	1,118.2	1,071.5	46.68	23.957		
9,100.0	7,500.0	7,466.1	7,464.6	35.0	13.1	84.06	839.1	697.3	1,175.0	1,127.2	47.82	24.570		
9,127.7	7,500.0	7,464.9	7,463.4	35.5	13.1	83.96	839.2	697.3	1,197.2	1,149.0	48.27	24.805		
9,200.0	7,500.0	7,461.7	7,460.3	36.6	13.1	83.59	839.5	697.4	1,256.5	1,207.0	49.41	25.429		
9,300.0	7,500.0	7,457.7	7,456.2	38.3	13.1	83.07	839.8	697.4	1,341.3	1,290.3	50.99	26.305		
9,400.0	7,500.0	7,453.8	7,452.4	40.0	13.1	82.52	840.1	697.5	1,428.8	1,376.3	52.56	27.186		
9,427.7	7,500.0	7,452.8	7,451.3	40.4	13.1	82.36	840.2	697.5	1,453.5	1,400.5	52.99	27.430		
9,500.0	7,500.0	7,450.2	7,448.7	41.6	13.1	82.13	840.4	697.5	1,518.5	1,464.3	54.16	28.038		
9,600.0	7,500.0	7,446.7	7,445.3	43.3	13.1	81.84	840.7	697.6	1,609.3	1,553.6	55.78	28.853		
9,700.0	7,500.0	7,443.5	7,442.1	45.0	13.1	81.55	840.9	697.6	1,701.2	1,643.8	57.40	29.638		
9,800.0	7,500.0	7,440.4	7,439.0	46.7	13.1	81.29	841.2	697.7	1,794.0	1,734.9	59.03	30.391		
9,900.0	7,500.0	7,437.4	7,436.0	48.4	13.1	81.03	841.4	697.8	1,887.4	1,826.8	60.66	31.115		
10,000.0	7,500.0	7,434.6	7,433.2	50.1	13.1	80.79	841.6	697.8	1,981.5	1,919.2	62.30	31.808		
10,100.0	7,500.0	7,431.9	7,430.6	51.8	13.1	80.56	841.7	697.9	2,076.2	2,012.2	63.93	32.474		
10,200.0	7,500.0	7,400.0	7,398.7	53.5	13.0	77.86	843.6	699.1	2,171.8	2,106.7	65.05	33.387		
10,300.0	7,500.0	7,400.0	7,398.7	55.2	13.0	77.86	843.6	699.1	2,267.2	2,200.5	66.72	33.982		
10,400.0	7,500.0	7,400.0	7,398.7	56.9	13.0	77.86	843.6	699.1	2,363.0	2,294.7	68.39	34.552		
10,500.0	7,500.0	7,400.0	7,398.7	58.6	13.0	77.86	843.6	699.1	2,459.2	2,389.1	70.07	35.098		
10,600.0	7,500.0	7,400.0	7,398.7	60.3	13.0	77.86	843.6	699.1	2,555.6	2,483.9	71.75	35.621		
10,627.7	7,500.0	7,400.0	7,398.7	60.8	13.0	77.86	843.6	699.1	2,582.4	2,510.2	72.21	35.762		
10,700.0	7,500.0	7,400.0	7,398.7	62.0	13.0	78.42	843.6	699.1	2,652.2	2,578.7	73.57	36.049		
10,800.0	7,500.0	7,400.0	7,398.7	63.7	13.0	79.12	843.6	699.1	2,748.7	2,673.2	75.43	36.440		
10,900.0	7,500.0	7,400.0	7,398.7	65.5	13.0	79.77	843.6	699.1	2,844.9	2,767.6	77.25	36.825		
11,000.0	7,500.0	7,400.0	7,398.7	67.2	13.0	80.36	843.6	699.1	2,940.9	2,861.9	79.05	37.204		
11,023.0	7,500.0	7,400.0	7,398.7	67.6	13.0	80.49	843.6	699.1	2,963.0	2,883.5	79.46	37.291		
11,100.0	7,500.0	7,400.0	7,398.7	68.9	13.0	80.49	843.6	699.1	3,036.8	2,956.1	80.76	37.601		
11,200.0	7,500.0	7,400.0	7,398.7	70.6	13.0	80.49	843.6	699.1	3,133.0	3,050.6	82.46	37.992		
11,300.0	7,500.0	7,400.0	7,398.7	72.3	13.0	80.49	843.6	699.1	3,229.5	3,145.3	84.17	38.370		
11,400.0	7,500.0	7,400.0	7,398.7	74.1	13.0	80.49	843.6	699.1	3,326.1	3,240.2	85.87	38.734		
11,500.0	7,500.0	7,400.0	7,398.7	75.8	13.0	80.49	843.6	699.1	3,422.9	3,335.3	87.57	39.086		
11,600.0	7,500.0	7,400.0	7,398.7	77.5	13.0	80.49	843.6	699.1	3,519.9	3,430.6	89.28	39.426		
11,700.0	7,500.0	7,400.0	7,398.7	79.3	13.0	80.49	843.6	699.1	3,617.1	3,526.1	90.99	39.754		
11,800.0	7,500.0	7,400.0	7,398.7	81.0	13.0	80.49	843.6	699.1	3,714.4	3,621.7	92.69	40.072		
11,900.0	7,500.0	7,400.0	7,398.7	82.7	13.0	80.49	843.6	699.1	3,811.8	3,717.4	94.40	40.379		
12,000.0	7,500.0	7,400.0	7,398.7	84.5	13.0	80.49	843.6	699.1	3,909.4	3,813.3	96.11	40.676		
12,100.0	7,500.0	7,400.0	7,398.7	86.2	13.0	80.49	843.6	699.1	4,007.1	3,909.3	97.82	40.964		
12,200.0	7,500.0	7,400.0	7,398.7	87.9	13.0	80.49	843.6	699.1	4,104.9	4,005.4	99.53	41.242		
12,300.0	7,500.0	7,400.0	7,398.7	89.7	13.0	80.49	843.6	699.1	4,202.9	4,101.6	101.24	41.512		
12,400.0	7,500.0	7,400.0	7,398.7	91.4	13.0	80.49	843.6	699.1	4,300.9	4,197.9	102.96	41.773		
12,500.0	7,500.0	7,400.0	7,398.7	93.1	13.0	80.49	843.6	699.1	4,399.0	4,294.3	104.67	42.027		
12,600.0	7,500.0	7,400.0	7,398.7	94.9	13.0	80.49	843.6	699.1	4,497.2	4,390.8	106.38	42.273		
12,700.0	7,500.0	7,400.0	7,398.7	96.6	13.0	80.49	843.6	699.1	4,595.4	4,487.3	108.10	42.511		
12,800.0	7,500.0	7,400.0	7,398.7	98.3	13.0	80.49	843.6	699.1	4,693.8	4,584.0	109.81	42.743		
12,900.0	7,500.0	7,400.0	7,398.7	100.1	13.0	80.49	843.6	699.1	4,792.2	4,680.6	111.53	42.968		
13,000.0	7,500.0	7,400.0	7,398.7	101.8	13.0	80.49	843.6	699.1	4,890.6	4,777.4	113.25	43.186		
13,100.0	7,500.0	7,400.0	7,398.7	103.6	13.0	80.49	843.6	699.1	4,989.2	4,874.2	114.96	43.399		
13,200.0	7,500.0	7,400.0	7,398.7	105.3	13.0	80.49	843.6	699.1	5,087.8	4,971.1	116.68	43.605		
13,300.0	7,500.0	7,400.0	7,398.7	107.0	13.0	80.49	843.6	699.1	5,186.4	5,068.0	118.40	43.806		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-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	CC, ES
300.0	300.0	299.8	299.8	0.5	0.5	-92.30	-0.4	-10.8	10.8	9.8	1.00	10.822	
400.0	400.0	399.6	399.6	0.7	0.7	45.10	-1.7	-13.1	12.6	11.2	1.35	9.306	
500.0	500.0	499.4	499.3	0.9	0.9	45.11	-3.9	-16.8	14.7	13.0	1.70	8.608	
600.0	599.9	599.1	598.8	1.0	1.1	46.77	-6.9	-22.1	17.1	15.1	2.06	8.291	
700.0	699.8	699.1	698.5	1.2	1.3	55.30	-9.6	-28.2	20.5	18.1	2.43	8.449	
800.0	799.7	798.9	798.2	1.4	1.5	72.99	-11.0	-34.3	25.3	22.5	2.78	9.097	
865.6	865.4	864.4	863.6	1.5	1.6	105.10	-11.9	-38.3	29.2	26.2	3.01	9.696	
900.0	899.7	898.7	897.8	1.6	1.7	104.83	-12.3	-40.4	31.4	28.3	3.13	10.023	
1,000.0	999.7	998.5	997.4	1.7	1.9	104.22	-13.7	-46.5	37.8	34.3	3.48	10.847	
1,100.0	1,099.7	1,098.3	1,097.0	1.9	2.1	103.78	-15.0	-52.6	44.2	40.3	3.83	11.521	
1,200.0	1,199.7	1,198.1	1,196.6	2.1	2.3	103.46	-16.4	-58.7	50.5	46.4	4.18	12.082	
1,300.0	1,299.7	1,297.9	1,296.2	2.3	2.5	103.20	-17.7	-64.8	56.9	52.4	4.53	12.556	
1,400.0	1,399.7	1,397.7	1,395.8	2.4	2.7	103.00	-19.0	-70.9	63.3	58.4	4.88	12.962	
1,500.0	1,499.7	1,497.5	1,495.4	2.6	2.9	102.84	-20.4	-77.1	69.7	64.5	5.24	13.314	
1,600.0	1,599.7	1,597.3	1,595.0	2.8	3.1	102.70	-21.7	-83.2	76.1	70.5	5.59	13.622	
1,700.0	1,699.7	1,697.1	1,694.6	3.0	3.3	102.59	-23.1	-89.3	82.5	76.5	5.94	13.893	
1,800.0	1,799.7	1,796.9	1,794.2	3.1	3.5	102.49	-24.4	-95.4	88.9	82.6	6.29	14.134	
1,900.0	1,899.7	1,896.7	1,893.8	3.3	3.7	102.40	-25.8	-101.5	95.3	88.6	6.64	14.350	
2,000.0	1,999.6	1,996.5	1,993.4	3.5	3.9	102.33	-27.1	-107.6	101.6	94.7	6.99	14.544	
2,100.0	2,099.6	2,096.3	2,093.0	3.7	4.1	102.26	-28.5	-113.7	108.0	100.7	7.34	14.719	
2,200.0	2,199.6	2,196.1	2,192.6	3.9	4.3	102.20	-29.8	-119.8	114.4	106.7	7.69	14.879	
2,300.0	2,299.6	2,295.9	2,292.2	4.0	4.5	102.15	-31.2	-125.9	120.8	112.8	8.04	15.024	
2,400.0	2,399.6	2,395.7	2,391.8	4.2	4.7	102.10	-32.5	-132.0	127.2	118.8	8.39	15.158	
2,500.0	2,499.6	2,495.5	2,491.4	4.4	4.9	102.06	-33.8	-138.1	133.6	124.8	8.74	15.280	
2,600.0	2,599.6	2,595.3	2,591.0	4.6	5.1	102.02	-35.2	-144.3	140.0	130.9	9.09	15.394	
2,700.0	2,699.6	2,695.1	2,690.6	4.7	5.3	101.98	-36.5	-150.4	146.4	136.9	9.44	15.498	
2,800.0	2,799.6	2,794.9	2,790.2	4.9	5.6	101.95	-37.9	-156.5	152.8	143.0	9.79	15.596	
2,900.0	2,899.6	2,894.7	2,889.8	5.1	5.8	101.92	-39.2	-162.6	159.1	149.0	10.15	15.686	
3,000.0	2,999.6	2,994.5	2,989.4	5.3	6.0	101.89	-40.6	-168.7	165.5	155.0	10.50	15.771	
3,100.0	3,099.6	3,094.2	3,089.0	5.4	6.2	101.87	-41.9	-174.8	171.9	161.1	10.85	15.850	
3,200.0	3,199.6	3,194.0	3,188.6	5.6	6.4	101.85	-43.3	-180.9	178.3	167.1	11.20	15.924	
3,300.0	3,299.6	3,293.8	3,288.2	5.8	6.6	101.82	-44.6	-187.0	184.7	173.1	11.55	15.993	
3,400.0	3,399.5	3,393.6	3,387.8	6.0	6.8	101.80	-46.0	-193.1	191.1	179.2	11.90	16.059	
3,500.0	3,499.5	3,493.4	3,487.4	6.1	7.0	101.78	-47.3	-199.2	197.5	185.2	12.25	16.121	
3,600.0	3,599.5	3,593.2	3,587.0	6.3	7.2	101.77	-48.6	-205.3	203.9	191.3	12.60	16.179	
3,700.0	3,699.5	3,693.0	3,686.6	6.5	7.4	101.75	-50.0	-211.5	210.3	197.3	12.95	16.234	
3,800.0	3,799.5	3,792.8	3,786.2	6.7	7.6	101.73	-51.3	-217.6	216.6	203.3	13.30	16.286	
3,900.0	3,899.5	3,892.6	3,885.8	6.8	7.8	101.72	-52.7	-223.7	223.0	209.4	13.65	16.336	
4,000.0	3,999.5	3,992.4	3,985.4	7.0	8.0	101.70	-54.0	-229.8	229.4	215.4	14.00	16.383	
4,100.0	4,099.5	4,092.2	4,085.0	7.2	8.2	101.69	-55.4	-235.9	235.8	221.5	14.35	16.428	
4,200.0	4,199.5	4,192.0	4,184.6	7.4	8.4	101.68	-56.7	-242.0	242.2	227.5	14.71	16.470	
4,300.0	4,299.5	4,291.8	4,284.2	7.5	8.6	101.67	-58.1	-248.1	248.6	233.5	15.06	16.511	
4,400.0	4,399.5	4,391.6	4,383.8	7.7	8.8	101.65	-59.4	-254.2	255.0	239.6	15.41	16.550	
4,500.0	4,499.5	4,491.4	4,483.4	7.9	9.0	101.64	-60.7	-260.3	261.4	245.6	15.76	16.587	
4,600.0	4,599.5	4,591.2	4,583.0	8.1	9.3	101.63	-62.1	-266.4	267.8	251.6	16.11	16.622	
4,700.0	4,699.5	4,691.0	4,682.6	8.2	9.5	101.62	-63.4	-272.5	274.1	257.7	16.46	16.656	
4,800.0	4,799.5	4,790.8	4,782.2	8.4	9.7	101.61	-64.8	-278.7	280.5	263.7	16.81	16.689	
4,900.0	4,899.4	4,890.6	4,881.8	8.6	9.9	101.60	-66.1	-284.8	286.9	269.8	17.16	16.720	
5,000.0	4,999.4	4,990.4	4,981.4	8.8	10.1	101.60	-67.5	-290.9	293.3	275.8	17.51	16.750	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,099.4	5,090.2	5,081.0	8.9	10.3	101.59	-68.8	-297.0	299.7	281.8	17.86	16.779	
5,200.0	5,199.4	5,190.0	5,180.6	9.1	10.5	101.58	-70.2	-303.1	306.1	287.9	18.21	16.806	
5,300.0	5,299.4	5,289.8	5,280.2	9.3	10.7	101.57	-71.5	-309.2	312.5	293.9	18.56	16.833	
5,400.0	5,399.4	5,389.5	5,379.8	9.5	10.9	101.57	-72.9	-315.3	318.9	300.0	18.91	16.859	
5,500.0	5,499.4	5,489.3	5,479.4	9.6	11.1	101.56	-74.2	-321.4	325.3	306.0	19.27	16.883	
5,600.0	5,599.4	5,589.1	5,579.0	9.8	11.3	101.55	-75.5	-327.5	331.6	312.0	19.62	16.907	
5,700.0	5,699.4	5,688.9	5,678.6	10.0	11.5	101.54	-76.9	-333.6	338.0	318.1	19.97	16.930	
5,800.0	5,799.4	5,788.7	5,778.2	10.2	11.7	101.54	-78.2	-339.7	344.4	324.1	20.32	16.952	
5,900.0	5,899.4	5,888.5	5,877.8	10.3	11.9	101.53	-79.6	-345.9	350.8	330.1	20.67	16.974	
6,000.0	5,999.4	5,988.3	5,977.4	10.5	12.1	101.53	-80.9	-352.0	357.2	336.2	21.02	16.994	
6,100.0	6,099.4	6,088.1	6,077.0	10.7	12.3	101.52	-82.3	-358.1	363.6	342.2	21.37	17.014	
6,200.0	6,199.4	6,187.9	6,176.6	10.9	12.5	101.52	-83.6	-364.2	370.0	348.3	21.72	17.034	
6,300.0	6,299.4	6,287.7	6,276.2	11.1	12.7	101.51	-85.0	-370.3	376.4	354.3	22.07	17.052	
6,400.0	6,399.3	6,387.5	6,375.8	11.2	13.0	101.51	-86.3	-376.4	382.8	360.3	22.42	17.071	
6,500.0	6,499.3	6,487.3	6,475.4	11.4	13.2	101.50	-87.7	-382.5	389.2	366.4	22.77	17.088	
6,600.0	6,599.3	6,587.1	6,575.0	11.6	13.4	101.50	-89.0	-388.6	395.5	372.4	23.12	17.105	
6,700.0	6,699.3	6,686.9	6,674.6	11.8	13.6	101.49	-90.3	-394.7	401.9	378.5	23.47	17.122	
6,800.0	6,799.3	6,786.7	6,774.2	11.9	13.8	101.49	-91.7	-400.8	408.3	384.5	23.83	17.138	
6,900.0	6,899.3	6,886.5	6,873.8	12.1	14.0	101.48	-93.0	-406.9	414.7	390.5	24.18	17.154	
6,921.2	6,920.6	6,907.7	6,894.9	12.1	14.0	101.48	-93.3	-408.2	416.1	391.8	24.25	17.157	
6,950.0	6,949.3	6,936.4	6,923.6	12.2	14.1	-94.25	-93.7	-410.0	417.9	393.6	24.35	17.163	
7,000.0	6,999.1	6,986.0	6,973.1	12.3	14.2	-92.07	-94.4	-413.0	421.2	396.7	24.51	17.187	
7,050.0	7,048.4	7,035.1	7,022.1	12.3	14.3	-92.46	-95.0	-416.0	424.7	400.0	24.65	17.230	
7,100.0	7,096.7	7,083.2	7,070.1	12.4	14.4	-93.58	-95.7	-419.0	428.6	403.8	24.78	17.298	
7,150.0	7,143.8	7,129.9	7,116.7	12.5	14.5	-95.15	-96.3	-421.8	433.2	408.3	24.89	17.402	
7,200.0	7,189.2	7,175.2	7,161.9	12.5	14.6	-97.01	-96.9	-424.6	439.1	414.1	25.01	17.558	
7,250.0	7,232.6	7,227.7	7,214.3	12.6	14.7	-99.36	-95.1	-427.8	446.2	421.0	25.12	17.760	
7,300.0	7,273.7	7,263.1	7,269.1	12.7	14.8	-101.68	-88.0	-431.2	454.0	428.8	25.24	17.990	
7,350.0	7,312.1	7,341.7	7,326.1	12.9	14.9	-103.96	-74.7	-434.7	462.5	437.2	25.36	18.237	
7,400.0	7,347.6	7,404.1	7,384.8	13.1	15.0	-106.19	-54.2	-438.3	471.4	445.9	25.50	18.485	
7,450.0	7,379.9	7,470.6	7,444.7	13.3	15.1	-108.35	-25.5	-442.0	480.5	454.8	25.69	18.702	
7,500.0	7,408.8	7,541.6	7,504.4	13.5	15.2	-110.41	12.6	-445.6	489.3	463.4	25.88	18.906	
7,550.0	7,434.0	7,617.4	7,562.5	13.8	15.4	-112.32	61.1	-449.2	497.6	471.4	26.17	19.014	
7,600.0	7,455.3	7,698.1	7,616.7	14.2	15.7	-114.03	120.7	-452.5	504.9	478.4	26.55	19.019	
7,650.0	7,472.7	7,783.5	7,664.4	14.6	16.1	-115.48	191.3	-455.4	511.0	483.9	27.07	18.876	
7,700.0	7,485.8	7,872.8	7,702.5	15.0	16.6	-116.60	272.0	-457.8	515.4	487.6	27.76	18.568	
7,750.0	7,494.7	7,965.2	7,728.3	15.5	17.3	-117.33	360.6	-459.4	517.8	489.1	28.63	18.084	
7,800.0	7,499.3	8,058.9	7,739.6	16.0	18.1	-117.62	453.5	-460.0	518.0	488.3	29.70	17.439	
7,827.7	7,500.0	8,097.2	7,740.0	16.3	18.5	-117.64	491.8	-460.1	517.4	487.2	30.23	17.113	
7,900.0	7,500.0	8,169.4	7,740.0	17.2	19.2	-117.71	564.0	-460.1	516.3	484.6	31.70	16.288	
8,000.0	7,500.0	8,269.4	7,740.0	18.4	20.4	-117.80	664.0	-460.1	514.7	480.9	33.84	15.209	
8,100.0	7,500.0	8,369.4	7,740.0	19.7	21.5	-117.89	764.0	-460.1	513.2	477.1	36.13	14.205	
8,200.0	7,500.0	8,469.4	7,740.0	21.1	22.8	-117.98	864.0	-460.1	511.6	473.1	38.52	13.283	
8,300.0	7,500.0	8,569.4	7,740.0	22.5	24.1	-118.07	964.0	-460.1	510.1	469.1	41.00	12.442	
8,400.0	7,500.0	8,669.4	7,740.0	24.0	25.5	-118.16	1,063.9	-460.1	508.6	465.0	43.55	11.678	
8,500.0	7,500.0	8,769.3	7,740.0	25.5	26.9	-118.26	1,163.9	-460.1	507.0	460.9	46.16	10.984	
8,600.0	7,500.0	8,869.3	7,740.0	27.0	28.4	-118.35	1,263.9	-460.1	505.5	456.7	48.82	10.354	
8,700.0	7,500.0	8,969.3	7,740.0	28.6	29.9	-118.44	1,363.9	-460.1	503.9	452.4	51.52	9.782	
8,800.0	7,500.0	9,069.3	7,740.0	30.2	31.4	-118.54	1,463.9	-460.1	502.4	448.2	54.25	9.261	
8,900.0	7,500.0	9,169.3	7,740.0	31.8	32.9	-118.63	1,563.9	-460.1	500.9	443.9	57.01	8.786	
9,000.0	7,500.0	9,269.3	7,740.0	33.4	34.5	-118.73	1,663.9	-460.1	499.3	439.6	59.79	8.352	
9,027.7	7,500.0	9,297.0	7,740.0	33.8	34.9	-118.76	1,691.6	-460.1	498.9	438.4	60.56	8.238	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,100.0	7,500.0	9,369.2	7,740.0	35.0	36.1	-118.83	1,763.8	-460.1	497.8	435.2	62.59	7.954	
9,127.7	7,500.0	9,397.0	7,740.0	35.5	36.5	-118.85	1,791.6	-460.1	497.4	434.0	63.37	7.849	
9,200.0	7,500.0	9,469.2	7,740.0	36.6	37.7	-118.96	1,863.8	-460.1	495.9	430.4	65.46	7.575	
9,300.0	7,500.0	9,569.1	7,740.0	38.3	39.3	-119.19	1,963.7	-460.1	492.5	424.2	68.30	7.211	
9,400.0	7,500.0	9,669.0	7,740.0	40.0	40.9	-119.54	2,063.6	-460.1	487.6	416.5	71.05	6.862	
9,427.7	7,500.0	9,696.7	7,740.0	40.4	41.4	-119.65	2,091.2	-460.1	486.0	414.2	71.80	6.769	
9,500.0	7,500.0	9,768.7	7,740.0	41.6	42.5	-119.95	2,163.3	-460.1	481.6	407.9	73.70	6.535	
9,600.0	7,500.0	9,868.5	7,740.0	43.3	44.2	-120.37	2,263.1	-460.1	475.6	399.3	76.30	6.233	
9,700.0	7,500.0	9,968.3	7,740.0	45.0	45.8	-120.80	2,362.9	-460.1	469.6	390.7	78.88	5.953	
9,800.0	7,500.0	10,068.0	7,740.0	46.7	47.5	-121.24	2,462.6	-460.1	463.6	382.1	81.44	5.693	
9,900.0	7,500.0	10,167.8	7,740.0	48.4	49.1	-121.69	2,562.4	-460.1	457.6	373.7	83.96	5.451	
10,000.0	7,500.0	10,267.5	7,740.0	50.1	50.8	-122.16	2,662.1	-460.1	451.7	365.3	86.44	5.225	
10,100.0	7,500.0	10,367.3	7,740.0	51.8	52.5	-122.64	2,761.9	-460.1	445.8	356.9	88.89	5.015	
10,200.0	7,500.0	10,467.0	7,740.0	53.5	54.1	-123.12	2,861.6	-460.1	439.9	348.6	91.30	4.819	
10,300.0	7,500.0	10,566.8	7,740.0	55.2	55.8	-123.63	2,961.4	-460.1	434.1	340.4	93.66	4.635	
10,400.0	7,500.0	10,666.6	7,740.0	56.9	57.5	-124.14	3,061.1	-460.1	428.3	332.3	95.98	4.463	
10,500.0	7,500.0	10,766.3	7,740.0	58.6	59.2	-124.67	3,160.9	-460.1	422.6	324.3	98.24	4.301	
10,600.0	7,500.0	10,866.1	7,740.0	60.3	60.9	-125.22	3,260.7	-460.1	416.8	316.4	100.45	4.150	
10,627.7	7,500.0	10,893.7	7,740.0	60.8	61.4	-125.37	3,288.3	-460.1	415.3	314.2	101.05	4.109	
10,700.0	7,500.0	10,965.9	7,740.0	62.0	62.6	-125.72	3,360.4	-460.1	411.5	308.9	102.63	4.010	
10,800.0	7,500.0	11,065.7	7,740.0	63.7	64.3	-126.10	3,460.3	-460.1	407.6	302.7	104.89	3.886	
10,900.0	7,500.0	11,162.4	7,740.0	65.5	65.9	-126.31	3,557.0	-460.4	405.3	298.1	107.26	3.779	
10,942.1	7,500.0	11,202.9	7,740.0	66.2	66.6	-126.33	3,597.5	-460.9	405.1	296.8	108.33	3.740	
11,000.0	7,500.0	11,260.8	7,740.0	67.2	67.6	-126.30	3,655.4	-461.8	405.4	295.5	109.89	3.689	
11,023.0	7,500.0	11,283.8	7,740.0	67.6	68.0	-126.28	3,678.4	-462.1	405.6	295.1	110.53	3.670	
11,100.0	7,500.0	11,360.8	7,740.0	68.9	69.3	-126.19	3,755.4	-463.3	406.5	293.7	112.79	3.604	
11,200.0	7,500.0	11,460.8	7,740.0	70.6	71.0	-126.07	3,855.3	-464.7	407.6	291.9	115.73	3.522	
11,300.0	7,500.0	11,560.8	7,740.0	72.3	72.8	-125.96	3,955.3	-466.2	408.8	290.1	118.68	3.444	
11,400.0	7,500.0	11,660.8	7,740.0	74.1	74.5	-125.84	4,055.3	-467.7	409.9	288.3	121.65	3.370	
11,500.0	7,500.0	11,760.8	7,740.0	75.8	76.2	-125.73	4,155.3	-469.2	411.1	286.4	124.62	3.298	
11,600.0	7,500.0	11,860.7	7,740.0	77.5	77.9	-125.61	4,255.3	-470.7	412.2	284.6	127.60	3.230	
11,700.0	7,500.0	11,960.7	7,740.0	79.3	79.6	-125.50	4,355.2	-472.2	413.3	282.8	130.59	3.165	
11,800.0	7,500.0	12,060.7	7,740.0	81.0	81.4	-125.38	4,455.2	-473.7	414.5	280.9	133.59	3.103	
11,900.0	7,500.0	12,160.7	7,740.0	82.7	83.1	-125.27	4,555.2	-475.2	415.7	279.1	136.60	3.043	
12,000.0	7,500.0	12,260.7	7,740.0	84.5	84.8	-125.16	4,655.2	-476.7	416.8	277.2	139.61	2.985	
12,100.0	7,500.0	12,360.7	7,740.0	86.2	86.5	-125.05	4,755.2	-478.2	418.0	275.3	142.63	2.930	
12,200.0	7,500.0	12,460.7	7,740.0	87.9	88.3	-124.94	4,855.1	-479.7	419.1	273.5	145.66	2.877	
12,300.0	7,500.0	12,560.7	7,740.0	89.7	90.0	-124.83	4,955.1	-481.2	420.3	271.6	148.70	2.826	
12,400.0	7,500.0	12,660.7	7,740.0	91.4	91.7	-124.72	5,055.1	-482.7	421.4	269.7	151.74	2.777	
12,500.0	7,500.0	12,760.7	7,740.0	93.1	93.5	-124.61	5,155.1	-484.2	422.6	267.8	154.80	2.730	
12,600.0	7,500.0	12,860.6	7,740.0	94.9	95.2	-124.50	5,255.0	-485.7	423.8	265.9	157.85	2.685	
12,700.0	7,500.0	12,960.6	7,740.0	96.6	96.9	-124.39	5,355.0	-487.2	424.9	264.0	160.92	2.641	
12,800.0	7,500.0	13,060.6	7,740.0	98.3	98.7	-124.28	5,455.0	-488.6	426.1	262.1	163.99	2.598	
12,900.0	7,500.0	13,160.6	7,740.0	100.1	100.4	-124.18	5,555.0	-490.1	427.3	260.2	167.07	2.557	
13,000.0	7,500.0	13,260.6	7,740.0	101.8	102.1	-124.07	5,655.0	-491.6	428.4	258.3	170.16	2.518	
13,100.0	7,500.0	13,360.6	7,740.0	103.6	103.9	-123.97	5,754.9	-493.1	429.6	256.4	173.25	2.480	
13,200.0	7,500.0	13,460.6	7,740.0	105.3	105.6	-123.86	5,854.9	-494.6	430.8	254.4	176.35	2.443	
13,300.0	7,500.0	13,560.6	7,740.0	107.0	107.3	-123.76	5,954.9	-496.1	431.9	252.5	179.45	2.407	
13,400.0	7,500.0	13,660.6	7,740.0	108.8	109.1	-123.65	6,054.9	-497.6	433.1	250.6	182.56	2.372	
13,500.0	7,500.0	13,760.6	7,740.0	110.5	110.8	-123.55	6,154.9	-499.1	434.3	248.6	185.68	2.339	
13,600.0	7,500.0	13,860.5	7,740.0	112.3	112.5	-123.45	6,254.8	-500.6	435.5	246.7	188.80	2.307	
13,700.0	7,500.0	13,960.5	7,740.0	114.0	114.3	-123.34	6,354.8	-502.1	436.7	244.7	191.92	2.275	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,800.0	7,500.0	14,060.5	7,740.0	115.7	116.0	-123.24	6,454.8	-503.6	437.8	242.8	195.06	2.245	
13,900.0	7,500.0	14,160.5	7,740.0	117.5	117.8	-123.14	6,554.8	-505.1	439.0	240.8	198.20	2.215	
14,000.0	7,500.0	14,260.5	7,740.0	119.2	119.5	-123.04	6,654.8	-506.6	440.2	238.9	201.34	2.186	
14,100.0	7,500.0	14,360.5	7,740.0	121.0	121.2	-122.94	6,754.7	-508.1	441.4	236.9	204.49	2.158	
14,200.0	7,500.0	14,460.5	7,740.0	122.7	123.0	-122.84	6,854.7	-509.6	442.6	234.9	207.65	2.131	
14,300.0	7,500.0	14,560.5	7,740.0	124.5	124.7	-122.74	6,954.7	-511.1	443.8	232.9	210.81	2.105	
14,400.0	7,500.0	14,660.5	7,740.0	126.2	126.5	-122.65	7,054.7	-512.5	444.9	231.0	213.97	2.079	
14,422.4	7,500.0	14,682.3	7,740.0	126.6	126.8	-122.62	7,076.5	-512.9	445.2	230.5	214.67	2.074 SF	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	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	400.0	400.0	0.7	0.7	-133.59	0.0	10.1	10.7	9.3	1.35	7.888	
500.0	500.0	500.0	500.0	0.9	0.8	-142.23	0.0	10.1	12.6	10.9	1.70	7.409	
600.0	599.9	599.9	599.9	1.0	1.0	-151.66	0.0	10.1	16.3	14.2	2.05	7.934	
700.0	699.8	699.5	699.5	1.2	1.2	-151.00	-0.1	10.9	20.9	18.5	2.40	8.700	
800.0	799.7	799.0	799.0	1.4	1.4	-135.88	-0.4	13.5	25.3	22.6	2.75	9.196	
865.6	865.4	864.4	864.3	1.5	1.5	-102.37	-0.7	16.1	28.1	25.1	2.98	9.411	
900.0	899.7	898.5	898.4	1.6	1.6	-101.38	-0.9	17.8	29.6	26.5	3.10	9.532	
1,000.0	999.7	998.4	998.1	1.7	1.7	-98.77	-1.5	22.9	34.3	30.8	3.46	9.918	
1,100.0	1,099.7	1,098.3	1,097.9	1.9	1.9	-96.79	-2.1	28.1	39.0	35.2	3.81	10.247	
1,200.0	1,199.7	1,198.2	1,197.6	2.1	2.1	-95.24	-2.7	33.3	43.8	39.7	4.16	10.530	
1,300.0	1,299.7	1,298.1	1,297.4	2.3	2.3	-93.99	-3.3	38.4	48.7	44.1	4.52	10.775	
1,400.0	1,399.7	1,397.9	1,397.1	2.4	2.5	-92.97	-3.9	43.6	53.5	48.6	4.87	10.989	
1,500.0	1,499.7	1,497.8	1,496.9	2.6	2.7	-92.12	-4.6	48.7	58.3	53.1	5.22	11.177	
1,600.0	1,599.7	1,597.7	1,596.6	2.8	2.9	-91.40	-5.2	53.9	63.2	57.6	5.57	11.343	
1,700.0	1,699.7	1,697.6	1,696.4	3.0	3.1	-90.78	-5.8	59.0	68.1	62.1	5.92	11.492	
1,800.0	1,799.7	1,797.4	1,796.1	3.1	3.3	-90.25	-6.4	64.2	72.9	66.7	6.27	11.625	
1,900.0	1,899.7	1,897.3	1,895.8	3.3	3.5	-89.78	-7.0	69.3	77.8	71.2	6.63	11.745	
2,000.0	1,999.6	1,997.2	1,995.6	3.5	3.7	-89.37	-7.6	74.5	82.7	75.7	6.98	11.853	
2,100.0	2,099.6	2,097.1	2,095.3	3.7	3.9	-89.00	-8.2	79.6	87.6	80.3	7.33	11.952	
2,200.0	2,199.6	2,197.0	2,195.1	3.9	4.0	-88.68	-8.8	84.8	92.5	84.8	7.68	12.042	
2,300.0	2,299.6	2,296.8	2,294.8	4.0	4.2	-88.38	-9.4	89.9	97.4	89.4	8.03	12.125	
2,400.0	2,399.6	2,396.7	2,394.6	4.2	4.4	-88.12	-10.0	95.1	102.3	93.9	8.38	12.201	
2,500.0	2,499.6	2,496.6	2,494.3	4.4	4.6	-87.87	-10.6	100.2	107.2	98.5	8.74	12.271	
2,600.0	2,599.6	2,596.5	2,594.1	4.6	4.8	-87.65	-11.2	105.4	112.1	103.0	9.09	12.336	
2,700.0	2,699.6	2,696.4	2,693.8	4.7	5.0	-87.45	-11.8	110.5	117.0	107.6	9.44	12.396	
2,800.0	2,799.6	2,796.2	2,793.5	4.9	5.2	-87.26	-12.4	115.7	121.9	112.1	9.79	12.453	
2,900.0	2,899.6	2,896.1	2,893.3	5.1	5.4	-87.09	-13.0	120.8	126.8	116.7	10.14	12.505	
3,000.0	2,999.6	2,996.0	2,993.0	5.3	5.6	-86.93	-13.7	126.0	131.7	121.2	10.49	12.554	
3,100.0	3,099.6	3,095.9	3,092.8	5.4	5.8	-86.79	-14.3	131.1	136.6	125.8	10.84	12.600	
3,200.0	3,199.6	3,195.8	3,192.5	5.6	6.0	-86.65	-14.9	136.3	141.5	130.3	11.19	12.643	
3,300.0	3,299.6	3,295.6	3,292.3	5.8	6.2	-86.52	-15.5	141.4	146.4	134.9	11.55	12.684	
3,400.0	3,399.5	3,395.5	3,392.0	6.0	6.4	-86.40	-16.1	146.6	151.4	139.5	11.90	12.722	
3,500.0	3,499.5	3,495.4	3,491.8	6.1	6.6	-86.29	-16.7	151.7	156.3	144.0	12.25	12.758	
3,600.0	3,599.5	3,595.3	3,591.5	6.3	6.8	-86.18	-17.3	156.9	161.2	148.6	12.60	12.793	
3,700.0	3,699.5	3,695.1	3,691.2	6.5	7.0	-86.08	-17.9	162.0	166.1	153.1	12.95	12.825	
3,800.0	3,799.5	3,795.0	3,791.0	6.7	7.2	-85.99	-18.5	167.2	171.0	157.7	13.30	12.856	
3,900.0	3,899.5	3,894.9	3,890.7	6.8	7.4	-85.90	-19.1	172.3	175.9	162.3	13.65	12.885	
4,000.0	3,999.5	3,994.8	3,990.5	7.0	7.6	-85.82	-19.7	177.5	180.8	166.8	14.00	12.913	
4,100.0	4,099.5	4,094.7	4,090.2	7.2	7.8	-85.74	-20.3	182.6	185.7	171.4	14.35	12.939	
4,200.0	4,199.5	4,194.5	4,190.0	7.4	8.0	-85.67	-20.9	187.8	190.7	175.9	14.71	12.964	
4,300.0	4,299.5	4,294.4	4,289.7	7.5	8.2	-85.59	-21.5	192.9	195.6	180.5	15.06	12.988	
4,400.0	4,399.5	4,394.3	4,389.4	7.7	8.3	-85.53	-22.1	198.1	200.5	185.1	15.41	13.011	
4,500.0	4,499.5	4,494.2	4,489.2	7.9	8.5	-85.46	-22.8	203.2	205.4	189.6	15.76	13.033	
4,600.0	4,599.5	4,594.1	4,588.9	8.1	8.7	-85.40	-23.4	208.4	210.3	194.2	16.11	13.054	
4,700.0	4,699.5	4,693.9	4,688.7	8.2	8.9	-85.34	-24.0	213.5	215.2	198.8	16.46	13.074	
4,800.0	4,799.5	4,793.8	4,788.4	8.4	9.1	-85.29	-24.6	218.7	220.1	203.3	16.81	13.094	
4,900.0	4,899.4	4,893.7	4,888.2	8.6	9.3	-85.23	-25.2	223.8	225.1	207.9	17.16	13.112	
5,000.0	4,999.4	4,993.6	4,987.9	8.8	9.5	-85.18	-25.8	229.0	230.0	212.5	17.52	13.130	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,099.4	5,093.5	5,087.7	8.9	9.7	-85.13	-26.4	234.1	234.9	217.0	17.87	13.147		
5,200.0	5,199.4	5,193.3	5,187.4	9.1	9.9	-85.09	-27.0	239.3	239.8	221.6	18.22	13.164		
5,300.0	5,299.4	5,293.2	5,287.1	9.3	10.1	-85.04	-27.6	244.4	244.7	226.2	18.57	13.180		
5,400.0	5,399.4	5,393.1	5,386.9	9.5	10.3	-85.00	-28.2	249.6	249.6	230.7	18.92	13.195		
5,500.0	5,499.4	5,493.0	5,486.6	9.6	10.5	-84.95	-28.8	254.7	254.6	235.3	19.27	13.210		
5,600.0	5,599.4	5,592.8	5,586.4	9.8	10.7	-84.91	-29.4	259.9	259.5	239.9	19.62	13.224		
5,700.0	5,699.4	5,692.7	5,686.1	10.0	10.9	-84.88	-30.0	265.0	264.4	244.4	19.97	13.238		
5,800.0	5,799.4	5,792.6	5,785.9	10.2	11.1	-84.84	-30.6	270.2	269.3	249.0	20.32	13.251		
5,900.0	5,899.4	5,892.5	5,885.6	10.3	11.3	-84.80	-31.3	275.3	274.2	253.6	20.68	13.264		
6,000.0	5,999.4	5,992.4	5,985.4	10.5	11.5	-84.77	-31.9	280.5	279.1	258.1	21.03	13.276		
6,100.0	6,099.4	6,092.2	6,085.1	10.7	11.7	-84.73	-32.5	285.6	284.1	262.7	21.38	13.288		
6,200.0	6,199.4	6,192.1	6,184.8	10.9	11.9	-84.70	-33.1	290.8	289.0	267.2	21.73	13.300		
6,300.0	6,299.4	6,292.0	6,284.6	11.1	12.1	-84.67	-33.7	295.9	293.9	271.8	22.08	13.311		
6,400.0	6,399.3	6,391.9	6,384.3	11.2	12.3	-84.64	-34.3	301.1	298.8	276.4	22.43	13.322		
6,500.0	6,499.3	6,491.8	6,484.1	11.4	12.5	-84.61	-34.9	306.2	303.7	280.9	22.78	13.332		
6,600.0	6,599.3	6,591.6	6,583.8	11.6	12.7	-84.58	-35.5	311.4	308.6	285.5	23.13	13.342		
6,700.0	6,699.3	6,691.5	6,683.6	11.8	12.9	-84.56	-36.1	316.5	313.6	290.1	23.48	13.352		
6,800.0	6,799.3	6,791.4	6,783.3	11.9	13.1	-84.53	-36.7	321.7	318.5	294.7	23.83	13.362		
6,900.0	6,899.3	6,891.3	6,883.1	12.1	13.3	-84.50	-37.3	326.8	323.4	299.2	24.19	13.371		
6,921.2	6,920.6	6,912.5	6,904.2	12.1	13.3	-84.50	-37.4	327.9	324.4	300.2	24.26	13.373		
6,950.0	6,949.3	6,941.2	6,932.9	12.2	13.4	79.69	-37.6	329.4	325.8	301.4	24.36	13.373		
7,000.0	6,999.1	6,990.9	6,982.6	12.3	13.5	82.80	-37.9	332.0	327.7	303.2	24.52	13.367		
7,050.0	7,048.4	7,040.1	7,031.7	12.3	13.5	84.63	-38.2	334.5	329.4	304.7	24.66	13.358		
7,100.0	7,096.7	7,088.3	7,079.8	12.4	13.6	86.85	-38.5	337.0	331.0	306.2	24.79	13.354		
7,150.0	7,143.8	7,135.1	7,126.6	12.5	13.7	89.53	-38.8	339.4	333.2	308.3	24.92	13.372		
7,200.0	7,189.2	7,180.7	7,172.1	12.5	13.8	92.56	-39.0	341.8	336.5	311.4	25.05	13.433		
7,250.0	7,232.6	7,228.5	7,219.7	12.6	13.9	95.76	-36.6	344.2	341.2	316.0	25.18	13.550		
7,300.0	7,273.7	7,278.3	7,269.0	12.7	14.0	98.90	-29.9	346.6	347.2	321.9	25.31	13.716		
7,350.0	7,312.1	7,330.5	7,319.8	12.9	14.1	101.95	-18.3	349.0	354.4	329.0	25.45	13.928		
7,400.0	7,347.6	7,385.4	7,371.9	13.1	14.2	104.92	-1.2	351.4	362.8	337.2	25.58	14.182		
7,450.0	7,379.9	7,443.3	7,424.8	13.3	14.3	107.77	22.2	353.7	371.9	346.2	25.72	14.458		
7,500.0	7,408.8	7,504.7	7,478.0	13.5	14.5	110.50	52.7	355.9	381.6	355.8	25.88	14.747		
7,550.0	7,434.0	7,569.9	7,530.6	13.8	14.7	113.08	91.2	358.0	391.6	365.6	26.06	15.025		
7,600.0	7,455.3	7,639.4	7,581.4	14.2	14.9	115.49	138.4	359.8	401.5	375.2	26.29	15.271		
7,650.0	7,472.7	7,713.2	7,628.9	14.6	15.3	117.69	195.0	361.2	410.9	384.3	26.59	15.451		
7,700.0	7,485.8	7,791.7	7,670.8	15.0	15.7	119.63	261.2	362.2	419.4	392.4	27.00	15.535		
7,750.0	7,494.7	7,874.5	7,704.8	15.5	16.3	121.26	336.6	362.7	426.6	399.1	27.54	15.490		
7,800.0	7,499.3	7,961.2	7,728.5	16.0	17.0	122.52	420.0	362.4	432.1	403.9	28.25	15.297		
7,827.7	7,500.0	8,010.7	7,736.2	16.3	17.5	123.04	468.8	362.0	434.3	405.6	28.72	15.122		
7,900.0	7,500.0	8,112.4	7,740.0	17.2	18.6	123.44	570.4	360.4	435.5	405.3	30.28	14.383		
8,000.0	7,500.0	8,212.4	7,740.0	18.4	19.7	123.44	670.4	358.7	435.5	403.2	32.32	13.474		
8,100.0	7,500.0	8,312.4	7,740.0	19.7	21.0	123.44	770.3	356.9	435.5	401.0	34.50	12.625		
8,200.0	7,500.0	8,412.4	7,740.0	21.1	22.3	123.44	870.3	355.2	435.5	398.8	36.78	11.843		
8,300.0	7,500.0	8,512.4	7,740.0	22.5	23.6	123.44	970.3	353.4	435.5	396.4	39.14	11.127		
8,400.0	7,500.0	8,612.4	7,740.0	24.0	25.0	123.44	1,070.3	351.7	435.5	394.0	41.58	10.475		
8,500.0	7,500.0	8,712.4	7,740.0	25.5	26.5	123.44	1,170.3	349.9	435.5	391.5	44.08	9.881		
8,600.0	7,500.0	8,812.4	7,740.0	27.0	28.0	123.44	1,270.3	348.2	435.5	388.9	46.63	9.340		
8,700.0	7,500.0	8,912.4	7,740.0	28.6	29.5	123.44	1,370.2	346.4	435.5	386.3	49.22	8.848		
8,800.0	7,500.0	9,012.4	7,740.0	30.2	31.0	123.44	1,470.2	344.7	435.5	383.7	51.85	8.399		
8,900.0	7,500.0	9,112.4	7,740.0	31.8	32.6	123.44	1,570.2	342.9	435.5	381.0	54.51	7.989		
9,000.0	7,500.0	9,212.4	7,740.0	33.4	34.1	123.44	1,670.2	341.2	435.5	378.3	57.20	7.614		
9,027.7	7,500.0	9,240.2	7,740.0	33.8	34.6	123.44	1,697.9	340.7	435.5	377.6	57.95	7.515		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,100.0	7,500.0	9,312.4	7,740.0	35.0	35.7	123.44	1,770.2	339.5	435.5	375.6	59.91	7.269	
9,127.7	7,500.0	9,340.2	7,740.0	35.5	36.2	123.44	1,797.9	339.0	435.5	374.9	60.67	7.179	
9,127.7	7,500.0	9,340.2	7,740.0	35.5	36.2	123.44	1,797.9	339.0	435.5	374.9	60.67	7.179	
9,200.0	7,500.0	9,412.4	7,740.0	36.6	37.4	123.41	1,870.2	337.7	435.9	373.3	62.59	6.965	
9,300.0	7,500.0	9,512.4	7,740.0	38.3	39.0	123.26	1,970.1	336.0	437.7	372.4	65.32	6.701	
9,400.0	7,500.0	9,612.3	7,740.0	40.0	40.6	123.01	2,070.0	334.2	440.9	372.8	68.13	6.473	
9,427.7	7,500.0	9,640.0	7,740.0	40.4	41.1	122.91	2,097.7	333.7	442.1	373.2	68.92	6.415	
9,500.0	7,500.0	9,712.2	7,740.0	41.6	42.2	122.65	2,169.9	332.5	445.3	374.2	71.12	6.261	
9,600.0	7,500.0	9,812.1	7,740.0	43.3	43.9	122.29	2,269.7	330.7	449.7	375.5	74.20	6.061	
9,700.0	7,500.0	9,911.9	7,740.0	45.0	45.6	121.94	2,369.6	329.0	454.1	376.8	77.29	5.875	
9,800.0	7,500.0	10,011.8	7,740.0	46.7	47.2	121.59	2,469.4	327.3	458.6	378.2	80.42	5.703	
9,900.0	7,500.0	10,111.6	7,740.0	48.4	48.9	121.25	2,569.3	325.5	463.1	379.5	83.56	5.541	
10,000.0	7,500.0	10,211.5	7,740.0	50.1	50.6	120.92	2,669.1	323.8	467.5	380.8	86.73	5.391	
10,100.0	7,500.0	10,311.4	7,740.0	51.8	52.2	120.59	2,769.0	322.0	472.0	382.1	89.92	5.250	
10,200.0	7,500.0	10,411.2	7,740.0	53.5	53.9	120.27	2,868.8	320.3	476.6	383.4	93.12	5.118	
10,300.0	7,500.0	10,511.1	7,740.0	55.2	55.6	119.96	2,968.7	318.5	481.1	384.7	96.34	4.993	
10,400.0	7,500.0	10,611.0	7,740.0	56.9	57.3	119.65	3,068.5	316.8	485.6	386.0	99.58	4.877	
10,500.0	7,500.0	10,710.8	7,740.0	58.6	59.0	119.35	3,168.4	315.1	490.2	387.3	102.84	4.767	
10,600.0	7,500.0	10,810.7	7,740.0	60.3	60.7	119.05	3,268.2	313.3	494.8	388.6	106.10	4.663	
10,627.7	7,500.0	10,838.4	7,740.0	60.8	61.2	118.97	3,295.9	312.8	496.0	389.0	107.01	4.635	
10,700.0	7,500.0	10,910.6	7,740.0	62.0	62.4	118.77	3,368.1	311.6	498.9	389.4	109.50	4.557	
10,800.0	7,500.0	11,010.5	7,740.0	63.7	64.1	118.59	3,468.0	309.8	501.7	388.8	112.83	4.446	
10,900.0	7,500.0	11,110.5	7,740.0	65.5	65.8	118.51	3,568.0	308.1	502.9	386.8	116.05	4.333	
11,000.0	7,500.0	11,210.5	7,740.0	67.2	67.5	118.53	3,668.0	306.3	502.5	383.4	119.13	4.218	
11,023.0	7,500.0	11,233.5	7,740.0	67.6	67.9	118.55	3,691.0	305.9	502.2	382.4	119.82	4.191	
11,100.0	7,500.0	11,310.5	7,740.0	68.9	69.3	118.62	3,767.9	304.6	501.1	379.0	122.08	4.105	
11,200.0	7,500.0	11,410.5	7,740.0	70.6	71.0	118.71	3,867.9	302.8	499.6	374.6	125.01	3.997	
11,300.0	7,500.0	11,510.5	7,740.0	72.3	72.7	118.80	3,967.9	301.1	498.2	370.2	127.93	3.894	
11,400.0	7,500.0	11,610.5	7,740.0	74.1	74.4	118.90	4,067.9	299.4	496.7	365.9	130.85	3.796	
11,500.0	7,500.0	11,710.4	7,740.0	75.8	76.1	118.99	4,167.8	297.6	495.3	361.5	133.77	3.702	
11,600.0	7,500.0	11,810.4	7,740.0	77.5	77.9	119.08	4,267.8	295.9	493.8	357.1	136.68	3.613	
11,700.0	7,500.0	11,910.4	7,740.0	79.3	79.6	119.18	4,367.8	294.1	492.4	352.8	139.58	3.527	
11,800.0	7,500.0	12,010.4	7,740.0	81.0	81.3	119.27	4,467.7	292.4	490.9	348.4	142.49	3.445	
11,900.0	7,500.0	12,110.4	7,740.0	82.7	83.0	119.37	4,567.7	290.6	489.4	344.1	145.39	3.367	
12,000.0	7,500.0	12,210.4	7,740.0	84.5	84.8	119.46	4,667.7	288.9	488.0	339.7	148.28	3.291	
12,100.0	7,500.0	12,310.4	7,740.0	86.2	86.5	119.56	4,767.7	287.1	486.6	335.4	151.17	3.219	
12,200.0	7,500.0	12,410.3	7,740.0	87.9	88.2	119.66	4,867.6	285.4	485.1	331.1	154.05	3.149	
12,300.0	7,500.0	12,510.3	7,740.0	89.7	89.9	119.75	4,967.6	283.6	483.7	326.7	156.92	3.082	
12,400.0	7,500.0	12,610.3	7,740.0	91.4	91.7	119.85	5,067.6	281.9	482.2	322.4	159.79	3.018	
12,500.0	7,500.0	12,710.3	7,740.0	93.1	93.4	119.95	5,167.5	280.2	480.8	318.1	162.66	2.956	
12,600.0	7,500.0	12,810.3	7,740.0	94.9	95.1	120.05	5,267.5	278.4	479.3	313.8	165.52	2.896	
12,700.0	7,500.0	12,910.3	7,740.0	96.6	96.9	120.15	5,367.5	276.7	477.9	309.5	168.37	2.838	
12,800.0	7,500.0	13,010.3	7,740.0	98.3	98.6	120.25	5,467.5	274.9	476.5	305.2	171.22	2.783	
12,900.0	7,500.0	13,110.2	7,740.0	100.1	100.3	120.35	5,567.4	273.2	475.0	301.0	174.06	2.729	
13,000.0	7,500.0	13,210.2	7,740.0	101.8	102.1	120.45	5,667.4	271.4	473.6	296.7	176.89	2.677	
13,100.0	7,500.0	13,310.2	7,740.0	103.6	103.8	120.55	5,767.4	269.7	472.2	292.4	179.71	2.627	
13,200.0	7,500.0	13,410.2	7,740.0	105.3	105.6	120.66	5,867.3	267.9	470.7	288.2	182.53	2.579	
13,300.0	7,500.0	13,510.2	7,740.0	107.0	107.3	120.76	5,967.3	266.2	469.3	283.9	185.34	2.532	
13,400.0	7,500.0	13,610.2	7,740.0	108.8	109.0	120.87	6,067.3	264.5	467.9	279.7	188.15	2.487	
13,500.0	7,500.0	13,710.2	7,740.0	110.5	110.8	120.97	6,167.2	262.7	466.4	275.5	190.94	2.443	
13,600.0	7,500.0	13,810.2	7,740.0	112.3	112.5	121.08	6,267.2	261.0	465.0	271.3	193.73	2.400	
13,700.0	7,500.0	13,910.1	7,740.0	114.0	114.3	121.18	6,367.2	259.2	463.6	267.1	196.51	2.359	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4				Offset Site Error:		0.0 ft	
Survey Program:										0-Geolink MWD				Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
13,800.0	7,500.0	14,010.1	7,740.0	115.7	116.0	121.29	6,467.2	257.5	462.2	262.9	199.29	2.319					
13,900.0	7,500.0	14,112.6	7,740.0	117.5	117.8	121.41	6,569.6	255.6	460.7	258.6	202.07	2.280					
14,000.0	7,500.0	14,219.9	7,740.0	119.2	119.6	121.63	6,676.8	252.0	457.9	253.2	204.69	2.237					
14,100.0	7,500.0	14,327.0	7,740.0	121.0	121.5	121.99	6,783.8	246.5	453.6	246.6	206.99	2.191					
14,200.0	7,500.0	14,427.6	7,740.0	122.7	123.3	122.42	6,884.2	240.1	448.3	239.3	209.04	2.145					
14,300.0	7,500.0	14,527.4	7,740.0	124.5	125.0	122.85	6,983.8	233.8	443.0	232.0	211.01	2.100					
14,400.0	7,500.0	14,627.2	7,740.0	126.2	126.7	123.29	7,083.4	227.5	437.8	224.9	212.93	2.056					
14,422.4	7,500.0	14,632.3	7,740.0	126.6	126.8	123.32	7,088.5	227.2	437.0	223.7	213.27	2.049 SF					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
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 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-131.87	0.0	19.9	20.4	19.1	1.35	15.130		
500.0	500.0	500.0	500.0	0.9	0.8	-136.88	0.0	19.9	22.3	20.6	1.70	13.089		
600.0	599.9	599.4	599.4	1.0	1.0	-142.87	-0.1	20.7	26.5	24.4	2.05	12.884		
700.0	699.8	698.8	698.7	1.2	1.2	-140.63	-0.4	23.3	32.3	29.9	2.40	13.455		
800.0	799.7	798.0	797.9	1.4	1.4	-125.64	-0.9	27.6	38.3	35.5	2.76	13.891		
865.6	865.4	863.1	862.9	1.5	1.5	-92.69	-1.3	31.3	42.2	39.2	2.99	14.117		
900.0	899.7	897.2	896.9	1.6	1.6	-92.09	-1.5	33.5	44.3	41.2	3.11	14.253		
1,000.0	999.7	996.1	995.5	1.7	1.8	-90.19	-2.4	41.2	51.6	48.1	3.46	14.916		
1,100.0	1,099.7	1,095.5	1,094.4	1.9	2.0	-88.36	-3.4	50.2	60.2	56.4	3.81	15.791		
1,200.0	1,199.7	1,195.1	1,193.6	2.1	2.2	-86.96	-4.4	59.3	68.9	64.7	4.16	16.548		
1,300.0	1,299.7	1,294.7	1,292.8	2.3	2.4	-85.88	-5.4	68.4	77.7	73.1	4.52	17.196		
1,400.0	1,399.7	1,394.3	1,392.0	2.4	2.6	-85.02	-6.5	77.4	86.4	81.6	4.87	17.756		
1,500.0	1,499.7	1,493.9	1,491.2	2.6	2.9	-84.32	-7.5	86.5	95.2	90.0	5.22	18.244		
1,600.0	1,599.7	1,593.5	1,590.4	2.8	3.1	-83.73	-8.5	95.6	104.0	98.4	5.57	18.673		
1,700.0	1,699.7	1,693.1	1,689.6	3.0	3.3	-83.24	-9.5	104.7	112.8	106.9	5.92	19.053		
1,800.0	1,799.7	1,792.7	1,788.8	3.1	3.6	-82.82	-10.5	113.8	121.6	115.4	6.27	19.392		
1,900.0	1,899.7	1,892.3	1,887.9	3.3	3.8	-82.45	-11.5	122.8	130.5	123.8	6.62	19.696		
2,000.0	1,999.6	1,991.9	1,987.1	3.5	4.0	-82.14	-12.6	131.9	139.3	132.3	6.97	19.971		
2,100.0	2,099.6	2,091.6	2,086.3	3.7	4.2	-81.86	-13.6	141.0	148.1	140.8	7.32	20.220		
2,200.0	2,199.6	2,191.2	2,185.5	3.9	4.5	-81.61	-14.6	150.1	156.9	149.3	7.68	20.447		
2,300.0	2,299.6	2,290.8	2,284.7	4.0	4.7	-81.38	-15.6	159.2	165.8	157.7	8.03	20.654		
2,400.0	2,399.6	2,390.4	2,383.9	4.2	4.9	-81.18	-16.6	168.3	174.6	166.2	8.38	20.844		
2,500.0	2,499.6	2,490.0	2,483.1	4.4	5.2	-81.00	-17.6	177.3	183.4	174.7	8.73	21.020		
2,600.0	2,599.6	2,589.6	2,582.3	4.6	5.4	-80.84	-18.7	186.4	192.3	183.2	9.08	21.182		
2,700.0	2,699.6	2,689.2	2,681.4	4.7	5.6	-80.69	-19.7	195.5	201.1	191.7	9.43	21.332		
2,800.0	2,799.6	2,788.8	2,780.6	4.9	5.9	-80.55	-20.7	204.6	210.0	200.2	9.78	21.471		
2,900.0	2,899.6	2,888.4	2,879.8	5.1	6.1	-80.43	-21.7	213.7	218.8	208.7	10.13	21.601		
3,000.0	2,999.6	2,988.0	2,979.0	5.3	6.3	-80.31	-22.7	222.8	227.7	217.2	10.48	21.723		
3,100.0	3,099.6	3,087.6	3,078.2	5.4	6.6	-80.20	-23.8	231.8	236.5	225.7	10.83	21.837		
3,200.0	3,199.6	3,187.2	3,177.4	5.6	6.8	-80.10	-24.8	240.9	245.3	234.2	11.18	21.943		
3,300.0	3,299.6	3,286.8	3,276.6	5.8	7.1	-80.01	-25.8	250.0	254.2	242.7	11.53	22.044		
3,400.0	3,399.5	3,386.4	3,375.7	6.0	7.3	-79.93	-26.8	259.1	263.0	251.2	11.88	22.138		
3,500.0	3,499.5	3,486.1	3,474.9	6.1	7.5	-79.84	-27.8	268.2	271.9	259.7	12.23	22.227		
3,600.0	3,599.5	3,585.7	3,574.1	6.3	7.8	-79.77	-28.8	277.3	280.7	268.2	12.58	22.311		
3,700.0	3,699.5	3,685.3	3,673.3	6.5	8.0	-79.70	-29.9	286.3	289.6	276.7	12.93	22.391		
3,800.0	3,799.5	3,784.9	3,772.5	6.7	8.2	-79.63	-30.9	295.4	298.4	285.2	13.28	22.467		
3,900.0	3,899.5	3,884.5	3,871.7	6.8	8.5	-79.57	-31.9	304.5	307.3	293.7	13.63	22.538		
4,000.0	3,999.5	3,984.1	3,970.9	7.0	8.7	-79.51	-32.9	313.6	316.1	302.1	13.98	22.606		
4,100.0	4,099.5	4,083.7	4,070.1	7.2	8.9	-79.45	-33.9	322.7	325.0	310.6	14.33	22.671		
4,200.0	4,199.5	4,183.3	4,169.2	7.4	9.2	-79.40	-35.0	331.8	333.8	319.1	14.69	22.733		
4,300.0	4,299.5	4,282.9	4,268.4	7.5	9.4	-79.35	-36.0	340.8	342.7	327.7	15.04	22.792		
4,400.0	4,399.5	4,382.5	4,367.6	7.7	9.6	-79.30	-37.0	349.9	351.5	336.2	15.39	22.848		
4,500.0	4,499.5	4,482.1	4,466.8	7.9	9.9	-79.25	-38.0	359.0	360.4	344.7	15.74	22.902		
4,600.0	4,599.5	4,581.7	4,566.0	8.1	10.1	-79.21	-39.0	368.1	369.2	353.2	16.09	22.953		
4,700.0	4,699.5	4,681.3	4,665.2	8.2	10.3	-79.17	-40.0	377.2	378.1	361.7	16.44	23.003		
4,800.0	4,799.5	4,780.9	4,764.4	8.4	10.6	-79.13	-41.1	386.3	386.9	370.2	16.79	23.050		
4,900.0	4,899.4	4,880.6	4,863.6	8.6	10.8	-79.09	-42.1	395.3	395.8	378.7	17.14	23.095		
5,000.0	4,999.4	4,980.2	4,962.7	8.8	11.1	-79.06	-43.1	404.4	404.6	387.2	17.49	23.138		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4										Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD										Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,100.0	5,099.4	5,079.8	5,061.9	8.9	11.3	-79.02	-44.1	413.5	413.5	395.7	17.84	23.180	
5,200.0	5,199.4	5,179.4	5,161.1	9.1	11.5	-78.99	-45.1	422.6	422.4	404.2	18.19	23.220	
5,300.0	5,299.4	5,279.0	5,260.3	9.3	11.8	-78.96	-46.2	431.7	431.2	412.7	18.54	23.259	
5,400.0	5,399.4	5,378.6	5,359.5	9.5	12.0	-78.93	-47.2	440.8	440.1	421.2	18.89	23.296	
5,500.0	5,499.4	5,478.2	5,458.7	9.6	12.2	-78.90	-48.2	449.8	448.9	429.7	19.24	23.332	
5,600.0	5,599.4	5,577.8	5,557.9	9.8	12.5	-78.87	-49.2	458.9	457.8	438.2	19.59	23.367	
5,700.0	5,699.4	5,677.4	5,657.0	10.0	12.7	-78.84	-50.2	468.0	466.6	446.7	19.94	23.400	
5,800.0	5,799.4	5,777.0	5,756.2	10.2	12.9	-78.82	-51.2	477.1	475.5	455.2	20.29	23.433	
5,900.0	5,899.4	5,876.6	5,855.4	10.3	13.2	-78.79	-52.3	486.2	484.3	463.7	20.64	23.464	
6,000.0	5,999.4	5,976.2	5,954.6	10.5	13.4	-78.77	-53.3	495.3	493.2	472.2	20.99	23.494	
6,100.0	6,099.4	6,075.8	6,053.8	10.7	13.6	-78.74	-54.3	504.3	502.0	480.7	21.34	23.523	
6,200.0	6,199.4	6,175.4	6,153.0	10.9	13.9	-78.72	-55.3	513.4	510.9	489.2	21.69	23.551	
6,300.0	6,299.4	6,275.1	6,252.2	11.1	14.1	-78.70	-56.3	522.5	519.7	497.7	22.04	23.579	
6,400.0	6,399.3	6,374.7	6,351.4	11.2	14.4	-78.68	-57.3	531.6	528.6	506.2	22.39	23.605	
6,500.0	6,499.3	6,474.3	6,450.5	11.4	14.6	-78.66	-58.4	540.7	537.4	514.7	22.74	23.631	
6,600.0	6,599.3	6,573.9	6,549.7	11.6	14.8	-78.64	-59.4	549.8	546.3	523.2	23.09	23.656	
6,700.0	6,699.3	6,673.5	6,648.9	11.8	15.1	-78.62	-60.4	558.8	555.2	531.7	23.44	23.680	
6,800.0	6,799.3	6,773.1	6,748.1	11.9	15.3	-78.60	-61.4	567.9	564.0	540.2	23.79	23.703	
6,900.0	6,899.3	6,872.7	6,847.3	12.1	15.5	-78.58	-62.4	577.0	572.9	548.7	24.14	23.726	
6,921.2	6,920.6	6,893.9	6,868.4	12.1	15.6	-78.58	-62.7	578.9	574.7	550.5	24.22	23.731	
6,950.0	6,949.3	6,922.5	6,896.9	12.2	15.7	85.43	-62.9	581.5	577.3	553.0	24.32	23.736	
7,000.0	6,999.1	6,971.3	6,945.5	12.3	15.8	87.90	-63.0	586.0	581.7	557.2	24.48	23.762	
7,050.0	7,048.4	7,019.4	6,993.3	12.3	15.9	88.39	-59.7	590.4	586.1	561.5	24.62	23.806	
7,100.0	7,096.7	7,067.9	7,041.0	12.4	16.0	88.62	-52.3	594.9	590.7	565.9	24.75	23.861	
7,150.0	7,143.8	7,116.8	7,088.3	12.5	16.1	88.78	-40.8	599.3	595.3	570.4	24.89	23.918	
7,200.0	7,189.2	7,166.2	7,134.9	12.5	16.2	88.89	-25.0	603.8	599.9	574.8	25.03	23.965	
7,250.0	7,232.6	7,216.0	7,180.3	12.6	16.3	88.99	-5.1	608.1	604.4	579.2	25.20	23.985	
7,300.0	7,273.7	7,266.4	7,224.3	12.7	16.4	89.08	18.9	612.4	609.0	583.6	25.40	23.974	
7,350.0	7,312.1	7,317.2	7,266.4	12.9	16.6	89.17	47.0	616.6	613.4	587.7	25.65	23.912	
7,400.0	7,347.6	7,368.6	7,306.3	13.1	16.7	89.26	79.1	620.6	617.7	591.7	25.97	23.786	
7,450.0	7,379.9	7,420.4	7,343.5	13.3	16.9	89.34	115.1	624.4	621.8	595.5	26.36	23.588	
7,500.0	7,408.8	7,472.8	7,377.6	13.5	17.1	89.43	154.7	627.9	625.8	598.9	26.85	23.311	
7,550.0	7,434.0	7,525.8	7,408.3	13.8	17.4	89.51	197.7	631.2	629.5	602.1	27.43	22.952	
7,600.0	7,455.3	7,579.2	7,435.1	14.2	17.7	89.59	243.8	634.1	632.9	604.8	28.11	22.516	
7,650.0	7,472.7	7,633.1	7,457.7	14.6	18.0	89.67	292.6	636.7	636.1	607.2	28.90	22.009	
7,700.0	7,485.8	7,687.5	7,475.7	15.0	18.4	89.75	343.9	638.9	638.9	609.1	29.79	21.444	
7,750.0	7,494.7	7,742.4	7,489.0	15.5	18.9	89.83	397.0	640.6	641.3	610.5	30.78	20.835	
7,800.0	7,499.3	7,797.6	7,497.1	16.0	19.3	89.90	451.6	642.0	643.3	611.5	31.85	20.197	
7,827.7	7,500.0	7,828.3	7,499.4	16.3	19.6	89.94	482.3	642.5	644.3	611.8	32.49	19.833	
7,900.0	7,500.0	7,903.3	7,500.0	17.2	20.3	90.00	557.3	643.3	646.4	612.2	34.15	18.925	
8,000.0	7,500.0	8,003.3	7,500.0	18.4	21.4	90.00	657.2	644.4	649.1	612.5	36.59	17.739	
8,100.0	7,500.0	8,103.2	7,500.0	19.7	22.5	90.00	757.2	645.4	651.9	612.7	39.20	16.633	
8,200.0	7,500.0	8,203.2	7,500.0	21.1	23.7	90.00	857.1	646.5	654.7	612.8	41.93	15.615	
8,300.0	7,500.0	8,303.2	7,500.0	22.5	25.0	90.00	957.1	647.5	657.5	612.7	44.77	14.686	
8,400.0	7,500.0	8,403.1	7,500.0	24.0	26.3	90.00	1,057.0	648.6	660.3	612.6	47.70	13.842	
8,500.0	7,500.0	8,503.1	7,500.0	25.5	27.7	90.00	1,157.0	649.6	663.1	612.4	50.71	13.077	
8,600.0	7,500.0	8,603.1	7,500.0	27.0	29.1	90.00	1,256.9	650.7	665.9	612.1	53.77	12.384	
8,700.0	7,500.0	8,703.0	7,500.0	28.6	30.6	90.00	1,356.9	651.7	668.7	611.8	56.89	11.754	
8,800.0	7,500.0	8,803.0	7,500.0	30.2	32.1	90.00	1,456.9	652.8	671.5	611.4	60.05	11.182	
8,900.0	7,500.0	8,902.9	7,500.0	31.8	33.6	90.00	1,556.8	653.8	674.3	611.0	63.24	10.662	
9,000.0	7,500.0	9,002.9	7,500.0	33.4	35.1	90.00	1,656.8	654.8	677.1	610.6	66.47	10.186	
9,027.7	7,500.0	9,030.6	7,500.0	33.8	35.5	90.00	1,684.5	655.1	677.8	610.5	67.37	10.061	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,100.0	7,500.0	9,102.9	7,500.0	35.0	36.7	90.00	1,756.7	655.9	679.9	610.1	69.73	9.751	
9,127.7	7,500.0	9,130.6	7,500.0	35.5	37.1	90.00	1,784.4	656.2	680.6	610.0	70.63	9.636	
9,200.0	7,500.0	9,202.8	7,500.0	36.6	38.2	90.00	1,856.7	656.9	683.1	610.2	72.86	9.375	
9,300.0	7,500.0	9,302.7	7,500.0	38.3	39.8	90.00	1,956.5	658.0	688.0	612.1	75.95	9.059	
9,400.0	7,500.0	9,402.5	7,500.0	40.0	41.4	90.00	2,056.3	659.0	694.7	615.7	79.02	8.791	
9,427.7	7,500.0	9,430.1	7,500.0	40.4	41.8	90.00	2,083.9	659.3	696.9	617.0	79.88	8.724	
9,500.0	7,500.0	9,502.1	7,500.0	41.6	43.0	90.00	2,156.0	660.1	702.6	620.4	82.28	8.540	
9,600.0	7,500.0	9,601.8	7,500.0	43.3	44.6	90.00	2,255.7	661.1	710.7	625.1	85.61	8.301	
9,700.0	7,500.0	9,701.5	7,500.0	45.0	46.2	90.00	2,355.3	662.2	718.7	629.7	88.96	8.079	
9,800.0	7,500.0	9,801.2	7,500.0	46.7	47.9	90.00	2,455.0	663.2	726.7	634.4	92.32	7.872	
9,900.0	7,500.0	9,900.9	7,500.0	48.4	49.5	90.00	2,554.7	664.2	734.7	639.0	95.69	7.679	
10,000.0	7,500.0	10,000.5	7,500.0	50.1	51.2	90.00	2,654.3	665.3	742.7	643.7	99.06	7.498	
10,100.0	7,500.0	10,108.4	7,500.0	51.8	53.0	90.00	2,762.2	666.1	750.5	647.9	102.59	7.315	
10,200.0	7,500.0	10,223.3	7,500.0	53.5	54.9	90.00	2,877.1	664.9	756.4	650.2	106.25	7.119	
10,300.0	7,500.0	10,338.5	7,500.0	55.2	56.8	90.00	2,992.2	661.4	760.3	650.4	109.92	6.917	
10,400.0	7,500.0	10,453.8	7,500.0	56.9	58.7	90.00	3,107.4	655.5	762.3	648.7	113.60	6.710	
10,500.0	7,500.0	10,569.1	7,500.0	58.6	60.6	90.00	3,222.4	647.4	762.2	644.9	117.29	6.498	
10,600.0	7,500.0	10,684.4	7,500.0	60.3	62.5	90.00	3,337.2	636.9	760.1	639.1	120.98	6.282	
10,627.7	7,500.0	10,716.4	7,500.0	60.8	63.0	90.00	3,369.0	633.6	759.1	637.1	122.01	6.222	
10,700.0	7,500.0	10,799.5	7,500.0	62.0	64.4	90.00	3,451.6	624.2	755.5	630.6	124.87	6.050	
10,800.0	7,500.0	10,913.2	7,500.0	63.7	66.3	90.00	3,564.3	609.3	747.3	618.5	128.78	5.803	
10,900.0	7,500.0	11,012.6	7,500.0	65.5	67.9	90.00	3,662.8	595.5	736.4	604.0	132.40	5.562	
11,000.0	7,500.0	11,111.8	7,500.0	67.2	69.6	90.00	3,761.0	581.7	723.8	587.9	135.98	5.323	
11,023.0	7,500.0	11,134.6	7,500.0	67.6	70.0	90.00	3,783.6	578.5	720.7	583.9	136.80	5.268	
11,100.0	7,500.0	11,210.8	7,500.0	68.9	71.2	90.00	3,859.1	567.9	710.1	570.6	139.44	5.092	
11,200.0	7,500.0	11,300.0	7,500.0	70.6	72.7	90.00	3,947.4	555.7	696.5	553.8	142.69	4.881	
11,300.0	7,500.0	11,392.6	7,500.0	72.3	74.3	90.00	4,039.3	544.2	684.2	538.2	146.01	4.686	
11,400.0	7,500.0	11,481.5	7,500.0	74.1	75.8	90.00	4,127.7	534.6	673.5	524.2	149.28	4.512	
11,500.0	7,500.0	11,570.7	7,500.0	75.8	77.3	90.00	4,216.5	526.4	664.3	511.8	152.54	4.355	
11,600.0	7,500.0	11,660.1	7,500.0	77.5	78.8	90.00	4,305.6	519.5	656.7	500.9	155.82	4.215	
11,700.0	7,500.0	11,749.7	7,500.0	79.3	80.4	90.00	4,395.1	514.0	650.7	491.6	159.10	4.090	
11,800.0	7,500.0	11,839.4	7,500.0	81.0	81.9	90.00	4,484.7	510.0	646.2	483.8	162.39	3.979	
11,900.0	7,500.0	11,929.3	7,500.0	82.7	83.4	90.00	4,574.5	507.3	643.3	477.6	165.68	3.883	
12,000.0	7,500.0	12,019.2	7,500.0	84.5	85.0	90.00	4,664.4	506.0	641.9	473.0	168.97	3.799	
12,035.9	7,500.0	12,051.5	7,500.0	85.1	85.5	90.00	4,696.7	505.9	641.8	471.7	170.15	3.772	
12,100.0	7,500.0	12,109.1	7,500.0	86.2	86.5	90.00	4,754.3	506.1	642.2	469.9	172.26	3.728	
12,200.0	7,500.0	12,202.4	7,500.0	87.9	88.1	90.00	4,847.6	507.6	643.9	468.3	175.61	3.666	
12,300.0	7,500.0	12,302.4	7,500.0	89.7	89.9	90.00	4,947.5	509.6	645.9	466.8	179.08	3.607	
12,400.0	7,500.0	12,402.3	7,500.0	91.4	91.6	90.00	5,047.5	511.6	648.0	465.4	182.55	3.550	
12,500.0	7,500.0	12,502.3	7,500.0	93.1	93.3	90.00	5,147.4	513.5	650.0	464.0	186.03	3.494	
12,600.0	7,500.0	12,602.3	7,500.0	94.9	95.1	90.00	5,247.4	515.5	652.1	462.6	189.50	3.441	
12,700.0	7,500.0	12,702.3	7,500.0	96.6	96.8	90.00	5,347.4	517.5	654.1	461.2	192.98	3.390	
12,800.0	7,500.0	12,802.2	7,500.0	98.3	98.5	90.00	5,447.3	519.5	656.2	459.7	196.45	3.340	
12,900.0	7,500.0	12,902.2	7,500.0	100.1	100.3	90.00	5,547.3	521.4	658.2	458.3	199.93	3.292	
13,000.0	7,500.0	13,002.2	7,500.0	101.8	102.0	90.00	5,647.2	523.4	660.3	456.9	203.41	3.246	
13,100.0	7,500.0	13,102.2	7,500.0	103.6	103.7	90.00	5,747.2	525.4	662.4	455.5	206.89	3.201	
13,200.0	7,500.0	13,202.2	7,500.0	105.3	105.5	90.00	5,847.2	527.3	664.4	454.0	210.37	3.158	
13,300.0	7,500.0	13,302.1	7,500.0	107.0	107.2	90.00	5,947.1	529.3	666.5	452.6	213.85	3.116	
13,400.0	7,500.0	13,402.1	7,500.0	108.8	109.0	90.00	6,047.1	531.3	668.5	451.2	217.34	3.076	
13,500.0	7,500.0	13,502.1	7,500.0	110.5	110.7	90.00	6,147.0	533.3	670.6	449.7	220.82	3.037	
13,600.0	7,500.0	13,602.1	7,500.0	112.3	112.4	90.00	6,247.0	535.2	672.6	448.3	224.30	2.999	
13,700.0	7,500.0	13,702.1	7,500.0	114.0	114.2	90.00	6,347.0	537.2	674.7	446.9	227.79	2.962	

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

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4				Offset Site Error:		0.0 ft	
Survey Program:										0-Geolink MWD				Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
13,800.0	7,500.0	13,802.0	7,500.0	115.7	115.9	90.00	6,446.9	539.2	676.7	445.5	231.27	2.926					
13,900.0	7,500.0	13,902.0	7,500.0	117.5	117.7	90.00	6,546.9	541.1	678.8	444.0	234.76	2.891					
14,000.0	7,500.0	14,002.0	7,500.0	119.2	119.4	90.00	6,646.8	543.1	680.8	442.6	238.25	2.858					
14,100.0	7,500.0	14,102.0	7,500.0	121.0	121.1	90.00	6,746.8	545.1	682.9	441.2	241.73	2.825					
14,200.0	7,500.0	14,201.9	7,500.0	122.7	122.9	90.00	6,846.8	547.1	684.9	439.7	245.22	2.793					
14,300.0	7,500.0	14,301.9	7,500.0	124.5	124.6	90.00	6,946.7	549.0	687.0	438.3	248.71	2.762					
14,400.0	7,500.0	14,401.9	7,500.0	126.2	126.4	90.00	7,046.7	551.0	689.1	436.9	252.20	2.732					
14,422.4	7,500.0	14,424.3	7,500.0	126.6	126.8	90.00	7,069.1	551.4	689.5	436.5	252.98	2.726 SF					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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	29.9	29.9						
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	29.9	29.9	29.6	0.30	98.612			
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	29.9	29.9	29.3	0.65	45.878			
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	29.9	29.9	28.9	1.00	29.893	CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-131.25	0.0	29.9	30.5	29.2	1.35	22.584			
500.0	500.0	499.4	499.4	0.9	0.8	-134.48	-0.1	30.8	33.2	31.5	1.70	19.492			
600.0	599.9	598.6	598.5	1.0	1.0	-138.44	-0.2	33.4	38.9	36.8	2.05	18.939			
700.0	699.8	697.6	697.4	1.2	1.2	-135.40	-0.5	37.7	46.3	43.9	2.40	19.259			
800.0	799.7	796.5	796.1	1.4	1.4	-120.60	-1.0	43.6	53.9	51.1	2.76	19.561			
865.6	865.4	861.3	860.8	1.5	1.5	-88.06	-1.3	48.5	58.9	56.0	2.99	19.743			
900.0	899.7	895.2	894.6	1.6	1.6	-87.73	-1.5	51.3	61.7	58.6	3.11	19.864			
1,000.0	999.7	993.7	992.6	1.7	1.8	-86.69	-2.2	60.6	70.8	67.4	3.46	20.494			
1,100.0	1,099.7	1,092.0	1,090.3	1.9	2.1	-85.62	-2.9	71.6	81.6	77.8	3.81	21.445			
1,200.0	1,199.7	1,191.3	1,189.0	2.1	2.3	-84.72	-3.7	83.2	93.0	88.9	4.16	22.378			
1,300.0	1,299.7	1,290.7	1,287.6	2.3	2.6	-84.01	-4.6	94.9	104.5	100.0	4.51	23.171			
1,400.0	1,399.7	1,390.0	1,386.3	2.4	2.8	-83.44	-5.4	106.6	115.9	111.1	4.86	23.854			
1,500.0	1,499.7	1,489.4	1,484.9	2.6	3.1	-82.97	-6.2	118.3	127.4	122.2	5.21	24.447			
1,600.0	1,599.7	1,588.7	1,583.6	2.8	3.3	-82.58	-7.0	129.9	138.8	133.3	5.56	24.967			
1,700.0	1,699.7	1,688.0	1,682.2	3.0	3.6	-82.25	-7.8	141.6	150.3	144.4	5.91	25.427			
1,800.0	1,799.7	1,787.4	1,780.8	3.1	3.8	-81.97	-8.7	153.3	161.8	155.5	6.26	25.836			
1,900.0	1,899.7	1,886.7	1,879.5	3.3	4.1	-81.72	-9.5	165.0	173.2	166.6	6.61	26.203			
2,000.0	1,999.6	1,986.0	1,978.1	3.5	4.4	-81.51	-10.3	176.6	184.7	177.7	6.96	26.534			
2,100.0	2,099.6	2,085.4	2,076.8	3.7	4.6	-81.32	-11.1	188.3	196.2	188.9	7.31	26.833			
2,200.0	2,199.6	2,184.7	2,175.4	3.9	4.9	-81.15	-11.9	200.0	207.7	200.0	7.66	27.105			
2,300.0	2,299.6	2,284.1	2,274.1	4.0	5.2	-81.00	-12.8	211.7	219.1	211.1	8.01	27.354			
2,400.0	2,399.6	2,383.4	2,372.7	4.2	5.4	-80.86	-13.6	223.3	230.6	222.3	8.36	27.583			
2,500.0	2,499.6	2,482.7	2,471.4	4.4	5.7	-80.74	-14.4	235.0	242.1	233.4	8.71	27.793			
2,600.0	2,599.6	2,582.1	2,570.0	4.6	6.0	-80.62	-15.2	246.7	253.6	244.5	9.06	27.987			
2,700.0	2,699.6	2,681.4	2,668.7	4.7	6.2	-80.52	-16.0	258.4	265.1	255.7	9.41	28.167			
2,800.0	2,799.6	2,780.7	2,767.3	4.9	6.5	-80.43	-16.8	270.0	276.6	266.8	9.76	28.334			
2,900.0	2,899.6	2,880.1	2,865.9	5.1	6.8	-80.34	-17.7	281.7	288.1	277.9	10.11	28.490			
3,000.0	2,999.6	2,979.4	2,964.6	5.3	7.0	-80.26	-18.5	293.4	299.5	289.1	10.46	28.636			
3,100.0	3,099.6	3,078.7	3,063.2	5.4	7.3	-80.19	-19.3	305.1	311.0	300.2	10.81	28.772			
3,200.0	3,199.6	3,178.1	3,161.9	5.6	7.6	-80.12	-20.1	316.8	322.5	311.4	11.16	28.899			
3,300.0	3,299.6	3,277.4	3,260.5	5.8	7.8	-80.06	-20.9	328.4	334.0	322.5	11.51	29.019			
3,400.0	3,399.5	3,376.8	3,359.2	6.0	8.1	-80.00	-21.8	340.1	345.5	333.6	11.86	29.132			
3,500.0	3,499.5	3,476.1	3,457.8	6.1	8.4	-79.94	-22.6	351.8	357.0	344.8	12.21	29.238			
3,600.0	3,599.5	3,575.4	3,556.5	6.3	8.6	-79.89	-23.4	363.5	368.5	355.9	12.56	29.339			
3,700.0	3,699.5	3,674.8	3,655.1	6.5	8.9	-79.84	-24.2	375.1	380.0	367.1	12.91	29.434			
3,800.0	3,799.5	3,774.1	3,753.7	6.7	9.2	-79.79	-25.0	386.8	391.5	378.2	13.26	29.524			
3,900.0	3,899.5	3,873.4	3,852.4	6.8	9.4	-79.75	-25.9	398.5	402.9	389.3	13.61	29.610			
4,000.0	3,999.5	3,972.8	3,951.0	7.0	9.7	-79.71	-26.7	410.2	414.4	400.5	13.96	29.691			
4,100.0	4,099.5	4,072.1	4,049.7	7.2	10.0	-79.67	-27.5	421.8	425.9	411.6	14.31	29.769			
4,200.0	4,199.5	4,171.5	4,148.3	7.4	10.2	-79.63	-28.3	433.5	437.4	422.8	14.66	29.842			
4,300.0	4,299.5	4,270.8	4,247.0	7.5	10.5	-79.60	-29.1	445.2	448.9	433.9	15.01	29.912			
4,400.0	4,399.5	4,370.1	4,345.6	7.7	10.8	-79.56	-30.0	456.9	460.4	445.0	15.36	29.980			
4,500.0	4,499.5	4,469.5	4,444.3	7.9	11.0	-79.53	-30.8	468.5	471.9	456.2	15.71	30.044			
4,600.0	4,599.5	4,568.8	4,542.9	8.1	11.3	-79.50	-31.6	480.2	483.4	467.3	16.06	30.105			
4,700.0	4,699.5	4,668.1	4,641.6	8.2	11.6	-79.47	-32.4	491.9	494.9	478.5	16.41	30.164			
4,800.0	4,799.5	4,767.5	4,740.2	8.4	11.8	-79.44	-33.2	503.6	506.4	489.6	16.76	30.220			
4,900.0	4,899.4	4,866.8	4,838.8	8.6	12.1	-79.42	-34.1	515.2	517.9	500.8	17.11	30.274			
5,000.0	4,999.4	4,966.2	4,937.5	8.8	12.4	-79.39	-34.9	526.9	529.4	511.9	17.46	30.326			

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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	5,099.4	5,065.5	5,036.1	8.9	12.6	-79.37	-35.7	538.6	540.8	523.0	17.81	30.376	
5,200.0	5,199.4	5,164.8	5,134.8	9.1	12.9	-79.35	-36.5	550.3	552.3	534.2	18.15	30.424	
5,300.0	5,299.4	5,264.2	5,233.4	9.3	13.2	-79.32	-37.3	561.9	563.8	545.3	18.50	30.470	
5,400.0	5,399.4	5,363.5	5,332.1	9.5	13.4	-79.30	-38.1	573.6	575.3	556.5	18.85	30.514	
5,500.0	5,499.4	5,462.8	5,430.7	9.6	13.7	-79.28	-39.0	585.3	586.8	567.6	19.20	30.557	
5,600.0	5,599.4	5,562.2	5,529.4	9.8	14.0	-79.26	-39.8	597.0	598.3	578.8	19.55	30.598	
5,700.0	5,699.4	5,661.5	5,628.0	10.0	14.3	-79.24	-40.6	608.6	609.8	589.9	19.90	30.638	
5,800.0	5,799.4	5,760.9	5,726.7	10.2	14.5	-79.23	-41.4	620.3	621.3	601.0	20.25	30.676	
5,900.0	5,899.4	5,860.2	5,825.3	10.3	14.8	-79.21	-42.2	632.0	632.8	612.2	20.60	30.714	
6,000.0	5,999.4	5,959.5	5,923.9	10.5	15.1	-79.19	-43.1	643.7	644.3	623.3	20.95	30.749	
6,100.0	6,099.4	6,058.9	6,022.6	10.7	15.3	-79.17	-43.9	655.3	655.8	634.5	21.30	30.784	
6,200.0	6,199.4	6,158.2	6,121.2	10.9	15.6	-79.16	-44.7	667.0	667.3	645.6	21.65	30.818	
6,300.0	6,299.4	6,257.5	6,219.9	11.1	15.9	-79.14	-45.5	678.7	678.8	656.8	22.00	30.850	
6,400.0	6,399.3	6,356.9	6,318.5	11.2	16.1	-79.13	-46.3	690.4	690.3	667.9	22.35	30.882	
6,500.0	6,499.3	6,456.2	6,417.2	11.4	16.4	-79.11	-47.2	702.0	701.7	679.0	22.70	30.913	
6,600.0	6,599.3	6,555.6	6,515.8	11.6	16.7	-79.10	-48.0	713.7	713.2	690.2	23.05	30.942	
6,700.0	6,699.3	6,654.9	6,614.5	11.8	16.9	-79.09	-48.8	725.4	724.7	701.3	23.40	30.971	
6,800.0	6,799.3	6,754.2	6,713.1	11.9	17.2	-79.07	-49.6	737.1	736.2	712.5	23.75	30.999	
6,900.0	6,899.3	6,853.6	6,811.8	12.1	17.5	-79.06	-50.4	748.7	747.7	723.6	24.10	31.026	
6,921.2	6,920.6	6,874.7	6,832.7	12.1	17.5	-79.06	-50.6	751.2	750.2	726.0	24.17	31.032	
6,950.0	6,949.3	6,903.2	6,861.1	12.2	17.6	84.85	-50.8	754.6	753.4	729.2	24.28	31.032	
7,000.0	6,999.1	6,952.7	6,910.2	12.3	17.7	87.14	-51.3	760.4	759.1	734.6	24.45	31.048	
7,050.0	7,048.4	7,001.5	6,958.7	12.3	17.9	87.70	-51.7	766.1	764.7	740.1	24.60	31.082	
7,100.0	7,096.7	7,049.4	7,006.2	12.4	18.0	88.27	-52.1	771.8	770.3	745.5	24.74	31.133	
7,150.0	7,143.8	7,096.0	7,052.5	12.5	18.1	88.99	-52.4	777.2	776.1	751.2	24.87	31.201	
7,200.0	7,189.2	7,140.8	7,097.0	12.5	18.3	89.84	-52.8	782.5	782.3	757.3	25.01	31.283	
7,250.0	7,232.6	7,183.7	7,139.6	12.6	18.4	90.76	-53.2	787.6	789.3	764.1	25.15	31.380	
7,300.0	7,273.7	7,227.1	7,182.7	12.7	18.5	91.79	-53.3	792.6	797.2	771.9	25.31	31.492	
7,350.0	7,312.1	7,276.8	7,231.9	12.9	18.6	93.03	-50.0	798.4	805.9	780.4	25.50	31.600	
7,400.0	7,347.6	7,330.0	7,284.1	13.1	18.7	94.29	-41.8	804.5	815.3	789.6	25.73	31.688	
7,450.0	7,379.9	7,387.5	7,339.4	13.3	18.9	95.60	-27.6	811.0	825.2	799.2	26.00	31.743	
7,500.0	7,408.8	7,450.2	7,397.8	13.5	19.0	96.97	-5.7	817.7	835.6	809.2	26.32	31.748	
7,550.0	7,434.0	7,519.3	7,458.9	13.8	19.2	98.41	25.6	824.6	846.0	819.3	26.71	31.673	
7,600.0	7,455.3	7,595.9	7,521.8	14.2	19.4	99.91	68.8	831.7	856.3	829.1	27.19	31.494	
7,650.0	7,472.7	7,681.5	7,584.5	14.6	19.7	101.45	126.4	838.6	866.0	838.2	27.79	31.160	
7,700.0	7,485.8	7,777.0	7,643.7	15.0	20.1	102.94	201.0	845.0	874.7	846.1	28.56	30.630	
7,750.0	7,494.7	7,882.8	7,693.8	15.5	20.7	104.25	293.9	850.1	881.7	852.2	29.54	29.852	
7,800.0	7,499.3	7,997.7	7,728.1	16.0	21.5	105.22	403.3	853.2	886.6	855.8	30.77	28.810	
7,827.7	7,500.0	8,064.3	7,737.7	16.3	22.0	105.54	469.2	853.7	888.2	856.6	31.58	28.121	
7,900.0	7,500.0	8,166.7	7,740.0	17.2	22.8	105.66	571.5	853.1	889.1	855.7	33.47	26.565	
8,000.0	7,500.0	8,266.7	7,740.0	18.4	23.8	105.65	671.5	852.2	890.0	854.2	35.83	24.842	
8,100.0	7,500.0	8,366.7	7,740.0	19.7	24.8	105.63	771.5	851.4	890.8	852.5	38.33	23.239	
8,200.0	7,500.0	8,466.7	7,740.0	21.1	25.9	105.61	871.5	850.5	891.7	850.7	40.97	21.765	
8,300.0	7,500.0	8,566.7	7,740.0	22.5	27.1	105.60	971.5	849.6	892.5	848.8	43.70	20.421	
8,400.0	7,500.0	8,666.7	7,740.0	24.0	28.3	105.58	1,071.5	848.8	893.3	846.8	46.53	19.200	
8,500.0	7,500.0	8,766.7	7,740.0	25.5	29.6	105.57	1,171.4	847.9	894.2	844.8	49.42	18.093	
8,600.0	7,500.0	8,866.7	7,740.0	27.0	30.9	105.55	1,271.4	847.0	895.0	842.7	52.37	17.089	
8,700.0	7,500.0	8,966.7	7,740.0	28.6	32.3	105.54	1,371.4	846.1	895.9	840.5	55.38	16.178	
8,800.0	7,500.0	9,066.7	7,740.0	30.2	33.7	105.52	1,471.4	845.3	896.7	838.3	58.42	15.349	
8,900.0	7,500.0	9,166.7	7,740.0	31.8	35.2	105.51	1,571.4	844.4	897.5	836.0	61.50	14.594	
9,000.0	7,500.0	9,266.7	7,740.0	33.4	36.6	105.50	1,671.4	843.5	898.4	833.8	64.62	13.904	
9,027.7	7,500.0	9,294.4	7,740.0	33.8	37.0	105.49	1,699.1	843.3	898.6	833.1	65.48	13.723	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,500.0	9,366.7	7,740.0	35.0	38.1	105.48	1,771.4	842.6	899.2	831.5	67.75	13.272	
9,127.7	7,500.0	9,394.4	7,740.0	35.5	38.5	105.48	1,799.1	842.4	899.5	830.8	68.63	13.106	
9,200.0	7,500.0	9,466.7	7,740.0	36.6	39.6	105.46	1,871.4	841.8	900.5	829.8	70.74	12.729	
9,300.0	7,500.0	9,566.6	7,740.0	38.3	41.2	105.42	1,971.3	840.9	903.4	829.7	73.68	12.261	
9,400.0	7,500.0	9,666.5	7,740.0	40.0	42.7	105.35	2,071.2	840.0	908.0	831.4	76.62	11.851	
9,427.7	7,500.0	9,694.2	7,740.0	40.4	43.1	105.33	2,098.9	839.8	909.6	832.1	77.43	11.747	
9,500.0	7,500.0	9,766.3	7,740.0	41.6	44.3	105.25	2,171.0	839.2	913.8	834.0	79.77	11.455	
9,600.0	7,500.0	9,866.1	7,740.0	43.3	45.8	105.15	2,270.8	838.3	919.7	836.7	83.03	11.077	
9,700.0	7,500.0	9,965.9	7,740.0	45.0	47.4	105.05	2,370.7	837.4	925.6	839.3	86.30	10.726	
9,800.0	7,500.0	10,065.8	7,740.0	46.7	49.0	104.96	2,470.5	836.5	931.5	841.9	89.58	10.398	
9,900.0	7,500.0	10,165.6	7,740.0	48.4	50.6	104.86	2,570.3	835.7	937.4	844.5	92.88	10.093	
10,000.0	7,500.0	10,265.4	7,740.0	50.1	52.3	104.77	2,670.1	834.8	943.3	847.1	96.19	9.807	
10,100.0	7,500.0	10,365.2	7,740.0	51.8	53.9	104.67	2,769.9	833.9	949.2	849.7	99.50	9.539	
10,200.0	7,500.0	10,465.0	7,740.0	53.5	55.5	104.68	2,869.7	833.1	955.1	852.3	102.83	9.288	
10,300.0	7,500.0	10,564.8	7,740.0	55.2	57.2	104.49	2,969.5	832.2	961.0	854.9	106.17	9.052	
10,400.0	7,500.0	10,664.6	7,740.0	56.9	58.8	104.40	3,069.3	831.3	966.9	857.4	109.51	8.830	
10,500.0	7,500.0	10,764.4	7,740.0	58.6	60.5	104.31	3,169.1	830.4	972.8	860.0	112.86	8.620	
10,600.0	7,500.0	10,864.3	7,740.0	60.3	62.1	104.22	3,268.9	829.6	978.8	862.5	116.22	8.422	
10,627.7	7,500.0	10,891.9	7,740.0	60.8	62.6	104.20	3,296.6	829.3	980.4	863.3	117.15	8.369	
10,700.0	7,500.0	10,964.1	7,740.0	62.0	63.8	104.13	3,368.8	828.7	984.2	864.4	119.81	8.215	
10,800.0	7,500.0	11,064.0	7,740.0	63.7	65.5	104.06	3,468.7	827.8	988.1	864.6	123.47	8.003	
10,900.0	7,500.0	11,164.0	7,740.0	65.5	67.1	104.03	3,568.7	827.0	990.3	863.2	127.08	7.792	
11,000.0	7,500.0	11,264.0	7,740.0	67.2	68.8	104.02	3,668.7	826.1	990.7	860.1	130.65	7.583	
11,023.0	7,500.0	11,287.0	7,740.0	67.6	69.2	104.02	3,691.7	825.9	990.6	859.1	131.46	7.535	
11,100.0	7,500.0	11,364.0	7,740.0	68.9	70.5	104.03	3,768.7	825.2	990.0	856.0	134.03	7.386	
11,184.3	7,500.0	11,440.7	7,740.0	70.4	71.8	104.04	3,845.3	824.7	989.6	852.8	136.72	7.238	
11,200.0	7,500.0	11,454.1	7,740.0	70.6	72.0	104.04	3,858.8	824.7	989.6	852.4	137.21	7.212	
11,300.0	7,500.0	11,539.8	7,740.0	72.3	73.5	104.02	3,944.4	825.5	990.5	850.2	140.32	7.059	
11,400.0	7,500.0	11,632.2	7,740.0	74.1	75.1	103.99	4,036.8	827.6	992.8	849.2	143.56	6.915	
11,500.0	7,500.0	11,732.2	7,740.0	75.8	76.8	103.96	4,136.8	830.0	995.2	848.3	146.94	6.773	
11,600.0	7,500.0	11,832.1	7,740.0	77.5	78.5	103.92	4,236.7	832.4	997.7	847.3	150.31	6.637	
11,700.0	7,500.0	11,932.1	7,740.0	79.3	80.2	103.89	4,336.7	834.9	1,000.1	846.4	153.69	6.507	
11,800.0	7,500.0	12,032.1	7,740.0	81.0	81.9	103.85	4,436.6	837.3	1,002.5	845.5	157.08	6.382	
11,900.0	7,500.0	12,132.1	7,740.0	82.7	83.6	103.82	4,536.5	839.7	1,005.0	844.5	160.46	6.263	
12,000.0	7,500.0	12,232.0	7,740.0	84.5	85.3	103.79	4,636.5	842.2	1,007.4	843.6	163.85	6.148	
12,100.0	7,500.0	12,332.0	7,740.0	86.2	87.0	103.75	4,736.4	844.6	1,009.9	842.6	167.24	6.038	
12,200.0	7,500.0	12,432.0	7,740.0	87.9	88.7	103.72	4,836.4	847.0	1,012.3	841.7	170.64	5.933	
12,300.0	7,500.0	12,531.9	7,740.0	89.7	90.5	103.69	4,936.3	849.5	1,014.7	840.7	174.03	5.831	
12,400.0	7,500.0	12,631.9	7,740.0	91.4	92.2	103.65	5,036.2	851.9	1,017.2	839.8	177.43	5.733	
12,500.0	7,500.0	12,731.9	7,740.0	93.1	93.9	103.62	5,136.2	854.3	1,019.6	838.8	180.83	5.639	
12,600.0	7,500.0	12,831.8	7,740.0	94.9	95.6	103.59	5,236.1	856.7	1,022.1	837.8	184.23	5.548	
12,700.0	7,500.0	12,931.8	7,740.0	96.6	97.3	103.55	5,336.0	859.2	1,024.5	836.9	187.63	5.460	
12,800.0	7,500.0	13,031.8	7,740.0	98.3	99.1	103.52	5,436.0	861.6	1,027.0	835.9	191.04	5.376	
12,900.0	7,500.0	13,131.7	7,740.0	100.1	100.8	103.49	5,535.9	864.0	1,029.4	834.9	194.45	5.294	
13,000.0	7,500.0	13,231.7	7,740.0	101.8	102.5	103.45	5,635.9	866.5	1,031.8	834.0	197.86	5.215	
13,100.0	7,500.0	13,331.7	7,740.0	103.6	104.2	103.42	5,735.8	868.9	1,034.3	833.0	201.27	5.139	
13,200.0	7,500.0	13,431.6	7,740.0	105.3	106.0	103.39	5,835.7	871.3	1,036.7	832.1	204.68	5.065	
13,300.0	7,500.0	13,531.6	7,740.0	107.0	107.7	103.36	5,935.7	873.8	1,039.2	831.1	208.09	4.994	
13,400.0	7,500.0	13,631.6	7,740.0	108.8	109.4	103.33	6,035.6	876.2	1,041.6	830.1	211.51	4.925	
13,500.0	7,500.0	13,731.5	7,740.0	110.5	111.2	103.29	6,135.6	878.6	1,044.1	829.1	214.93	4.858	
13,600.0	7,500.0	13,831.5	7,740.0	112.3	112.9	103.26	6,235.5	881.1	1,046.5	828.2	218.34	4.793	
13,700.0	7,500.0	13,931.5	7,740.0	114.0	114.6	103.23	6,335.4	883.5	1,049.0	827.2	221.76	4.730	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
13,800.0	7,500.0	14,031.5	7,740.0	115.7	116.4	103.20	6,435.4	885.9	1,051.4	826.2	225.19	4.669					
13,900.0	7,500.0	14,131.4	7,740.0	117.5	118.1	103.17	6,535.3	888.3	1,053.9	825.2	228.61	4.610					
14,000.0	7,500.0	14,231.4	7,740.0	119.2	119.8	103.14	6,635.3	890.8	1,056.3	824.3	232.03	4.552					
14,100.0	7,500.0	14,331.4	7,740.0	121.0	121.6	103.11	6,735.2	893.2	1,058.7	823.3	235.46	4.497					
14,200.0	7,500.0	14,431.3	7,740.0	122.7	123.3	103.08	6,835.1	895.6	1,061.2	822.3	238.88	4.442					
14,300.0	7,500.0	14,531.3	7,740.0	124.5	125.0	103.04	6,935.1	898.1	1,063.6	821.3	242.31	4.390					
14,400.0	7,500.0	14,631.3	7,740.0	126.2	126.8	103.01	7,035.0	900.5	1,066.1	820.4	245.74	4.338					
14,422.4	7,500.0	14,653.6	7,740.0	126.6	127.2	103.01	7,057.4	901.0	1,066.6	820.1	246.51	4.327 SF					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.52	-0.4	40.0	40.0				
100.0	100.0	100.0	100.0	0.2	0.2	90.52	-0.4	40.0	40.0	39.7	0.30	131.795	
200.0	200.0	200.0	200.0	0.3	0.3	90.52	-0.4	40.0	40.0	39.4	0.65	61.316	
300.0	300.0	300.0	300.0	0.5	0.5	90.52	-0.4	40.0	40.0	39.0	1.00	39.952	CC, ES
400.0	400.0	399.3	399.3	0.7	0.7	-130.57	-0.2	40.9	41.4	40.1	1.35	30.700	
500.0	500.0	498.4	498.4	0.9	0.9	-133.42	0.1	43.4	45.8	44.1	1.70	26.938	
600.0	599.9	597.2	597.1	1.0	1.0	-137.11	0.7	47.7	53.2	51.2	2.05	25.944	
700.0	699.8	695.8	695.5	1.2	1.2	-134.39	1.5	53.6	62.4	60.0	2.40	25.995	
800.0	799.7	794.2	793.5	1.4	1.4	-120.49	2.6	61.1	71.9	69.1	2.75	26.148	
865.6	865.4	858.6	857.8	1.5	1.6	-88.74	3.4	67.0	78.2	75.2	2.98	26.269	
900.0	899.7	892.4	891.3	1.6	1.7	-88.84	3.8	70.3	81.6	78.5	3.10	26.365	
1,000.0	999.7	990.3	988.6	1.7	1.9	-89.05	5.3	81.2	92.8	89.3	3.44	26.939	
1,100.0	1,099.7	1,087.8	1,085.3	1.9	2.2	-89.13	7.0	93.6	105.6	101.8	3.79	27.857	
1,200.0	1,199.7	1,184.8	1,181.3	2.1	2.4	-89.14	9.0	107.6	120.1	115.9	4.14	29.032	
1,300.0	1,299.7	1,281.3	1,276.5	2.3	2.7	-89.09	11.1	123.1	136.2	131.7	4.48	30.402	
1,400.0	1,399.7	1,377.3	1,371.0	2.4	3.1	-89.00	13.5	140.1	154.0	149.2	4.82	31.926	
1,500.0	1,499.7	1,474.3	1,466.2	2.6	3.4	-88.90	16.0	158.6	173.2	168.0	5.17	33.504	
1,600.0	1,599.7	1,572.4	1,562.4	2.8	3.8	-88.81	18.6	177.4	192.5	187.0	5.52	34.900	
1,700.0	1,699.7	1,670.5	1,658.7	3.0	4.1	-88.74	21.2	196.3	211.8	206.0	5.86	36.131	
1,800.0	1,799.7	1,768.7	1,754.9	3.1	4.5	-88.68	23.8	215.1	231.2	225.0	6.21	37.225	
1,900.0	1,899.7	1,866.8	1,851.2	3.3	4.9	-88.62	26.5	234.0	250.5	243.9	6.56	38.204	
2,000.0	1,999.6	1,964.9	1,947.4	3.5	5.2	-88.58	29.1	252.9	269.8	262.9	6.90	39.084	
2,100.0	2,099.6	2,063.0	2,043.7	3.7	5.6	-88.54	31.7	271.7	289.2	281.9	7.25	39.880	
2,200.0	2,199.6	2,161.1	2,139.9	3.9	6.0	-88.51	34.3	290.6	308.5	300.9	7.60	40.604	
2,300.0	2,299.6	2,259.2	2,236.1	4.0	6.3	-88.48	36.9	309.4	327.8	319.9	7.94	41.264	
2,400.0	2,399.6	2,357.3	2,332.4	4.2	6.7	-88.45	39.5	328.3	347.2	338.9	8.29	41.869	
2,500.0	2,499.6	2,455.4	2,428.6	4.4	7.1	-88.43	42.1	347.2	366.5	357.9	8.64	42.426	
2,600.0	2,599.6	2,553.6	2,524.9	4.6	7.5	-88.41	44.7	366.0	385.8	376.8	8.99	42.940	
2,700.0	2,699.6	2,651.7	2,621.1	4.7	7.8	-88.39	47.3	384.9	405.2	395.8	9.33	43.416	
2,800.0	2,799.6	2,749.8	2,717.4	4.9	8.2	-88.37	49.9	403.7	424.5	414.8	9.68	43.857	
2,900.0	2,899.6	2,847.9	2,813.6	5.1	8.6	-88.36	52.5	422.6	443.8	433.8	10.03	44.269	
3,000.0	2,999.6	2,946.0	2,909.9	5.3	9.0	-88.34	55.1	441.5	463.2	452.8	10.37	44.652	
3,100.0	3,099.6	3,044.1	3,006.1	5.4	9.3	-88.33	57.7	460.3	482.5	471.8	10.72	45.011	
3,200.0	3,199.6	3,142.2	3,102.4	5.6	9.7	-88.32	60.3	479.2	501.8	490.8	11.07	45.348	
3,300.0	3,299.6	3,240.4	3,198.6	5.8	10.1	-88.31	63.0	498.0	521.2	509.8	11.41	45.664	
3,400.0	3,399.5	3,338.5	3,294.9	6.0	10.5	-88.30	65.6	516.9	540.5	528.7	11.76	45.961	
3,500.0	3,499.5	3,436.6	3,391.1	6.1	10.8	-88.29	68.2	535.8	559.8	547.7	12.11	46.242	
3,600.0	3,599.5	3,534.7	3,487.4	6.3	11.2	-88.28	70.8	554.6	579.2	566.7	12.45	46.506	
3,700.0	3,699.5	3,632.8	3,583.6	6.5	11.6	-88.27	73.4	573.5	598.5	585.7	12.80	46.757	
3,800.0	3,799.5	3,730.9	3,679.9	6.7	12.0	-88.26	76.0	592.3	617.8	604.7	13.15	46.994	
3,900.0	3,899.5	3,829.0	3,776.1	6.8	12.3	-88.25	78.6	611.2	637.2	623.7	13.49	47.219	
4,000.0	3,999.5	3,927.1	3,872.4	7.0	12.7	-88.25	81.2	630.1	656.5	642.7	13.84	47.433	
4,100.0	4,099.5	4,025.3	3,968.6	7.2	13.1	-88.24	83.8	648.9	675.8	661.6	14.19	47.636	
4,200.0	4,199.5	4,123.4	4,064.9	7.4	13.5	-88.23	86.4	667.8	695.2	680.6	14.53	47.830	
4,300.0	4,299.5	4,221.5	4,161.1	7.5	13.9	-88.23	89.0	686.6	714.5	699.6	14.88	48.015	
4,400.0	4,399.5	4,319.6	4,257.4	7.7	14.2	-88.22	91.6	705.5	733.8	718.6	15.23	48.191	
4,500.0	4,499.5	4,417.7	4,353.6	7.9	14.6	-88.22	94.2	724.4	753.2	737.6	15.57	48.359	
4,600.0	4,599.5	4,515.8	4,449.9	8.1	15.0	-88.21	96.9	743.2	772.5	756.6	15.92	48.520	
4,700.0	4,699.5	4,613.9	4,546.1	8.2	15.4	-88.21	99.5	762.1	791.8	775.6	16.27	48.675	
4,800.0	4,799.5	4,712.1	4,642.4	8.4	15.7	-88.20	102.1	781.0	811.2	794.5	16.61	48.822	
4,900.0	4,899.4	4,810.2	4,738.6	8.6	16.1	-88.20	104.7	799.8	830.5	813.5	16.96	48.964	
5,000.0	4,999.4	4,908.3	4,834.8	8.8	16.5	-88.19	107.3	818.7	849.8	832.5	17.31	49.100	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,099.4	5,006.4	4,931.1	8.9	16.9	-88.19	109.9	837.5	869.2	851.5	17.65	49.231		
5,200.0	5,199.4	5,104.5	5,027.3	9.1	17.3	-88.19	112.5	856.4	888.5	870.5	18.00	49.357		
5,300.0	5,299.4	5,202.6	5,123.6	9.3	17.6	-88.18	115.1	875.3	907.8	889.5	18.35	49.478		
5,400.0	5,399.4	5,300.7	5,219.8	9.5	18.0	-88.18	117.7	894.1	927.2	908.5	18.70	49.594		
5,500.0	5,499.4	5,398.8	5,316.1	9.6	18.4	-88.18	120.3	913.0	946.5	927.5	19.04	49.706		
5,600.0	5,599.4	5,497.0	5,412.3	9.8	18.8	-88.17	122.9	931.8	965.8	946.4	19.39	49.815		
5,700.0	5,699.4	5,595.1	5,508.6	10.0	19.2	-88.17	125.5	950.7	985.2	965.4	19.74	49.919		
5,800.0	5,799.4	5,693.2	5,604.8	10.2	19.5	-88.17	128.1	969.6	1,004.5	984.4	20.08	50.020		
5,900.0	5,899.4	5,791.3	5,701.1	10.3	19.9	-88.16	130.8	988.4	1,023.8	1,003.4	20.43	50.117		
6,000.0	5,999.4	5,889.4	5,797.3	10.5	20.3	-88.16	133.4	1,007.3	1,043.2	1,022.4	20.78	50.211		
6,100.0	6,099.4	5,987.5	5,893.6	10.7	20.7	-88.16	136.0	1,026.1	1,062.5	1,041.4	21.12	50.302		
6,200.0	6,199.4	6,085.6	5,989.8	10.9	21.0	-88.16	138.6	1,045.0	1,081.8	1,060.4	21.47	50.391		
6,300.0	6,299.4	6,183.8	6,086.1	11.1	21.4	-88.15	141.2	1,063.9	1,101.2	1,079.3	21.82	50.476		
6,400.0	6,399.3	6,281.9	6,182.3	11.2	21.8	-88.15	143.8	1,082.7	1,120.5	1,098.3	22.16	50.559		
6,500.0	6,499.3	6,380.0	6,278.6	11.4	22.2	-88.15	146.4	1,101.6	1,139.8	1,117.3	22.51	50.639		
6,600.0	6,599.3	6,478.1	6,374.8	11.6	22.6	-88.15	149.0	1,120.4	1,159.2	1,136.3	22.86	50.716		
6,700.0	6,699.3	6,576.2	6,471.1	11.8	22.9	-88.14	151.6	1,139.3	1,178.5	1,155.3	23.20	50.792		
6,800.0	6,799.3	6,674.3	6,567.3	11.9	23.3	-88.14	154.2	1,158.2	1,197.8	1,174.3	23.55	50.865		
6,900.0	6,899.3	6,772.4	6,663.6	12.1	23.7	-88.14	156.8	1,177.0	1,217.2	1,193.3	23.90	50.936		
6,921.2	6,920.6	6,793.3	6,684.0	12.1	23.8	-88.14	157.4	1,181.0	1,221.3	1,197.3	23.97	50.951		
6,950.0	6,949.3	6,821.5	6,711.7	12.2	23.9	75.53	158.1	1,186.5	1,226.7	1,202.6	24.10	50.903		
7,000.0	6,999.1	6,870.5	6,759.8	12.3	24.1	77.36	159.4	1,195.9	1,235.5	1,211.2	24.30	50.834		
7,050.0	7,048.4	6,919.0	6,807.4	12.3	24.3	77.43	160.7	1,205.2	1,243.5	1,219.0	24.48	50.788		
7,100.0	7,096.7	6,966.8	6,854.2	12.4	24.4	77.49	162.0	1,214.4	1,250.7	1,226.1	24.64	50.765		
7,150.0	7,143.8	7,013.3	6,899.9	12.5	24.6	77.68	163.2	1,223.3	1,257.2	1,232.4	24.77	50.755		
7,200.0	7,189.2	7,058.4	6,944.1	12.5	24.8	78.04	164.4	1,232.0	1,263.0	1,238.1	24.90	50.735		
7,250.0	7,232.6	7,093.9	6,978.9	12.6	24.9	78.31	166.0	1,238.8	1,268.6	1,243.5	25.02	50.707		
7,300.0	7,273.7	7,127.6	7,011.7	12.7	25.1	78.57	169.3	1,245.3	1,274.0	1,248.8	25.16	50.641		
7,350.0	7,312.1	7,161.8	7,044.9	12.9	25.2	78.88	174.8	1,251.8	1,279.4	1,254.1	25.33	50.503		
7,400.0	7,347.6	7,200.0	7,081.4	13.1	25.4	79.30	183.3	1,259.0	1,284.8	1,259.2	25.57	50.256		
7,450.0	7,379.9	7,232.9	7,112.4	13.3	25.5	79.62	192.5	1,265.2	1,290.2	1,264.3	25.85	49.912		
7,500.0	7,408.8	7,269.9	7,146.5	13.5	25.7	80.06	205.1	1,272.0	1,295.5	1,269.3	26.22	49.419		
7,550.0	7,434.0	7,308.2	7,180.9	13.8	25.9	80.55	220.4	1,278.8	1,300.9	1,274.3	26.67	48.782		
7,600.0	7,455.3	7,348.1	7,215.6	14.2	26.1	81.10	238.9	1,285.8	1,306.3	1,279.1	27.22	47.999		
7,650.0	7,472.7	7,389.8	7,250.4	14.6	26.3	81.71	260.7	1,292.8	1,311.7	1,283.8	27.87	47.070		
7,700.0	7,485.8	7,433.7	7,285.3	15.0	26.5	82.39	286.5	1,299.8	1,317.1	1,288.5	28.62	46.018		
7,750.0	7,494.7	7,480.4	7,320.1	15.5	26.8	83.15	316.7	1,306.9	1,322.5	1,293.0	29.48	44.860		
7,800.0	7,499.3	7,530.5	7,354.7	16.0	27.1	84.00	352.3	1,314.0	1,327.9	1,297.4	30.44	43.617		
7,827.7	7,500.0	7,560.0	7,373.5	16.3	27.3	84.52	374.7	1,317.9	1,330.8	1,299.8	31.02	42.901		
7,900.0	7,500.0	7,648.1	7,422.8	17.2	27.8	86.67	446.8	1,328.1	1,338.5	1,305.9	32.61	41.040		
8,000.0	7,500.0	7,801.6	7,480.8	18.4	29.0	89.18	587.9	1,340.7	1,347.7	1,312.3	35.45	38.017		
8,100.0	7,500.0	7,967.6	7,500.0	19.7	30.3	90.00	752.2	1,345.9	1,352.5	1,313.6	38.84	34.824		
8,200.0	7,500.0	8,067.6	7,500.0	21.1	31.2	90.00	852.2	1,346.8	1,355.1	1,313.5	41.57	32.594		
8,300.0	7,500.0	8,167.6	7,500.0	22.5	32.2	90.00	952.1	1,347.7	1,357.7	1,313.3	44.42	30.568		
8,400.0	7,500.0	8,267.5	7,500.0	24.0	33.2	90.00	1,052.1	1,348.5	1,360.3	1,313.0	47.35	28.731		
8,500.0	7,500.0	8,367.5	7,500.0	25.5	34.3	90.00	1,152.0	1,349.4	1,362.9	1,312.6	50.35	27.069		
8,600.0	7,500.0	8,467.5	7,500.0	27.0	35.5	90.00	1,252.0	1,350.3	1,365.5	1,312.1	53.42	25.564		
8,700.0	7,500.0	8,567.4	7,500.0	28.6	36.7	90.00	1,352.0	1,351.2	1,368.2	1,311.6	56.53	24.202		
8,800.0	7,500.0	8,667.4	7,500.0	30.2	37.9	90.00	1,451.9	1,352.0	1,370.8	1,311.1	59.69	22.964		
8,900.0	7,500.0	8,767.4	7,500.0	31.8	39.2	90.00	1,551.9	1,352.9	1,373.4	1,310.5	62.89	21.838		
9,000.0	7,500.0	8,867.3	7,500.0	33.4	40.5	90.00	1,651.8	1,353.8	1,376.0	1,309.9	66.12	20.811		
9,027.7	7,500.0	8,895.0	7,500.0	33.8	40.9	90.00	1,679.6	1,354.0	1,376.7	1,309.7	67.02	20.543		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	8,967.3	7,500.0	35.0	41.9	90.00	1,751.8	1,354.6	1,378.6	1,309.3	69.38	19.872		
9,127.7	7,500.0	8,995.0	7,500.0	35.5	42.2	90.00	1,779.5	1,354.9	1,379.4	1,309.1	70.28	19.626		
9,200.0	7,500.0	9,067.2	7,500.0	36.6	43.2	90.00	1,851.8	1,355.5	1,381.7	1,309.3	72.38	19.090		
9,300.0	7,500.0	9,167.1	7,500.0	38.3	44.6	90.00	1,951.6	1,356.4	1,386.4	1,311.2	75.27	18.419		
9,400.0	7,500.0	9,266.9	7,500.0	40.0	46.1	90.00	2,051.4	1,357.3	1,392.9	1,314.8	78.16	17.823		
9,427.7	7,500.0	9,294.6	7,500.0	40.4	46.5	90.00	2,079.1	1,357.5	1,395.1	1,316.1	78.95	17.669		
9,500.0	7,500.0	9,366.6	7,500.0	41.6	47.5	90.00	2,151.1	1,358.1	1,400.7	1,319.4	81.35	17.218		
9,600.0	7,500.0	9,466.3	7,500.0	43.3	49.0	90.00	2,250.8	1,359.0	1,408.6	1,323.9	84.69	16.633		
9,700.0	7,500.0	9,570.6	7,500.0	45.0	50.5	90.00	2,355.1	1,359.9	1,416.4	1,328.3	88.11	16.075		
9,800.0	7,500.0	9,703.3	7,500.0	46.7	52.5	90.00	2,487.8	1,359.1	1,422.8	1,330.7	92.03	15.460		
9,900.0	7,500.0	9,836.3	7,500.0	48.4	54.5	90.00	2,620.7	1,355.2	1,426.8	1,330.8	95.97	14.868		
10,000.0	7,500.0	9,969.5	7,500.0	50.1	56.5	90.00	2,753.7	1,348.2	1,428.5	1,328.6	99.92	14.296		
10,100.0	7,500.0	10,102.7	7,500.0	51.8	58.5	90.00	2,886.5	1,338.1	1,427.9	1,324.0	103.90	13.744		
10,200.0	7,500.0	10,227.3	7,500.0	53.5	60.4	90.00	3,010.6	1,325.9	1,425.1	1,317.4	107.73	13.228		
10,300.0	7,500.0	10,327.3	7,500.0	55.2	61.9	90.00	3,110.0	1,315.5	1,421.6	1,310.4	111.15	12.789		
10,400.0	7,500.0	10,427.2	7,500.0	56.9	63.4	90.00	3,209.4	1,305.0	1,418.1	1,303.5	114.58	12.376		
10,500.0	7,500.0	10,527.2	7,500.0	58.6	65.0	90.00	3,308.8	1,294.6	1,414.6	1,296.6	118.01	11.987		
10,600.0	7,500.0	10,627.1	7,500.0	60.3	66.5	90.00	3,408.2	1,284.1	1,411.1	1,289.7	121.45	11.619		
10,627.7	7,500.0	10,654.8	7,500.0	60.8	67.0	90.00	3,435.7	1,281.2	1,410.2	1,287.8	122.40	11.520		
10,700.0	7,500.0	10,727.0	7,500.0	62.0	68.1	90.00	3,507.5	1,273.7	1,407.2	1,282.0	125.22	11.238		
10,800.0	7,500.0	10,826.9	7,500.0	63.7	69.7	90.00	3,606.8	1,263.2	1,401.6	1,272.5	129.09	10.858		
10,900.0	7,500.0	10,926.6	7,500.0	65.5	71.2	90.00	3,706.0	1,252.8	1,394.2	1,261.3	132.91	10.489		
11,000.0	7,500.0	11,026.2	7,500.0	67.2	72.8	90.00	3,805.1	1,242.4	1,385.1	1,248.4	136.70	10.132		
11,023.0	7,500.0	11,049.1	7,500.0	67.6	73.2	90.00	3,827.8	1,240.0	1,382.8	1,245.2	137.57	10.051		
11,100.0	7,500.0	11,125.6	7,500.0	68.9	74.4	90.00	3,904.0	1,232.0	1,374.8	1,234.6	140.22	9.805		
11,200.0	7,500.0	11,225.1	7,500.0	70.6	76.0	90.00	4,002.9	1,221.6	1,364.4	1,220.7	143.66	9.498		
11,300.0	7,500.0	11,324.6	7,500.0	72.3	77.6	90.00	4,101.8	1,211.2	1,354.0	1,206.9	147.10	9.205		
11,400.0	7,500.0	11,424.0	7,500.0	74.1	79.2	90.00	4,200.7	1,200.8	1,343.7	1,193.1	150.55	8.925		
11,500.0	7,500.0	11,523.5	7,500.0	75.8	80.8	90.00	4,299.6	1,190.4	1,333.3	1,179.3	154.00	8.658		
11,600.0	7,500.0	11,622.9	7,500.0	77.5	82.5	90.00	4,398.6	1,180.0	1,322.9	1,165.5	157.45	8.402		
11,700.0	7,500.0	11,722.4	7,500.0	79.3	84.1	90.00	4,497.5	1,169.6	1,312.5	1,151.6	160.90	8.158		
11,800.0	7,500.0	11,818.2	7,500.0	81.0	85.7	90.00	4,592.7	1,159.7	1,302.2	1,137.9	164.29	7.926		
11,900.0	7,500.0	11,900.0	7,500.0	82.7	87.0	90.00	4,674.2	1,151.9	1,292.8	1,125.4	167.44	7.721		
12,000.0	7,500.0	11,980.7	7,500.0	84.5	88.4	90.00	4,754.6	1,145.4	1,284.8	1,114.3	170.58	7.532		
12,100.0	7,500.0	12,062.3	7,500.0	86.2	89.7	90.00	4,836.0	1,140.0	1,278.3	1,104.6	173.73	7.358		
12,200.0	7,500.0	12,143.9	7,500.0	87.9	91.1	90.00	4,917.6	1,135.7	1,273.2	1,096.3	176.88	7.198		
12,300.0	7,500.0	12,225.7	7,500.0	89.7	92.5	90.00	4,999.3	1,132.6	1,269.5	1,089.4	180.03	7.051		
12,400.0	7,500.0	12,300.0	7,500.0	91.4	93.7	90.00	5,073.5	1,130.8	1,267.2	1,084.1	183.06	6.922		
12,500.0	7,500.0	12,389.5	7,500.0	93.1	95.3	90.00	5,163.0	1,130.0	1,266.3	1,080.0	186.35	6.795		
12,512.2	7,500.0	12,400.0	7,500.0	93.3	95.4	90.00	5,173.5	1,129.9	1,266.3	1,079.6	186.74	6.781		
12,600.0	7,500.0	12,471.4	7,500.0	94.9	96.7	90.00	5,244.9	1,130.4	1,266.9	1,077.4	189.51	6.685		
12,700.0	7,500.0	12,553.2	7,500.0	96.6	98.1	90.00	5,326.8	1,131.9	1,268.9	1,076.2	192.67	6.586		
12,800.0	7,500.0	12,635.0	7,500.0	98.3	99.5	90.00	5,408.5	1,134.7	1,272.3	1,076.5	195.83	6.497		
12,900.0	7,500.0	12,716.7	7,500.0	100.1	100.9	90.00	5,490.1	1,138.6	1,277.2	1,078.2	198.99	6.418		
13,000.0	7,500.0	12,806.4	7,500.0	101.8	102.4	90.00	5,579.6	1,144.2	1,283.5	1,081.2	202.29	6.345		
13,100.0	7,500.0	12,896.2	7,500.0	103.6	104.0	90.00	5,669.2	1,150.6	1,290.6	1,085.0	205.59	6.278		
13,200.0	7,500.0	12,996.0	7,500.0	105.3	105.7	90.00	5,768.7	1,157.6	1,297.8	1,088.7	209.07	6.207		
13,300.0	7,500.0	13,095.7	7,500.0	107.0	107.4	90.00	5,868.2	1,164.6	1,304.9	1,092.3	212.55	6.139		
13,400.0	7,500.0	13,195.5	7,500.0	108.8	109.2	90.00	5,967.7	1,171.7	1,312.0	1,096.0	216.03	6.073		
13,500.0	7,500.0	13,295.2	7,500.0	110.5	110.9	90.00	6,067.2	1,178.7	1,319.2	1,099.7	219.51	6.010		
13,600.0	7,500.0	13,395.0	7,500.0	112.3	112.6	90.00	6,166.7	1,185.7	1,326.3	1,103.3	222.99	5.948		
13,700.0	7,500.0	13,494.7	7,500.0	114.0	114.4	90.00	6,266.2	1,192.8	1,333.4	1,107.0	226.47	5.888		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference				Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
13,800.0	7,500.0	13,594.5	7,500.0	115.7	116.1	90.00	6,365.7	1,199.8	1,340.6	1,110.6	229.95	5.830						
13,900.0	7,500.0	13,694.2	7,500.0	117.5	117.8	90.00	6,465.2	1,206.8	1,347.7	1,114.3	233.43	5.773						
14,000.0	7,500.0	13,794.0	7,500.0	119.2	119.6	90.00	6,564.7	1,213.9	1,354.8	1,117.9	236.92	5.719						
14,100.0	7,500.0	13,893.7	7,500.0	121.0	121.3	90.00	6,664.2	1,220.9	1,362.0	1,121.6	240.40	5.665						
14,200.0	7,500.0	13,993.4	7,500.0	122.7	123.0	90.00	6,763.7	1,227.9	1,369.1	1,125.2	243.88	5.614						
14,300.0	7,500.0	14,093.2	7,500.0	124.5	124.8	90.00	6,863.2	1,235.0	1,376.3	1,128.9	247.37	5.564						
14,400.0	7,500.0	14,192.9	7,500.0	126.2	126.5	90.00	6,962.7	1,242.0	1,383.4	1,132.5	250.85	5.515						
14,422.4	7,500.0	14,215.3	7,500.0	126.6	126.9	90.00	6,985.0	1,243.6	1,385.0	1,133.4	251.63	5.504 SF						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.42	-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	
233.3	233.3	233.3	233.3	0.4	0.4	90.42	-0.4	49.8	49.8	49.1	0.77	64.775 CC	
300.0	300.0	299.6	299.6	0.5	0.5	90.46	-0.4	50.0	50.0	49.0	1.00	49.978 ES	
400.0	400.0	398.7	398.7	0.7	0.7	-129.94	-0.7	51.7	52.3	50.9	1.35	38.767	
500.0	500.0	497.6	497.5	0.9	0.9	-131.29	-1.3	55.1	57.4	55.7	1.70	33.793	
600.0	599.9	596.2	596.0	1.0	1.0	-133.20	-2.2	60.1	65.4	63.3	2.05	31.876	
700.0	699.8	694.6	694.1	1.2	1.2	-128.90	-3.4	66.8	75.0	72.6	2.40	31.183	
800.0	799.7	792.8	792.0	1.4	1.5	-113.65	-4.8	75.1	84.8	82.1	2.76	30.767	
865.6	865.4	857.1	856.0	1.5	1.6	-81.07	-5.9	81.5	91.4	88.4	2.99	30.593	
900.0	899.7	890.8	889.4	1.6	1.7	-80.76	-6.6	85.1	94.9	91.8	3.11	30.556	
1,000.0	999.7	988.4	986.4	1.7	1.9	-79.82	-8.6	96.6	106.4	103.0	3.46	30.788	
1,100.0	1,099.7	1,085.7	1,082.7	1.9	2.2	-78.90	-10.9	109.7	119.6	115.8	3.81	31.423	
1,200.0	1,199.7	1,182.4	1,178.3	2.1	2.5	-78.02	-13.5	124.4	134.4	130.2	4.15	32.361	
1,300.0	1,299.7	1,278.7	1,273.2	2.3	2.8	-77.21	-16.4	140.5	150.9	146.4	4.50	33.533	
1,400.0	1,399.7	1,374.4	1,367.2	2.4	3.2	-76.46	-19.5	158.1	169.0	164.2	4.84	34.887	
1,500.0	1,499.7	1,469.5	1,460.3	2.6	3.5	-75.78	-22.8	177.1	188.8	183.6	5.19	36.387	
1,600.0	1,599.7	1,563.9	1,552.4	2.8	3.9	-75.16	-26.4	197.5	210.2	204.7	5.53	38.004	
1,700.0	1,699.7	1,657.6	1,643.5	3.0	4.3	-74.61	-30.2	219.2	233.2	227.3	5.87	39.717	
1,800.0	1,799.7	1,750.6	1,733.5	3.1	4.8	-74.11	-34.3	242.2	257.8	251.6	6.21	41.511	
1,900.0	1,899.7	1,847.0	1,826.7	3.3	5.2	-73.83	-37.8	266.9	283.2	276.7	6.55	43.225	
2,000.0	1,999.6	1,943.5	1,919.9	3.5	5.7	-73.91	-39.7	291.7	308.7	301.8	6.89	44.783	
2,100.0	2,099.6	2,043.7	2,016.8	3.7	6.1	-74.23	-40.3	317.3	334.0	326.7	7.24	46.111	
2,200.0	2,199.6	2,147.1	2,117.1	3.9	6.6	-74.52	-40.8	342.1	357.6	350.0	7.60	47.071	
2,300.0	2,299.6	2,246.8	2,214.2	4.0	7.0	-74.76	-41.2	364.6	379.9	371.9	7.95	47.811	
2,400.0	2,399.6	2,344.3	2,309.2	4.2	7.4	-74.97	-41.6	386.5	402.1	393.8	8.29	48.500	
2,500.0	2,499.6	2,441.7	2,404.2	4.4	7.9	-75.15	-42.0	408.4	424.3	415.6	8.64	49.133	
2,600.0	2,599.6	2,539.2	2,499.2	4.6	8.3	-75.32	-42.4	430.3	446.5	437.5	8.98	49.719	
2,700.0	2,699.6	2,636.7	2,594.2	4.7	8.7	-75.48	-42.8	452.3	468.7	459.4	9.33	50.261	
2,800.0	2,799.6	2,734.2	2,689.2	4.9	9.1	-75.62	-43.2	474.2	490.9	481.2	9.67	50.764	
2,900.0	2,899.6	2,831.7	2,784.2	5.1	9.6	-75.74	-43.6	496.1	513.1	503.1	10.01	51.234	
3,000.0	2,999.6	2,929.2	2,879.2	5.3	10.0	-75.86	-44.0	518.0	535.3	525.0	10.36	51.672	
3,100.0	3,099.6	3,026.7	2,974.2	5.4	10.4	-75.97	-44.4	540.0	557.5	546.8	10.70	52.082	
3,200.0	3,199.6	3,124.2	3,069.2	5.6	10.8	-76.07	-44.8	561.9	579.7	568.7	11.05	52.466	
3,300.0	3,299.6	3,221.7	3,164.2	5.8	11.2	-76.16	-45.2	583.8	602.0	590.6	11.39	52.827	
3,400.0	3,399.5	3,319.2	3,259.2	6.0	11.7	-76.24	-45.7	605.7	624.2	612.4	11.74	53.167	
3,500.0	3,499.5	3,416.7	3,354.2	6.1	12.1	-76.32	-46.1	627.6	646.4	634.3	12.09	53.488	
3,600.0	3,599.5	3,514.2	3,449.2	6.3	12.5	-76.40	-46.5	649.6	668.6	656.2	12.43	53.791	
3,700.0	3,699.5	3,611.7	3,544.2	6.5	12.9	-76.46	-46.9	671.5	690.9	678.1	12.78	54.078	
3,800.0	3,799.5	3,709.2	3,639.2	6.7	13.4	-76.53	-47.3	693.4	713.1	700.0	13.12	54.349	
3,900.0	3,899.5	3,806.7	3,734.2	6.8	13.8	-76.59	-47.7	715.3	735.3	721.8	13.47	54.607	
4,000.0	3,999.5	3,904.2	3,829.2	7.0	14.2	-76.65	-48.1	737.3	757.5	743.7	13.81	54.852	
4,100.0	4,099.5	4,001.7	3,924.2	7.2	14.6	-76.70	-48.5	759.2	779.8	765.6	14.16	55.085	
4,200.0	4,199.5	4,099.2	4,019.2	7.4	15.1	-76.75	-48.9	781.1	802.0	787.5	14.50	55.307	
4,300.0	4,299.5	4,196.7	4,114.2	7.5	15.5	-76.80	-49.3	803.0	824.2	809.4	14.85	55.519	
4,400.0	4,399.5	4,294.2	4,209.2	7.7	15.9	-76.85	-49.7	824.9	846.4	831.2	15.19	55.721	
4,500.0	4,499.5	4,391.7	4,304.2	7.9	16.4	-76.89	-50.1	846.9	868.7	853.1	15.54	55.914	
4,600.0	4,599.5	4,489.2	4,399.2	8.1	16.8	-76.93	-50.5	868.8	890.9	875.0	15.88	56.099	
4,700.0	4,699.5	4,586.7	4,494.2	8.2	17.2	-76.97	-50.9	890.7	913.1	896.9	16.23	56.276	
4,800.0	4,799.5	4,684.2	4,589.2	8.4	17.6	-77.01	-51.3	912.6	935.4	918.8	16.57	56.445	
4,900.0	4,899.4	4,781.7	4,684.2	8.6	18.1	-77.05	-51.7	934.6	957.6	940.7	16.92	56.608	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4,999.4	4,879.1	4,779.2	8.8	18.5	-77.08	-52.1	956.5	979.8	962.6	17.26	56.764		
5,100.0	5,099.4	4,976.6	4,874.2	8.9	18.9	-77.11	-52.6	978.4	1,002.0	984.4	17.61	56.914		
5,200.0	5,199.4	5,074.1	4,969.2	9.1	19.3	-77.14	-53.0	1,000.3	1,024.3	1,006.3	17.95	57.058		
5,300.0	5,299.4	5,171.6	5,064.2	9.3	19.8	-77.17	-53.4	1,022.2	1,046.5	1,028.2	18.30	57.197		
5,400.0	5,399.4	5,269.1	5,159.2	9.5	20.2	-77.20	-53.8	1,044.2	1,068.7	1,050.1	18.64	57.331		
5,500.0	5,499.4	5,366.6	5,254.2	9.6	20.6	-77.23	-54.2	1,066.1	1,091.0	1,072.0	18.99	57.460		
5,600.0	5,599.4	5,464.1	5,349.2	9.8	21.0	-77.26	-54.6	1,088.0	1,113.2	1,093.9	19.33	57.584		
5,700.0	5,699.4	5,561.6	5,444.2	10.0	21.5	-77.28	-55.0	1,109.9	1,135.4	1,115.8	19.68	57.704		
5,800.0	5,799.4	5,659.1	5,539.2	10.2	21.9	-77.31	-55.4	1,131.9	1,157.7	1,137.6	20.02	57.820		
5,900.0	5,899.4	5,756.6	5,634.2	10.3	22.3	-77.33	-55.8	1,153.8	1,179.9	1,159.5	20.37	57.932		
6,000.0	5,999.4	5,854.1	5,729.2	10.5	22.7	-77.35	-56.2	1,175.7	1,202.1	1,181.4	20.71	58.040		
6,100.0	6,099.4	5,951.6	5,824.2	10.7	23.2	-77.37	-56.6	1,197.6	1,224.4	1,203.3	21.06	58.145		
6,200.0	6,199.4	6,049.1	5,919.2	10.9	23.6	-77.39	-57.0	1,219.5	1,246.6	1,225.2	21.40	58.246		
6,300.0	6,299.4	6,146.6	6,014.1	11.1	24.0	-77.41	-57.4	1,241.5	1,268.8	1,247.1	21.75	58.344		
6,400.0	6,399.3	6,244.1	6,109.1	11.2	24.5	-77.43	-57.8	1,263.4	1,291.1	1,269.0	22.09	58.439		
6,500.0	6,499.3	6,341.6	6,204.1	11.4	24.9	-77.45	-58.2	1,285.3	1,313.3	1,290.9	22.44	58.531		
6,600.0	6,599.3	6,439.1	6,299.1	11.6	25.3	-77.47	-58.6	1,307.2	1,335.5	1,312.7	22.78	58.620		
6,700.0	6,699.3	6,536.6	6,394.1	11.8	25.7	-77.49	-59.1	1,329.1	1,357.8	1,334.6	23.13	58.707		
6,800.0	6,799.3	6,634.1	6,489.1	11.9	26.2	-77.51	-59.5	1,351.1	1,380.0	1,356.5	23.47	58.791		
6,900.0	6,899.3	6,731.6	6,584.1	12.1	26.6	-77.52	-59.9	1,373.0	1,402.2	1,378.4	23.82	58.873		
6,921.2	6,920.6	6,752.3	6,604.3	12.1	26.7	-77.53	-60.0	1,377.7	1,407.0	1,383.1	23.89	58.890		
6,950.0	6,949.3	6,780.3	6,631.6	12.2	26.8	86.03	-60.1	1,384.0	1,413.3	1,389.3	24.02	58.836		
7,000.0	6,999.1	6,828.8	6,678.9	12.3	27.0	87.56	-60.3	1,394.9	1,424.4	1,400.2	24.25	58.749		
7,050.0	7,048.4	6,876.8	6,725.7	12.3	27.2	87.24	-60.5	1,405.6	1,435.5	1,411.0	24.46	58.678		
7,100.0	7,096.7	6,923.8	6,771.5	12.4	27.4	86.81	-60.7	1,416.2	1,446.4	1,421.8	24.67	58.635		
7,150.0	7,143.8	6,969.6	6,816.0	12.5	27.6	86.44	-60.9	1,426.5	1,457.3	1,432.5	24.86	58.622		
7,200.0	7,189.2	7,013.7	6,859.0	12.5	27.8	86.14	-61.0	1,436.4	1,468.3	1,443.2	25.04	58.629		
7,250.0	7,232.6	7,055.8	6,900.0	12.6	28.0	85.91	-61.2	1,445.9	1,479.3	1,454.1	25.23	58.644		
7,300.0	7,273.7	7,095.6	6,938.8	12.7	28.2	85.70	-61.4	1,454.8	1,490.5	1,465.1	25.41	58.648		
7,350.0	7,312.1	7,132.8	6,975.1	12.9	28.3	85.48	-61.5	1,463.2	1,502.0	1,476.4	25.62	58.625		
7,400.0	7,347.6	7,167.2	7,008.6	13.1	28.5	85.23	-61.7	1,470.9	1,513.9	1,488.0	25.85	58.560		
7,450.0	7,379.9	7,198.4	7,039.0	13.3	28.6	84.90	-61.8	1,477.9	1,526.3	1,500.2	26.12	58.445		
7,500.0	7,408.8	7,226.2	7,066.1	13.5	28.8	84.45	-61.9	1,484.2	1,539.3	1,512.9	26.41	58.275		
7,550.0	7,434.0	7,250.4	7,089.7	13.8	28.9	83.84	-62.0	1,489.6	1,552.9	1,526.2	26.75	58.058		
7,600.0	7,455.3	7,270.8	7,109.6	14.2	29.0	83.07	-62.1	1,494.2	1,567.3	1,540.2	27.11	57.805		
7,650.0	7,472.7	7,287.3	7,125.7	14.6	29.0	82.09	-62.2	1,498.0	1,582.5	1,555.0	27.50	57.536		
7,700.0	7,485.8	7,299.8	7,137.8	15.0	29.1	80.89	-62.2	1,500.8	1,598.3	1,570.4	27.91	57.274		
7,750.0	7,494.7	7,308.1	7,145.9	15.5	29.1	79.47	-62.3	1,502.6	1,614.9	1,586.6	28.31	57.042		
7,800.0	7,499.3	7,312.1	7,149.8	16.0	29.1	77.84	-62.3	1,503.5	1,632.0	1,603.3	28.71	56.855		
7,827.7	7,500.0	7,312.6	7,150.3	16.3	29.1	76.84	-62.3	1,503.6	1,641.8	1,612.8	28.92	56.773		
7,900.0	7,500.0	8,306.2	7,740.0	17.2	33.5	98.33	572.6	1,636.4	1,656.9	1,622.7	34.16	48.505		
8,000.0	7,500.0	8,406.2	7,740.0	18.4	34.2	98.32	672.6	1,635.9	1,658.1	1,621.5	36.56	45.354		
8,100.0	7,500.0	8,506.2	7,740.0	19.7	34.9	98.32	772.6	1,635.3	1,659.3	1,620.2	39.12	42.415		
8,200.0	7,500.0	8,606.2	7,740.0	21.1	35.7	98.31	872.6	1,634.8	1,660.5	1,618.7	41.81	39.712		
8,300.0	7,500.0	8,706.2	7,740.0	22.5	36.5	98.30	972.6	1,634.3	1,661.7	1,617.1	44.61	37.246		
8,400.0	7,500.0	8,806.2	7,740.0	24.0	37.4	98.30	1,072.6	1,633.8	1,662.9	1,615.4	47.50	35.006		
8,500.0	7,500.0	8,906.2	7,740.0	25.5	38.4	98.29	1,172.6	1,633.2	1,664.1	1,613.6	50.47	32.974		
8,600.0	7,500.0	9,006.2	7,740.0	27.0	39.4	98.29	1,272.5	1,632.7	1,665.3	1,611.8	53.49	31.132		
8,700.0	7,500.0	9,106.2	7,740.0	28.6	40.5	98.28	1,372.5	1,632.2	1,666.5	1,610.0	56.57	29.461		
8,800.0	7,500.0	9,206.2	7,740.0	30.2	41.6	98.27	1,472.5	1,631.7	1,667.7	1,608.1	59.69	27.941		
8,900.0	7,500.0	9,306.2	7,740.0	31.8	42.8	98.27	1,572.5	1,631.1	1,668.9	1,606.1	62.85	26.557		
9,000.0	7,500.0	9,406.2	7,740.0	33.4	44.0	98.26	1,672.5	1,630.6	1,670.2	1,604.1	66.03	25.292		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
9,027.7	7,500.0	9,433.9	7,740.0	33.8	44.3	98.26	1,700.2	1,630.5	1,670.5	1,603.6	66.92	24.961		
9,100.0	7,500.0	9,506.2	7,740.0	35.0	45.2	98.26	1,772.5	1,630.1	1,671.4	1,602.1	69.25	24.135		
9,127.7	7,500.0	9,533.9	7,740.0	35.5	45.6	98.25	1,800.2	1,629.9	1,671.7	1,601.6	70.15	23.831		
9,200.0	7,500.0	9,606.1	7,740.0	36.6	46.5	98.25	1,872.5	1,629.6	1,673.0	1,600.9	72.16	23.184		
9,300.0	7,500.0	9,706.1	7,740.0	38.3	47.8	98.24	1,972.4	1,629.0	1,676.3	1,601.4	74.95	22.365		
9,400.0	7,500.0	9,806.0	7,740.0	40.0	49.2	98.22	2,072.3	1,628.5	1,681.4	1,603.7	77.73	21.630		
9,427.7	7,500.0	9,833.6	7,740.0	40.4	49.5	98.21	2,100.0	1,628.4	1,683.1	1,604.6	78.50	21.440		
9,500.0	7,500.0	9,905.8	7,740.0	41.6	50.5	98.19	2,172.1	1,628.0	1,687.7	1,606.8	80.88	20.867		
9,600.0	7,500.0	10,005.5	7,740.0	43.3	51.9	98.16	2,271.9	1,627.5	1,694.1	1,609.9	84.18	20.124		
9,700.0	7,500.0	10,105.3	7,740.0	45.0	53.3	98.13	2,371.7	1,627.0	1,700.5	1,613.0	87.50	19.435		
9,800.0	7,500.0	10,205.1	7,740.0	46.7	54.7	98.10	2,471.5	1,626.4	1,706.9	1,616.1	90.83	18.793		
9,900.0	7,500.0	10,304.9	7,740.0	48.4	56.2	98.07	2,571.3	1,625.9	1,713.3	1,619.1	94.17	18.194		
10,000.0	7,500.0	10,404.7	7,740.0	50.1	57.6	98.04	2,671.0	1,625.4	1,719.7	1,622.1	97.51	17.635		
10,100.0	7,500.0	10,504.5	7,740.0	51.8	59.1	98.01	2,770.8	1,624.9	1,726.0	1,625.2	100.87	17.111		
10,200.0	7,500.0	10,604.3	7,740.0	53.5	60.6	97.98	2,870.6	1,624.3	1,732.4	1,628.2	104.24	16.620		
10,300.0	7,500.0	10,704.1	7,740.0	55.2	62.1	97.95	2,970.4	1,623.8	1,738.8	1,631.2	107.61	16.158		
10,400.0	7,500.0	10,803.9	7,740.0	56.9	63.6	97.92	3,070.2	1,623.3	1,745.2	1,634.2	110.99	15.723		
10,500.0	7,500.0	10,903.7	7,740.0	58.6	65.1	97.89	3,170.0	1,622.8	1,751.6	1,637.2	114.38	15.314		
10,600.0	7,500.0	11,003.5	7,740.0	60.3	66.7	97.86	3,269.8	1,622.3	1,758.0	1,640.2	117.78	14.927		
10,627.7	7,500.0	11,031.1	7,740.0	60.8	67.1	97.85	3,297.5	1,622.1	1,759.8	1,641.1	118.72	14.823		
10,700.0	7,500.0	11,103.3	7,740.0	62.0	68.2	97.83	3,369.6	1,621.7	1,763.9	1,642.4	121.57	14.510		
10,800.0	7,500.0	11,203.2	7,740.0	63.7	69.8	97.81	3,469.5	1,621.2	1,768.2	1,642.7	125.49	14.090		
10,900.0	7,500.0	11,303.1	7,740.0	65.5	71.4	97.79	3,569.5	1,620.7	1,770.8	1,641.4	129.39	13.686		
11,000.0	7,500.0	11,403.1	7,740.0	67.2	72.9	97.79	3,669.5	1,620.2	1,771.6	1,638.4	133.25	13.295		
11,023.0	7,500.0	11,426.2	7,740.0	67.6	73.3	97.79	3,692.5	1,620.0	1,771.6	1,637.4	134.14	13.207		
11,100.0	7,500.0	11,503.1	7,740.0	68.9	74.5	97.79	3,769.5	1,619.6	1,771.2	1,634.5	136.76	12.951		
11,200.0	7,500.0	11,603.1	7,740.0	70.6	76.1	97.79	3,869.5	1,619.1	1,770.8	1,630.6	140.18	12.633		
11,300.0	7,500.0	11,703.1	7,740.0	72.3	77.7	97.79	3,969.5	1,618.6	1,770.3	1,626.7	143.59	12.329		
11,400.0	7,500.0	11,803.1	7,740.0	74.1	79.3	97.79	4,069.5	1,618.1	1,769.9	1,622.9	147.01	12.039		
11,500.0	7,500.0	11,903.1	7,740.0	75.8	81.0	97.80	4,169.5	1,617.5	1,769.5	1,619.0	150.44	11.762		
11,600.0	7,500.0	12,003.1	7,740.0	77.5	82.6	97.80	4,269.4	1,617.0	1,769.0	1,615.2	153.86	11.497		
11,700.0	7,500.0	12,103.1	7,740.0	79.3	84.2	97.80	4,369.4	1,616.5	1,768.6	1,611.3	157.29	11.244		
11,800.0	7,500.0	12,203.1	7,740.0	81.0	85.8	97.80	4,469.4	1,616.0	1,768.2	1,607.4	160.72	11.002		
11,900.0	7,500.0	12,303.1	7,740.0	82.7	87.5	97.80	4,569.4	1,615.4	1,767.7	1,603.6	164.15	10.769		
12,000.0	7,500.0	12,403.1	7,740.0	84.5	89.1	97.81	4,669.4	1,614.9	1,767.3	1,599.7	167.58	10.546		
12,100.0	7,500.0	12,503.1	7,740.0	86.2	90.8	97.81	4,769.4	1,614.4	1,766.8	1,595.8	171.02	10.331		
12,200.0	7,500.0	12,603.1	7,740.0	87.9	92.4	97.81	4,869.4	1,613.9	1,766.4	1,591.9	174.45	10.125		
12,300.0	7,500.0	12,703.1	7,740.0	89.7	94.1	97.81	4,969.4	1,613.3	1,766.0	1,588.1	177.89	9.927		
12,400.0	7,500.0	12,803.1	7,740.0	91.4	95.7	97.81	5,069.4	1,612.8	1,765.5	1,584.2	181.33	9.736		
12,500.0	7,500.0	12,903.1	7,740.0	93.1	97.4	97.81	5,169.4	1,612.3	1,765.1	1,580.3	184.77	9.553		
12,600.0	7,500.0	13,003.1	7,740.0	94.9	99.0	97.82	5,269.4	1,611.8	1,764.6	1,576.4	188.21	9.376		
12,700.0	7,500.0	13,103.1	7,740.0	96.6	100.7	97.82	5,369.4	1,611.3	1,764.2	1,572.6	191.66	9.205		
12,800.0	7,500.0	13,203.1	7,740.0	98.3	102.4	97.82	5,469.4	1,610.7	1,763.8	1,568.7	195.10	9.040		
12,900.0	7,500.0	13,303.1	7,740.0	100.1	104.0	97.82	5,569.4	1,610.2	1,763.3	1,564.8	198.55	8.881		
13,000.0	7,500.0	13,403.1	7,740.0	101.8	105.7	97.82	5,669.4	1,609.7	1,762.9	1,560.9	201.99	8.728		
13,100.0	7,500.0	13,503.1	7,740.0	103.6	107.4	97.83	5,769.4	1,609.2	1,762.5	1,557.0	205.44	8.579		
13,200.0	7,500.0	13,603.1	7,740.0	105.3	109.1	97.83	5,869.4	1,608.6	1,762.0	1,553.1	208.89	8.435		
13,300.0	7,500.0	13,703.1	7,740.0	107.0	110.8	97.83	5,969.4	1,608.1	1,761.6	1,549.2	212.33	8.296		
13,400.0	7,500.0	13,803.1	7,740.0	108.8	112.4	97.83	6,069.4	1,607.6	1,761.1	1,545.4	215.78	8.162		
13,500.0	7,500.0	13,903.1	7,740.0	110.5	114.1	97.83	6,169.4	1,607.1	1,760.7	1,541.5	219.23	8.031		
13,600.0	7,500.0	14,003.1	7,740.0	112.3	115.8	97.84	6,269.4	1,606.5	1,760.3	1,537.6	222.69	7.905		
13,700.0	7,500.0	14,103.1	7,740.0	114.0	117.5	97.84	6,369.4	1,606.0	1,759.8	1,533.7	226.14	7.782		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,800.0	7,500.0	14,203.1	7,740.0	115.7	119.2	97.84	6,469.4	1,605.5	1,759.4	1,529.8	229.59	7.663	
13,900.0	7,500.0	14,303.1	7,740.0	117.5	120.9	97.84	6,569.4	1,605.0	1,759.0	1,525.9	233.04	7.548	
14,000.0	7,500.0	14,403.1	7,740.0	119.2	122.6	97.84	6,669.4	1,604.4	1,758.5	1,522.0	236.50	7.436	
14,100.0	7,500.0	14,503.1	7,740.0	121.0	124.3	97.85	6,769.4	1,603.9	1,758.1	1,518.1	239.95	7.327	
14,200.0	7,500.0	14,603.1	7,740.0	122.7	126.0	97.85	6,869.4	1,603.4	1,757.6	1,514.2	243.41	7.221	
14,300.0	7,500.0	14,703.1	7,740.0	124.5	127.7	97.85	6,969.4	1,602.9	1,757.2	1,510.3	246.86	7.118	
14,400.0	7,500.0	14,803.1	7,740.0	126.2	129.4	97.85	7,069.4	1,602.3	1,756.8	1,506.5	250.32	7.018	
14,422.4	7,500.0	14,825.5	7,740.0	126.6	129.8	97.85	7,091.8	1,602.2	1,756.7	1,505.6	251.09	6.996 SF	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	90.35	-0.4	59.9	59.9					
100.0	100.0	100.0	100.0	0.2	0.2	90.35	-0.4	59.9	59.9	59.6	0.30	197.227		
200.0	200.0	200.0	200.0	0.3	0.3	90.35	-0.4	59.9	59.9	59.2	0.65	91.758 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	90.37	-0.4	60.7	60.8	59.8	1.00	60.734		
400.0	400.0	397.8	397.8	0.7	0.7	-130.15	-0.5	63.3	63.9	62.6	1.35	47.429		
500.0	500.0	496.5	496.3	0.9	0.9	-131.60	-0.6	67.6	69.9	68.2	1.70	41.226		
600.0	599.9	594.8	594.5	1.0	1.1	-133.62	-0.8	73.5	78.9	76.8	2.05	38.528		
700.0	699.8	692.7	692.1	1.2	1.3	-129.63	-1.0	81.1	89.5	87.1	2.40	37.317		
800.0	799.7	790.5	789.5	1.4	1.5	-114.92	-1.3	90.3	100.4	97.7	2.75	36.540		
865.6	865.4	854.6	853.2	1.5	1.7	-82.78	-1.5	97.2	107.7	104.7	2.98	36.182		
900.0	899.7	888.1	886.5	1.6	1.7	-82.70	-1.7	101.1	111.6	108.5	3.10	36.058		
1,000.0	999.7	985.3	982.9	1.7	2.0	-82.44	-2.1	113.6	124.2	120.7	3.44	36.076		
1,100.0	1,099.7	1,082.1	1,078.6	1.9	2.3	-82.14	-2.5	127.6	138.4	134.6	3.79	36.537		
1,200.0	1,199.7	1,178.4	1,173.7	2.1	2.6	-81.82	-3.0	143.2	154.3	150.2	4.13	37.330		
1,300.0	1,299.7	1,274.2	1,267.9	2.3	2.9	-81.50	-3.5	160.2	171.8	167.3	4.48	38.376		
1,400.0	1,399.7	1,369.3	1,361.2	2.4	3.3	-81.18	-4.1	178.7	191.0	186.2	4.82	39.622		
1,500.0	1,499.7	1,463.8	1,453.6	2.6	3.7	-80.88	-4.7	198.6	211.8	206.6	5.16	41.026		
1,600.0	1,599.7	1,557.6	1,545.0	2.8	4.1	-80.59	-5.4	219.9	234.2	228.7	5.50	42.557		
1,700.0	1,699.7	1,650.7	1,635.3	3.0	4.5	-80.33	-6.1	242.5	258.1	252.3	5.84	44.192		
1,800.0	1,799.7	1,743.1	1,724.5	3.1	4.9	-80.08	-6.8	266.3	283.7	277.5	6.18	45.913		
1,900.0	1,899.7	1,834.6	1,812.5	3.3	5.4	-79.84	-7.6	291.4	310.7	304.2	6.51	47.706		
2,000.0	1,999.6	1,925.3	1,899.3	3.5	5.9	-79.63	-8.5	317.6	339.4	332.5	6.85	49.558		
2,100.0	2,099.6	2,015.1	1,984.9	3.7	6.4	-79.42	-9.3	344.9	369.5	362.3	7.18	51.460		
2,200.0	2,199.6	2,109.7	2,074.7	3.9	6.9	-79.23	-10.2	374.4	400.4	392.9	7.52	53.255		
2,300.0	2,299.6	2,204.7	2,165.0	4.0	7.5	-79.07	-11.2	404.1	431.4	423.6	7.86	54.890		
2,400.0	2,399.6	2,299.8	2,255.3	4.2	8.0	-78.93	-12.1	433.9	462.4	454.2	8.20	56.391		
2,500.0	2,499.6	2,394.9	2,345.6	4.4	8.6	-78.81	-13.0	463.6	493.4	484.9	8.54	57.774		
2,600.0	2,599.6	2,489.9	2,435.9	4.6	9.2	-78.70	-14.0	493.3	524.4	515.6	8.88	59.051		
2,700.0	2,699.6	2,585.0	2,526.2	4.7	9.7	-78.60	-14.9	523.0	555.4	546.2	9.22	60.235		
2,800.0	2,799.6	2,680.1	2,616.5	4.9	10.3	-78.51	-15.8	552.8	586.4	576.9	9.56	61.336		
2,900.0	2,899.6	2,775.2	2,706.8	5.1	10.8	-78.43	-16.8	582.5	617.4	607.5	9.90	62.361		
3,000.0	2,999.6	2,870.2	2,797.1	5.3	11.4	-78.36	-17.7	612.2	648.4	638.2	10.24	63.319		
3,100.0	3,099.6	2,965.3	2,887.4	5.4	12.0	-78.30	-18.6	641.9	679.4	668.9	10.58	64.216		
3,200.0	3,199.6	3,060.4	2,977.7	5.6	12.5	-78.24	-19.6	671.6	710.5	699.5	10.92	65.057		
3,300.0	3,299.6	3,155.4	3,068.0	5.8	13.1	-78.19	-20.5	701.4	741.5	730.2	11.26	65.848		
3,400.0	3,399.5	3,250.5	3,158.3	6.0	13.6	-78.14	-21.4	731.1	772.5	760.9	11.60	66.592		
3,500.0	3,499.5	3,345.6	3,248.6	6.1	14.2	-78.09	-22.4	760.8	803.5	791.5	11.94	67.295		
3,600.0	3,599.5	3,440.6	3,338.9	6.3	14.8	-78.05	-23.3	790.5	834.5	822.2	12.28	67.959		
3,700.0	3,699.5	3,535.7	3,429.2	6.5	15.3	-78.01	-24.2	820.3	865.5	852.9	12.62	68.588		
3,800.0	3,799.5	3,630.8	3,519.5	6.7	15.9	-77.97	-25.2	850.0	896.5	883.5	12.96	69.183		
3,900.0	3,899.5	3,725.8	3,609.8	6.8	16.5	-77.94	-26.1	879.7	927.5	914.2	13.30	69.749		
4,000.0	3,999.5	3,820.9	3,700.1	7.0	17.0	-77.91	-27.0	909.4	958.5	944.9	13.64	70.286		
4,100.0	4,099.5	3,916.0	3,790.4	7.2	17.6	-77.88	-28.0	939.2	989.5	975.5	13.98	70.798		
4,200.0	4,199.5	4,011.1	3,880.7	7.4	18.2	-77.85	-28.9	968.9	1,020.5	1,006.2	14.32	71.285		
4,300.0	4,299.5	4,106.1	3,971.0	7.5	18.7	-77.82	-29.8	998.6	1,051.5	1,036.9	14.66	71.750		
4,400.0	4,399.5	4,201.2	4,061.3	7.7	19.3	-77.80	-30.8	1,028.3	1,082.5	1,067.6	15.00	72.194		
4,500.0	4,499.5	4,296.3	4,151.6	7.9	19.9	-77.78	-31.7	1,058.0	1,113.6	1,098.2	15.33	72.618		
4,600.0	4,599.5	4,391.3	4,241.9	8.1	20.4	-77.75	-32.6	1,087.8	1,144.6	1,128.9	15.67	73.024		
4,700.0	4,699.5	4,486.4	4,332.2	8.2	21.0	-77.73	-33.6	1,117.5	1,175.6	1,159.6	16.01	73.413		
4,800.0	4,799.5	4,581.5	4,422.5	8.4	21.6	-77.71	-34.5	1,147.2	1,206.6	1,190.2	16.35	73.786		
4,900.0	4,899.4	4,676.5	4,512.8	8.6	22.1	-77.69	-35.4	1,176.9	1,237.6	1,220.9	16.69	74.143		
5,000.0	4,999.4	4,771.6	4,603.1	8.8	22.7	-77.68	-36.4	1,206.7	1,268.6	1,251.6	17.03	74.487		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3											Offset Site Error:		0.0 ft
Survey Program: O-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,099.4	4,866.7	4,693.4	8.9	23.3	-77.66	-37.3	1,236.4	1,299.6	1,282.2	17.37	74.817	
5,200.0	5,199.4	4,961.8	4,783.7	9.1	23.8	-77.64	-38.2	1,266.1	1,330.6	1,312.9	17.71	75.135	
5,300.0	5,299.4	5,056.8	4,874.0	9.3	24.4	-77.63	-39.2	1,295.8	1,361.6	1,343.6	18.05	75.440	
5,400.0	5,399.4	5,151.9	4,964.3	9.5	25.0	-77.61	-40.1	1,325.5	1,392.6	1,374.3	18.39	75.735	
5,500.0	5,499.4	5,247.0	5,054.6	9.6	25.5	-77.60	-41.0	1,355.3	1,423.7	1,404.9	18.73	76.019	
5,600.0	5,599.4	5,342.0	5,144.9	9.8	26.1	-77.58	-42.0	1,385.0	1,454.7	1,435.6	19.07	76.292	
5,700.0	5,699.4	5,437.1	5,235.2	10.0	26.7	-77.57	-42.9	1,414.7	1,485.7	1,466.3	19.41	76.556	
5,800.0	5,799.4	5,532.2	5,325.5	10.2	27.2	-77.56	-43.8	1,444.4	1,516.7	1,496.9	19.75	76.812	
5,900.0	5,899.4	5,627.2	5,415.8	10.3	27.8	-77.55	-44.8	1,474.2	1,547.7	1,527.6	20.08	77.058	
6,000.0	5,999.4	5,722.3	5,506.1	10.5	28.4	-77.53	-45.7	1,503.9	1,578.7	1,558.3	20.42	77.297	
6,100.0	6,099.4	5,817.4	5,596.4	10.7	28.9	-77.52	-46.6	1,533.6	1,609.7	1,589.0	20.76	77.527	
6,200.0	6,199.4	5,912.4	5,686.7	10.9	29.5	-77.51	-47.6	1,563.3	1,640.7	1,619.6	21.10	77.750	
6,300.0	6,299.4	6,007.5	5,777.0	11.1	30.1	-77.50	-48.5	1,593.0	1,671.7	1,650.3	21.44	77.967	
6,400.0	6,399.3	6,102.6	5,867.3	11.2	30.6	-77.49	-49.4	1,622.8	1,702.8	1,681.0	21.78	78.176	
6,500.0	6,499.3	6,197.7	5,957.6	11.4	31.2	-77.48	-50.4	1,652.5	1,733.8	1,711.6	22.12	78.379	
6,600.0	6,599.3	6,292.7	6,047.9	11.6	31.8	-77.47	-51.3	1,682.2	1,764.8	1,742.3	22.46	78.576	
6,700.0	6,699.3	6,387.8	6,138.2	11.8	32.3	-77.46	-52.2	1,711.9	1,795.8	1,773.0	22.80	78.767	
6,800.0	6,799.3	6,482.9	6,228.5	11.9	32.9	-77.46	-53.2	1,741.7	1,826.8	1,803.7	23.14	78.953	
6,900.0	6,899.3	6,577.9	6,318.8	12.1	33.5	-77.45	-54.1	1,771.4	1,857.8	1,834.3	23.48	79.133	
6,921.2	6,920.6	6,598.1	6,338.0	12.1	33.6	-77.45	-54.3	1,777.7	1,864.4	1,840.9	23.55	79.171	
6,950.0	6,949.3	6,625.5	6,363.9	12.2	33.8	85.83	-54.6	1,786.2	1,873.3	1,849.6	23.72	78.991	
7,000.0	6,999.1	6,672.7	6,408.8	12.3	34.0	86.84	-55.0	1,801.0	1,888.8	1,864.7	24.04	78.569	
7,050.0	7,048.4	6,719.4	6,453.2	12.3	34.3	85.97	-55.5	1,815.6	1,904.1	1,879.7	24.39	78.074	
7,100.0	7,096.7	6,765.2	6,496.6	12.4	34.6	84.97	-55.9	1,829.9	1,919.3	1,894.6	24.74	77.578	
7,150.0	7,143.8	6,809.7	6,538.9	12.5	34.9	84.01	-56.4	1,843.8	1,934.3	1,909.2	25.08	77.132	
7,200.0	7,189.2	6,852.5	6,579.6	12.5	35.1	83.12	-56.8	1,857.2	1,949.0	1,923.6	25.39	76.765	
7,250.0	7,232.6	6,893.4	6,618.4	12.6	35.4	82.30	-57.2	1,870.0	1,963.6	1,937.9	25.67	76.481	
7,300.0	7,273.7	6,932.0	6,655.1	12.7	35.6	81.54	-57.6	1,882.1	1,977.9	1,952.0	25.93	76.272	
7,350.0	7,312.1	6,968.1	6,689.3	12.9	35.8	80.81	-57.9	1,893.3	1,992.1	1,966.0	26.17	76.121	
7,400.0	7,347.6	7,001.3	6,720.9	13.1	36.0	80.09	-58.2	1,903.7	2,006.3	1,979.9	26.40	76.009	
7,450.0	7,379.9	7,031.4	6,749.5	13.3	36.2	79.36	-58.5	1,913.2	2,020.3	1,993.7	26.61	75.916	
7,500.0	7,408.8	7,058.2	6,775.0	13.5	36.3	78.59	-58.8	1,921.5	2,034.3	2,007.5	26.83	75.829	
7,550.0	7,434.0	7,081.5	6,797.1	13.8	36.5	77.76	-59.0	1,928.8	2,048.4	2,021.3	27.04	75.741	
7,600.0	7,455.3	7,101.1	6,815.7	14.2	36.6	76.86	-59.2	1,934.9	2,062.4	2,035.2	27.26	75.647	
7,650.0	7,472.7	7,116.9	6,830.7	14.6	36.7	75.86	-59.4	1,939.9	2,076.5	2,049.0	27.49	75.546	
7,700.0	7,485.8	7,128.7	6,841.9	15.0	36.8	74.77	-59.5	1,943.6	2,090.6	2,062.9	27.71	75.433	
7,750.0	7,494.7	8,237.4	7,500.0	15.5	41.3	89.53	616.0	2,094.5	2,104.6	2,071.4	33.20	63.395	
7,800.0	7,499.3	8,287.0	7,500.0	16.0	41.5	89.80	665.4	2,089.7	2,100.6	2,066.3	34.32	61.203	
7,827.7	7,500.0	8,314.7	7,500.0	16.3	41.6	90.00	692.9	2,087.1	2,098.5	2,063.5	34.96	60.018	
7,900.0	7,500.0	8,386.7	7,500.0	17.2	41.9	90.00	764.6	2,080.2	2,092.8	2,056.1	36.72	56.997	
8,000.0	7,500.0	8,486.4	7,500.0	18.4	42.4	90.00	863.8	2,070.6	2,084.9	2,045.7	39.29	53.072	
8,100.0	7,500.0	8,586.1	7,500.0	19.7	43.0	90.00	963.1	2,061.1	2,077.1	2,035.1	41.99	49.466	
8,200.0	7,500.0	8,685.8	7,500.0	21.1	43.6	90.00	1,062.3	2,051.5	2,069.3	2,024.4	44.81	46.181	
8,300.0	7,500.0	8,785.5	7,500.0	22.5	44.3	90.00	1,161.5	2,042.0	2,061.4	2,013.7	47.72	43.201	
8,400.0	7,500.0	8,885.2	7,500.0	24.0	45.1	90.00	1,260.8	2,032.4	2,053.6	2,002.9	50.70	40.503	
8,500.0	7,500.0	8,984.8	7,500.0	25.5	45.9	90.00	1,360.0	2,022.8	2,045.7	1,992.0	53.75	38.060	
8,600.0	7,500.0	9,084.5	7,500.0	27.0	46.7	90.00	1,459.2	2,013.3	2,037.9	1,981.0	56.85	35.845	
8,700.0	7,500.0	9,184.2	7,500.0	28.6	47.7	90.00	1,558.5	2,003.7	2,030.0	1,970.0	60.00	33.835	
8,800.0	7,500.0	9,283.9	7,500.0	30.2	48.6	90.00	1,657.7	1,994.2	2,022.2	1,959.0	63.18	32.005	
8,900.0	7,500.0	9,383.6	7,500.0	31.8	49.6	90.00	1,756.9	1,984.6	2,014.3	1,947.9	66.40	30.337	
9,000.0	7,500.0	9,483.3	7,500.0	33.4	50.7	90.00	1,856.2	1,975.1	2,006.5	1,936.8	69.64	28.811	
9,027.7	7,500.0	9,511.0	7,500.0	33.8	51.0	90.00	1,883.7	1,972.4	2,004.3	1,933.8	70.55	28.411	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,500.0	9,583.0	7,500.0	35.0	51.7	90.00	1,955.4	1,965.5	1,998.6	1,925.7	72.91	27.411	
9,127.7	7,500.0	9,610.6	7,500.0	35.5	52.0	90.00	1,982.9	1,962.9	1,996.5	1,922.6	73.82	27.044	
9,200.0	7,500.0	9,682.7	7,500.0	36.6	52.9	90.00	2,054.7	1,956.0	1,991.2	1,915.4	75.80	26.270	
9,300.0	7,500.0	9,782.6	7,500.0	38.3	54.0	90.00	2,154.0	1,946.4	1,985.5	1,907.0	78.54	25.282	
9,400.0	7,500.0	9,882.5	7,500.0	40.0	55.2	90.00	2,253.5	1,936.8	1,981.6	1,900.3	81.27	24.383	
9,427.7	7,500.0	9,910.2	7,500.0	40.4	55.5	90.00	2,281.1	1,934.2	1,980.8	1,898.7	82.02	24.149	
9,500.0	7,500.0	9,982.4	7,500.0	41.6	56.4	90.00	2,353.0	1,927.2	1,978.9	1,894.4	84.44	23.435	
9,600.0	7,500.0	10,082.4	7,500.0	43.3	57.7	90.00	2,452.5	1,917.6	1,976.3	1,888.5	87.79	22.510	
9,700.0	7,500.0	10,182.4	7,500.0	45.0	58.9	90.00	2,552.0	1,908.1	1,973.6	1,882.5	91.16	21.650	
9,800.0	7,500.0	10,282.3	7,500.0	46.7	60.2	90.00	2,651.5	1,898.5	1,971.0	1,876.5	94.54	20.849	
9,900.0	7,500.0	10,382.3	7,500.0	48.4	61.6	90.00	2,751.0	1,888.9	1,968.4	1,870.5	97.93	20.101	
10,000.0	7,500.0	10,482.3	7,500.0	50.1	62.9	90.00	2,850.5	1,879.3	1,965.8	1,864.5	101.32	19.401	
10,100.0	7,500.0	10,582.2	7,500.0	51.8	64.3	90.00	2,950.0	1,869.7	1,963.2	1,858.4	104.73	18.745	
10,200.0	7,500.0	10,682.2	7,500.0	53.5	65.7	90.00	3,049.5	1,860.2	1,960.5	1,852.4	108.14	18.130	
10,300.0	7,500.0	10,762.0	7,500.0	55.2	66.8	90.00	3,129.0	1,852.8	1,958.3	1,847.1	111.21	17.609	
10,400.0	7,500.0	10,836.6	7,500.0	56.9	67.8	90.00	3,203.3	1,846.9	1,957.4	1,843.2	114.20	17.140	
10,426.9	7,500.0	10,856.7	7,500.0	57.3	68.1	90.00	3,223.4	1,845.5	1,957.4	1,842.4	115.00	17.020	
10,500.0	7,500.0	10,900.0	7,500.0	58.6	68.8	90.00	3,266.6	1,842.6	1,957.8	1,840.8	117.00	16.734	
10,600.0	7,500.0	10,985.6	7,500.0	60.3	70.0	90.00	3,352.1	1,838.0	1,959.4	1,839.2	120.18	16.304	
10,627.7	7,500.0	11,000.0	7,500.0	60.8	70.2	90.00	3,366.5	1,837.4	1,960.1	1,839.2	120.90	16.213	
10,700.0	7,500.0	11,060.1	7,500.0	62.0	71.1	90.00	3,426.5	1,835.0	1,961.9	1,838.3	123.62	15.871	
10,800.0	7,500.0	11,134.6	7,500.0	63.7	72.3	90.00	3,501.0	1,833.0	1,964.1	1,836.8	127.20	15.440	
10,900.0	7,500.0	11,209.0	7,500.0	65.5	73.4	90.00	3,575.4	1,831.9	1,965.7	1,835.0	130.76	15.034	
11,000.0	7,500.0	11,293.9	7,500.0	67.2	74.7	90.00	3,660.3	1,831.8	1,966.9	1,832.4	134.45	14.629	
11,023.0	7,500.0	11,316.9	7,500.0	67.6	75.1	90.00	3,683.3	1,831.8	1,966.9	1,831.6	135.36	14.531	
11,100.0	7,500.0	11,393.9	7,500.0	68.9	76.2	90.00	3,760.3	1,831.8	1,967.0	1,829.0	138.01	14.253	
11,200.0	7,500.0	11,493.9	7,500.0	70.6	77.8	90.00	3,860.3	1,831.8	1,967.1	1,825.6	141.45	13.907	
11,300.0	7,500.0	11,593.9	7,500.0	72.3	79.4	90.00	3,960.3	1,831.8	1,967.2	1,822.3	144.89	13.577	
11,400.0	7,500.0	11,693.9	7,500.0	74.1	80.9	90.00	4,060.3	1,831.8	1,967.2	1,818.9	148.34	13.262	
11,500.0	7,500.0	11,793.9	7,500.0	75.8	82.5	90.00	4,160.3	1,831.8	1,967.3	1,815.5	151.79	12.961	
11,600.0	7,500.0	11,893.9	7,500.0	77.5	84.1	90.00	4,260.3	1,831.8	1,967.4	1,812.2	155.24	12.673	
11,700.0	7,500.0	11,993.9	7,500.0	79.3	85.7	90.00	4,360.3	1,831.8	1,967.5	1,808.8	158.70	12.397	
11,800.0	7,500.0	12,093.9	7,500.0	81.0	87.3	90.00	4,460.3	1,831.8	1,967.6	1,805.4	162.16	12.134	
11,900.0	7,500.0	12,193.9	7,500.0	82.7	88.9	90.00	4,560.3	1,831.8	1,967.6	1,802.0	165.62	11.881	
12,000.0	7,500.0	12,293.9	7,500.0	84.5	90.5	90.00	4,660.3	1,831.8	1,967.7	1,798.6	169.08	11.638	
12,100.0	7,500.0	12,393.9	7,500.0	86.2	92.1	90.00	4,760.3	1,831.8	1,967.8	1,795.3	172.54	11.405	
12,200.0	7,500.0	12,493.9	7,500.0	87.9	93.7	90.00	4,860.3	1,831.8	1,967.9	1,791.9	176.01	11.181	
12,300.0	7,500.0	12,593.9	7,500.0	89.7	95.4	90.00	4,960.3	1,831.8	1,968.0	1,788.5	179.48	10.965	
12,400.0	7,500.0	12,693.9	7,500.0	91.4	97.0	90.00	5,060.3	1,831.8	1,968.1	1,785.1	182.94	10.758	
12,500.0	7,500.0	12,793.9	7,500.0	93.1	98.6	90.00	5,160.3	1,831.8	1,968.1	1,781.7	186.41	10.558	
12,600.0	7,500.0	12,893.9	7,500.0	94.9	100.3	90.00	5,260.3	1,831.8	1,968.2	1,778.3	189.89	10.365	
12,700.0	7,500.0	12,993.9	7,500.0	96.6	101.9	90.00	5,360.3	1,831.8	1,968.3	1,774.9	193.36	10.180	
12,800.0	7,500.0	13,093.9	7,500.0	98.3	103.6	90.00	5,460.3	1,831.8	1,968.4	1,771.5	196.83	10.000	
12,900.0	7,500.0	13,193.9	7,500.0	100.1	105.2	90.00	5,560.3	1,831.8	1,968.5	1,768.2	200.31	9.827	
13,000.0	7,500.0	13,293.9	7,500.0	101.8	106.9	90.00	5,660.3	1,831.8	1,968.5	1,764.8	203.78	9.660	
13,100.0	7,500.0	13,393.9	7,500.0	103.6	108.5	90.00	5,760.3	1,831.8	1,968.6	1,761.4	207.26	9.498	
13,200.0	7,500.0	13,493.9	7,500.0	105.3	110.2	90.00	5,860.3	1,831.8	1,968.7	1,758.0	210.74	9.342	
13,300.0	7,500.0	13,593.9	7,500.0	107.0	111.8	90.00	5,960.3	1,831.8	1,968.8	1,754.6	214.22	9.191	
13,400.0	7,500.0	13,693.9	7,500.0	108.8	113.5	90.00	6,060.3	1,831.8	1,968.9	1,751.2	217.70	9.044	
13,500.0	7,500.0	13,782.7	7,500.0	110.5	115.0	90.00	6,149.1	1,831.8	1,969.1	1,748.1	220.99	8.910	
13,600.0	7,500.0	13,855.3	7,500.0	112.3	116.2	90.00	6,221.7	1,832.8	1,970.4	1,746.4	223.99	8.797	
13,700.0	7,500.0	13,927.9	7,500.0	114.0	117.4	90.00	6,294.3	1,834.7	1,973.1	1,746.1	227.00	8.692	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,800.0	7,500.0	14,000.0	7,500.0	115.7	118.7	90.00	6,366.3	1,837.6	1,977.3	1,747.3	230.00	8.597	
13,900.0	7,500.0	14,072.8	7,500.0	117.5	119.9	90.00	6,439.0	1,841.5	1,982.8	1,749.8	233.01	8.509	
14,000.0	7,500.0	14,145.1	7,500.0	119.2	121.1	90.00	6,511.2	1,846.5	1,989.6	1,753.6	236.01	8.430	
14,100.0	7,500.0	14,217.3	7,500.0	121.0	122.4	90.00	6,583.1	1,852.4	1,997.9	1,758.9	239.01	8.359	
14,200.0	7,500.0	14,300.0	7,500.0	122.7	123.8	90.00	6,665.4	1,860.4	2,007.6	1,765.4	242.20	8.289	
14,300.0	7,500.0	14,361.0	7,500.0	124.5	124.9	90.00	6,726.0	1,867.1	2,018.6	1,773.6	245.00	8.239	
14,400.0	7,500.0	14,432.5	7,500.0	126.2	126.1	90.00	6,797.0	1,875.9	2,030.9	1,782.9	247.99	8.190	
14,422.4	7,500.0	14,448.5	7,500.0	126.6	126.4	90.00	6,812.8	1,878.0	2,033.9	1,785.2	248.66	8.179 SF	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.4	-528.1	528.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.4	-528.1	528.1	527.8	0.30	1,739.066		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.4	-528.1	528.1	527.5	0.65	809.085		
200.7	200.7	200.7	200.7	0.3	0.3	-89.96	0.4	-528.1	528.1	527.5	0.66	806.139		
300.0	300.0	300.0	300.0	0.5	0.5	-89.87	1.2	-528.1	528.1	527.1	1.00	526.903		
400.0	400.0	399.9	399.8	0.7	0.7	50.49	3.9	-528.1	527.6	526.2	1.36	388.742		
500.0	500.0	499.5	499.4	0.9	0.9	51.20	8.2	-528.1	526.0	524.3	1.72	305.598		
600.0	599.9	598.8	598.5	1.0	1.1	52.25	14.2	-528.1	523.5	521.4	2.10	249.232		
700.0	699.8	698.0	697.4	1.2	1.3	59.09	21.6	-528.1	521.3	518.9	2.49	209.630		
792.4	792.1	790.0	789.1	1.4	1.5	73.48	28.6	-528.1	520.7	517.9	2.84	183.049 CC		
800.0	799.7	797.5	796.6	1.4	1.5	75.55	29.1	-528.1	520.7	517.8	2.87	181.182		
865.6	865.4	862.9	861.8	1.5	1.6	108.37	34.1	-528.1	521.1	518.0	3.13	166.609		
900.0	899.7	897.1	895.9	1.6	1.7	108.69	36.6	-528.1	521.5	518.2	3.26	159.932		
1,000.0	999.7	996.7	995.3	1.7	1.9	109.63	44.2	-528.1	522.6	519.0	3.65	143.254		
1,100.0	1,099.7	1,096.4	1,094.6	1.9	2.1	110.57	51.7	-528.1	523.9	519.9	4.04	129.796		
1,200.0	1,199.7	1,196.0	1,194.0	2.1	2.3	111.50	59.2	-528.1	525.4	521.0	4.43	118.725		
1,300.0	1,299.7	1,295.6	1,293.3	2.3	2.5	112.42	66.7	-528.1	527.0	522.2	4.81	109.471		
1,400.0	1,399.7	1,395.2	1,392.6	2.4	2.8	113.34	74.2	-528.1	528.7	523.5	5.20	101.628		
1,500.0	1,499.7	1,494.9	1,492.0	2.6	3.0	114.25	81.7	-528.1	530.5	525.0	5.59	94.905		
1,600.0	1,599.7	1,594.5	1,591.3	2.8	3.2	115.16	89.2	-528.1	532.5	526.6	5.98	89.083		
1,700.0	1,699.7	1,694.1	1,690.7	3.0	3.4	116.06	96.8	-528.1	534.7	528.3	6.37	83.999		
1,800.0	1,799.7	1,793.7	1,790.0	3.1	3.6	116.95	104.3	-528.1	536.9	530.2	6.75	79.523		
1,900.0	1,899.7	1,893.3	1,889.3	3.3	3.8	117.84	111.8	-528.1	539.3	532.2	7.14	75.558		
2,000.0	1,999.6	1,993.0	1,988.7	3.5	4.1	118.71	119.3	-528.1	541.8	534.3	7.52	72.024		
2,100.0	2,099.6	2,092.6	2,088.0	3.7	4.3	119.58	126.8	-528.1	544.5	536.6	7.91	68.856		
2,200.0	2,199.6	2,192.2	2,187.4	3.9	4.5	120.44	134.3	-528.1	547.2	538.9	8.29	66.003		
2,300.0	2,299.6	2,291.8	2,286.7	4.0	4.7	121.29	141.9	-528.1	550.1	541.5	8.67	63.424		
2,400.0	2,399.6	2,391.5	2,386.0	4.2	4.9	122.14	149.4	-528.1	553.1	544.1	9.06	61.081		
2,500.0	2,499.6	2,491.1	2,485.4	4.4	5.1	122.97	156.9	-528.1	556.3	546.8	9.44	58.946		
2,600.0	2,599.6	2,590.7	2,584.7	4.6	5.4	123.79	164.4	-528.1	559.5	549.7	9.82	56.995		
2,700.0	2,699.6	2,690.3	2,684.1	4.7	5.6	124.61	171.9	-528.1	562.9	552.7	10.20	55.205		
2,800.0	2,799.6	2,790.0	2,783.4	4.9	5.8	125.41	179.4	-528.1	566.3	555.8	10.57	53.558		
2,900.0	2,899.6	2,889.6	2,882.7	5.1	6.0	126.21	186.9	-528.1	569.9	559.0	10.95	52.041		
3,000.0	2,999.6	2,989.2	2,982.1	5.3	6.2	126.99	194.5	-528.1	573.6	562.3	11.33	50.638		
3,100.0	3,099.6	3,088.8	3,081.4	5.4	6.5	127.76	202.0	-528.1	577.4	565.7	11.70	49.338		
3,200.0	3,199.6	3,188.4	3,180.8	5.6	6.7	128.53	209.5	-528.1	581.3	569.3	12.08	48.132		
3,300.0	3,299.6	3,288.1	3,280.1	5.8	6.9	129.28	217.0	-528.1	585.3	572.9	12.45	47.010		
3,400.0	3,399.5	3,387.7	3,379.4	6.0	7.1	130.02	224.5	-528.1	589.4	576.6	12.82	45.965		
3,500.0	3,499.5	3,487.3	3,478.8	6.1	7.3	130.76	232.0	-528.1	593.7	580.5	13.20	44.990		
3,600.0	3,599.5	3,586.9	3,578.1	6.3	7.5	131.48	239.6	-528.1	598.0	584.4	13.57	44.078		
3,700.0	3,699.5	3,686.6	3,677.5	6.5	7.8	132.19	247.1	-528.1	602.4	588.4	13.94	43.224		
3,800.0	3,799.5	3,786.2	3,776.8	6.7	8.0	132.89	254.6	-528.1	606.8	592.5	14.30	42.423		
3,900.0	3,899.5	3,885.8	3,876.1	6.8	8.2	133.59	262.1	-528.1	611.4	596.7	14.67	41.672		
4,000.0	3,999.5	3,985.4	3,975.5	7.0	8.4	134.27	269.6	-528.1	616.1	601.0	15.04	40.965		
4,100.0	4,099.5	4,085.1	4,074.8	7.2	8.6	134.94	277.1	-528.1	620.8	605.4	15.41	40.300		
4,200.0	4,199.5	4,184.7	4,174.1	7.4	8.8	135.60	284.6	-528.1	625.7	609.9	15.77	39.674		
4,300.0	4,299.5	4,284.3	4,273.5	7.5	9.1	136.25	292.2	-528.1	630.6	614.5	16.13	39.083		
4,400.0	4,399.5	4,383.9	4,372.8	7.7	9.3	136.89	299.7	-528.1	635.6	619.1	16.50	38.524		
4,500.0	4,499.5	4,483.6	4,472.2	7.9	9.5	137.52	307.2	-528.1	640.7	623.8	16.86	37.997		
4,600.0	4,599.5	4,583.2	4,571.5	8.1	9.7	138.14	314.7	-528.1	645.8	628.6	17.22	37.497		
4,700.0	4,699.5	4,682.8	4,670.8	8.2	9.9	138.75	322.2	-528.1	651.0	633.5	17.58	37.024		
4,800.0	4,799.5	4,782.4	4,770.2	8.4	10.2	139.35	329.7	-528.1	656.3	638.4	17.94	36.576		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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
4,900.0	4,899.4	4,882.0	4,869.5	8.6	10.4	139.94	337.2	-528.1	661.7	643.4	18.30	36.150	
5,000.0	4,999.4	4,981.7	4,968.9	8.8	10.6	140.52	344.8	-528.1	667.2	648.5	18.66	35.747	
5,100.0	5,099.4	5,081.3	5,068.2	8.9	10.8	141.10	352.3	-528.1	672.7	653.7	19.02	35.363	
5,200.0	5,199.4	5,180.9	5,167.5	9.1	11.0	141.66	359.8	-528.1	678.2	658.9	19.38	34.998	
5,300.0	5,299.4	5,280.5	5,266.9	9.3	11.2	142.21	367.3	-528.1	683.9	664.2	19.74	34.650	
5,400.0	5,399.4	5,380.2	5,366.2	9.5	11.5	142.76	374.8	-528.1	689.6	669.5	20.09	34.319	
5,500.0	5,499.4	5,479.8	5,465.6	9.6	11.7	143.29	382.3	-528.1	695.4	674.9	20.45	34.004	
5,600.0	5,599.4	5,579.4	5,564.9	9.8	11.9	143.82	389.9	-528.1	701.2	680.4	20.80	33.703	
5,700.0	5,699.4	5,679.0	5,664.2	10.0	12.1	144.34	397.4	-528.1	707.1	685.9	21.16	33.416	
5,800.0	5,799.4	5,778.7	5,763.6	10.2	12.3	144.85	404.9	-528.1	713.0	691.5	21.51	33.142	
5,900.0	5,899.4	5,878.3	5,862.9	10.3	12.5	145.35	412.4	-528.1	719.0	697.1	21.87	32.880	
6,000.0	5,999.4	5,977.9	5,962.3	10.5	12.8	145.84	419.9	-528.1	725.0	702.8	22.22	32.629	
6,100.0	6,099.4	6,077.5	6,061.6	10.7	13.0	146.33	427.4	-528.1	731.1	708.6	22.57	32.390	
6,200.0	6,199.4	6,177.1	6,160.9	10.9	13.2	146.80	434.9	-528.1	737.3	714.4	22.93	32.160	
6,300.0	6,299.4	6,276.8	6,260.3	11.1	13.4	147.27	442.5	-528.1	743.5	720.2	23.28	31.941	
6,400.0	6,399.3	6,376.4	6,359.6	11.2	13.6	147.73	450.0	-528.1	749.8	726.1	23.63	31.730	
6,500.0	6,499.3	6,476.0	6,459.0	11.4	13.9	148.19	457.5	-528.1	756.1	732.1	23.98	31.528	
6,600.0	6,599.3	6,575.6	6,558.3	11.6	14.1	148.63	465.0	-528.1	762.4	738.1	24.33	31.335	
6,700.0	6,699.3	6,675.3	6,657.6	11.8	14.3	149.07	472.5	-528.1	768.8	744.1	24.68	31.149	
6,800.0	6,799.3	6,774.9	6,757.0	11.9	14.5	149.50	480.0	-528.1	775.2	750.2	25.03	30.971	
6,900.0	6,899.3	6,874.5	6,856.3	12.1	14.7	149.93	487.5	-528.1	781.7	756.3	25.38	30.799	
6,921.2	6,920.6	6,895.7	6,877.4	12.1	14.8	150.02	489.1	-528.1	783.1	757.6	25.46	30.764	
6,950.0	6,949.3	6,924.4	6,906.0	12.2	14.8	-45.62	491.3	-528.1	784.4	758.9	25.56	30.692	
7,000.0	6,999.1	6,974.4	6,955.9	12.3	14.9	-43.17	495.1	-528.1	784.2	758.5	25.70	30.513	
7,050.0	7,048.4	7,024.1	7,005.5	12.3	15.1	-43.18	498.8	-528.1	780.8	755.0	25.80	30.262	
7,100.0	7,096.7	7,073.3	7,054.5	12.4	15.2	-43.90	502.5	-528.1	774.1	748.3	25.87	29.929	
7,150.0	7,143.8	7,121.5	7,102.6	12.5	15.3	-45.16	506.2	-528.1	764.5	738.6	25.92	29.496	
7,200.0	7,189.2	7,164.5	7,145.9	12.5	15.1	-58.78	452.5	-528.1	747.1	720.4	26.71	27.971	
7,250.0	7,232.6	7,207.9	7,189.3	12.6	14.5	-76.31	356.6	-528.1	715.9	688.9	26.99	26.521	
7,300.0	7,273.7	7,249.0	7,230.4	12.7	14.4	-84.77	326.6	-528.1	683.8	656.7	27.11	25.219	
7,350.0	7,312.1	7,287.4	7,268.8	12.9	14.4	-89.46	320.6	-528.1	653.4	626.1	27.26	23.971	
7,400.0	7,347.6	7,322.9	7,304.3	13.1	14.4	-92.24	324.6	-528.1	625.4	598.0	27.44	22.792	
7,450.0	7,379.9	7,355.2	7,336.6	13.3	14.4	-93.84	333.3	-528.1	600.4	572.7	27.67	21.696	
7,500.0	7,408.8	7,384.1	7,365.5	13.5	14.5	-94.57	344.5	-528.1	578.7	550.7	27.97	20.691	
7,550.0	7,434.0	7,409.3	7,390.7	13.8	14.5	-94.61	356.9	-528.1	560.6	532.3	28.33	19.789	
7,600.0	7,455.3	7,430.6	7,412.0	14.2	14.6	-94.07	370.0	-528.1	546.4	517.6	28.75	19.001	
7,650.0	7,472.7	7,448.0	7,429.4	14.6	14.7	-93.01	383.1	-528.1	536.2	506.9	29.24	18.334	
7,700.0	7,485.8	7,461.1	7,442.5	15.0	14.8	-91.49	396.2	-528.1	530.0	500.2	29.78	17.796	
7,750.0	7,494.7	7,470.0	7,451.4	15.5	14.8	-89.55	409.0	-528.1	527.8	497.4	30.35	17.392	
7,754.1	7,495.3	7,470.6	7,452.0	15.6	14.8	-89.38	410.0	-528.1	527.8	497.4	30.39	17.364 ES	
7,800.0	7,499.3	7,474.6	7,456.0	16.0	14.9	-87.26	421.3	-528.1	529.3	498.4	30.92	17.120	
7,827.7	7,500.0	7,475.3	7,456.7	16.3	14.9	-85.84	427.9	-528.1	531.6	500.4	31.22	17.027	
7,900.0	7,500.0	7,475.3	7,456.7	17.2	15.0	-83.03	442.6	-528.1	542.8	510.8	32.02	16.951 SF	
8,000.0	7,500.0	7,475.3	7,456.7	18.4	15.1	-79.83	457.5	-528.1	570.6	537.4	33.12	17.226	
8,100.0	7,500.0	7,475.3	7,456.7	19.7	15.2	-76.76	469.9	-528.1	611.5	577.3	34.20	17.883	
8,200.0	7,500.0	7,475.3	7,456.7	21.1	15.2	-75.18	475.7	-528.1	663.7	628.3	35.37	18.762	
8,300.0	7,500.0	7,475.3	7,456.7	22.5	15.3	-73.46	481.5	-528.1	725.0	688.5	36.54	19.841	
8,400.0	7,500.0	7,475.3	7,456.7	24.0	15.3	-71.98	486.1	-528.1	793.7	755.9	37.74	21.030	
8,500.0	7,500.0	7,475.3	7,456.7	25.5	15.3	-71.98	486.1	-528.1	868.1	828.9	39.17	22.164	
8,600.0	7,500.0	7,475.3	7,456.7	27.0	15.3	-69.81	492.2	-528.1	946.6	906.4	40.23	23.532	
8,700.0	7,500.0	7,475.3	7,456.7	28.6	15.4	-68.93	494.4	-528.1	1,028.8	987.3	41.51	24.786	
8,800.0	7,500.0	7,475.3	7,456.7	30.2	15.4	-67.33	498.1	-528.1	1,113.8	1,071.2	42.61	26.138	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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)			
8,900.0	7,500.0	7,300.0	7,280.2	31.8	15.4	-67.33	498.1	-528.1	1,200.8	1,156.7	44.09	27.237	
9,000.0	7,500.0	7,300.0	7,280.2	33.4	15.4	-67.33	498.1	-528.1	1,289.6	1,244.1	45.58	28.297	
9,027.7	7,500.0	7,300.0	7,280.2	33.8	15.4	-67.33	498.1	-528.1	1,314.6	1,268.6	45.99	28.584	
9,100.0	7,500.0	7,300.0	7,280.2	35.0	15.4	-67.33	498.1	-528.1	1,380.1	1,333.0	47.08	29.315	
9,127.7	7,500.0	7,300.0	7,280.2	35.5	15.4	-67.33	498.1	-528.1	1,405.3	1,357.9	47.50	29.589	
9,200.0	7,500.0	7,300.0	7,280.2	36.6	15.4	-67.96	498.1	-528.1	1,471.5	1,422.8	48.76	30.177	
9,300.0	7,500.0	7,279.3	7,259.9	38.3	15.4	-67.05	501.8	-528.1	1,563.0	1,513.0	50.00	31.260	
9,400.0	7,500.0	7,275.0	7,255.6	40.0	15.4	-67.60	502.5	-528.1	1,655.0	1,603.4	51.67	32.030	
9,427.7	7,500.0	7,273.9	7,254.5	40.4	15.4	-67.76	502.7	-528.1	1,680.6	1,628.5	52.14	32.233	
9,500.0	7,500.0	7,271.1	7,251.8	41.6	15.4	-67.53	503.1	-528.1	1,747.5	1,694.3	53.18	32.858	
9,600.0	7,500.0	7,250.0	7,230.9	43.3	15.4	-65.84	505.9	-528.1	1,841.0	1,786.9	54.15	34.001	
9,700.0	7,500.0	7,250.0	7,230.9	45.0	15.4	-65.84	505.9	-528.1	1,934.8	1,879.1	55.68	34.747	
9,800.0	7,500.0	7,250.0	7,230.9	46.7	15.4	-65.84	505.9	-528.1	2,029.1	1,971.9	57.22	35.461	
9,900.0	7,500.0	7,250.0	7,230.9	48.4	15.4	-65.84	505.9	-528.1	2,123.9	2,065.2	58.77	36.143	
10,000.0	7,500.0	7,250.0	7,230.9	50.1	15.4	-65.84	505.9	-528.1	2,219.2	2,158.9	60.31	36.794	
10,100.0	7,500.0	7,250.0	7,230.9	51.8	15.4	-65.84	505.9	-528.1	2,314.9	2,253.1	61.87	37.418	
10,200.0	7,500.0	7,250.0	7,230.9	53.5	15.4	-65.84	505.9	-528.1	2,411.0	2,347.6	63.42	38.014	
10,300.0	7,500.0	7,250.0	7,230.9	55.2	15.4	-65.84	505.9	-528.1	2,507.4	2,442.4	64.98	38.585	
10,400.0	7,500.0	7,250.0	7,230.9	56.9	15.4	-65.84	505.9	-528.1	2,604.0	2,537.4	66.55	39.131	
10,500.0	7,500.0	7,250.0	7,230.9	58.6	15.4	-65.84	505.9	-528.1	2,700.9	2,632.7	68.11	39.654	
10,600.0	7,500.0	7,250.0	7,230.9	60.3	15.4	-65.84	505.9	-528.1	2,798.0	2,728.3	69.68	40.156	
10,627.7	7,500.0	7,250.0	7,230.9	60.8	15.4	-65.84	505.9	-528.1	2,824.9	2,754.8	70.11	40.291	
10,700.0	7,500.0	7,250.0	7,230.9	62.0	15.4	-64.52	505.9	-528.1	2,895.3	2,824.7	70.60	41.009	
10,800.0	7,500.0	7,250.0	7,230.9	63.7	15.4	-62.39	505.9	-528.1	2,993.2	2,922.2	71.00	42.161	
10,900.0	7,500.0	7,250.0	7,230.9	65.5	15.4	-59.80	505.9	-528.1	3,091.5	3,020.6	70.94	43.579	
11,000.0	7,500.0	7,250.0	7,230.9	67.2	15.4	-56.61	505.9	-528.1	3,190.2	3,119.9	70.25	45.412	
11,023.0	7,500.0	7,250.0	7,230.9	67.6	15.4	-55.77	505.9	-528.1	3,213.0	3,143.0	69.97	45.917	
11,100.0	7,500.0	7,250.0	7,230.9	68.9	15.4	-55.77	505.9	-528.1	3,289.1	3,218.0	71.07	46.279	
11,200.0	7,500.0	7,250.0	7,230.9	70.6	15.4	-55.77	505.9	-528.1	3,388.0	3,315.5	72.50	46.734	
11,300.0	7,500.0	7,250.0	7,230.9	72.3	15.4	-55.77	505.9	-528.1	3,487.1	3,413.1	73.92	47.171	
11,400.0	7,500.0	7,250.0	7,230.9	74.1	15.4	-55.77	505.9	-528.1	3,586.1	3,510.8	75.35	47.591	
11,500.0	7,500.0	7,250.0	7,230.9	75.8	15.4	-55.77	505.9	-528.1	3,685.3	3,608.5	76.78	47.996	
11,600.0	7,500.0	7,250.0	7,230.9	77.5	15.4	-55.77	505.9	-528.1	3,784.5	3,706.2	78.21	48.385	
11,700.0	7,500.0	7,250.0	7,230.9	79.3	15.4	-55.77	505.9	-528.1	3,883.7	3,804.0	79.65	48.761	
11,800.0	7,500.0	7,228.1	7,209.1	81.0	15.4	-53.67	507.9	-528.1	3,982.5	3,903.2	79.22	50.270	
11,900.0	7,500.0	7,227.2	7,208.2	82.7	15.4	-53.58	507.9	-528.1	4,081.7	4,001.2	80.54	50.679	
12,000.0	7,500.0	7,226.4	7,207.3	84.5	15.4	-53.50	508.0	-528.1	4,181.0	4,099.1	81.86	51.074	
12,100.0	7,500.0	7,225.5	7,206.5	86.2	15.4	-53.42	508.1	-528.1	4,280.3	4,197.1	83.18	51.457	
12,200.0	7,500.0	7,224.7	7,205.7	87.9	15.4	-53.35	508.1	-528.1	4,379.7	4,295.2	84.50	51.827	
12,300.0	7,500.0	7,224.0	7,204.9	89.7	15.4	-53.28	508.2	-528.1	4,479.0	4,393.2	85.83	52.186	
12,400.0	7,500.0	7,223.2	7,204.2	91.4	15.4	-53.21	508.2	-528.1	4,578.5	4,491.3	87.15	52.534	
12,500.0	7,500.0	7,222.5	7,203.5	93.1	15.4	-53.14	508.3	-528.1	4,677.9	4,589.4	88.48	52.871	
12,600.0	7,500.0	7,200.0	7,181.0	94.9	15.4	-51.12	509.2	-528.1	4,777.8	4,690.1	87.67	54.498	
12,700.0	7,500.0	7,200.0	7,181.0	96.6	15.4	-51.12	509.2	-528.1	4,877.2	4,788.2	89.03	54.785	
12,800.0	7,500.0	7,200.0	7,181.0	98.3	15.4	-51.12	509.2	-528.1	4,976.7	4,886.3	90.38	55.063	
12,900.0	7,500.0	7,200.0	7,181.0	100.1	15.4	-51.12	509.2	-528.1	5,076.2	4,984.5	91.74	55.332	
13,000.0	7,500.0	7,200.0	7,181.0	101.8	15.4	-51.12	509.2	-528.1	5,175.7	5,082.6	93.10	55.594	
13,100.0	7,500.0	7,200.0	7,181.0	103.6	15.4	-51.12	509.2	-528.1	5,275.2	5,180.8	94.46	55.848	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.70	0.4	-70.0	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.70	0.4	-70.0	70.0	69.7	0.30	230.404		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.4	-70.0	70.0	69.3	0.65	107.193		
300.0	300.0	300.0	300.0	0.5	0.5	-89.70	0.4	-70.0	70.0	69.0	1.00	69.844 CC		
321.0	321.0	320.9	320.9	0.5	0.5	50.35	0.4	-70.0	70.0	68.9	1.08	65.083		
400.0	400.0	399.2	399.2	0.7	0.7	51.38	1.0	-70.5	70.0	68.6	1.35	51.832		
500.0	500.0	498.3	498.3	0.9	0.9	54.61	3.0	-72.2	70.2	68.5	1.70	41.222 ES		
600.0	599.9	597.2	597.0	1.0	1.0	59.90	6.3	-74.9	71.0	68.9	2.06	34.424		
700.0	699.8	695.8	695.5	1.2	1.2	71.52	10.8	-78.8	74.0	71.6	2.42	30.530		
800.0	799.7	795.4	794.9	1.4	1.4	91.66	16.2	-83.2	79.4	76.7	2.78	28.573		
865.6	865.4	860.9	860.2	1.5	1.6	126.05	19.7	-86.2	83.7	80.7	3.01	27.804		
900.0	899.7	895.1	894.3	1.6	1.6	127.00	21.5	-87.7	86.1	83.0	3.13	27.492		
1,000.0	999.7	994.8	993.8	1.7	1.8	129.46	26.8	-92.2	93.2	89.7	3.48	26.745		
1,100.0	1,099.7	1,094.5	1,093.2	1.9	2.0	131.57	32.1	-96.6	100.3	96.5	3.83	26.180		
1,200.0	1,199.7	1,194.2	1,192.6	2.1	2.3	133.40	37.5	-101.1	107.7	103.5	4.18	25.743		
1,300.0	1,299.7	1,294.3	1,292.5	2.3	2.5	135.37	43.3	-105.0	114.9	110.3	4.53	25.332		
1,400.0	1,399.7	1,394.4	1,392.3	2.4	2.7	137.92	50.4	-107.7	121.8	116.9	4.89	24.921		
1,500.0	1,499.7	1,494.2	1,491.8	2.6	2.9	140.87	58.5	-109.2	128.7	123.5	5.24	24.563		
1,600.0	1,599.7	1,593.7	1,591.0	2.8	3.1	143.62	66.8	-110.4	135.9	130.3	5.59	24.305		
1,700.0	1,699.7	1,693.3	1,690.2	3.0	3.3	146.09	75.1	-111.7	143.4	137.4	5.94	24.129		
1,800.0	1,799.7	1,792.8	1,789.3	3.1	3.5	148.32	83.4	-113.0	151.1	144.8	6.29	24.014		
1,900.0	1,899.7	1,892.4	1,888.5	3.3	3.8	150.32	91.7	-114.3	159.0	152.3	6.64	23.944		
2,000.0	1,999.6	1,991.9	1,987.7	3.5	4.0	152.14	100.0	-115.6	167.1	160.1	6.99	23.907		
2,100.0	2,099.6	2,091.4	2,086.9	3.7	4.2	153.79	108.3	-116.9	175.3	168.0	7.34	23.896		
2,200.0	2,199.6	2,191.0	2,186.1	3.9	4.4	155.28	116.6	-118.2	183.7	176.0	7.68	23.903		
2,300.0	2,299.6	2,290.5	2,285.3	4.0	4.6	156.65	124.9	-119.4	192.1	184.1	8.03	23.925		
2,400.0	2,399.6	2,390.1	2,384.5	4.2	4.9	157.90	133.2	-120.7	200.7	192.3	8.38	23.958		
2,500.0	2,499.6	2,489.6	2,483.6	4.4	5.1	159.05	141.5	-122.0	209.4	200.7	8.73	23.998		
2,600.0	2,599.6	2,589.1	2,582.8	4.6	5.3	160.11	149.8	-123.3	218.1	209.1	9.07	24.044		
2,700.0	2,699.6	2,688.7	2,682.0	4.7	5.5	161.08	158.1	-124.6	226.9	217.5	9.42	24.094		
2,800.0	2,799.6	2,788.2	2,781.2	4.9	5.8	161.98	166.4	-125.9	235.8	226.0	9.77	24.146		
2,900.0	2,899.6	2,887.8	2,880.4	5.1	6.0	162.82	174.7	-127.1	244.7	234.6	10.11	24.201		
3,000.0	2,999.6	2,987.3	2,979.6	5.3	6.2	163.60	183.0	-128.4	253.7	243.3	10.46	24.256		
3,100.0	3,099.6	3,086.8	3,078.7	5.4	6.4	164.32	191.3	-129.7	262.7	251.9	10.81	24.312		
3,200.0	3,199.6	3,186.4	3,177.9	5.6	6.7	165.00	199.6	-131.0	271.8	260.6	11.15	24.368		
3,300.0	3,299.6	3,285.9	3,277.1	5.8	6.9	165.63	207.9	-132.3	280.9	269.4	11.50	24.424		
3,400.0	3,399.5	3,385.4	3,376.3	6.0	7.1	166.22	216.2	-133.6	290.0	278.2	11.85	24.479		
3,500.0	3,499.5	3,485.0	3,475.5	6.1	7.3	166.78	224.5	-134.9	299.2	287.0	12.19	24.533		
3,600.0	3,599.5	3,584.5	3,574.7	6.3	7.6	167.30	232.8	-136.1	308.3	295.8	12.54	24.586		
3,700.0	3,699.5	3,684.1	3,673.8	6.5	7.8	167.80	241.1	-137.4	317.5	304.7	12.89	24.638		
3,800.0	3,799.5	3,783.6	3,773.0	6.7	8.0	168.26	249.4	-138.7	326.8	313.5	13.24	24.690		
3,900.0	3,899.5	3,883.1	3,872.2	6.8	8.2	168.70	257.7	-140.0	336.0	322.4	13.58	24.740		
4,000.0	3,999.5	3,982.7	3,971.4	7.0	8.5	169.12	266.0	-141.3	345.3	331.3	13.93	24.788		
4,100.0	4,099.5	4,082.2	4,070.6	7.2	8.7	169.51	274.3	-142.6	354.6	340.3	14.28	24.836		
4,200.0	4,199.5	4,181.8	4,169.8	7.4	8.9	169.89	282.6	-143.8	363.9	349.2	14.62	24.882		
4,300.0	4,299.5	4,281.3	4,269.0	7.5	9.1	170.25	290.9	-145.1	373.2	358.2	14.97	24.927		
4,400.0	4,399.5	4,380.8	4,368.1	7.7	9.4	170.58	299.2	-146.4	382.5	367.2	15.32	24.971		
4,500.0	4,499.5	4,480.4	4,467.3	7.9	9.6	170.91	307.5	-147.7	391.8	376.2	15.66	25.014		
4,600.0	4,599.5	4,579.9	4,566.5	8.1	9.8	171.21	315.8	-149.0	401.2	385.2	16.01	25.056		
4,700.0	4,699.5	4,679.5	4,665.7	8.2	10.1	171.51	324.1	-150.3	410.5	394.2	16.36	25.096		
4,800.0	4,799.5	4,779.0	4,764.9	8.4	10.3	171.79	332.4	-151.5	419.9	403.2	16.71	25.136		
4,900.0	4,899.4	4,878.5	4,864.1	8.6	10.5	172.05	340.7	-152.8	429.3	412.2	17.05	25.174		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	4,999.4	4,978.1	4,963.2	8.8	10.7	172.31	349.0	-154.1	438.7	421.3	17.40	25.211		
5,100.0	5,099.4	5,077.6	5,062.4	8.9	11.0	172.56	357.3	-155.4	448.1	430.3	17.75	25.247		
5,200.0	5,199.4	5,177.2	5,161.6	9.1	11.2	172.79	365.6	-156.7	457.5	439.4	18.09	25.283		
5,300.0	5,299.4	5,276.7	5,260.8	9.3	11.4	173.02	373.9	-158.0	466.9	448.5	18.44	25.317		
5,400.0	5,399.4	5,376.2	5,360.0	9.5	11.6	173.24	382.2	-159.3	476.3	457.5	18.79	25.350		
5,500.0	5,499.4	5,475.8	5,459.2	9.6	11.9	173.45	390.5	-160.5	485.7	466.6	19.14	25.383		
5,600.0	5,599.4	5,575.3	5,558.4	9.8	12.1	173.65	398.8	-161.8	495.2	475.7	19.48	25.415		
5,700.0	5,699.4	5,674.9	5,657.5	10.0	12.3	173.84	407.1	-163.1	504.6	484.8	19.83	25.445		
5,800.0	5,799.4	5,774.4	5,756.7	10.2	12.5	174.03	415.4	-164.4	514.1	493.9	20.18	25.475		
5,900.0	5,899.4	5,873.9	5,855.9	10.3	12.8	174.21	423.7	-165.7	523.5	503.0	20.53	25.505		
6,000.0	5,999.4	5,973.5	5,955.1	10.5	13.0	174.38	432.0	-167.0	533.0	512.1	20.87	25.533		
6,100.0	6,099.4	6,073.0	6,054.3	10.7	13.2	174.55	440.3	-168.2	542.4	521.2	21.22	25.561		
6,200.0	6,199.4	6,172.6	6,153.5	10.9	13.5	174.71	448.6	-169.5	551.9	530.3	21.57	25.588		
6,300.0	6,299.4	6,272.1	6,252.6	11.1	13.7	174.86	456.9	-170.8	561.3	539.4	21.92	25.614		
6,400.0	6,399.3	6,371.6	6,351.8	11.2	13.9	175.01	465.2	-172.1	570.8	548.6	22.26	25.640		
6,500.0	6,499.3	6,471.2	6,451.0	11.4	14.1	175.16	473.5	-173.4	580.3	557.7	22.61	25.665		
6,600.0	6,599.3	6,570.7	6,550.2	11.6	14.4	175.30	481.8	-174.7	589.8	566.8	22.96	25.689		
6,700.0	6,699.3	6,670.2	6,649.4	11.8	14.6	175.44	490.1	-176.0	599.3	576.0	23.31	25.713		
6,800.0	6,799.3	6,769.8	6,748.6	11.9	14.8	175.57	498.4	-177.2	608.7	585.1	23.65	25.736		
6,900.0	6,899.3	6,869.3	6,847.8	12.1	15.0	175.70	506.7	-178.5	618.2	594.2	24.00	25.759		
6,921.2	6,920.6	7,868.3	7,500.0	12.1	14.0	105.12	-81.1	-187.0	611.0	585.0	25.99	23.513		
6,950.0	6,949.3	7,867.9	7,500.0	12.2	14.0	-98.87	-80.7	-187.0	583.8	557.8	25.99	22.460		
7,000.0	6,999.1	7,863.8	7,500.0	12.3	14.0	-108.10	-76.6	-187.0	537.1	511.1	25.99	20.668		
7,050.0	7,048.4	7,855.3	7,500.0	12.3	13.9	-115.98	-68.1	-187.0	491.5	465.5	25.94	18.948		
7,100.0	7,096.7	7,827.6	7,499.6	12.4	13.8	-118.05	-40.4	-187.0	447.3	421.5	25.86	17.299		
7,150.0	7,143.8	7,787.3	7,496.7	12.5	13.7	-116.43	-0.3	-186.9	404.3	378.6	25.80	15.673		
7,200.0	7,189.2	7,752.7	7,492.0	12.5	13.7	-115.13	34.1	-186.9	362.9	337.2	25.75	14.095		
7,250.0	7,232.6	7,721.0	7,485.8	12.6	13.6	-113.56	65.2	-186.8	323.5	297.8	25.76	12.562		
7,300.0	7,273.7	7,691.1	7,478.4	12.7	13.6	-111.40	94.2	-186.7	287.0	261.1	25.83	11.109		
7,350.0	7,312.1	7,662.3	7,469.9	12.9	13.6	-108.49	121.7	-186.6	254.2	228.2	26.00	9.775		
7,400.0	7,347.6	7,634.2	7,460.3	13.1	13.6	-104.71	148.0	-186.5	226.4	200.2	26.28	8.616		
7,450.0	7,379.9	7,606.8	7,449.6	13.3	13.7	-99.98	173.3	-186.3	205.4	178.7	26.66	7.704		
7,500.0	7,408.8	7,579.7	7,438.0	13.5	13.7	-94.29	197.7	-186.2	192.5	165.4	27.08	7.109		
7,543.6	7,431.0	7,556.4	7,427.0	13.8	13.8	-88.62	218.3	-186.0	188.9	161.5	27.41	6.892		
7,550.0	7,434.0	7,553.0	7,425.3	13.8	13.8	-87.74	221.3	-186.0	189.0	161.6	27.45	6.886 SF		
7,600.0	7,455.3	7,526.4	7,411.7	14.2	13.8	-80.53	244.0	-185.8	194.6	167.0	27.65	7.038		
7,650.0	7,472.7	7,500.0	7,397.1	14.6	13.9	-72.99	266.0	-185.6	207.9	180.4	27.57	7.543		
7,700.0	7,485.8	7,473.9	7,381.7	15.0	14.0	-65.57	287.1	-185.4	226.9	199.7	27.18	8.348		
7,750.0	7,494.7	7,450.0	7,366.7	15.5	14.1	-58.90	305.8	-185.2	249.7	223.1	26.59	9.390		
7,800.0	7,499.3	7,421.9	7,348.2	16.0	14.2	-52.18	326.8	-185.0	274.7	248.9	25.75	10.667		
7,827.7	7,500.0	7,407.6	7,338.3	16.3	14.2	-48.98	337.3	-184.9	289.0	263.7	25.30	11.426		
7,900.0	7,500.0	7,372.5	7,313.1	17.2	14.3	-44.72	361.7	-184.5	329.9	304.9	24.94	13.226		
8,000.0	7,500.0	7,330.6	7,281.2	18.4	14.5	-40.09	388.8	-184.1	394.7	370.1	24.59	16.051		
8,100.0	7,500.0	7,300.0	7,256.7	19.7	14.6	-37.03	407.0	-183.8	467.0	442.5	24.54	19.031		
8,200.0	7,500.0	7,265.4	7,227.7	21.1	14.7	-33.88	426.1	-183.4	544.6	520.2	24.36	22.352		
8,300.0	7,500.0	7,250.0	7,214.6	22.5	14.8	-32.60	434.0	-183.3	626.4	601.7	24.71	25.348		
8,400.0	7,500.0	7,217.7	7,186.2	24.0	14.9	-30.10	449.4	-182.9	711.0	686.4	24.58	28.920		
8,500.0	7,500.0	7,200.0	7,170.3	25.5	14.9	-28.84	457.1	-182.7	798.1	773.2	24.84	32.123		
8,600.0	7,500.0	7,181.8	7,153.7	27.0	15.0	-27.62	464.6	-182.5	887.0	862.0	25.08	35.373		
8,700.0	7,500.0	7,167.0	7,140.0	28.6	15.0	-26.69	470.3	-182.3	977.5	952.1	25.39	38.499		
8,800.0	7,500.0	7,150.0	7,124.1	30.2	15.0	-25.67	476.4	-182.1	1,069.2	1,043.6	25.63	41.714		
8,900.0	7,500.0	7,150.0	7,124.1	31.8	15.0	-25.67	476.4	-182.1	1,161.9	1,135.6	26.32	44.142		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,131.9	7,107.0	33.4	15.1	-24.65	482.3	-181.9	1,255.4	1,228.9	26.51	47.363		
9,027.7	7,500.0	7,129.2	7,104.5	33.8	15.1	-24.50	483.2	-181.8	1,281.4	1,254.8	26.62	48.141		
9,100.0	7,500.0	7,122.5	7,098.1	35.0	15.1	-24.14	485.2	-181.8	1,349.6	1,322.7	26.92	50.136		
9,127.7	7,500.0	7,120.0	7,095.7	35.5	15.1	-24.01	485.9	-181.7	1,375.8	1,348.8	27.04	50.888		
9,200.0	7,500.0	7,100.0	7,076.5	36.6	15.1	-24.90	491.5	-181.5	1,444.6	1,416.6	27.99	51.604		
9,300.0	7,500.0	7,100.0	7,076.5	38.3	15.1	-27.58	491.5	-181.5	1,539.4	1,509.2	30.24	50.904		
9,400.0	7,500.0	7,100.0	7,076.5	40.0	15.1	-30.31	491.5	-181.5	1,634.6	1,602.0	32.67	50.038		
9,427.7	7,500.0	7,100.0	7,076.5	40.4	15.1	-31.08	491.5	-181.5	1,661.1	1,627.7	33.37	49.781		
9,500.0	7,500.0	7,100.0	7,076.5	41.6	15.1	-31.08	491.5	-181.5	1,730.2	1,696.2	33.99	50.902		
9,600.0	7,500.0	7,100.0	7,076.5	43.3	15.1	-31.08	491.5	-181.5	1,826.3	1,791.4	34.86	52.394		
9,700.0	7,500.0	7,100.0	7,076.5	45.0	15.1	-31.08	491.5	-181.5	1,922.7	1,887.0	35.73	53.818		
9,800.0	7,500.0	7,076.4	7,053.6	46.7	15.2	-29.69	497.2	-181.2	2,018.9	1,983.3	35.61	56.701		
9,900.0	7,500.0	7,071.7	7,049.0	48.4	15.2	-29.43	498.2	-181.1	2,115.8	2,079.5	36.25	58.361		
10,000.0	7,500.0	7,050.0	7,027.7	50.1	15.2	-28.26	502.4	-180.9	2,213.2	2,177.0	36.19	61.155		
10,100.0	7,500.0	7,050.0	7,027.7	51.8	15.2	-28.26	502.4	-180.9	2,310.3	2,273.3	37.00	62.441		
10,200.0	7,500.0	7,050.0	7,027.7	53.5	15.2	-28.26	502.4	-180.9	2,407.7	2,369.9	37.81	63.673		
10,300.0	7,500.0	7,050.0	7,027.7	55.2	15.2	-28.26	502.4	-180.9	2,505.3	2,466.7	38.63	64.856		
10,400.0	7,500.0	7,050.0	7,027.7	56.9	15.2	-28.26	502.4	-180.9	2,603.0	2,563.6	39.45	65.991		
10,500.0	7,500.0	7,050.0	7,027.7	58.6	15.2	-28.26	502.4	-180.9	2,701.0	2,660.7	40.26	67.081		
10,600.0	7,500.0	7,050.0	7,027.7	60.3	15.2	-28.26	502.4	-180.9	2,799.1	2,758.0	41.08	68.129		
10,627.7	7,500.0	7,050.0	7,027.7	60.8	15.2	-28.26	502.4	-180.9	2,826.3	2,785.0	41.31	68.412		
10,700.0	7,500.0	7,050.0	7,027.7	62.0	15.2	-24.81	502.4	-180.9	2,897.3	2,858.6	38.67	74.929		
10,800.0	7,500.0	7,050.0	7,027.7	63.7	15.2	-19.55	502.4	-180.9	2,995.8	2,961.4	34.41	87.059		
10,900.0	7,500.0	7,050.0	7,027.7	65.5	15.2	-13.72	502.4	-180.9	3,094.5	3,064.7	29.76	103.977		
11,000.0	7,500.0	7,050.0	7,027.7	67.2	15.2	-7.36	502.4	-180.9	3,193.3	3,167.7	25.56	124.934		
11,023.0	7,500.0	7,050.0	7,027.7	67.6	15.2	-5.84	502.4	-180.9	3,216.1	3,191.3	24.82	129.576		
11,100.0	7,500.0	7,050.0	7,027.7	68.9	15.2	-5.84	502.4	-180.9	3,292.2	3,267.2	25.03	131.531		
11,200.0	7,500.0	7,050.0	7,027.7	70.6	15.2	-5.84	502.4	-180.9	3,391.2	3,365.9	25.30	134.026		
11,300.0	7,500.0	7,050.0	7,027.7	72.3	15.2	-5.84	502.4	-180.9	3,490.3	3,464.7	25.57	136.472		
11,400.0	7,500.0	7,027.9	7,005.9	74.1	15.2	-5.55	505.9	-180.6	3,588.9	3,563.2	25.67	139.797		
11,500.0	7,500.0	7,026.0	7,004.0	75.8	15.2	-5.53	506.1	-180.5	3,687.9	3,662.0	25.92	142.254		
11,600.0	7,500.0	7,024.3	7,002.3	77.5	15.2	-5.50	506.4	-180.5	3,787.0	3,760.8	26.18	144.666		
11,700.0	7,500.0	7,022.6	7,000.6	79.3	15.2	-5.48	506.6	-180.5	3,886.2	3,859.7	26.43	147.035		
11,800.0	7,500.0	7,000.0	6,978.2	81.0	15.2	-5.22	509.0	-180.2	3,985.8	3,959.3	26.52	150.278		
11,900.0	7,500.0	7,000.0	6,978.2	82.7	15.2	-5.22	509.0	-180.2	4,084.9	4,058.2	26.78	152.516		
12,000.0	7,500.0	7,000.0	6,978.2	84.5	15.2	-5.22	509.0	-180.2	4,184.1	4,157.1	27.04	154.713		
12,100.0	7,500.0	7,000.0	6,978.2	86.2	15.2	-5.22	509.0	-180.2	4,283.4	4,256.1	27.30	156.872		
12,200.0	7,500.0	7,000.0	6,978.2	87.9	15.2	-5.22	509.0	-180.2	4,382.6	4,355.1	27.57	158.992		
12,300.0	7,500.0	7,000.0	6,978.2	89.7	15.2	-5.22	509.0	-180.2	4,481.9	4,454.1	27.83	161.075		
12,400.0	7,500.0	7,000.0	6,978.2	91.4	15.2	-5.22	509.0	-180.2	4,581.3	4,553.2	28.08	163.122		
12,500.0	7,500.0	7,000.0	6,978.2	93.1	15.2	-5.22	509.0	-180.2	4,680.6	4,652.3	28.34	165.133		
12,600.0	7,500.0	7,000.0	6,978.2	94.9	15.2	-5.22	509.0	-180.2	4,780.0	4,751.4	28.60	167.110		
12,700.0	7,500.0	7,000.0	6,978.2	96.6	15.2	-5.22	509.0	-180.2	4,879.4	4,850.5	28.86	169.053		
12,800.0	7,500.0	7,000.0	6,978.2	98.3	15.2	-5.22	509.0	-180.2	4,978.8	4,949.7	29.12	170.964		
12,900.0	7,500.0	7,000.0	6,978.2	100.1	15.2	-5.22	509.0	-180.2	5,078.3	5,048.9	29.38	172.843		
13,000.0	7,500.0	7,000.0	6,978.2	101.8	15.2	-5.22	509.0	-180.2	5,177.8	5,148.1	29.64	174.691		
13,100.0	7,500.0	7,000.0	6,978.2	103.6	15.2	-5.22	509.0	-180.2	5,277.3	5,247.4	29.90	176.508		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	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	51.00	0.4	-60.2	59.6	58.3	1.35	44.124		
500.0	500.0	500.3	500.3	0.9	0.9	53.83	1.2	-59.8	57.7	56.0	1.70	33.846		
600.0	599.9	600.4	600.4	1.0	1.0	60.14	3.5	-58.6	54.4	52.4	2.07	26.357		
700.0	699.8	700.2	700.1	1.2	1.2	74.72	7.4	-56.7	51.8	49.4	2.43	21.299		
770.2	769.9	770.2	769.9	1.3	1.3	90.21	11.1	-54.9	51.3	48.6	2.70	19.023 CC		
800.0	799.7	799.9	799.5	1.4	1.4	99.84	12.9	-54.1	51.4	48.6	2.81	18.306 ES		
865.6	865.4	865.2	864.7	1.5	1.5	138.42	17.3	-51.9	52.3	49.3	3.06	17.128		
900.0	899.7	899.3	898.7	1.6	1.6	141.75	19.9	-50.7	53.2	50.0	3.18	16.703		
1,000.0	999.7	998.9	997.9	1.7	1.8	151.04	27.7	-46.9	56.7	53.2	3.56	15.953		
1,100.0	1,099.7	1,098.4	1,097.0	1.9	2.0	159.05	35.5	-43.1	61.6	57.7	3.92	15.707		
1,200.0	1,199.7	1,198.0	1,196.2	2.1	2.3	165.79	43.2	-39.3	67.5	63.2	4.28	15.767		
1,300.0	1,299.7	1,297.5	1,295.4	2.3	2.5	171.39	51.0	-35.5	74.2	69.5	4.63	16.004		
1,400.0	1,399.7	1,397.0	1,394.5	2.4	2.7	176.03	58.8	-31.7	81.4	76.4	4.98	16.338		
1,500.0	1,499.7	1,496.6	1,493.7	2.6	2.9	179.90	66.5	-28.0	89.1	83.8	5.33	16.719		
1,600.0	1,599.7	1,596.1	1,592.8	2.8	3.1	-176.87	74.3	-24.2	97.2	91.5	5.68	17.116		
1,700.0	1,699.7	1,695.6	1,692.0	3.0	3.4	-174.13	82.1	-20.4	105.5	99.5	6.02	17.514		
1,800.0	1,799.7	1,795.2	1,791.2	3.1	3.6	-171.79	89.9	-16.6	114.0	107.6	6.37	17.901		
1,900.0	1,899.7	1,894.7	1,890.3	3.3	3.8	-169.78	97.6	-12.8	122.7	115.9	6.71	18.273		
2,000.0	1,999.6	1,994.3	1,989.5	3.5	4.1	-168.04	105.4	-9.1	131.5	124.4	7.06	18.627		
2,100.0	2,099.6	2,093.8	2,088.6	3.7	4.3	-166.52	113.2	-5.3	140.4	133.0	7.40	18.962		
2,200.0	2,199.6	2,193.3	2,187.8	3.9	4.5	-165.18	121.0	-1.5	149.4	141.6	7.75	19.277		
2,300.0	2,299.6	2,292.9	2,287.0	4.0	4.7	-163.99	128.7	2.3	158.4	150.3	8.09	19.575		
2,400.0	2,399.6	2,392.4	2,386.1	4.2	5.0	-162.94	136.5	6.1	167.5	159.1	8.44	19.854		
2,500.0	2,499.6	2,491.9	2,485.3	4.4	5.2	-161.99	144.3	9.9	176.7	167.9	8.78	20.118		
2,600.0	2,599.6	2,591.5	2,584.5	4.6	5.4	-161.13	152.0	13.6	185.9	176.8	9.13	20.365		
2,700.0	2,699.6	2,691.0	2,683.6	4.7	5.6	-160.36	159.8	17.4	195.2	185.7	9.48	20.598		
2,800.0	2,799.6	2,790.6	2,782.8	4.9	5.9	-159.65	167.6	21.2	204.5	194.7	9.82	20.817		
2,900.0	2,899.6	2,890.1	2,881.9	5.1	6.1	-159.01	175.4	25.0	213.8	203.6	10.17	21.024		
3,000.0	2,999.6	2,989.6	2,981.1	5.3	6.3	-158.42	183.1	28.8	223.1	212.6	10.52	21.220		
3,100.0	3,099.6	3,089.2	3,080.3	5.4	6.6	-157.88	190.9	32.5	232.5	221.6	10.86	21.405		
3,200.0	3,199.6	3,188.7	3,179.4	5.6	6.8	-157.38	198.7	36.3	241.9	230.7	11.21	21.579		
3,300.0	3,299.6	3,288.2	3,278.6	5.8	7.0	-156.92	206.4	40.1	251.3	239.7	11.56	21.745		
3,400.0	3,399.5	3,387.8	3,377.7	6.0	7.3	-156.49	214.2	43.9	260.7	248.8	11.90	21.902		
3,500.0	3,499.5	3,487.3	3,476.9	6.1	7.5	-156.09	222.0	47.7	270.1	257.9	12.25	22.051		
3,600.0	3,599.5	3,586.9	3,576.1	6.3	7.7	-155.72	229.8	51.5	279.6	267.0	12.60	22.192		
3,700.0	3,699.5	3,686.4	3,675.2	6.5	7.9	-155.37	237.5	55.2	289.0	276.1	12.94	22.327		
3,800.0	3,799.5	3,785.9	3,774.4	6.7	8.2	-155.04	245.3	59.0	298.5	285.2	13.29	22.455		
3,900.0	3,899.5	3,885.5	3,873.6	6.8	8.4	-154.74	253.1	62.8	308.0	294.3	13.64	22.578		
4,000.0	3,999.5	3,985.0	3,972.7	7.0	8.6	-154.45	260.8	66.6	317.4	303.4	13.99	22.694		
4,100.0	4,099.5	4,084.5	4,071.9	7.2	8.9	-154.18	268.6	70.4	326.9	312.6	14.33	22.806		
4,200.0	4,199.5	4,184.1	4,171.0	7.4	9.1	-153.92	276.4	74.2	336.4	321.7	14.68	22.912		
4,300.0	4,299.5	4,283.6	4,270.2	7.5	9.3	-153.68	284.2	77.9	345.9	330.9	15.03	23.014		
4,400.0	4,399.5	4,383.2	4,369.4	7.7	9.5	-153.45	291.9	81.7	355.4	340.0	15.38	23.112		
4,500.0	4,499.5	4,482.7	4,468.5	7.9	9.8	-153.24	299.7	85.5	364.9	349.2	15.73	23.206		
4,600.0	4,599.5	4,582.2	4,567.7	8.1	10.0	-153.03	307.5	89.3	374.4	358.4	16.07	23.296		
4,700.0	4,699.5	4,681.8	4,666.8	8.2	10.2	-152.83	315.3	93.1	383.9	367.5	16.42	23.382		
4,800.0	4,799.5	4,781.3	4,766.0	8.4	10.5	-152.65	323.0	96.8	393.5	376.7	16.77	23.465		
4,900.0	4,899.4	4,880.8	4,865.2	8.6	10.7	-152.47	330.8	100.6	403.0	385.9	17.12	23.544		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,999.4	4,980.4	4,964.3	8.8	10.9	-152.30	338.6	104.4	412.5	395.1	17.46	23.621	
5,100.0	5,099.4	5,079.9	5,063.5	8.9	11.2	-152.14	346.3	108.2	422.1	404.2	17.81	23.695	
5,200.0	5,199.4	5,179.5	5,162.7	9.1	11.4	-151.99	354.1	112.0	431.6	413.4	18.16	23.766	
5,300.0	5,299.4	5,279.0	5,261.8	9.3	11.6	-151.84	361.9	115.8	441.1	422.6	18.51	23.835	
5,400.0	5,399.4	5,378.5	5,361.0	9.5	11.8	-151.70	369.7	119.5	450.7	431.8	18.86	23.901	
5,500.0	5,499.4	5,478.1	5,460.1	9.6	12.1	-151.56	377.4	123.3	460.2	441.0	19.20	23.965	
5,600.0	5,599.4	5,577.6	5,559.3	9.8	12.3	-151.43	385.2	127.1	469.8	450.2	19.55	24.027	
5,700.0	5,699.4	5,677.1	5,658.5	10.0	12.5	-151.31	393.0	130.9	479.3	459.4	19.90	24.086	
5,800.0	5,799.4	5,776.7	5,757.6	10.2	12.8	-151.19	400.7	134.7	488.9	468.6	20.25	24.144	
5,900.0	5,899.4	5,876.2	5,856.8	10.3	13.0	-151.07	408.5	138.4	498.4	477.8	20.60	24.200	
6,000.0	5,999.4	5,975.8	5,955.9	10.5	13.2	-150.96	416.3	142.2	508.0	487.0	20.94	24.254	
6,100.0	6,099.4	6,075.3	6,055.1	10.7	13.5	-150.85	424.1	146.0	517.5	496.2	21.29	24.306	
6,200.0	6,199.4	6,174.8	6,154.3	10.9	13.7	-150.75	431.8	149.8	527.1	505.5	21.64	24.357	
6,300.0	6,299.4	6,274.4	6,253.4	11.1	13.9	-150.65	439.6	153.6	536.7	514.7	21.99	24.406	
6,400.0	6,399.3	6,373.9	6,352.6	11.2	14.1	-150.56	447.4	157.4	546.2	523.9	22.34	24.454	
6,500.0	6,499.3	6,473.4	6,451.8	11.4	14.4	-150.46	455.2	161.1	555.8	533.1	22.69	24.500	
6,600.0	6,599.3	6,573.0	6,550.9	11.6	14.6	-150.37	462.9	164.9	565.4	542.3	23.03	24.545	
6,700.0	6,699.3	6,672.5	6,650.1	11.8	14.8	-150.29	470.7	168.7	574.9	551.5	23.38	24.588	
6,800.0	6,799.3	6,772.1	6,749.2	11.9	15.1	-150.20	478.5	172.5	584.5	560.8	23.73	24.631	
6,900.0	6,899.3	6,871.6	6,848.4	12.1	15.3	-150.12	486.2	176.3	594.1	570.0	24.08	24.672	
6,921.2	6,920.6	6,892.7	6,869.5	12.1	15.3	-150.11	487.9	177.1	596.1	571.9	24.15	24.680	
6,950.0	6,949.3	6,921.4	6,898.0	12.2	15.4	14.06	490.1	178.2	598.2	573.9	24.27	24.648	
7,000.0	6,999.1	6,971.4	6,947.8	12.3	15.5	16.72	494.0	180.1	598.5	574.1	24.37	24.555	
7,050.0	7,048.4	7,021.1	6,997.3	12.3	15.6	17.59	497.9	182.0	594.7	570.3	24.36	24.412	
7,100.0	7,096.7	7,070.3	7,046.3	12.4	15.7	18.48	501.7	183.8	586.8	562.5	24.23	24.213	
7,150.0	7,143.8	7,118.4	7,094.3	12.5	15.9	19.59	505.5	185.6	574.9	550.9	24.01	23.944	
7,200.0	7,189.2	7,370.4	7,343.1	12.5	15.9	27.70	481.9	195.1	555.7	531.5	24.18	22.980	
7,250.0	7,232.6	7,586.4	7,531.4	12.6	15.4	52.79	378.9	202.3	515.7	490.4	25.36	20.338	
7,300.0	7,273.7	7,642.0	7,572.5	12.7	15.2	73.37	341.5	203.9	471.3	444.8	26.55	17.753	
7,350.0	7,312.1	7,655.7	7,582.0	12.9	15.2	86.62	331.7	204.3	426.9	399.7	27.21	15.690	
7,400.0	7,347.6	7,653.3	7,580.4	13.1	15.2	94.58	333.4	204.2	383.7	356.1	27.52	13.941	
7,450.0	7,379.9	7,643.1	7,573.3	13.3	15.2	99.05	340.7	203.9	342.4	314.7	27.71	12.356	
7,500.0	7,408.8	7,628.6	7,562.9	13.5	15.2	101.08	350.9	203.5	304.0	276.1	27.92	10.888	
7,550.0	7,434.0	7,611.4	7,550.3	13.8	15.3	101.25	362.5	203.0	269.5	241.2	28.22	9.549	
7,600.0	7,455.3	7,592.5	7,536.1	14.2	15.4	99.84	375.0	202.5	240.2	211.6	28.64	8.388	
7,650.0	7,472.7	7,572.4	7,520.4	14.6	15.4	97.04	387.6	201.9	218.0	188.9	29.17	7.474	
7,700.0	7,485.8	7,551.4	7,503.7	15.0	15.5	92.96	400.3	201.3	204.7	174.9	29.77	6.874	
7,742.2	7,493.6	7,533.2	7,488.8	15.4	15.5	88.61	410.7	200.7	201.0	170.8	30.25	6.647	
7,750.0	7,494.7	7,529.8	7,486.0	15.5	15.6	87.72	412.6	200.6	201.2	170.8	30.32	6.634 SF	
7,800.0	7,499.3	7,507.7	7,467.4	16.0	15.6	81.53	424.6	199.9	207.4	176.7	30.71	6.754	
7,827.7	7,500.0	7,495.2	7,456.7	16.3	15.7	77.80	431.0	199.5	214.6	183.8	30.81	6.964	
7,900.0	7,500.0	7,465.6	7,430.8	17.2	15.7	70.85	445.3	198.5	243.9	212.9	30.96	7.878	
8,000.0	7,500.0	7,432.5	7,401.0	18.4	15.8	63.48	459.7	197.3	304.0	273.0	30.98	9.811	
8,100.0	7,500.0	7,400.0	7,371.0	19.7	15.9	56.85	472.1	196.2	378.1	347.3	30.74	12.299	
8,200.0	7,500.0	7,384.8	7,356.7	21.1	15.9	53.98	477.3	195.7	460.0	428.9	31.14	14.772	
8,300.0	7,500.0	7,367.2	7,340.0	22.5	15.9	50.86	482.9	195.0	546.9	515.5	31.38	17.429	
8,400.0	7,500.0	7,350.0	7,323.6	24.0	16.0	48.01	487.8	194.4	636.8	605.3	31.58	20.164	
8,500.0	7,500.0	7,350.0	7,323.6	25.5	16.0	48.01	487.8	194.4	729.0	696.4	32.69	22.299	
8,600.0	7,500.0	7,329.2	7,303.4	27.0	16.0	44.82	493.1	193.6	822.4	789.8	32.61	25.221	
8,700.0	7,500.0	7,319.8	7,294.4	28.6	16.0	43.49	495.2	193.3	917.1	883.9	33.15	27.667	
8,800.0	7,500.0	7,300.0	7,275.0	30.2	16.0	40.82	499.3	192.5	1,012.8	979.7	33.04	30.650	
8,900.0	7,500.0	7,300.0	7,275.0	31.8	16.0	40.82	499.3	192.5	1,108.7	1,074.7	34.08	32.533	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
9,000.0	7,500.0	7,300.0	7,275.0	33.4	16.0	40.82	499.3	192.5	1,205.4	1,170.2	35.13	34.311		
9,027.7	7,500.0	7,300.0	7,275.0	33.8	16.0	40.82	499.3	192.5	1,232.3	1,196.8	35.42	34.787		
9,100.0	7,500.0	7,300.0	7,275.0	35.0	16.0	40.82	499.3	192.5	1,302.5	1,266.3	36.19	35.992		
9,127.7	7,500.0	7,300.0	7,275.0	35.5	16.0	40.82	499.3	192.5	1,329.5	1,293.0	36.48	36.441		
9,200.0	7,500.0	7,300.0	7,275.0	36.6	16.0	38.27	499.3	192.5	1,400.1	1,364.3	35.86	39.044		
9,300.0	7,500.0	7,300.0	7,275.0	38.3	16.0	34.17	499.3	192.5	1,498.2	1,463.8	34.48	43.455		
9,400.0	7,500.0	7,278.3	7,253.6	40.0	16.0	27.00	503.0	191.7	1,596.2	1,565.2	30.99	51.515		
9,427.7	7,500.0	7,277.2	7,252.5	40.4	16.0	25.46	503.1	191.7	1,623.5	1,593.3	30.24	53.683		
9,500.0	7,500.0	7,274.4	7,249.8	41.6	16.0	25.20	503.5	191.6	1,694.8	1,664.2	30.60	55.389		
9,600.0	7,500.0	7,270.9	7,246.2	43.3	16.0	24.88	504.0	191.4	1,793.5	1,762.4	31.10	57.673		
9,700.0	7,500.0	7,250.0	7,225.5	45.0	16.0	23.10	506.5	190.7	1,892.7	1,862.1	30.59	61.865		
9,800.0	7,500.0	7,250.0	7,225.5	46.7	16.0	23.10	506.5	190.7	1,991.5	1,960.3	31.26	63.703		
9,900.0	7,500.0	7,250.0	7,225.5	48.4	16.0	23.10	506.5	190.7	2,090.4	2,058.5	31.93	65.462		
10,000.0	7,500.0	7,250.0	7,225.5	50.1	16.0	23.10	506.5	190.7	2,189.5	2,156.9	32.61	67.147		
10,100.0	7,500.0	7,250.0	7,225.5	51.8	16.0	23.10	506.5	190.7	2,288.6	2,255.3	33.28	68.762		
10,200.0	7,500.0	7,250.0	7,225.5	53.5	16.0	23.10	506.5	190.7	2,387.8	2,353.8	33.96	70.310		
10,300.0	7,500.0	7,250.0	7,225.5	55.2	16.0	23.10	506.5	190.7	2,487.0	2,452.4	34.64	71.796		
10,400.0	7,500.0	7,250.0	7,225.5	56.9	16.0	23.10	506.5	190.7	2,586.3	2,551.0	35.32	73.222		
10,500.0	7,500.0	7,250.0	7,225.5	58.6	16.0	23.10	506.5	190.7	2,685.7	2,649.7	36.00	74.592		
10,600.0	7,500.0	7,250.0	7,225.5	60.3	16.0	23.10	506.5	190.7	2,785.1	2,748.4	36.69	75.910		
10,627.7	7,500.0	7,250.0	7,225.5	60.8	16.0	23.10	506.5	190.7	2,812.6	2,775.8	36.88	76.266		
10,700.0	7,500.0	7,250.0	7,225.5	62.0	16.0	29.10	506.5	190.7	2,884.5	2,841.4	43.04	67.013		
10,800.0	7,500.0	7,250.0	7,225.5	63.7	16.0	36.58	506.5	190.7	2,983.9	2,932.8	51.05	58.448		
10,900.0	7,500.0	7,250.0	7,225.5	65.5	16.0	43.03	506.5	190.7	3,083.2	3,025.1	58.08	53.086		
11,000.0	7,500.0	7,250.0	7,225.5	67.2	16.0	48.52	506.5	190.7	3,182.4	3,118.3	64.08	49.663		
11,023.0	7,500.0	7,250.0	7,225.5	67.6	16.0	49.66	506.5	190.7	3,205.2	3,139.9	65.33	49.063		
11,100.0	7,500.0	7,250.0	7,225.5	68.9	16.0	49.66	506.5	190.7	3,281.5	3,215.2	66.34	49.464		
11,200.0	7,500.0	7,250.0	7,225.5	70.6	16.0	49.66	506.5	190.7	3,380.7	3,313.0	67.66	49.968		
11,300.0	7,500.0	7,250.0	7,225.5	72.3	16.0	49.66	506.5	190.7	3,479.9	3,411.0	68.98	50.451		
11,400.0	7,500.0	7,250.0	7,225.5	74.1	16.0	49.66	506.5	190.7	3,579.2	3,508.9	70.30	50.917		
11,500.0	7,500.0	7,250.0	7,225.5	75.8	16.0	49.66	506.5	190.7	3,678.5	3,606.9	71.62	51.365		
11,600.0	7,500.0	7,250.0	7,225.5	77.5	16.0	49.66	506.5	190.7	3,777.9	3,704.9	72.94	51.796		
11,700.0	7,500.0	7,250.0	7,225.5	79.3	16.0	49.66	506.5	190.7	3,877.3	3,803.0	74.26	52.212		
11,800.0	7,500.0	7,250.0	7,225.5	81.0	16.0	49.66	506.5	190.7	3,976.7	3,901.1	75.58	52.614		
11,900.0	7,500.0	7,250.0	7,225.5	82.7	16.0	49.66	506.5	190.7	4,076.1	3,999.2	76.91	53.001		
12,000.0	7,500.0	7,250.0	7,225.5	84.5	16.0	49.66	506.5	190.7	4,175.6	4,097.4	78.23	53.375		
12,100.0	7,500.0	7,250.0	7,225.5	86.2	16.0	49.66	506.5	190.7	4,275.1	4,195.5	79.56	53.736		
12,200.0	7,500.0	7,250.0	7,225.5	87.9	16.0	49.66	506.5	190.7	4,374.6	4,293.7	80.88	54.085		
12,300.0	7,500.0	7,250.0	7,225.5	89.7	16.0	49.66	506.5	190.7	4,474.1	4,391.9	82.21	54.423		
12,400.0	7,500.0	7,227.5	7,203.1	91.4	16.0	47.36	508.4	189.8	4,573.2	4,492.3	80.95	56.497		
12,500.0	7,500.0	7,226.8	7,202.5	93.1	16.0	47.29	508.4	189.8	4,672.8	4,590.6	82.15	56.881		
12,600.0	7,500.0	7,226.2	7,201.8	94.9	16.0	47.23	508.5	189.7	4,772.3	4,689.0	83.35	57.254		
12,700.0	7,500.0	7,225.5	7,201.2	96.6	16.0	47.16	508.5	189.7	4,871.9	4,787.3	84.56	57.616		
12,800.0	7,500.0	7,224.9	7,200.6	98.3	16.0	47.10	508.5	189.7	4,971.5	4,885.7	85.76	57.967		
12,900.0	7,500.0	7,224.3	7,200.0	100.1	16.0	47.04	508.6	189.7	5,071.1	4,984.1	86.97	58.308		
13,000.0	7,500.0	7,223.8	7,199.4	101.8	16.0	46.99	508.6	189.7	5,170.7	5,082.6	88.18	58.640		
13,100.0	7,500.0	7,223.2	7,198.9	103.6	16.0	46.93	508.6	189.6	5,270.4	5,181.0	89.39	58.962		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.58	0.4	-50.1	50.1				
100.0	100.0	100.0	100.0	0.2	0.2	-89.58	0.4	-50.1	50.1	49.8	0.30	164.971	
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.4	-50.1	50.1	49.4	0.65	76.751	
300.0	300.0	300.0	300.0	0.5	0.5	-89.58	0.4	-50.1	50.1	49.1	1.00	50.009	
400.0	400.0	400.0	400.0	0.7	0.7	51.20	0.4	-50.1	49.5	48.2	1.35	36.669	
500.0	500.0	500.0	500.0	0.9	0.8	53.65	0.4	-50.1	48.0	46.2	1.70	28.159	
600.0	599.9	600.3	600.3	1.0	1.0	59.07	1.0	-49.5	45.1	43.0	2.06	21.855	
700.0	699.8	700.4	700.3	1.2	1.2	73.05	3.1	-47.9	42.1	39.6	2.42	17.359	
800.0	799.7	800.3	800.2	1.4	1.4	97.96	6.4	-45.1	40.4	37.6	2.79	14.513	
854.4	854.1	854.7	854.4	1.5	1.5	127.49	8.8	-43.1	40.2	37.2	2.99	13.463	CC
865.6	865.4	865.9	865.6	1.5	1.5	136.75	9.4	-42.7	40.2	37.2	3.03	13.283	ES
900.0	899.7	900.2	899.8	1.6	1.6	140.38	11.1	-41.2	40.3	37.2	3.15	12.794	
1,000.0	999.7	999.7	999.1	1.7	1.8	152.17	17.2	-36.3	41.8	38.3	3.53	11.854	
1,100.0	1,099.7	1,099.0	1,097.9	1.9	2.0	164.76	24.5	-30.2	45.5	41.6	3.90	11.668	SF
1,200.0	1,199.7	1,197.9	1,196.2	2.1	2.2	176.60	33.1	-23.1	52.0	47.8	4.27	12.188	
1,300.0	1,299.7	1,297.0	1,294.6	2.3	2.5	-173.79	42.5	-15.4	60.9	56.3	4.62	13.171	
1,400.0	1,399.7	1,396.2	1,393.0	2.4	2.7	-166.75	51.8	-7.7	71.0	66.0	4.97	14.287	
1,500.0	1,499.7	1,495.3	1,491.4	2.6	3.0	-161.51	61.2	0.0	81.9	76.6	5.31	15.415	
1,600.0	1,599.7	1,594.5	1,589.8	2.8	3.2	-157.53	70.5	7.7	93.3	87.7	5.66	16.499	
1,700.0	1,699.7	1,693.7	1,688.2	3.0	3.5	-154.42	79.9	15.4	105.1	99.1	6.00	17.518	
1,800.0	1,799.7	1,792.8	1,786.6	3.1	3.8	-151.94	89.2	23.1	117.2	110.8	6.35	18.464	
1,900.0	1,899.7	1,892.0	1,885.1	3.3	4.0	-149.93	98.5	30.8	129.4	122.7	6.69	19.338	
2,000.0	1,999.6	1,991.1	1,983.5	3.5	4.3	-148.27	107.9	38.5	141.7	134.7	7.03	20.144	
2,100.0	2,099.6	2,090.3	2,081.9	3.7	4.6	-146.87	117.2	46.2	154.1	146.8	7.38	20.887	
2,200.0	2,199.6	2,189.5	2,180.3	3.9	4.8	-145.68	126.6	53.9	166.6	158.9	7.72	21.572	
2,300.0	2,299.6	2,288.6	2,278.7	4.0	5.1	-144.66	135.9	61.6	179.2	171.1	8.07	22.206	
2,400.0	2,399.6	2,387.8	2,377.1	4.2	5.4	-143.77	145.3	69.3	191.8	183.4	8.42	22.793	
2,500.0	2,499.6	2,486.9	2,475.6	4.4	5.6	-142.99	154.6	76.9	204.5	195.7	8.76	23.337	
2,600.0	2,599.6	2,586.1	2,574.0	4.6	5.9	-142.30	164.0	84.6	217.2	208.1	9.11	23.844	
2,700.0	2,699.6	2,685.3	2,672.4	4.7	6.2	-141.69	173.3	92.3	229.9	220.4	9.46	24.315	
2,800.0	2,799.6	2,784.4	2,770.8	4.9	6.4	-141.14	182.6	100.0	242.6	232.8	9.80	24.755	
2,900.0	2,899.6	2,883.6	2,869.2	5.1	6.7	-140.65	192.0	107.7	255.4	245.3	10.15	25.167	
3,000.0	2,999.6	2,982.7	2,967.7	5.3	7.0	-140.20	201.3	115.4	268.2	257.7	10.50	25.553	
3,100.0	3,099.6	3,081.9	3,066.1	5.4	7.2	-139.80	210.7	123.1	281.0	270.1	10.84	25.915	
3,200.0	3,199.6	3,181.0	3,164.5	5.6	7.5	-139.43	220.0	130.8	293.8	282.6	11.19	26.256	
3,300.0	3,299.6	3,280.2	3,262.9	5.8	7.8	-139.09	229.4	138.5	306.6	295.1	11.54	26.577	
3,400.0	3,399.5	3,379.4	3,361.3	6.0	8.1	-138.78	238.7	146.2	319.4	307.5	11.88	26.880	
3,500.0	3,499.5	3,478.5	3,459.7	6.1	8.3	-138.49	248.1	153.9	332.3	320.0	12.23	27.166	
3,600.0	3,599.5	3,577.7	3,558.2	6.3	8.6	-138.22	257.4	161.6	345.1	332.5	12.58	27.437	
3,700.0	3,699.5	3,676.8	3,656.6	6.5	8.9	-137.98	266.8	169.3	358.0	345.0	12.93	27.694	
3,800.0	3,799.5	3,776.0	3,755.0	6.7	9.1	-137.75	276.1	177.0	370.8	357.5	13.27	27.938	
3,900.0	3,899.5	3,875.2	3,853.4	6.8	9.4	-137.53	285.4	184.7	383.7	370.1	13.62	28.169	
4,000.0	3,999.5	3,974.3	3,951.8	7.0	9.7	-137.33	294.8	192.4	396.5	382.6	13.97	28.390	
4,100.0	4,099.5	4,073.5	4,050.2	7.2	10.0	-137.14	304.1	200.1	409.4	395.1	14.32	28.600	
4,200.0	4,199.5	4,172.6	4,148.7	7.4	10.2	-136.96	313.5	207.8	422.3	407.6	14.66	28.800	
4,300.0	4,299.5	4,271.8	4,247.1	7.5	10.5	-136.80	322.8	215.5	435.2	420.2	15.01	28.991	
4,400.0	4,399.5	4,371.0	4,345.5	7.7	10.8	-136.64	332.2	223.2	448.1	432.7	15.36	29.173	
4,500.0	4,499.5	4,470.1	4,443.9	7.9	11.0	-136.49	341.5	230.9	460.9	445.2	15.71	29.348	
4,600.0	4,599.5	4,569.3	4,542.3	8.1	11.3	-136.35	350.9	238.6	473.8	457.8	16.05	29.515	
4,700.0	4,699.5	4,668.4	4,640.8	8.2	11.6	-136.22	360.2	246.3	486.7	470.3	16.40	29.675	
4,800.0	4,799.5	4,767.6	4,739.2	8.4	11.9	-136.10	369.5	254.0	499.6	482.9	16.75	29.829	
4,900.0	4,899.4	4,866.8	4,837.6	8.6	12.1	-135.98	378.9	261.7	512.5	495.4	17.10	29.976	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 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	4,999.4	4,965.9	4,936.0	8.8	12.4	-135.86	388.2	269.4	525.4	508.0	17.44	30.118	
5,100.0	5,099.4	5,065.1	5,034.4	8.9	12.7	-135.75	397.6	277.1	538.3	520.5	17.79	30.254	
5,200.0	5,199.4	5,164.2	5,132.8	9.1	13.0	-135.65	406.9	284.8	551.2	533.1	18.14	30.385	
5,300.0	5,299.4	5,263.4	5,231.3	9.3	13.2	-135.55	416.3	292.5	564.1	545.6	18.49	30.512	
5,400.0	5,399.4	5,362.6	5,329.7	9.5	13.5	-135.46	425.6	300.2	577.0	558.2	18.84	30.633	
5,500.0	5,499.4	5,461.7	5,428.1	9.6	13.8	-135.37	435.0	307.9	589.9	570.7	19.18	30.750	
5,600.0	5,599.4	5,560.9	5,526.5	9.8	14.0	-135.28	444.3	315.6	602.8	583.3	19.53	30.863	
5,700.0	5,699.4	5,660.0	5,624.9	10.0	14.3	-135.20	453.7	323.3	615.7	595.9	19.88	30.973	
5,800.0	5,799.4	5,759.2	5,723.3	10.2	14.6	-135.12	463.0	331.0	628.6	608.4	20.23	31.078	
5,900.0	5,899.4	5,858.4	5,821.8	10.3	14.9	-135.05	472.3	338.7	641.6	621.0	20.58	31.180	
6,000.0	5,999.4	5,957.5	5,920.2	10.5	15.1	-134.97	481.7	346.3	654.5	633.5	20.92	31.279	
6,100.0	6,099.4	6,056.7	6,018.6	10.7	15.4	-134.90	491.0	354.0	667.4	646.1	21.27	31.374	
6,200.0	6,199.4	6,155.8	6,117.0	10.9	15.7	-134.84	500.4	361.7	680.3	658.7	21.62	31.466	
6,300.0	6,299.4	6,255.0	6,215.4	11.1	16.0	-134.77	509.7	369.4	693.2	671.2	21.97	31.556	
6,400.0	6,399.3	6,354.2	6,313.9	11.2	16.2	-134.71	519.1	377.1	706.1	683.8	22.32	31.643	
6,500.0	6,499.3	6,453.3	6,412.3	11.4	16.5	-134.65	528.4	384.8	719.0	696.4	22.66	31.727	
6,600.0	6,599.3	6,552.5	6,510.7	11.6	16.8	-134.59	537.8	392.5	732.0	709.0	23.01	31.808	
6,700.0	6,699.3	6,651.6	6,609.1	11.8	17.0	-134.54	547.1	400.2	744.9	721.5	23.36	31.887	
6,800.0	6,799.3	6,750.8	6,707.5	11.9	17.3	-134.48	556.4	407.9	757.8	734.1	23.71	31.964	
6,900.0	6,899.3	7,956.4	7,500.0	12.1	16.7	-77.63	-80.9	469.9	758.5	732.4	26.12	29.038	
6,921.2	6,920.6	7,956.6	7,500.0	12.1	16.7	-77.60	-81.1	469.9	741.7	715.6	26.16	28.356	
6,950.0	6,949.3	7,956.2	7,500.0	12.2	16.7	90.05	-80.7	469.9	719.5	693.3	26.14	27.522	
7,000.0	6,999.1	7,952.1	7,500.0	12.3	16.7	97.65	-76.6	469.9	682.0	655.9	26.14	26.089	
7,050.0	7,048.4	7,943.6	7,500.0	12.3	16.6	102.00	-68.1	469.9	646.7	620.6	26.16	24.719	
7,100.0	7,096.7	7,930.9	7,500.0	12.4	16.6	104.95	-55.4	469.9	614.0	587.9	26.18	23.456	
7,150.0	7,143.8	7,914.1	7,500.0	12.5	16.6	106.78	-38.6	469.9	584.4	558.2	26.17	22.328	
7,200.0	7,189.2	7,893.1	7,500.0	12.5	16.5	107.65	-17.6	469.9	558.1	531.9	26.16	21.334	
7,250.0	7,232.6	7,862.5	7,499.9	12.6	16.5	107.13	13.0	469.9	535.4	509.2	26.20	20.435	
7,300.0	7,273.7	7,811.8	7,496.7	12.7	16.4	104.25	63.6	469.6	515.5	489.3	26.28	19.615	
7,350.0	7,312.1	7,767.2	7,490.2	12.9	16.4	101.56	107.7	469.1	498.5	472.1	26.46	18.844	
7,400.0	7,347.6	7,726.8	7,481.4	13.1	16.4	98.91	147.1	468.4	484.7	458.0	26.68	18.168	
7,450.0	7,379.9	7,689.3	7,470.7	13.3	16.4	96.19	183.0	467.6	474.2	447.2	26.95	17.592	
7,500.0	7,408.8	7,653.9	7,458.5	13.5	16.5	93.35	216.2	466.7	467.1	439.9	27.28	17.123	
7,550.0	7,434.0	7,620.2	7,445.1	13.8	16.6	90.36	247.1	465.6	463.5	435.8	27.65	16.760	
7,580.7	7,447.6	7,600.1	7,436.2	14.1	16.6	88.45	265.1	464.9	462.9	435.0	27.90	16.593	
7,600.0	7,455.3	7,587.7	7,430.4	14.2	16.6	87.22	276.1	464.5	463.1	435.1	28.05	16.510	
7,650.0	7,472.7	7,556.2	7,414.6	14.6	16.7	83.96	303.4	463.2	465.8	437.3	28.46	16.366	
7,700.0	7,485.8	7,525.4	7,397.7	15.0	16.8	80.61	329.1	461.9	471.2	442.3	28.87	16.319	
7,750.0	7,494.7	7,495.3	7,380.0	15.5	16.9	77.21	353.3	460.5	478.9	449.6	29.27	16.362	
7,800.0	7,499.3	7,465.7	7,361.3	16.0	17.0	73.80	376.2	459.1	488.5	458.9	29.65	16.476	
7,827.7	7,500.0	7,450.0	7,350.9	16.3	17.1	71.97	388.0	458.2	494.5	464.7	29.86	16.565	
7,900.0	7,500.0	7,410.0	7,323.0	17.2	17.2	68.81	416.6	456.1	513.6	483.2	30.40	16.896	
8,000.0	7,500.0	7,363.5	7,288.2	18.4	17.3	65.00	447.3	453.3	549.2	518.1	31.11	17.656	
8,100.0	7,500.0	7,324.7	7,257.3	19.7	17.5	61.78	470.6	450.9	595.1	563.3	31.79	18.717	
8,200.0	7,500.0	7,300.0	7,236.9	21.1	17.5	59.73	484.4	449.3	650.1	617.5	32.62	19.932	
8,300.0	7,500.0	7,264.6	7,206.6	22.5	17.6	56.83	502.6	447.0	712.6	679.4	33.19	21.468	
8,400.0	7,500.0	7,250.0	7,193.8	24.0	17.7	55.64	509.5	446.0	781.4	747.3	34.12	22.905	
8,500.0	7,500.0	7,220.9	7,167.8	25.5	17.8	53.32	522.3	443.9	855.1	820.4	34.68	24.655	
8,600.0	7,500.0	7,200.0	7,148.7	27.0	17.8	51.70	530.7	442.4	932.9	897.6	35.38	26.366	
8,700.0	7,500.0	7,200.0	7,148.7	28.6	17.8	51.70	530.7	442.4	1,014.2	977.6	36.60	27.708	
8,800.0	7,500.0	7,174.5	7,125.0	30.2	17.8	49.76	540.0	440.6	1,097.7	1,060.6	37.11	29.581	
8,900.0	7,500.0	7,150.0	7,101.9	31.8	17.9	47.95	547.9	438.8	1,183.8	1,146.2	37.59	31.497	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,150.0	7,101.9	33.4	17.9	47.95	547.9	438.8	1,271.3	1,232.5	38.78	32.782		
9,027.7	7,500.0	7,150.0	7,101.9	33.8	17.9	47.95	547.9	438.8	1,295.9	1,256.8	39.11	33.131		
9,100.0	7,500.0	7,150.0	7,101.9	35.0	17.9	47.95	547.9	438.8	1,360.5	1,320.5	39.99	34.025		
9,127.7	7,500.0	7,150.0	7,101.9	35.5	17.9	47.95	547.9	438.8	1,385.5	1,345.2	40.32	34.362		
9,200.0	7,500.0	7,150.0	7,101.9	36.6	17.9	46.88	547.9	438.8	1,451.2	1,410.6	40.63	35.719		
9,300.0	7,500.0	7,125.8	7,078.8	38.3	17.9	43.49	554.8	437.0	1,542.9	1,502.9	39.98	38.590		
9,400.0	7,500.0	7,118.7	7,071.9	40.0	17.9	41.08	556.6	436.4	1,636.2	1,596.5	39.69	41.225		
9,427.7	7,500.0	7,100.0	7,053.8	40.4	17.9	39.25	561.0	435.0	1,662.5	1,623.6	38.90	42.738		
9,500.0	7,500.0	7,100.0	7,053.8	41.6	17.9	39.25	561.0	435.0	1,730.5	1,690.8	39.66	43.631		
9,600.0	7,500.0	7,100.0	7,053.8	43.3	17.9	39.25	561.0	435.0	1,825.1	1,784.4	40.72	44.821		
9,700.0	7,500.0	7,100.0	7,053.8	45.0	17.9	39.25	561.0	435.0	1,920.2	1,878.5	41.78	45.959		
9,800.0	7,500.0	7,100.0	7,053.8	46.7	17.9	39.25	561.0	435.0	2,015.9	1,973.0	42.85	47.047		
9,900.0	7,500.0	7,100.0	7,053.8	48.4	17.9	39.25	561.0	435.0	2,111.9	2,068.0	43.92	48.087		
10,000.0	7,500.0	7,100.0	7,053.8	50.1	17.9	39.25	561.0	435.0	2,208.2	2,163.3	44.99	49.081		
10,100.0	7,500.0	7,100.0	7,053.8	51.8	17.9	39.25	561.0	435.0	2,304.9	2,258.9	46.07	50.033		
10,200.0	7,500.0	7,078.4	7,032.7	53.5	17.9	37.86	565.3	433.4	2,401.4	2,355.3	46.06	52.135		
10,300.0	7,500.0	7,074.8	7,029.2	55.2	17.9	37.64	566.0	433.1	2,498.4	2,451.5	46.93	53.237		
10,400.0	7,500.0	7,071.5	7,026.0	56.9	17.9	37.43	566.5	432.8	2,595.6	2,547.8	47.80	54.299		
10,500.0	7,500.0	7,050.0	7,004.8	58.6	17.9	36.12	569.8	431.2	2,693.4	2,645.7	47.71	56.450		
10,600.0	7,500.0	7,050.0	7,004.8	60.3	17.9	36.12	569.8	431.2	2,790.9	2,742.1	48.73	57.274		
10,627.7	7,500.0	7,050.0	7,004.8	60.8	17.9	36.12	569.8	431.2	2,817.9	2,768.9	49.01	57.497		
10,700.0	7,500.0	7,050.0	7,004.8	62.0	17.9	38.68	569.8	431.2	2,888.4	2,836.3	52.11	55.433		
10,800.0	7,500.0	7,050.0	7,004.8	63.7	17.9	42.04	569.8	431.2	2,986.0	2,929.7	56.27	53.068		
10,900.0	7,500.0	7,050.0	7,004.8	65.5	17.9	45.17	569.8	431.2	3,083.4	3,023.1	60.25	51.178		
11,000.0	7,500.0	7,050.0	7,004.8	67.2	17.9	48.07	569.8	431.2	3,180.7	3,116.7	64.03	49.672		
11,023.0	7,500.0	7,050.0	7,004.8	67.6	17.9	48.70	569.8	431.2	3,203.1	3,138.2	64.88	49.371		
11,100.0	7,500.0	7,050.0	7,004.8	68.9	17.9	48.70	569.8	431.2	3,278.0	3,212.1	65.88	49.759		
11,200.0	7,500.0	7,050.0	7,004.8	70.6	17.9	48.70	569.8	431.2	3,375.4	3,308.2	67.17	50.248		
11,300.0	7,500.0	7,050.0	7,004.8	72.3	17.9	48.70	569.8	431.2	3,473.0	3,404.5	68.47	50.719		
11,400.0	7,500.0	7,050.0	7,004.8	74.1	17.9	48.70	569.8	431.2	3,570.7	3,500.9	69.77	51.174		
11,500.0	7,500.0	7,050.0	7,004.8	75.8	17.9	48.70	569.8	431.2	3,668.5	3,597.4	71.08	51.613		
11,600.0	7,500.0	7,050.0	7,004.8	77.5	17.9	48.70	569.8	431.2	3,766.4	3,694.1	72.38	52.038		
11,700.0	7,500.0	7,050.0	7,004.8	79.3	17.9	48.70	569.8	431.2	3,864.5	3,790.8	73.68	52.448		
11,800.0	7,500.0	7,050.0	7,004.8	81.0	17.9	48.70	569.8	431.2	3,962.6	3,887.6	74.99	52.844		
11,900.0	7,500.0	7,050.0	7,004.8	82.7	17.9	48.70	569.8	431.2	4,060.9	3,984.6	76.29	53.228		
12,000.0	7,500.0	7,050.0	7,004.8	84.5	17.9	48.70	569.8	431.2	4,159.2	4,081.6	77.60	53.599		
12,100.0	7,500.0	7,050.0	7,004.8	86.2	17.9	48.70	569.8	431.2	4,257.6	4,178.7	78.91	53.958		
12,200.0	7,500.0	7,050.0	7,004.8	87.9	17.9	48.70	569.8	431.2	4,356.0	4,275.8	80.21	54.306		
12,300.0	7,500.0	7,050.0	7,004.8	89.7	17.9	48.70	569.8	431.2	4,454.6	4,373.1	81.52	54.644		
12,400.0	7,500.0	7,050.0	7,004.8	91.4	17.9	48.70	569.8	431.2	4,553.2	4,470.4	82.83	54.971		
12,500.0	7,500.0	7,050.0	7,004.8	93.1	17.9	48.70	569.8	431.2	4,651.8	4,567.7	84.14	55.288		
12,600.0	7,500.0	7,050.0	7,004.8	94.9	17.9	48.70	569.8	431.2	4,750.6	4,665.1	85.45	55.596		
12,700.0	7,500.0	7,050.0	7,004.8	96.6	17.9	48.70	569.8	431.2	4,849.3	4,762.6	86.76	55.895		
12,800.0	7,500.0	7,050.0	7,004.8	98.3	17.9	48.70	569.8	431.2	4,948.2	4,860.1	88.07	56.185		
12,900.0	7,500.0	7,050.0	7,004.8	100.1	17.9	48.70	569.8	431.2	5,047.0	4,957.6	89.38	56.467		
13,000.0	7,500.0	7,026.6	6,981.6	101.8	17.9	47.31	572.4	429.4	5,145.4	5,056.5	88.94	57.853		
13,100.0	7,500.0	7,025.7	6,980.7	103.6	17.9	47.26	572.5	429.3	5,244.3	5,154.2	90.15	58.170		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-40.0	40.0	39.7	0.30	131.789		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-40.0	40.0	39.4	0.65	61.314		
300.0	300.0	300.0	300.0	0.5	0.5	-90.01	0.0	-40.0	40.0	39.0	1.00	39.950		
400.0	400.0	400.0	400.0	0.7	0.7	50.97	0.0	-40.0	39.5	38.1	1.35	29.208		
500.0	500.0	500.0	500.0	0.9	0.8	54.06	0.0	-40.0	37.9	36.2	1.70	22.241		
600.0	599.9	599.9	599.9	1.0	1.0	59.79	0.0	-40.0	35.5	33.4	2.06	17.223		
700.0	699.8	699.8	699.8	1.2	1.2	72.02	0.0	-40.0	33.7	31.2	2.42	13.915		
793.3	793.1	793.1	793.1	1.4	1.4	90.00	0.0	-40.0	33.2	30.4	2.75	12.067 CC		
800.0	799.7	799.7	799.7	1.4	1.4	91.98	0.0	-40.0	33.2	30.4	2.77	11.965		
865.6	865.4	865.4	865.4	1.5	1.5	125.79	0.0	-40.0	33.4	30.4	3.00	11.134		
900.0	899.7	899.7	899.7	1.6	1.5	126.34	0.0	-40.0	33.7	30.5	3.12	10.781		
1,000.0	999.7	999.7	999.7	1.7	1.7	127.90	0.0	-40.0	34.4	30.9	3.47	9.897		
1,100.0	1,099.7	1,100.0	1,099.9	1.9	1.9	130.70	0.5	-39.3	34.7	30.9	3.82	9.087		
1,200.0	1,199.7	1,200.1	1,200.1	2.1	2.1	136.14	2.2	-37.3	34.6	30.4	4.17	8.290		
1,292.8	1,292.5	1,292.9	1,292.8	2.3	2.2	143.72	4.7	-34.2	34.4	29.9	4.50	7.650		
1,300.0	1,299.7	1,300.1	1,300.0	2.3	2.3	144.41	4.9	-33.9	34.4	29.9	4.52	7.608 ES		
1,400.0	1,399.7	1,400.0	1,399.6	2.4	2.4	155.42	8.8	-29.2	35.0	30.1	4.88	7.164		
1,500.0	1,499.7	1,499.5	1,498.9	2.6	2.6	168.32	13.7	-23.1	37.1	31.9	5.24	7.084 SF		
1,600.0	1,599.7	1,598.8	1,597.7	2.8	2.8	-178.57	19.7	-15.7	41.7	36.1	5.60	7.443		
1,700.0	1,699.7	1,697.6	1,695.9	3.0	3.1	-166.88	26.7	-7.0	49.1	43.1	5.96	8.233		
1,800.0	1,799.7	1,796.1	1,793.5	3.1	3.3	-157.39	34.7	2.9	59.2	52.9	6.31	9.377		
1,900.0	1,899.7	1,894.0	1,890.4	3.3	3.6	-150.02	43.8	14.1	71.9	65.2	6.66	10.789		
2,000.0	1,999.6	1,992.5	1,987.7	3.5	3.8	-144.52	53.6	26.2	86.4	79.3	7.01	12.319		
2,100.0	2,099.6	2,091.2	2,085.1	3.7	4.1	-140.61	63.4	38.3	101.4	94.0	7.36	13.783		
2,200.0	2,199.6	2,189.8	2,182.5	3.9	4.4	-137.72	73.2	50.4	116.8	109.1	7.70	15.160		
2,300.0	2,299.6	2,288.5	2,279.9	4.0	4.7	-135.50	83.0	62.5	132.4	124.3	8.05	16.447		
2,400.0	2,399.6	2,387.2	2,377.3	4.2	5.0	-133.75	92.8	74.6	148.2	139.8	8.40	17.645		
2,500.0	2,499.6	2,485.8	2,474.8	4.4	5.3	-132.33	102.6	86.7	164.0	155.3	8.74	18.761		
2,600.0	2,599.6	2,584.5	2,572.2	4.6	5.6	-131.17	112.4	98.8	180.0	170.9	9.09	19.800		
2,700.0	2,699.6	2,683.1	2,669.6	4.7	5.9	-130.20	122.1	110.9	196.0	186.6	9.44	20.769		
2,800.0	2,799.6	2,781.8	2,767.0	4.9	6.2	-129.37	131.9	123.0	212.0	202.3	9.78	21.674		
2,900.0	2,899.6	2,880.5	2,864.5	5.1	6.5	-128.66	141.7	135.2	228.1	218.0	10.13	22.521		
3,000.0	2,999.6	2,979.1	2,961.9	5.3	6.8	-128.04	151.5	147.3	244.3	233.8	10.48	23.314		
3,100.0	3,099.6	3,077.8	3,059.3	5.4	7.1	-127.50	161.3	159.4	260.4	249.6	10.82	24.059		
3,200.0	3,199.6	3,176.4	3,156.7	5.6	7.4	-127.02	171.1	171.5	276.6	265.4	11.17	24.759		
3,300.0	3,299.6	3,275.1	3,254.1	5.8	7.7	-126.60	180.9	183.6	292.8	281.3	11.52	25.418		
3,400.0	3,399.5	3,373.7	3,351.6	6.0	8.0	-126.22	190.7	195.7	309.0	297.1	11.87	26.040		
3,500.0	3,499.5	3,472.4	3,449.0	6.1	8.3	-125.88	200.5	207.8	325.2	313.0	12.21	26.627		
3,600.0	3,599.5	3,571.1	3,546.4	6.3	8.6	-125.57	210.3	219.9	341.4	328.8	12.56	27.182		
3,700.0	3,699.5	3,669.7	3,643.8	6.5	9.0	-125.29	220.1	232.0	357.6	344.7	12.91	27.709		
3,800.0	3,799.5	3,768.4	3,741.3	6.7	9.3	-125.03	229.9	244.1	373.9	360.6	13.25	28.208		
3,900.0	3,899.5	3,867.0	3,838.7	6.8	9.6	-124.79	239.7	256.3	390.1	376.5	13.60	28.682		
4,000.0	3,999.5	3,965.7	3,936.1	7.0	9.9	-124.58	249.5	268.4	406.4	392.4	13.95	29.133		
4,100.0	4,099.5	4,064.4	4,033.5	7.2	10.2	-124.38	259.3	280.5	422.6	408.3	14.30	29.563		
4,200.0	4,199.5	4,163.0	4,130.9	7.4	10.5	-124.19	269.1	292.6	438.9	424.3	14.64	29.972		
4,300.0	4,299.5	4,261.7	4,228.4	7.5	10.9	-124.02	278.9	304.7	455.2	440.2	14.99	30.363		
4,400.0	4,399.5	4,360.3	4,325.8	7.7	11.2	-123.86	288.7	316.8	471.4	456.1	15.34	30.736		
4,500.0	4,499.5	4,459.0	4,423.2	7.9	11.5	-123.71	298.5	328.9	487.7	472.0	15.69	31.093		
4,600.0	4,599.5	4,557.7	4,520.6	8.1	11.8	-123.57	308.3	341.0	504.0	487.9	16.03	31.435		
4,700.0	4,699.5	4,656.3	4,618.0	8.2	12.1	-123.44	318.1	353.1	520.3	503.9	16.38	31.762		
4,800.0	4,799.5	4,755.0	4,715.5	8.4	12.5	-123.32	327.9	365.2	536.5	519.8	16.73	32.076		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,900.0	4,899.4	4,853.6	4,812.9	8.6	12.8	-123.20	337.7	377.4	552.8	535.7	17.07	32.377	
5,000.0	4,999.4	4,952.3	4,910.3	8.8	13.1	-123.09	347.5	389.5	569.1	551.7	17.42	32.666	
5,100.0	5,099.4	5,051.0	5,007.7	8.9	13.4	-122.99	357.3	401.6	585.4	567.6	17.77	32.944	
5,200.0	5,199.4	5,149.6	5,105.2	9.1	13.7	-122.89	367.1	413.7	601.7	583.6	18.12	33.211	
5,300.0	5,299.4	5,248.3	5,202.6	9.3	14.0	-122.80	376.9	425.8	618.0	599.5	18.46	33.469	
5,400.0	5,399.4	5,346.9	5,300.0	9.5	14.4	-122.71	386.7	437.9	634.3	615.4	18.81	33.717	
5,500.0	5,499.4	5,445.6	5,397.4	9.6	14.7	-122.63	396.5	450.0	650.6	631.4	19.16	33.956	
5,600.0	5,599.4	5,544.3	5,494.8	9.8	15.0	-122.55	406.3	462.1	666.8	647.3	19.51	34.187	
5,700.0	5,699.4	5,642.9	5,592.3	10.0	15.3	-122.47	416.1	474.2	683.1	663.3	19.85	34.409	
5,800.0	5,799.4	5,741.6	5,689.7	10.2	15.7	-122.40	425.9	486.3	699.4	679.2	20.20	34.624	
5,900.0	5,899.4	5,840.2	5,787.1	10.3	16.0	-122.33	435.7	498.5	715.7	695.2	20.55	34.832	
6,000.0	5,999.4	5,938.9	5,884.5	10.5	16.3	-122.26	445.5	510.6	732.0	711.1	20.90	35.033	
6,100.0	6,099.4	6,037.6	5,982.0	10.7	16.6	-122.20	455.3	522.7	748.3	727.1	21.24	35.228	
6,200.0	6,199.4	6,136.2	6,079.4	10.9	16.9	-122.14	465.1	534.8	764.6	743.0	21.59	35.416	
6,300.0	6,299.4	6,234.9	6,176.8	11.1	17.3	-122.08	474.9	546.9	780.9	759.0	21.94	35.598	
6,400.0	6,399.3	6,333.5	6,274.2	11.2	17.6	-122.03	484.7	559.0	797.2	775.0	22.29	35.775	
6,500.0	6,499.3	6,432.2	6,371.6	11.4	17.9	-121.98	494.5	571.1	813.5	790.9	22.63	35.946	
6,600.0	6,599.3	6,530.9	6,469.1	11.6	18.2	-121.93	504.3	583.2	829.8	806.9	22.98	36.112	
6,700.0	6,699.3	6,629.5	6,566.5	11.8	18.5	-121.88	514.1	595.3	846.2	822.8	23.33	36.273	
6,800.0	6,799.3	6,728.2	6,663.9	11.9	18.9	-121.83	523.9	607.4	862.5	838.8	23.67	36.429	
6,900.0	6,899.3	6,826.8	6,761.3	12.1	19.2	-121.78	533.7	619.6	878.8	854.7	24.02	36.581	
6,921.2	6,920.6	6,847.8	6,782.0	12.1	19.3	-121.77	535.8	622.1	882.2	858.1	24.10	36.613	
6,950.0	6,949.3	6,876.2	6,810.1	12.2	19.3	42.15	538.6	625.6	886.4	862.2	24.23	36.585	
7,000.0	6,999.1	6,925.8	6,859.1	12.3	19.5	44.53	543.6	631.7	891.3	866.9	24.39	36.543	
7,050.0	7,048.4	6,975.3	6,907.9	12.3	19.7	45.28	548.5	637.8	893.2	868.8	24.47	36.500	
7,100.0	7,096.7	7,024.3	6,956.3	12.4	19.8	46.16	553.3	643.8	892.2	867.7	24.49	36.436	
7,150.0	7,143.8	7,072.4	7,003.8	12.5	20.0	47.36	558.1	649.7	888.3	863.8	24.47	36.308	
7,200.0	7,189.2	7,119.3	7,050.1	12.5	20.1	48.91	562.8	655.5	881.8	857.3	24.45	36.062	
7,250.0	7,232.6	7,164.6	7,094.8	12.6	20.3	50.83	567.3	661.0	872.7	848.2	24.49	35.632	
7,300.0	7,273.7	7,309.7	7,238.4	12.7	20.6	57.24	569.3	679.7	860.5	835.4	25.14	34.227	
7,350.0	7,312.1	7,469.0	7,390.7	12.9	20.7	68.14	530.6	702.4	840.6	814.3	26.39	31.853	
7,400.0	7,347.6	7,533.0	7,447.7	13.1	20.6	74.99	503.3	711.8	818.9	791.6	27.25	30.050	
7,450.0	7,379.9	7,558.2	7,469.3	13.3	20.6	79.19	490.8	715.6	797.9	770.0	27.89	28.612	
7,500.0	7,408.8	7,565.2	7,475.2	13.5	20.6	81.80	487.2	716.6	778.6	750.2	28.42	27.398	
7,550.0	7,434.0	7,562.2	7,472.8	13.8	20.6	83.38	488.7	716.1	761.6	732.7	28.91	26.339	
7,600.0	7,455.3	7,553.5	7,465.3	14.2	20.6	84.21	493.2	714.9	747.0	717.6	29.41	25.402	
7,650.0	7,472.7	7,540.9	7,454.6	14.6	20.6	84.46	499.5	713.0	735.0	705.1	29.91	24.572	
7,700.0	7,485.8	7,525.8	7,441.5	15.0	20.6	84.24	506.7	710.8	725.7	695.2	30.45	23.834	
7,750.0	7,494.7	7,508.9	7,426.7	15.5	20.6	83.63	514.3	708.3	718.9	687.9	31.01	23.181	
7,800.0	7,499.3	7,490.7	7,410.4	16.0	20.7	82.67	522.0	705.6	714.8	683.2	31.61	22.610	
7,827.7	7,500.0	7,480.2	7,400.9	16.3	20.7	82.01	526.3	704.1	713.6	681.6	31.96	22.327	
7,853.7	7,500.0	7,470.6	7,392.1	16.6	20.7	81.30	530.0	702.7	713.2	680.9	32.24	22.117	
7,900.0	7,500.0	7,455.1	7,377.9	17.2	20.7	80.15	535.6	700.4	714.5	681.7	32.74	21.819	
8,000.0	7,500.0	7,427.9	7,352.6	18.4	20.7	78.09	544.6	696.5	726.4	692.5	33.86	21.452	
8,100.0	7,500.0	7,400.0	7,326.1	19.7	20.7	75.96	552.6	692.4	750.6	715.6	34.99	21.451	
8,200.0	7,500.0	7,390.1	7,316.6	21.1	20.7	75.19	555.1	691.0	786.1	749.8	36.25	21.687	
8,300.0	7,500.0	7,376.4	7,303.5	22.5	20.7	74.14	558.3	689.0	831.7	794.2	37.50	22.177	
8,400.0	7,500.0	7,365.1	7,292.5	24.0	20.7	73.27	560.7	687.4	886.0	847.2	38.80	22.834	
8,500.0	7,500.0	7,350.0	7,277.9	25.5	20.7	72.11	563.6	685.3	947.6	907.6	40.07	23.648	
8,600.0	7,500.0	7,350.0	7,277.9	27.0	20.7	72.11	563.6	685.3	1,015.1	973.6	41.53	24.442	
8,700.0	7,500.0	7,350.0	7,277.9	28.6	20.7	72.11	563.6	685.3	1,087.7	1,044.6	43.02	25.284	
8,800.0	7,500.0	7,334.3	7,262.5	30.2	20.6	70.91	566.2	683.1	1,164.0	1,119.7	44.28	26.284	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,500.0	7,328.9	7,257.3	31.8	20.6	70.50	567.0	682.4	1,243.7	1,198.0	45.71	27.210		
9,000.0	7,500.0	7,324.2	7,252.6	33.4	20.6	70.13	567.6	681.7	1,326.1	1,278.9	47.15	28.127		
9,027.7	7,500.0	7,322.9	7,251.4	33.8	20.6	70.04	567.8	681.5	1,349.3	1,301.8	47.55	28.379		
9,100.0	7,500.0	7,319.9	7,248.4	35.0	20.6	69.81	568.2	681.1	1,410.7	1,362.1	48.60	29.028		
9,127.7	7,500.0	7,318.8	7,247.4	35.5	20.6	69.73	568.3	681.0	1,434.5	1,385.5	49.00	29.274		
9,200.0	7,500.0	7,300.0	7,228.8	36.6	20.6	67.83	570.3	678.4	1,497.7	1,448.2	49.52	30.246		
9,300.0	7,500.0	7,300.0	7,228.8	38.3	20.6	67.08	570.3	678.4	1,586.5	1,535.8	50.70	31.294		
9,400.0	7,500.0	7,300.0	7,228.8	40.0	20.6	66.23	570.3	678.4	1,677.3	1,625.5	51.82	32.368		
9,427.7	7,500.0	7,300.0	7,228.8	40.4	20.6	65.97	570.3	678.4	1,702.7	1,650.6	52.12	32.671		
9,500.0	7,500.0	7,300.0	7,228.8	41.6	20.6	65.97	570.3	678.4	1,769.5	1,716.3	53.22	33.249		
9,600.0	7,500.0	7,300.0	7,228.8	43.3	20.6	65.97	570.3	678.4	1,862.5	1,807.8	54.75	34.020		
9,700.0	7,500.0	7,300.0	7,228.8	45.0	20.6	65.97	570.3	678.4	1,956.2	1,899.9	56.28	34.757		
9,800.0	7,500.0	7,300.0	7,228.8	46.7	20.6	65.97	570.3	678.4	2,050.5	1,992.7	57.82	35.462		
9,900.0	7,500.0	7,300.0	7,228.8	48.4	20.6	65.97	570.3	678.4	2,145.4	2,086.0	59.37	36.136		
10,000.0	7,500.0	7,300.0	7,228.8	50.1	20.6	65.97	570.3	678.4	2,240.6	2,179.7	60.92	36.781		
10,100.0	7,500.0	7,300.0	7,228.8	51.8	20.6	65.97	570.3	678.4	2,336.3	2,273.8	62.47	37.398		
10,200.0	7,500.0	7,300.0	7,228.8	53.5	20.6	65.97	570.3	678.4	2,432.3	2,368.3	64.03	37.988		
10,300.0	7,500.0	7,300.0	7,228.8	55.2	20.6	65.97	570.3	678.4	2,528.7	2,463.1	65.59	38.553		
10,400.0	7,500.0	7,300.0	7,228.8	56.9	20.6	65.97	570.3	678.4	2,625.3	2,558.1	67.15	39.094		
10,500.0	7,500.0	7,300.0	7,228.8	58.6	20.6	65.97	570.3	678.4	2,722.1	2,653.4	68.72	39.613		
10,600.0	7,500.0	7,300.0	7,228.8	60.3	20.6	65.97	570.3	678.4	2,819.2	2,748.9	70.29	40.110		
10,627.7	7,500.0	7,300.0	7,228.8	60.8	20.6	65.97	570.3	678.4	2,846.1	2,775.4	70.72	40.245		
10,700.0	7,500.0	7,300.0	7,228.8	62.0	20.6	67.15	570.3	678.4	2,916.4	2,843.8	72.51	40.219		
10,800.0	7,500.0	7,300.0	7,228.8	63.7	20.6	68.65	570.3	678.4	3,013.4	2,938.4	74.91	40.226		
10,900.0	7,500.0	7,300.0	7,228.8	65.5	20.6	70.01	570.3	678.4	3,110.1	3,032.9	77.23	40.273		
11,000.0	7,500.0	7,300.0	7,228.8	67.2	20.6	71.24	570.3	678.4	3,206.7	3,127.3	79.47	40.353		
11,023.0	7,500.0	7,300.0	7,228.8	67.6	20.6	71.51	570.3	678.4	3,229.0	3,149.0	79.97	40.375		
11,100.0	7,500.0	7,300.0	7,228.8	68.9	20.6	71.51	570.3	678.4	3,303.2	3,222.0	81.23	40.664		
11,200.0	7,500.0	7,300.0	7,228.8	70.6	20.6	71.51	570.3	678.4	3,399.9	3,317.1	82.87	41.028		
11,300.0	7,500.0	7,278.4	7,207.5	72.3	20.6	70.10	571.9	675.5	3,496.3	3,412.5	83.85	41.695		
11,400.0	7,500.0	7,277.6	7,206.7	74.1	20.6	70.05	571.9	675.4	3,593.3	3,507.9	85.45	42.050		
11,500.0	7,500.0	7,276.9	7,206.0	75.8	20.6	70.01	571.9	675.3	3,690.5	3,603.5	87.06	42.392		
11,600.0	7,500.0	7,276.2	7,205.4	77.5	20.6	69.96	572.0	675.2	3,787.8	3,699.2	88.66	42.723		
11,700.0	7,500.0	7,275.6	7,204.7	79.3	20.6	69.92	572.0	675.1	3,885.3	3,795.0	90.26	43.044		
11,800.0	7,500.0	7,275.0	7,204.1	81.0	20.6	69.88	572.0	675.0	3,982.9	3,891.0	91.87	43.354		
11,900.0	7,500.0	7,274.4	7,203.5	82.7	20.6	69.84	572.1	675.0	4,080.6	3,987.1	93.48	43.654		
12,000.0	7,500.0	7,273.8	7,203.0	84.5	20.6	69.80	572.1	674.9	4,178.4	4,083.3	95.08	43.944		
12,100.0	7,500.0	7,273.3	7,202.4	86.2	20.6	69.77	572.1	674.8	4,276.3	4,179.6	96.69	44.226		
12,200.0	7,500.0	7,272.8	7,201.9	87.9	20.6	69.74	572.1	674.7	4,374.3	4,276.0	98.30	44.499		
12,300.0	7,500.0	7,272.3	7,201.4	89.7	20.6	69.70	572.2	674.7	4,472.4	4,372.5	99.91	44.764		
12,400.0	7,500.0	7,250.0	7,179.4	91.4	20.5	68.27	572.7	671.7	4,571.0	4,470.4	100.65	45.416		
12,500.0	7,500.0	7,250.0	7,179.4	93.1	20.5	68.27	572.7	671.7	4,669.2	4,567.0	102.26	45.659		
12,600.0	7,500.0	7,250.0	7,179.4	94.9	20.5	68.27	572.7	671.7	4,767.5	4,663.7	103.88	45.896		
12,700.0	7,500.0	7,250.0	7,179.4	96.6	20.5	68.27	572.7	671.7	4,865.9	4,760.4	105.49	46.125		
12,800.0	7,500.0	7,250.0	7,179.4	98.3	20.5	68.27	572.7	671.7	4,964.3	4,857.2	107.11	46.348		
12,900.0	7,500.0	7,250.0	7,179.4	100.1	20.5	68.27	572.7	671.7	5,062.8	4,954.1	108.73	46.565		
13,000.0	7,500.0	7,250.0	7,179.4	101.8	20.5	68.27	572.7	671.7	5,161.4	5,051.1	110.34	46.776		
13,100.0	7,500.0	7,250.0	7,179.4	103.6	20.5	68.27	572.7	671.7	5,260.0	5,148.0	111.96	46.981		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-29.9	29.9	29.6	0.30	98.612		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-29.9	29.9	29.3	0.65	45.878		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-29.9	29.9	28.9	1.00	29.893		
400.0	400.0	400.5	400.4	0.7	0.7	52.07	0.4	-29.1	28.6	27.3	1.35	21.153		
500.0	500.0	500.7	500.7	0.9	0.9	59.56	1.4	-26.7	24.8	23.1	1.71	14.558		
600.0	599.9	600.7	600.5	1.0	1.0	77.61	3.2	-22.7	19.9	17.9	2.08	9.612		
691.7	691.5	692.1	691.7	1.2	1.2	110.37	5.4	-17.7	17.8	15.4	2.43	7.342 CC		
700.0	699.8	700.3	699.9	1.2	1.2	113.72	5.7	-17.2	17.8	15.4	2.46	7.257 ES, SF		
800.0	799.7	799.7	799.1	1.4	1.4	158.29	8.8	-10.0	20.7	17.9	2.82	7.337		
865.6	865.4	864.9	864.0	1.5	1.6	-155.82	11.3	-4.5	24.6	21.5	3.05	8.050		
900.0	899.7	899.0	897.9	1.6	1.7	-150.13	12.7	-1.3	27.1	23.9	3.17	8.537		
1,000.0	999.7	997.9	996.2	1.7	1.9	-137.45	17.2	8.9	36.3	32.8	3.51	10.332		
1,100.0	1,099.7	1,096.4	1,093.8	1.9	2.2	-129.12	22.3	20.6	48.1	44.2	3.86	12.469		
1,200.0	1,199.7	1,194.4	1,190.8	2.1	2.5	-123.51	28.2	33.8	62.1	57.9	4.20	14.774		
1,300.0	1,299.7	1,291.9	1,287.0	2.3	2.8	-119.57	34.6	48.4	78.0	73.5	4.54	17.164		
1,400.0	1,399.7	1,388.8	1,382.3	2.4	3.1	-116.70	41.7	64.4	95.8	90.9	4.89	19.599		
1,500.0	1,499.7	1,485.1	1,476.7	2.6	3.5	-114.53	49.4	81.7	115.3	110.1	5.23	22.058		
1,600.0	1,599.7	1,582.9	1,572.4	2.8	3.8	-112.89	57.5	100.1	135.8	130.2	5.57	24.364		
1,700.0	1,699.7	1,680.8	1,668.2	3.0	4.2	-111.68	65.6	118.5	156.3	150.4	5.92	26.415		
1,800.0	1,799.7	1,778.6	1,763.9	3.1	4.6	-110.75	73.7	136.8	176.9	170.7	6.26	28.246		
1,900.0	1,899.7	1,876.4	1,859.6	3.3	5.0	-110.01	81.9	155.2	197.6	190.9	6.61	29.892		
2,000.0	1,999.6	1,974.2	1,955.4	3.5	5.3	-109.41	90.0	173.5	218.2	211.3	6.95	31.376		
2,100.0	2,099.6	2,072.0	2,051.1	3.7	5.7	-108.92	98.1	191.9	238.9	231.6	7.30	32.723		
2,200.0	2,199.6	2,169.9	2,146.9	3.9	6.1	-108.51	106.2	210.2	259.6	251.9	7.65	33.949		
2,300.0	2,299.6	2,267.7	2,242.6	4.0	6.5	-108.15	114.3	228.6	280.3	272.3	7.99	35.071		
2,400.0	2,399.6	2,365.5	2,338.3	4.2	6.9	-107.85	122.5	247.0	301.0	292.6	8.34	36.100		
2,500.0	2,499.6	2,463.3	2,434.1	4.4	7.3	-107.58	130.6	265.3	321.7	313.0	8.68	37.048		
2,600.0	2,599.6	2,561.2	2,529.8	4.6	7.7	-107.35	138.7	283.7	342.4	333.4	9.03	37.924		
2,700.0	2,699.6	2,659.0	2,625.6	4.7	8.1	-107.14	146.8	302.0	363.1	353.7	9.37	38.736		
2,800.0	2,799.6	2,756.8	2,721.3	4.9	8.4	-106.95	154.9	320.4	383.8	374.1	9.72	39.490		
2,900.0	2,899.6	2,854.6	2,817.1	5.1	8.8	-106.79	163.0	338.7	404.6	394.5	10.07	40.193		
3,000.0	2,999.6	2,952.4	2,912.8	5.3	9.2	-106.64	171.2	357.1	425.3	414.9	10.41	40.850		
3,100.0	3,099.6	3,050.3	3,008.5	5.4	9.6	-106.50	179.3	375.5	446.0	435.3	10.76	41.464		
3,200.0	3,199.6	3,148.1	3,104.3	5.6	10.0	-106.38	187.4	393.8	466.8	455.6	11.10	42.041		
3,300.0	3,299.6	3,245.9	3,200.0	5.8	10.4	-106.27	195.5	412.2	487.5	476.0	11.45	42.582		
3,400.0	3,399.5	3,343.7	3,295.8	6.0	10.8	-106.16	203.6	430.5	508.2	496.4	11.79	43.092		
3,500.0	3,499.5	3,441.6	3,391.5	6.1	11.2	-106.07	211.7	448.9	529.0	516.8	12.14	43.573		
3,600.0	3,599.5	3,539.4	3,487.2	6.3	11.6	-105.98	219.9	467.2	549.7	537.2	12.49	44.028		
3,700.0	3,699.5	3,637.2	3,583.0	6.5	12.0	-105.90	228.0	485.6	570.5	557.6	12.83	44.458		
3,800.0	3,799.5	3,735.0	3,678.7	6.7	12.4	-105.82	236.1	504.0	591.2	578.0	13.18	44.866		
3,900.0	3,899.5	3,832.8	3,774.5	6.8	12.8	-105.75	244.2	522.3	611.9	598.4	13.52	45.252		
4,000.0	3,999.5	3,930.7	3,870.2	7.0	13.2	-105.68	252.3	540.7	632.7	618.8	13.87	45.620		
4,100.0	4,099.5	4,028.5	3,965.9	7.2	13.5	-105.62	260.5	559.0	653.4	639.2	14.21	45.970		
4,200.0	4,199.5	4,126.3	4,061.7	7.4	13.9	-105.56	268.6	577.4	674.2	659.6	14.56	46.303		
4,300.0	4,299.5	4,224.1	4,157.4	7.5	14.3	-105.51	276.7	595.7	694.9	680.0	14.91	46.621		
4,400.0	4,399.5	4,322.0	4,253.2	7.7	14.7	-105.45	284.8	614.1	715.7	700.4	15.25	46.924		
4,500.0	4,499.5	4,419.8	4,348.9	7.9	15.1	-105.41	292.9	632.5	736.4	720.8	15.60	47.214		
4,600.0	4,599.5	4,517.6	4,444.6	8.1	15.5	-105.36	301.0	650.8	757.2	741.2	15.94	47.491		
4,700.0	4,699.5	4,615.4	4,540.4	8.2	15.9	-105.32	309.2	669.2	777.9	761.6	16.29	47.757		
4,800.0	4,799.5	4,713.2	4,636.1	8.4	16.3	-105.27	317.3	687.5	798.7	782.0	16.64	48.012		
4,900.0	4,899.4	4,811.1	4,731.9	8.6	16.7	-105.23	325.4	705.9	819.4	802.4	16.98	48.256		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 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	4,999.4	4,908.9	4,827.6	8.8	17.1	-105.20	333.5	724.2	840.2	822.8	17.33	48.490	
5,100.0	5,099.4	5,006.7	4,923.3	8.9	17.5	-105.16	341.6	742.6	860.9	843.3	17.67	48.716	
5,200.0	5,199.4	5,104.5	5,019.1	9.1	17.9	-105.13	349.7	761.0	881.7	863.7	18.02	48.932	
5,300.0	5,299.4	5,202.3	5,114.8	9.3	18.3	-105.10	357.9	779.3	902.4	884.1	18.36	49.141	
5,400.0	5,399.4	5,300.2	5,210.6	9.5	18.7	-105.06	366.0	797.7	923.2	904.5	18.71	49.342	
5,500.0	5,499.4	5,398.0	5,306.3	9.6	19.1	-105.04	374.1	816.0	943.9	924.9	19.06	49.535	
5,600.0	5,599.4	5,495.8	5,402.0	9.8	19.5	-105.01	382.2	834.4	964.7	945.3	19.40	49.722	
5,700.0	5,699.4	5,593.6	5,497.8	10.0	19.8	-104.98	390.3	852.7	985.4	965.7	19.75	49.902	
5,800.0	5,799.4	5,691.5	5,593.5	10.2	20.2	-104.95	398.5	871.1	1,006.2	986.1	20.09	50.076	
5,900.0	5,899.4	5,789.3	5,689.3	10.3	20.6	-104.93	406.6	889.5	1,026.9	1,006.5	20.44	50.244	
6,000.0	5,999.4	5,887.1	5,785.0	10.5	21.0	-104.90	414.7	907.8	1,047.7	1,026.9	20.78	50.407	
6,100.0	6,099.4	5,984.9	5,880.7	10.7	21.4	-104.88	422.8	926.2	1,068.5	1,047.3	21.13	50.564	
6,200.0	6,199.4	6,082.7	5,976.5	10.9	21.8	-104.86	430.9	944.5	1,089.2	1,067.7	21.48	50.716	
6,300.0	6,299.4	6,180.6	6,072.2	11.1	22.2	-104.84	439.0	962.9	1,110.0	1,088.1	21.82	50.864	
6,400.0	6,399.3	6,278.4	6,168.0	11.2	22.6	-104.82	447.2	981.2	1,130.7	1,108.5	22.17	51.006	
6,500.0	6,499.3	6,376.2	6,263.7	11.4	23.0	-104.80	455.3	999.6	1,151.5	1,129.0	22.51	51.145	
6,600.0	6,599.3	6,474.0	6,359.5	11.6	23.4	-104.78	463.4	1,017.9	1,172.2	1,149.4	22.86	51.279	
6,700.0	6,699.3	6,571.9	6,455.2	11.8	23.8	-104.76	471.5	1,036.3	1,193.0	1,169.8	23.21	51.409	
6,800.0	6,799.3	6,669.7	6,550.9	11.9	24.2	-104.74	479.6	1,054.7	1,213.7	1,190.2	23.55	51.536	
6,900.0	6,899.3	6,767.5	6,646.7	12.1	24.6	-104.73	487.7	1,073.0	1,234.5	1,210.6	23.90	51.658	
6,921.2	6,920.6	6,788.3	6,667.0	12.1	24.7	-104.72	489.5	1,076.9	1,238.9	1,214.9	23.97	51.684	
6,950.0	6,949.3	6,816.5	6,694.6	12.2	24.8	58.98	491.8	1,082.2	1,244.5	1,220.4	24.12	51.598	
7,000.0	6,999.1	6,865.6	6,742.7	12.3	25.0	60.93	495.9	1,091.4	1,252.8	1,228.5	24.33	51.485	
7,050.0	7,048.4	6,914.5	6,790.5	12.3	25.2	61.20	499.9	1,100.6	1,259.1	1,234.6	24.49	51.423	
7,100.0	7,096.7	6,962.8	6,837.8	12.4	25.4	61.53	504.0	1,109.7	1,263.4	1,238.8	24.58	51.395	
7,150.0	7,143.8	7,010.2	6,884.3	12.5	25.6	62.09	507.9	1,118.6	1,265.8	1,241.2	24.65	51.359	
7,200.0	7,189.2	7,451.8	7,289.5	12.5	26.3	75.99	384.3	1,196.3	1,259.9	1,234.3	25.58	49.248	
7,250.0	7,232.6	7,548.8	7,358.4	12.6	26.3	81.44	317.5	1,209.5	1,249.1	1,223.2	25.96	48.121	
7,300.0	7,273.7	7,568.9	7,371.2	12.7	26.3	83.42	302.3	1,211.9	1,239.2	1,213.0	26.20	47.302	
7,350.0	7,312.1	7,567.0	7,370.1	12.9	26.3	84.21	303.7	1,211.7	1,230.7	1,204.3	26.42	46.589	
7,400.0	7,347.6	7,556.1	7,363.1	13.1	26.3	84.41	312.0	1,210.4	1,223.8	1,197.2	26.65	45.920	
7,450.0	7,379.9	7,540.6	7,353.0	13.3	26.3	84.24	323.6	1,208.4	1,218.4	1,191.5	26.92	45.262	
7,500.0	7,408.8	7,522.4	7,340.7	13.5	26.3	83.80	336.9	1,206.1	1,214.5	1,187.3	27.23	44.603	
7,550.0	7,434.0	7,502.5	7,326.9	13.8	26.3	83.15	350.8	1,203.4	1,212.0	1,184.4	27.59	43.936	
7,600.0	7,455.3	7,481.6	7,311.8	14.2	26.3	82.34	365.0	1,200.6	1,210.8	1,182.8	28.00	43.245	
7,624.5	7,464.3	7,471.1	7,304.0	14.4	26.3	81.88	372.0	1,199.1	1,210.7	1,182.4	28.23	42.890	
7,650.0	7,472.7	7,459.9	7,295.7	14.6	26.3	81.38	379.2	1,197.5	1,210.8	1,182.4	28.47	42.533	
7,700.0	7,485.8	7,437.7	7,278.6	15.0	26.3	80.31	393.0	1,194.2	1,211.9	1,182.9	29.00	41.795	
7,750.0	7,494.7	7,415.1	7,260.7	15.5	26.3	79.16	406.3	1,190.7	1,213.9	1,184.3	29.59	41.031	
7,800.0	7,499.3	7,392.2	7,242.0	16.0	26.3	77.93	419.1	1,187.2	1,216.8	1,186.5	30.24	40.240	
7,827.7	7,500.0	7,379.4	7,231.4	16.3	26.3	77.23	425.9	1,185.1	1,218.7	1,188.0	30.63	39.792	
7,900.0	7,500.0	7,350.0	7,206.4	17.2	26.3	76.04	440.7	1,180.3	1,225.4	1,194.0	31.43	38.988	
8,000.0	7,500.0	7,314.6	7,175.3	18.4	26.2	74.56	456.6	1,174.4	1,240.5	1,207.9	32.58	38.074	
8,100.0	7,500.0	7,287.3	7,150.8	19.7	26.2	73.39	467.6	1,169.7	1,262.2	1,228.4	33.78	37.367	
8,200.0	7,500.0	7,265.0	7,130.4	21.1	26.2	72.43	475.6	1,165.8	1,290.6	1,255.6	35.02	36.855	
8,300.0	7,500.0	7,250.0	7,116.5	22.5	26.2	71.77	480.6	1,163.1	1,325.5	1,289.1	36.32	36.498	
8,400.0	7,500.0	7,231.3	7,099.0	24.0	26.1	70.95	486.3	1,159.7	1,366.3	1,328.7	37.61	36.330	
8,500.0	7,500.0	7,218.2	7,086.6	25.5	26.1	70.37	489.9	1,157.4	1,412.8	1,373.9	38.95	36.272	
8,600.0	7,500.0	7,200.0	7,069.3	27.0	26.1	69.56	494.4	1,154.1	1,464.5	1,424.2	40.27	36.367	
8,700.0	7,500.0	7,200.0	7,069.3	28.6	26.1	69.56	494.4	1,154.1	1,520.8	1,479.0	41.73	36.442	
8,800.0	7,500.0	7,200.0	7,069.3	30.2	26.1	69.56	494.4	1,154.1	1,581.4	1,538.1	43.21	36.595	
8,900.0	7,500.0	7,181.1	7,051.2	31.8	26.1	68.72	498.5	1,150.6	1,645.5	1,601.0	44.54	36.948	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,174.4	7,044.8	33.4	26.0	68.42	499.9	1,149.3	1,713.1	1,667.1	45.97	37.263		
9,027.7	7,500.0	7,172.7	7,043.1	33.8	26.0	68.34	500.2	1,149.0	1,732.4	1,686.0	46.37	37.357		
9,100.0	7,500.0	7,168.4	7,039.0	35.0	26.0	68.15	501.0	1,148.2	1,783.6	1,736.2	47.42	37.612		
9,127.7	7,500.0	7,150.0	7,021.1	35.5	26.0	67.33	504.0	1,144.8	1,803.9	1,756.3	47.64	37.868		
9,200.0	7,500.0	7,150.0	7,021.1	36.6	26.0	67.02	504.0	1,144.8	1,857.3	1,808.8	48.52	38.281		
9,300.0	7,500.0	7,150.0	7,021.1	38.3	26.0	66.55	504.0	1,144.8	1,934.0	1,884.3	49.72	38.900		
9,400.0	7,500.0	7,150.0	7,021.1	40.0	26.0	66.02	504.0	1,144.8	2,013.7	1,962.8	50.89	39.568		
9,427.7	7,500.0	7,150.0	7,021.1	40.4	26.0	65.86	504.0	1,144.8	2,036.3	1,985.1	51.21	39.762		
9,500.0	7,500.0	7,150.0	7,021.1	41.6	26.0	65.86	504.0	1,144.8	2,095.8	2,043.5	52.31	40.064		
9,600.0	7,500.0	7,150.0	7,021.1	43.3	26.0	65.86	504.0	1,144.8	2,179.5	2,125.6	53.84	40.480		
9,700.0	7,500.0	7,150.0	7,021.1	45.0	26.0	65.86	504.0	1,144.8	2,264.5	2,209.1	55.37	40.893		
9,800.0	7,500.0	7,150.0	7,021.1	46.7	26.0	65.86	504.0	1,144.8	2,350.6	2,293.7	56.91	41.301		
9,900.0	7,500.0	7,150.0	7,021.1	48.4	26.0	65.86	504.0	1,144.8	2,437.8	2,379.4	58.46	41.702		
10,000.0	7,500.0	7,150.0	7,021.1	50.1	26.0	65.86	504.0	1,144.8	2,526.0	2,466.0	60.01	42.095		
10,100.0	7,500.0	7,129.8	7,001.5	51.8	25.9	64.92	506.7	1,141.0	2,614.6	2,553.4	61.17	42.741		
10,200.0	7,500.0	7,127.3	6,999.1	53.5	25.9	64.80	506.9	1,140.6	2,704.3	2,641.6	62.67	43.153		
10,300.0	7,500.0	7,125.0	6,996.8	55.2	25.9	64.69	507.2	1,140.2	2,794.7	2,730.5	64.17	43.554		
10,400.0	7,500.0	7,122.9	6,994.7	56.9	25.9	64.59	507.4	1,139.7	2,885.7	2,820.0	65.67	43.944		
10,500.0	7,500.0	7,120.8	6,992.7	58.6	25.9	64.50	507.6	1,139.4	2,977.2	2,910.1	67.17	44.324		
10,600.0	7,500.0	7,100.0	6,972.3	60.3	25.9	63.53	509.3	1,135.5	3,069.7	3,001.4	68.24	44.984		
10,627.7	7,500.0	7,100.0	6,972.3	60.8	25.9	63.53	509.3	1,135.5	3,095.3	3,026.6	68.67	45.077		
10,700.0	7,500.0	7,100.0	6,972.3	62.0	25.9	64.29	509.3	1,135.5	3,162.0	3,091.7	70.30	44.982		
10,800.0	7,500.0	7,100.0	6,972.3	63.7	25.9	65.31	509.3	1,135.5	3,254.2	3,181.7	72.53	44.866		
10,900.0	7,500.0	7,100.0	6,972.3	65.5	25.9	66.28	509.3	1,135.5	3,346.3	3,271.6	74.74	44.770		
11,000.0	7,500.0	7,100.0	6,972.3	67.2	25.9	67.20	509.3	1,135.5	3,438.2	3,361.3	76.93	44.692		
11,023.0	7,500.0	7,100.0	6,972.3	67.6	25.9	67.40	509.3	1,135.5	3,459.4	3,381.9	77.43	44.677		
11,100.0	7,500.0	7,100.0	6,972.3	68.9	25.9	67.40	509.3	1,135.5	3,530.1	3,451.5	78.66	44.881		
11,200.0	7,500.0	7,100.0	6,972.3	70.6	25.9	67.40	509.3	1,135.5	3,622.5	3,542.2	80.25	45.141		
11,300.0	7,500.0	7,100.0	6,972.3	72.3	25.9	67.40	509.3	1,135.5	3,715.2	3,633.4	81.84	45.395		
11,400.0	7,500.0	7,100.0	6,972.3	74.1	25.9	67.40	509.3	1,135.5	3,808.3	3,724.9	83.44	45.643		
11,500.0	7,500.0	7,100.0	6,972.3	75.8	25.9	67.40	509.3	1,135.5	3,901.7	3,816.7	85.03	45.885		
11,600.0	7,500.0	7,100.0	6,972.3	77.5	25.9	67.40	509.3	1,135.5	3,995.5	3,908.9	86.63	46.121		
11,700.0	7,500.0	7,100.0	6,972.3	79.3	25.9	67.40	509.3	1,135.5	4,089.5	4,001.3	88.23	46.351		
11,800.0	7,500.0	7,100.0	6,972.3	81.0	25.9	67.40	509.3	1,135.5	4,183.9	4,094.0	89.83	46.576		
11,900.0	7,500.0	7,100.0	6,972.3	82.7	25.9	67.40	509.3	1,135.5	4,278.4	4,187.0	91.43	46.795		
12,000.0	7,500.0	7,100.0	6,972.3	84.5	25.9	67.40	509.3	1,135.5	4,373.3	4,280.2	93.03	47.009		
12,100.0	7,500.0	7,100.0	6,972.3	86.2	25.9	67.40	509.3	1,135.5	4,468.3	4,373.7	94.63	47.218		
12,200.0	7,500.0	7,100.0	6,972.3	87.9	25.9	67.40	509.3	1,135.5	4,563.6	4,467.4	96.23	47.421		
12,300.0	7,500.0	7,100.0	6,972.3	89.7	25.9	67.40	509.3	1,135.5	4,659.0	4,561.2	97.84	47.620		
12,400.0	7,500.0	7,100.0	6,972.3	91.4	25.9	67.40	509.3	1,135.5	4,754.7	4,655.3	99.44	47.814		
12,500.0	7,500.0	7,100.0	6,972.3	93.1	25.9	67.40	509.3	1,135.5	4,850.5	4,749.5	101.05	48.003		
12,600.0	7,500.0	7,100.0	6,972.3	94.9	25.9	67.40	509.3	1,135.5	4,946.5	4,843.9	102.65	48.187		
12,700.0	7,500.0	7,100.0	6,972.3	96.6	25.9	67.40	509.3	1,135.5	5,042.7	4,938.4	104.26	48.367		
12,800.0	7,500.0	7,100.0	6,972.3	98.3	25.9	67.40	509.3	1,135.5	5,138.9	5,033.1	105.86	48.543		
12,900.0	7,500.0	7,100.0	6,972.3	100.1	25.9	67.40	509.3	1,135.5	5,235.4	5,127.9	107.47	48.714		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-20.2	20.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.99	0.0	-20.2	20.2	19.8	0.30	66.355		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-20.2	20.2	19.5	0.65	30.871		
300.0	300.0	300.3	300.3	0.5	0.5	-89.14	0.3	-19.3	19.3	18.3	1.00	19.278		
400.0	400.0	400.6	400.5	0.7	0.7	56.40	1.1	-16.8	16.4	15.0	1.35	12.104		
500.0	500.0	500.5	500.4	0.9	0.9	76.71	2.6	-12.7	11.7	10.0	1.72	6.824		
564.2	564.1	564.5	564.3	1.0	1.0	108.01	3.8	-9.2	10.0	8.0	1.97	5.059 CC, ES, SF		
600.0	599.9	600.1	599.7	1.0	1.1	129.73	4.6	-7.0	10.7	8.6	2.10	5.110		
700.0	699.8	699.3	698.6	1.2	1.3	171.77	7.1	0.4	18.5	16.1	2.44	7.580		
800.0	799.7	798.2	797.2	1.4	1.5	-159.07	10.2	9.4	28.8	26.0	2.78	10.357		
865.6	865.4	863.1	861.6	1.5	1.7	-121.82	12.5	16.1	36.0	32.9	3.01	11.942		
900.0	899.7	897.0	895.3	1.6	1.8	-119.75	13.8	19.9	39.9	36.7	3.13	12.733		
1,000.0	999.7	995.4	992.9	1.7	2.0	-115.11	18.0	32.0	52.5	49.0	3.48	15.091		
1,100.0	1,099.7	1,093.3	1,089.7	1.9	2.3	-111.87	22.6	45.6	66.9	63.1	3.82	17.504		
1,200.0	1,199.7	1,190.7	1,185.8	2.1	2.6	-109.50	27.8	60.6	83.2	79.0	4.17	19.945		
1,300.0	1,299.7	1,287.5	1,281.0	2.3	3.0	-107.72	33.5	77.1	101.1	96.6	4.51	22.401		
1,400.0	1,399.7	1,383.7	1,375.3	2.4	3.3	-106.33	39.7	95.0	120.8	115.9	4.86	24.862		
1,500.0	1,499.7	1,479.2	1,468.6	2.6	3.7	-105.22	46.3	114.3	142.1	136.9	5.20	27.325		
1,600.0	1,599.7	1,574.0	1,560.9	2.8	4.1	-104.31	53.4	134.9	165.1	159.5	5.54	29.788		
1,700.0	1,699.7	1,670.4	1,654.4	3.0	4.6	-103.57	61.0	156.8	189.2	183.3	5.88	32.148		
1,800.0	1,799.7	1,767.4	1,748.6	3.1	5.0	-102.99	68.6	178.9	213.4	207.1	6.23	34.252		
1,900.0	1,899.7	1,864.4	1,842.7	3.3	5.4	-102.52	76.2	201.1	237.6	231.0	6.57	36.139		
2,000.0	1,999.6	1,961.5	1,936.9	3.5	5.9	-102.15	83.8	223.2	261.8	254.8	6.92	37.840		
2,100.0	2,099.6	2,058.5	2,031.1	3.7	6.3	-101.83	91.5	245.3	286.0	278.7	7.26	39.381		
2,200.0	2,199.6	2,155.5	2,125.2	3.9	6.7	-101.57	99.1	267.4	310.2	302.6	7.61	40.783		
2,300.0	2,299.6	2,252.5	2,219.4	4.0	7.2	-101.34	106.7	289.5	334.4	326.5	7.95	42.065		
2,400.0	2,399.6	2,349.5	2,313.5	4.2	7.6	-101.14	114.3	311.7	358.6	350.3	8.29	43.241		
2,500.0	2,499.6	2,446.5	2,407.7	4.4	8.1	-100.97	122.0	333.8	382.9	374.2	8.64	44.323		
2,600.0	2,599.6	2,543.5	2,501.8	4.6	8.5	-100.82	129.6	355.9	407.1	398.1	8.98	45.323		
2,700.0	2,699.6	2,640.6	2,596.0	4.7	9.0	-100.69	137.2	378.0	431.3	422.0	9.33	46.250		
2,800.0	2,799.6	2,737.6	2,690.1	4.9	9.4	-100.57	144.8	400.1	455.6	445.9	9.67	47.111		
2,900.0	2,899.6	2,834.6	2,784.3	5.1	9.9	-100.46	152.4	422.3	479.8	469.8	10.01	47.913		
3,000.0	2,999.6	2,931.6	2,878.4	5.3	10.3	-100.36	160.1	444.4	504.1	493.7	10.36	48.662		
3,100.0	3,099.6	3,028.6	2,972.6	5.4	10.8	-100.28	167.7	466.5	528.3	517.6	10.70	49.363		
3,200.0	3,199.6	3,125.6	3,066.7	5.6	11.2	-100.20	175.3	488.6	552.6	541.5	11.05	50.020		
3,300.0	3,299.6	3,222.6	3,160.9	5.8	11.7	-100.12	182.9	510.7	576.8	565.4	11.39	50.638		
3,400.0	3,399.5	3,319.6	3,255.0	6.0	12.1	-100.05	190.5	532.9	601.0	589.3	11.73	51.219		
3,500.0	3,499.5	3,416.7	3,349.2	6.1	12.6	-99.99	198.2	555.0	625.3	613.2	12.08	51.768		
3,600.0	3,599.5	3,513.7	3,443.3	6.3	13.0	-99.93	205.8	577.1	649.5	637.1	12.42	52.286		
3,700.0	3,699.5	3,610.7	3,537.5	6.5	13.5	-99.88	213.4	599.2	673.8	661.0	12.77	52.777		
3,800.0	3,799.5	3,707.7	3,631.6	6.7	13.9	-99.83	221.0	621.3	698.0	684.9	13.11	53.242		
3,900.0	3,899.5	3,804.7	3,725.8	6.8	14.3	-99.78	228.7	643.5	722.3	708.8	13.45	53.683		
4,000.0	3,999.5	3,901.7	3,819.9	7.0	14.8	-99.74	236.3	665.6	746.5	732.7	13.80	54.102		
4,100.0	4,099.5	3,998.7	3,914.1	7.2	15.2	-99.70	243.9	687.7	770.8	756.6	14.14	54.501		
4,200.0	4,199.5	4,095.8	4,008.2	7.4	15.7	-99.66	251.5	709.8	795.0	780.6	14.49	54.880		
4,300.0	4,299.5	4,192.8	4,102.4	7.5	16.1	-99.63	259.1	731.9	819.3	804.5	14.83	55.243		
4,400.0	4,399.5	4,289.8	4,196.5	7.7	16.6	-99.59	266.8	754.1	843.5	828.4	15.17	55.589		
4,500.0	4,499.5	4,386.8	4,290.7	7.9	17.0	-99.56	274.4	776.2	867.8	852.3	15.52	55.919		
4,600.0	4,599.5	4,483.8	4,384.8	8.1	17.5	-99.53	282.0	798.3	892.0	876.2	15.86	56.235		
4,700.0	4,699.5	4,580.8	4,479.0	8.2	18.0	-99.50	289.6	820.4	916.3	900.1	16.21	56.538		
4,800.0	4,799.5	4,677.8	4,573.1	8.4	18.4	-99.47	297.2	842.5	940.6	924.0	16.55	56.829		
4,900.0	4,899.4	4,774.9	4,667.3	8.6	18.9	-99.45	304.9	864.7	964.8	947.9	16.89	57.107		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 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	4,999.4	4,871.9	4,761.4	8.8	19.3	-99.42	312.5	886.8	989.1	971.8	17.24	57.374	
5,100.0	5,099.4	4,968.9	4,855.6	8.9	19.8	-99.40	320.1	908.9	1,013.3	995.7	17.58	57.631	
5,200.0	5,199.4	5,065.9	4,949.7	9.1	20.2	-99.38	327.7	931.0	1,037.6	1,019.6	17.93	57.879	
5,300.0	5,299.4	5,162.9	5,043.9	9.3	20.7	-99.36	335.4	953.1	1,061.8	1,043.5	18.27	58.116	
5,400.0	5,399.4	5,259.9	5,138.0	9.5	21.1	-99.33	343.0	975.3	1,086.1	1,067.5	18.61	58.345	
5,500.0	5,499.4	5,356.9	5,232.2	9.6	21.6	-99.32	350.6	997.4	1,110.3	1,091.4	18.96	58.566	
5,600.0	5,599.4	5,453.9	5,326.3	9.8	22.0	-99.30	358.2	1,019.5	1,134.6	1,115.3	19.30	58.779	
5,700.0	5,699.4	5,551.0	5,420.5	10.0	22.5	-99.28	365.8	1,041.6	1,158.8	1,139.2	19.65	58.985	
5,800.0	5,799.4	5,648.0	5,514.6	10.2	22.9	-99.26	373.5	1,063.7	1,183.1	1,163.1	19.99	59.183	
5,900.0	5,899.4	5,745.0	5,608.8	10.3	23.4	-99.25	381.1	1,085.9	1,207.3	1,187.0	20.33	59.375	
6,000.0	5,999.4	5,842.0	5,702.9	10.5	23.8	-99.23	388.7	1,108.0	1,231.6	1,210.9	20.68	59.560	
6,100.0	6,099.4	5,939.0	5,797.1	10.7	24.3	-99.21	396.3	1,130.1	1,255.8	1,234.8	21.02	59.739	
6,200.0	6,199.4	6,036.0	5,891.2	10.9	24.7	-99.20	404.0	1,152.2	1,280.1	1,258.7	21.37	59.913	
6,300.0	6,299.4	6,133.0	5,985.4	11.1	25.2	-99.19	411.6	1,174.3	1,304.4	1,282.6	21.71	60.081	
6,400.0	6,399.3	6,230.1	6,079.5	11.2	25.6	-99.17	419.2	1,196.5	1,328.6	1,306.6	22.05	60.244	
6,500.0	6,499.3	6,327.1	6,173.7	11.4	26.1	-99.16	426.8	1,218.6	1,352.9	1,330.5	22.40	60.401	
6,600.0	6,599.3	6,424.1	6,267.8	11.6	26.5	-99.15	434.4	1,240.7	1,377.1	1,354.4	22.74	60.554	
6,700.0	6,699.3	6,521.1	6,362.0	11.8	27.0	-99.13	442.1	1,262.8	1,401.4	1,378.3	23.09	60.703	
6,800.0	6,799.3	6,618.1	6,456.1	11.9	27.4	-99.12	449.7	1,284.9	1,425.6	1,402.2	23.43	60.847	
6,900.0	6,899.3	6,715.1	6,550.3	12.1	27.9	-99.11	457.3	1,307.1	1,449.9	1,426.1	23.77	60.987	
6,921.2	6,920.6	6,735.7	6,570.3	12.1	28.0	-99.11	458.9	1,311.8	1,455.0	1,431.2	23.85	61.016	
6,950.0	6,949.3	6,763.7	6,597.4	12.2	28.1	64.46	461.1	1,318.1	1,461.7	1,437.7	24.01	60.889	
7,000.0	6,999.1	6,812.4	6,644.6	12.3	28.3	66.15	464.9	1,329.2	1,472.2	1,447.9	24.25	60.705	
7,050.0	7,048.4	6,860.8	6,691.7	12.3	28.5	66.10	468.8	1,340.3	1,481.0	1,456.5	24.44	60.595	
7,100.0	7,096.7	6,908.7	6,738.1	12.4	28.8	66.09	472.5	1,351.2	1,488.2	1,463.6	24.57	60.563	
7,150.0	7,143.8	6,955.7	6,783.7	12.5	29.0	66.27	476.2	1,361.9	1,493.8	1,469.1	24.66	60.575	
7,200.0	7,189.2	7,001.3	6,828.0	12.5	29.2	66.66	479.8	1,372.3	1,497.9	1,473.1	24.73	60.572	
7,250.0	7,232.6	7,045.3	6,870.7	12.6	29.4	67.25	483.2	1,382.4	1,500.6	1,475.8	24.81	60.480	
7,300.0	7,273.7	7,087.3	6,911.5	12.7	29.6	68.01	486.5	1,391.9	1,502.1	1,477.1	24.94	60.220	
7,350.0	7,312.1	7,127.0	6,950.0	12.9	29.8	68.91	489.7	1,401.0	1,502.5	1,477.3	25.15	59.732	
7,400.0	7,347.6	7,164.1	6,986.0	13.1	30.0	69.92	492.6	1,409.4	1,502.0	1,476.6	25.47	58.981	
7,450.0	7,379.9	7,198.4	7,019.2	13.3	30.1	70.99	495.3	1,417.2	1,500.9	1,475.0	25.89	57.973	
7,500.0	7,408.8	7,229.4	7,049.4	13.5	30.3	72.08	497.7	1,424.3	1,499.3	1,472.9	26.42	56.749	
7,550.0	7,434.0	7,257.1	7,076.3	13.8	30.4	73.14	499.9	1,430.6	1,497.5	1,470.4	27.04	55.371	
7,600.0	7,455.3	7,281.2	7,099.6	14.2	30.5	74.14	501.8	1,436.1	1,495.6	1,467.9	27.74	53.909	
7,650.0	7,472.7	7,301.5	7,119.4	14.6	30.6	75.02	503.4	1,440.8	1,493.9	1,465.4	28.50	52.425	
7,700.0	7,485.8	7,317.9	7,135.2	15.0	30.7	75.75	504.7	1,444.5	1,492.5	1,463.3	29.29	50.965	
7,750.0	7,494.7	7,332.0	7,148.9	15.5	30.7	76.36	505.7	1,447.7	1,491.6	1,461.5	30.10	49.550	
7,800.0	7,499.3	7,339.8	7,156.5	16.0	30.8	76.69	506.1	1,449.5	1,491.3	1,460.4	30.92	48.223	
7,800.7	7,499.4	7,339.8	7,156.6	16.0	30.8	76.70	506.1	1,449.5	1,491.3	1,460.4	30.94	48.206	
7,827.7	7,500.0	7,341.6	7,158.3	16.3	30.8	76.75	506.2	1,449.9	1,491.4	1,460.0	31.38	47.521	
7,900.0	7,500.0	7,344.2	7,160.8	17.2	30.8	76.85	506.3	1,450.5	1,493.7	1,461.5	32.20	46.386	
8,000.0	7,500.0	7,350.0	7,166.4	18.4	30.8	77.08	506.5	1,451.8	1,502.6	1,469.1	33.42	44.955	
8,100.0	7,500.0	7,350.0	7,166.4	19.7	30.8	77.08	506.5	1,451.8	1,518.0	1,483.3	34.70	43.748	
8,200.0	7,500.0	7,350.0	7,166.4	21.1	30.8	77.08	506.5	1,451.8	1,539.8	1,503.7	36.04	42.729	
8,300.0	7,500.0	7,350.0	7,166.4	22.5	30.8	77.08	506.5	1,451.8	1,567.6	1,530.2	37.42	41.887	
8,400.0	7,500.0	7,350.0	7,166.4	24.0	30.8	77.08	506.5	1,451.8	1,601.3	1,562.4	38.86	41.210	
8,500.0	7,500.0	7,350.0	7,166.4	25.5	30.8	77.08	506.5	1,451.8	1,640.3	1,600.0	40.32	40.679	
8,600.0	7,500.0	7,350.0	7,166.4	27.0	30.8	77.08	506.5	1,451.8	1,684.4	1,642.6	41.82	40.278	
8,700.0	7,500.0	7,350.0	7,166.4	28.6	30.8	77.08	506.5	1,451.8	1,733.1	1,689.8	43.34	39.990	
8,800.0	7,500.0	7,350.0	7,166.4	30.2	30.8	77.08	506.5	1,451.8	1,786.2	1,741.3	44.88	39.798	
8,900.0	7,500.0	7,350.0	7,166.4	31.8	30.8	77.08	506.5	1,451.8	1,843.1	1,796.6	46.44	39.687	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,500.0	7,350.0	7,166.4	33.4	30.8	77.08	506.5	1,451.8	1,903.6	1,855.6	48.01	39.646		
9,027.7	7,500.0	7,350.0	7,166.4	33.8	30.8	77.08	506.5	1,451.8	1,920.9	1,872.5	48.45	39.645		
9,100.0	7,500.0	7,350.0	7,166.4	35.0	30.8	77.08	506.5	1,451.8	1,967.3	1,917.7	49.60	39.661		
9,127.7	7,500.0	7,350.0	7,166.4	35.5	30.8	77.08	506.5	1,451.8	1,985.5	1,935.4	50.04	39.674		
9,200.0	7,500.0	7,350.0	7,166.4	36.6	30.8	76.93	506.5	1,451.8	2,034.2	1,983.2	51.00	39.886		
9,300.0	7,500.0	7,350.0	7,166.4	38.3	30.8	76.70	506.5	1,451.8	2,104.9	2,052.6	52.33	40.227		
9,400.0	7,500.0	7,350.0	7,166.4	40.0	30.8	76.44	506.5	1,451.8	2,179.1	2,125.4	53.65	40.613		
9,427.7	7,500.0	7,350.0	7,166.4	40.4	30.8	76.37	506.5	1,451.8	2,200.2	2,146.2	54.02	40.727		
9,500.0	7,500.0	7,350.0	7,166.4	41.6	30.8	76.37	506.5	1,451.8	2,256.0	2,200.8	55.20	40.874		
9,600.0	7,500.0	7,350.0	7,166.4	43.3	30.8	76.37	506.5	1,451.8	2,334.8	2,277.9	56.82	41.088		
9,700.0	7,500.0	7,350.0	7,166.4	45.0	30.8	76.37	506.5	1,451.8	2,415.1	2,356.6	58.46	41.313		
9,800.0	7,500.0	7,350.0	7,166.4	46.7	30.8	76.37	506.5	1,451.8	2,496.8	2,436.7	60.10	41.546		
9,900.0	7,500.0	7,350.0	7,166.4	48.4	30.8	76.37	506.5	1,451.8	2,579.8	2,518.1	61.74	41.783		
10,000.0	7,500.0	7,350.0	7,166.4	50.1	30.8	76.37	506.5	1,451.8	2,664.0	2,600.6	63.39	42.024		
10,100.0	7,500.0	7,350.0	7,166.4	51.8	30.8	76.37	506.5	1,451.8	2,749.2	2,684.2	65.04	42.266		
10,200.0	7,500.0	7,350.0	7,166.4	53.5	30.8	76.37	506.5	1,451.8	2,835.4	2,768.7	66.70	42.509		
10,300.0	7,500.0	7,350.0	7,166.4	55.2	30.8	76.37	506.5	1,451.8	2,922.5	2,854.1	68.36	42.750		
10,400.0	7,500.0	7,350.0	7,166.4	56.9	30.8	76.37	506.5	1,451.8	3,010.4	2,940.4	70.03	42.990		
10,500.0	7,500.0	7,350.0	7,166.4	58.6	30.8	76.37	506.5	1,451.8	3,099.0	3,027.3	71.69	43.227		
10,600.0	7,500.0	7,350.0	7,166.4	60.3	30.8	76.37	506.5	1,451.8	3,188.3	3,114.9	73.36	43.461		
10,627.7	7,500.0	7,350.0	7,166.4	60.8	30.8	76.37	506.5	1,451.8	3,213.2	3,139.4	73.82	43.526		
10,700.0	7,500.0	7,350.0	7,166.4	62.0	30.8	76.71	506.5	1,451.8	3,278.0	3,202.7	75.29	43.537		
10,800.0	7,500.0	7,350.0	7,166.4	63.7	30.8	77.16	506.5	1,451.8	3,367.6	3,290.3	77.32	43.554		
10,900.0	7,500.0	7,350.0	7,166.4	65.5	30.8	77.60	506.5	1,451.8	3,457.0	3,377.7	79.34	43.572		
11,000.0	7,500.0	7,350.0	7,166.4	67.2	30.8	78.02	506.5	1,451.8	3,546.3	3,464.9	81.35	43.593		
11,023.0	7,500.0	7,350.0	7,166.4	67.6	30.8	78.11	506.5	1,451.8	3,566.8	3,485.0	81.81	43.598		
11,100.0	7,500.0	7,350.0	7,166.4	68.9	30.8	78.11	506.5	1,451.8	3,635.6	3,552.5	83.11	43.745		
11,200.0	7,500.0	7,350.0	7,166.4	70.6	30.8	78.11	506.5	1,451.8	3,725.4	3,640.6	84.80	43.933		
11,300.0	7,500.0	7,350.0	7,166.4	72.3	30.8	78.11	506.5	1,451.8	3,815.7	3,729.2	86.48	44.120		
11,400.0	7,500.0	7,350.0	7,166.4	74.1	30.8	78.11	506.5	1,451.8	3,906.5	3,818.3	88.17	44.304		
11,500.0	7,500.0	7,350.0	7,166.4	75.8	30.8	78.11	506.5	1,451.8	3,997.7	3,907.8	89.87	44.485		
11,600.0	7,500.0	7,350.0	7,166.4	77.5	30.8	78.11	506.5	1,451.8	4,089.3	3,997.7	91.56	44.664		
11,700.0	7,500.0	7,350.0	7,166.4	79.3	30.8	78.11	506.5	1,451.8	4,181.3	4,088.1	93.25	44.840		
11,800.0	7,500.0	7,350.0	7,166.4	81.0	30.8	78.11	506.5	1,451.8	4,273.7	4,178.7	94.95	45.012		
11,900.0	7,500.0	7,350.0	7,166.4	82.7	30.8	78.11	506.5	1,451.8	4,366.4	4,269.8	96.64	45.182		
12,000.0	7,500.0	7,350.0	7,166.4	84.5	30.8	78.11	506.5	1,451.8	4,459.4	4,361.1	98.34	45.349		
12,100.0	7,500.0	7,350.0	7,166.4	86.2	30.8	78.11	506.5	1,451.8	4,552.7	4,452.7	100.03	45.512		
12,200.0	7,500.0	7,350.0	7,166.4	87.9	30.8	78.11	506.5	1,451.8	4,646.3	4,544.6	101.73	45.673		
12,300.0	7,500.0	7,350.0	7,166.4	89.7	30.8	78.11	506.5	1,451.8	4,740.2	4,636.8	103.43	45.830		
12,400.0	7,500.0	7,350.0	7,166.4	91.4	30.8	78.11	506.5	1,451.8	4,834.3	4,729.2	105.13	45.984		
12,500.0	7,500.0	7,350.0	7,166.4	93.1	30.8	78.11	506.5	1,451.8	4,928.7	4,821.8	106.83	46.136		
12,600.0	7,500.0	7,350.0	7,166.4	94.9	30.8	78.11	506.5	1,451.8	5,023.2	4,914.7	108.53	46.284		
12,700.0	7,500.0	7,350.0	7,166.4	96.6	30.8	78.11	506.5	1,451.8	5,118.0	5,007.7	110.23	46.430		
12,800.0	7,500.0	7,350.0	7,166.4	98.3	30.8	78.11	506.5	1,451.8	5,212.9	5,101.0	111.93	46.572		

Cathedral Energy Services

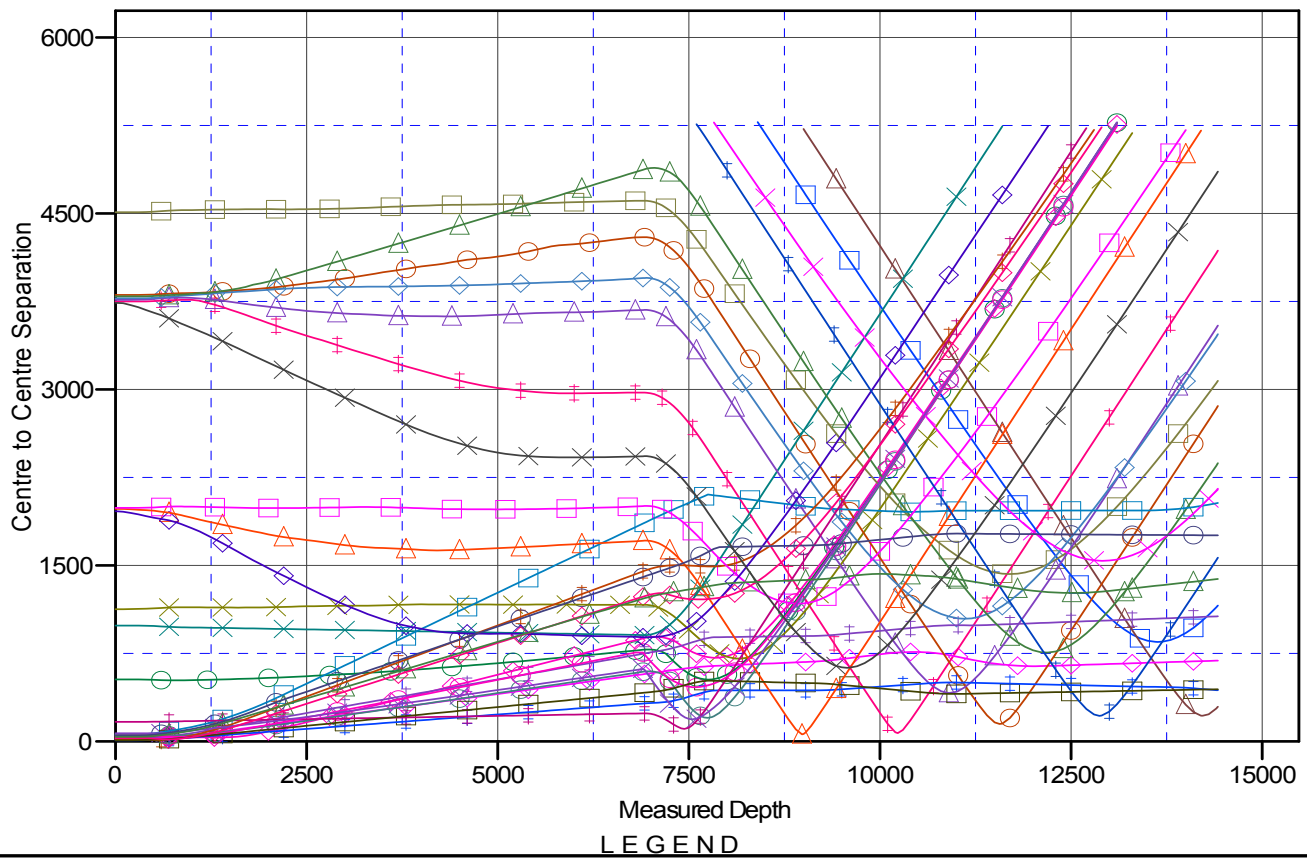
Anticollision Report

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

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

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

Ladder Plot



STING), ENCANAWELL, SURVEYS V0	BEARDEN 0-6-6 (EXISTING), ENCANAWELL, SURVEYS V0	WOOLLEY 2-4-7 (EXISTING), ENCAN
3), NOBLE WELL, NO SURVEYS V0	BEARDEN 1 (EXISTING), ENCANAWELL, SURVEYS V0	BECKY 7-6 (EXISTING), NOBLE WEL
E168, Hz, Plan #2 V0	BEARDEN 2-4-6 (EXISTING), ENCANAWELL, PLAN ONLY V0	Woolley-Sosa 2B-7H-E168, Hz, Plan #2
E168, Hz, Plan #3 V0	Woolley-Becky 2C-7H-E168, Hz, Plan #4 V0	BECKY 4 (EXISTING), MARTIN EXP V
EXISTING), ENCANAWELL, GYRO V0	Woolley-Becky 2H-7H-E168, Hz, Plan #3 V0	Woolley-Becky 2A-7H-E168, Hz, Plan #2
G), FOUNDATIONWELL, NO SURVEYS V0	Woolley-Sosa 2C-7H-E168, Hz, Plan #2 V0	Woolley-Becky 2G-7H-E168, Hz, Plan #2
E168, Hz, Plan #2 V0	WOOLLEY 11-7 (EXISTING), ENCANAWELL, SURVEYS V0	Woolley-Sosa 2F-7H-E168, Hz, Plan #2
STING), ENCANAWELL, GYRO V0	WOOLLEY 12-7 (EXISTING), ENCANAWELL, NO SURVEYS V0	BEARDEN 2-8-6 (EXISTING), ENCAN
E168, Hz, Plan #4 V0	Woolley-Sosa 2G-7H-E168, Hz, Plan #2 V0	Woolley-Becky 2F-7H-E168, Hz, Plan #2
STING), ENCANAWELL, SURVEYS V0	WOOLLEY 21-7 (EXISTING), ENCANAWELL, GYRO V0	

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